

DIV. 1: GENERAL INFORMATION

SEC. 1: ORDERING INFORMATION

1. HOW TO ORDER THE TG-5

The TG-5 (5ESS Switch Translation Guide; 235-080-100) can be ordered either through your technical information resource manager or technical documentation coordinator, or by calling the Lucent Technologies CIC (Customer Information Center) at 1-888-LUCENT-8 (1-888-582-3688) in Indianapolis, Indiana. One contact number is used to access all 5ESS Switch product information. You will be prompted to the appropriate option. You may also access product information using the Internet: www.cic.lucent.com.

The CIC service representative taking the order will request the following information:

- The type of order. The type of order can be a standing order or a one-time order. A one-time order means you will receive the current TG-5. A standing order means you will receive the current TG-5 and the monthly updates to the TG-5. If you choose a standing order, then you will keep your TG-5 current.
- A purchase order number or a credit card number. (Lucent Technologies employees should use their department number.) A purchase order number can be obtained from your purchasing organization. If you keep a record of your purchase order number and use it to make changes to your order or cancel your order, it will help the CIC service representative make these changes quickly and easily.
- An address where you want to receive the TG-5 and the TG-5 monthly update shipments.
- A contact person whom the CIC service representative can contact about the order.

1.1 HOW TO ORDER NEW BINDERS

If you need to replace worn TG-5 binders, you can order new binders for the TG-5 through your CIC regional service representative, or by calling the CIC service representative.

1.2 ELECTRONIC MEDIA DOCUMENTATION

The TG-5 is also available on CD-ROM and on-line documentation. If you wish to receive electronic media or electronic dial-up service, call the CIC.

2. HOW TO CANCEL OR CHANGE AN ORDER

To cancel or change your order, contact your technical information resource manager or technical documentation coordinator, or call the CIC. It will help the CIC service representative to expedite the changes if you know your original purchase order number.

3. HOW TO SCHEDULE TRAINING FOR TRANSLATIONS

Lucent Technologies offers courses in 5ESS Switch translations. To obtain information on these courses or to schedule a course, call the CIC.

SEC. 2: 5000 RECORD TRANSLATION INQUIRY

1. GENERAL

Your feedback is important to us. The TI (Translation Inquiry) form (5000 Record) is provided for your convenience to give feedback relating to the TG-5 (5ESS Switch Translation Guide). This inquiry may deal with problems in using translation forms or difficulties in interpreting translation information in the TG-5. The translation inquiry may also be used for suggestions and proposals relating to Translation Guide contents or arrangement.

- **NOTE:** Forwarding translations for review is not an appropriate use of the feedback form. In addition, requests for feature or option development should not be submitted as an inquiry. This type of correspondence should be directed to Lucent Technologies through your normal channels.

2. THE TRANSLATION INQUIRY

A reproducible copy of the TI is located in Division 19 of this Guide. This master should be reproduced locally to provide feedback forms for TG-5 questions and proposals.

Please FAX the completed TI to:

J. Broyles
FAX number 630-224-1314

Or, mail the completed TI to:

J. Broyles - Room 7G-318
Lucent Technologies
1960 Lucent Lane
Naperville, IL 60566-7217

Or, email your comments to:

jannbroyles@lucent.com

When the TI (Translation Inquiry) form is received by the TG-5 group, an inquiry number is assigned to that TI and the TI is assigned to a TG-5 writer. The writer will contact the originator of the TI, usually within ten working days. When the research on the inquiry has been completed, the writer will answer the inquiry and notify the originator of the schedule for publication for this information in the TG-5.

The TI is divided into two basic areas (see Figure 1). Block A is for basic reference information, Block B is for problem description or proposal.

Block A: Reference Information - Enter the division, section number, and the publication date that appears in the heading of the TG-5 section. If the inquiry relates to a specific Software Release, for example 5E10, please enter the Software Release number.

Block B: Problem or Proposal Description - This block is used to fully describe the problem or proposal. Please reference the division and section, if different from Block A, and the paragraph or figure number. The

reverse side of the form may be used if additional space is required.

Please include your name, company affiliation, address, and telephone number.

5000 (1/2000) RECORD

TRANSLATION INQUIRY

5ESS SWITCH

INQUIRY NUMBER _____
(LUCENT USE ONLY) Office

A. REFERENCE INFORMATION

Division____ Section_____

TG-5 Publication Date_____

Name_____

Title_____

Telephone Co._____

Telephone Number (____)_____

Address_____

City_____ State_____

ZIP Code_____

B. PROBLEM PROPOSAL DESCRIPTION

Enter the problem or proposal description and example as appropriate. Use reverse side of this sheet if necessary. Please give detailed description including date, page, paragraph, or figure referenced.

FAX TI to J. Broyles

FAX Number: 630-713-4613

Or send completed copy to:

J. Broyles

Lucent Technologies

1960 Lucent Lane

Naperville, IL 60566-7217

Or, email your comments to:

jannbroyles@lucent.com

SEC. 3: INTRODUCTION TO THE TG-5

1. GENERAL

The purpose of the TG-5 (5ESS Switch Translation Guide) is to enable the user to correctly populate ODD (Office Dependent Data). Office Dependent Data is initiated and maintained by the 5ODA (5ESS Switch Office Data Administration) system. In the 5ODA environment, the term "translations" refers to the office dependent data which supports the 5ESS Switch and its software. In addition to many other capabilities, this data provides the 5ESS Switch with the capability to analyze the dialed digits, route the call, and charge the subscriber.

The contents of the TG-5 are designed to help you use 5ODA to populate ODD and to help you ensure an error-free database. The information presented in the TG-5 is organized into chapters and subchapters called Divisions and Sections. The following is a high-level overview of the current Divisions and Sections.

- DIVISION 0 - Provides a table of contents and cross-reference information including identification of all input forms, records, Recent Change Views, and references as to where this information can be found in the TG-5.
- DIVISION 1 - Provides general information on the 5ESS Switch and related software tools, glossary of terms, and instructions for using the TG-5.
- DIVISION 2 - Provides a discussion of how to provision the 5ESS Switch features including Maintenance and Testing Feature Requirements, Operator Services Position System Features, Special Features including Secured and Transparency features, Data Services features, Equipment features, Wireless features, and SM-2000 features.
- DIVISIONS 3, 4, 5, 6, 7, 8 - Provide a detailed discussion of ODA forms including field descriptions, data requirements, and associated integrity checks. Also included are SAMPLE RECORDS for specifying translation data and SAMPLE FORMS providing instructions for data entry into 5ODA.
- DIVISION 9 - Provides a detailed discussion for provisioning CNI (Common Network Interface) Recent Change views.
- DIVISION 11 - Provides a high-level overview of the data difference between 5ESS Switch Software Releases.
- DIVISION 19 - Provides a full set of 5ODA REPRODUCIBLE RECORDS. The reproducible records are blank sample records which are provided to facilitate data entry.
- DIVISION 20 - Provides an overview of the changes in the TG-5 for each monthly update.

A more detailed discussion of the contents of each Division and Section is presented below in paragraph 4 - ORGANIZATION OF THIS GUIDE.

1.1 5ODA and Recent Change

The TG-5 is written as a support document for the 5ODA. Thus, the TG-5 is designed to provide information necessary to accomplish

1. the establishment of a new 5ESS Switch,
2. an in-service 5ESS Switch undergoing a retrofit procedure,

3. or an in-service 5ESS Switch undergoing a large terminal growth procedure.

These events are distinguished from the Recent Change function. However, because of the extensive information maintained by the TG-5, it is an excellent reference to support Recent Change activities. Nonetheless, the Recent Change Manual should be used as the dominant source for Recent Change information.

1.2 TG-5 Updates

Much of the information in the TG-5 is subject to change. Update packages that contain additional information or changes to the TG-5 are issued monthly. If you are on standing order for the TG-5 (see Division 1, Section 1 on how to order the TG-5), you will receive the paper update package or the electronic media update package.

1.3 Change Indications

The latest changes to a TG-5 section are indicated by shaded text (or by a " | " in the right margin for earlier releases of the documentation). The date a section has been changed is listed in the heading for each section.

1.4 Your Feedback

We want your feedback. In using the TG-5, you may occasionally uncover aspects of data entry that are not covered in the documentation. The Translation Inquiry (Division 1, Section 2) describes the procedure for forwarding questions, requests and other comments regarding discrepancies between translation processes and the TG-5. The Translation Inquiry is a valuable tool for obtaining a quick response to requests for clarification of translations information.

2. 5ODA FORM PREPARATION/DATA ENTRY

The 5ODA (5ESS Switch Office Data Administration) system is the set of software tools that initiates the office dependent database for a 5ESS Switch. The 5ODA system provides the following:

- Both interactive data and bulk data entry capabilities for entering and correcting 5ESS Switch translations data.
- A data verification capability for checking errors in the 5ESS Switch translations data.
- The capability to generate Office Records (output reports) from the 5ESS Switch translations data.
- The capability to map the 5ESS Switch translation data into the data structures that are subsequently loaded into the 5ESS Switch.

The 5ODA form is composed of many data items known as fields. The first field(s) on a form is always a "key" field(s). The "key" field uniquely identifies each form and its associated data. The "key" field is designated on each form and in the text with an asterisk (*) and must always be defined.

A data item may be specified as a "rollover" field. That is, whatever value was entered in the field on the previous form will be automatically repeated on all subsequent forms until the rollover is cancelled.

A required field is a field that must have a value entered on the form. Required fields are designated by a "#",

unless it has a default value.

Each 5ODA form has predefined values entered in some fields - these are known as "default" values. Default values are listed in the text after each field. If the "default" value is not the desired entry, you may change it.

All fields are numbered and appear on the form in ascending, but not always consecutive, order.

The above information is provided in Divisions 3, 4, 5, 6, 7, 8, and 9 of this guide. Each section begins with a short general description of the corresponding 5ODA input form. In addition, the general section lists any peculiarities of the form and any possible hazards in using the form. In the "FORM ENTRIES" subsection, each field on the form is discussed in a specific paragraph. The field definition and its valid entries are included.

An example of a 5ODA input form is shown as a figure at the end of each division's section. An example of an Office Record is similarly provided.

REPRODUCIBLE RECORDS are provided in Division 19.

3. HOW TO READ THIS GUIDE

If this is your first introduction to the TG-5, you will want to read Division 1 to familiarize yourself with the contents of the TG-5 and how to use 5ODA. Refer to the Index at the front of Division 1 to find the sections containing the information that you need.

If you are already familiar with the TG-5, but need to find where the information you desire is located within the guide, refer to the following:

- Division 0, Section 0, which contains the Table of Contents for each division of the TG.
- Division 0, Section 1 which contains the 5ESS Switch Form versus Text Cross Reference Table.
- Division 0, Section 2, which gives the ODA form vs Recent Change view cross reference.
- Division 0, Section 3, which gives the Recent Change view vs the ODA form.
- Division 0, Section 4, which gives the Office Record number vs ODA form and Recent Change view.
- In addition, each division has an index at the beginning of the division and sections.

4. ORGANIZATION OF THIS GUIDE

The TG-5 is organized by divisions, sections and subsections. Each division may contain multiple tables of contents within a division. The first is a table of contents of the division (always Section 0), followed by a separate table of contents for the sections within that division, numbered consecutively.

The following paragraphs provide a brief description of each of the divisions.

4.1 Division 0 - Table of Contents

Division 0 provides the Table of Contents for the TG-5 in addition to cross reference information. It is divided into the following sections:

Section 0 - Table of Contents for all Divisions of the TG-5.

Section 1 - 5ODA Form Name Cross Reference

Section 2 - ODA Forms vs Recent Change Views Cross Reference

Section 3 - Recent Change Views vs ODA Forms Cross Reference

Section 4 - Office Record Number vs ODA Forms / Recent Change Views

4.2 Division 1 - General Information

This division provides an introduction to the 5ESS Switch and the TG-5. It is divided into the following sections:

Section O - Table of Contents for Division 1.

Section 1 - Ordering Information.

This section outlines how to order the TG-5.

Section 2 - Translation Inquiries.

This section explains how to submit questions and comments relating to 5ESS Switch translations and the TG-5. A reproducible copy of the Translation Inquiry (Record 5000) is included in Division 19.

Section 3 - Introduction to the TG-5.

This section covers the function, purpose and arrangement of this guide.

Section 6 - Glossary of Terms.

This section contains an alphabetical listing of terms associated with the 5ESS Switch. Each term is defined within the context of its use in the system. The glossary includes terms associated with 5ODA and Recent Change.

Section 7 - 5ESS Switch Office Data Administration (5ODA) User's Guide.

This section provides detailed information on how to use the 5ODA system to input ODD.

Section 8 - Establishing an Office Data File (5001).

This section describes how to set up the identification, accounting and tracking information that is needed to set up the data base for each 5ESS Switch.

Section 9 - 5ODA Batch Load Interface.

This section provides information on how to merge batch data from existing mechanized systems with the appropriate 5ODA data.

Section 10 - Routing and Charging.

This section provides an overview of routing and charging.

Section 11 - 5ECONV User's Manual.

This section describes the process that converts 1ESS Switch and 1A ESS Switch office subscriber data to

5ODA data.

Sections 12 and 13 - Growth and Retrofit Plans

These sections describe the 5ODA off-line large terminal growth and retrofit plans.

4.3 Division 2 - Features

This division provides a high-level description of each translation feature. The explanation is followed by the translation requirements that are necessary to implement the feature.

Section 1 - General Features

Section 2 - Maintenance and Testing Feature Requirements

Section 3 - Operator Services Position Systems Features

Section 4 - Special Features including Secured and Transparency Features

Section 5 - Data Services Features

Section 6 - ISDN PRI (Primary Rate Interface) Features

Section 7 - Equipment Features

Section 8 - Wireless Features

Section 9 - SM-2000 Features

4.4 Division 3 - Translation Administration

This division describes office Records and 5ODA input forms used by the switch owner for general telephone service (i.e., POTS). Division 3 is divided into the following sections:

Section 0 - Index for Division 3.

Section 1 - Line Forms.

Section 2 - Trunk Forms.

Section 3 - Routing and Charging Forms.

Section 4 - Operator Services Position System (OSPS) (5E4(2) and later Software Releases).

Section 5 - Miscellaneous Forms.

Section 6 - Secured Features.

4.5 Division 4 - BRCS (Business and Residence Custom Services)

This division contains instructions for BRCS Office Records and 5ODA input forms (see Division 6 for ISDN BRCS).

4.6 Division 5 - ISDN (Integrated Services Digital Network) Line and Packet Switching

Section 1 - ISDN Lines.

Section 3 - Packet Switching

Section 5 - ISDN Miscellaneous Forms.

4.7 Division 6 - ISDN BRCS

This division contains instructions for the Office Records and 5ODA input forms to build ISDN BRCS features.

4.8 Division 7 - Digital Cellular Switching

This division contains the instructions for the Office Records and 5ODA input forms to build Digital Cellular switching on a 5ESS Switch.

4.9 Division 8 - Engineering Assignments

This division contains instructions for all 5ODA input forms used to install and maintain a 5ESS Switch.

4.10 Division 9 - CCS (Common Channel Signaling)

This division contains information needed to implement CNI (Common Network Interface) translations via Recent Change input views.

4.11 Division 11 - Software Differences

This division provides an overview of the data differences between various combinations of 5ESS Switch Software Releases. The information in this section is intended to be high-level reference to new features in a specific Software Release. The differences are described from an ODA point of view.

4.12 Division 19 - Reproducible Records

This division contains a master copy to reproduce all Office Records available for the 5ESS Switch.

Section 1 contains the alphabetical listing of all Office Records with the record number, form designation and the division and section that provide the instructions for that Office Record.

4.13 Division 20 - Monthly Update Summary of Changes

This division provides a summary of the changes for each monthly update of the TG-5.

SEC. 6: GLOSSARY OF TERMS

1. GENERAL

This section has been included to assist the user in interpreting words, acronyms, and abbreviations commonly used throughout the Translation Guide.

2. ALPHANUMERIC LISTING OF TERMS

Term	Definition
2500 SET	A non-ADSI (Analog Service Display Interface) compatible analog telephone set, capable of manually signaling a flash and signaling DTMF (Dual Tone Multifrequency) digits. It is a standard analog residential set. It may have the ability to display the name and/or number of the calling party in the on-hook mode, but does not have the ability to display the name and/or number of the calling party in the off-hook mode.
5ECONV	5ECONV is a system that provides a mechanized process to convert 1A ESS Switch and 1ESS Switch office subscriber data to the appropriate 5ODA input.
ADSI SET	An analog telephone set capable of recognizing the CAS (CPE (Customer Premise Equipment) Altering Signal) which is a special dual tone. Reception of a CAS signal activates a program in the set's firmware which provides a multi-page menu of call management options that the subscriber may use at various states of the call. The subscriber chooses the action desired via soft keys assigned to the displayed options. The action associated with the soft keys changes as the menu page changes. The ADSI set is also capable of displaying the name and/or number of the calling party.
ALTERNATE ROUTING	Available for each PSAP, Alternate Routing is used to route calls to a predesignated location for a traffic busy PSAP, a PSAP on night duty or a PSAP experiencing a power failure.
ANALOG INTERFACE UNIT (AIU)	Any of the various Interface units interfacing analog facilities. These include the Line Unit (LU), and the Trunk Unit (TU).
AUTOMATIC IDENTIFIED OUTWARD DIALING (AIOD)	A trunk group that connects a Centrex-CU to a switching machine to identify outward dialed calls by the line number of the originating station.
AUTOMATIC LINE INSULATION TEST (ALIT)	An automatic test system which checks for foreign EMF and leakage on a customer loop.
AUTOMATIC MESSAGE ACCOUNTING RECORDING CENTER (AMARC)	A centralized system which keeps a record of all billing and Automatic Message Accounting messages for ESS offices.
BUSINESS AND RESIDENCE CUSTOM SERVICES (BRCS)	BRCS are a large set of business and residence service features that are typically called "centrex". BRCS allows substantial flexibility in the way the features are constructed. BRCS feature packages can be preconstructed, customized, or clustered.
CAC	Carrier Access Code is the 5-digit prefix 10XXX where XXX is the 3-digit CIC (Carrier Identification Code). A new CIC expansion feature was introduced in 5E9(1) that increased the CAC to 7-digit prefix (i.e. 101XXXX) with 4-digit carrier codes.
CAMA PSAP	A PSAP that has CPE (Customer Premises Equipment) which can provide the attendant with the caller's ANI via CAMA-like signaling. The CAMA PSAP allows the attendant to use Enhanced 911 features such as Selective Transfer.
CAMA-LIKE SIGNALING	Analog trunks with MF signaling using CAMA ANI format. This is the signaling used between the E911 serving office and a CAMA PSAP. This signaling is one-way, from the 5ESS Switch to the CAMA PSAP.
CAMA SIGNALING	Centralized Automatic Message Accounting Signaling. A signaling scheme normally used to transmit ANI (Automatic Number Identification) information from a local switch not equipped for AMA recording to another switch capable of AMA recording. This type of signaling is commonly used between the end office and the E911 tandem office, although CCS7-ISUP trunks and direct seizure trunks may also

	be used. CAMA signaling has been adapted for E911 use to forward the caller's directory number to the PSAP.
CAS	CAS (CPE Alerting Signal) is a dual tone sent to the ADSI CPE to "wake it up" that an ADSI call is coming in. Currently implemented by CIDCW (Calling Identity Delivery With Call Waiting) and also used with CWD (call Waiting Deluxe).
CENTRALIZED AUTOMATIC MESSAGE ACCOUNTING (CAMA)	A trunk group which carries customer dialed 7- or 10- digit toll calls to Centralized Automatic Message Accounting equipment where recording and timing of a connection are done automatically in addition to the switching function.
CENTRALIZED AUTOMATIC REPORTING ON TRUNKS (CAROT)	CAROT is a minicomputer based system that controls transmission and operational trunk tests for all exchanges in a particular area that are equipped with compatible Remote Office Test Lines (ROTL) and responders.
CENTRAL PROCESSOR (CP)	The Centralized processor of 5ESS which performs the part of call processing, administration, and maintenance which cannot be economically distributed to the Switching Modules.
COMMON CHANNEL INTEROFFICE SIGNALING (CCIS)	An interoffice signaling scheme in which address and supervision signaling for trunks is carried over a data network rather than over the associated trunk facility.
DATA BASE MANAGER (DBM)	A software subsystem which is responsible for the access and updating of all translation data.
DEFAULT ROUTING	Automatically routes a 911 call to a predesignated PSAP when the primary PSAP cannot be determined. The 5ESS Switch uses this data for non-ESA routing.
DIRECT SEIZURE TRUNK	A trunk which does not send dialed digits to the E911 serving office. ANI may or may not be received after the trunk is seized at the incoming end. Also called a Direct Connect Trunk.
DIGITAL FACILITY INTERFACE (DFI)	Circuitry in a Digital Line/Trunk Unit that terminates a single Digital Facility.
DIGITAL LINE/TRUNK UNIT (DLTU)	The equipment unit which interfaces digital (T1) trunks and digital loop carrier/concentrator systems.
DIGITAL SERVICE UNIT (DSU)	The equipment unit which performs the functions of Tone Decoding, Tone Generation, conferencing, and certain AC tests.
DIGROUP	The 24 channels in a digital carrier system.
DIRECTLY CONNECTED TEST UNIT (DCTU)	This unit is accessible by every Line and Trunk Unit and provides a number of facility tests which require metallic access to lines and trunks.
DUAL LINK INTERFACE (DLI)	The DLI provides a two-way interface between each switching module and the Time Multiplexed Switch.
ENGINEERING AND ADMINISTRATIVE DATA ACQUISITION SYSTEM (EADAS)	A traffic data collection system which provides the interface between an ESS office and the Total Network Data System.
ESA	E911 Service Adjunct. A processor, attached to the switch via a DSL link, that provides ANI to ESN translation for E911 Service.
ESN	Emergency Service Number. The emergency service number is a number that defines the set of emergency services, e.g., police, fire, hospital, within a particular district or zone.
ESCO	Emergency Service Central Office. A number to identify the originating office or calling area of the 911 caller. An ESCO may be assigned to trunk groups and to the dialing plans for local lines. It translates to a selective routing indicator, a default ESN, and an NPD.
FEATURE CONTROL (FC)	A software subsystem which sequences call processing actions at a hardware independent level.
FEDERAL CARD	A calling card issued to FTS 2000 customers.
FIXED TRANSFER	Allows a PSAP attendant to transfer a 911 call to a particular PSAP location by operating one key.
FOREIGN EXCHANGE LINES (FX)	Special customer-access lines permitting a phone physically located in an area served by one Central Office to have a Telephone Number that includes a different Central Office Code.
FTS ROUTING NUMBER	The number returned in the CAS card validation reply message and matches an OSPS internally stored FTS routing number. This number is used to route calls to the FTS private network.
GATED DIODE CROSSPOINT (GDX)	An analog crosspoint capable of withstanding the high voltage signals present on customer lines.
GSM	Global SMs are those SM/SM-2000 equipped with a SS7 PSU and terminating SS7

	signaling links . A VCDX only sm-2k, or up to 16 SM/SM-2Ks may be GSMs.
HIGH LEVEL SERVICE CIRCUIT (HLSC)	A generalized service circuit in the Line Units used to perform ringing and coin control functions.
HUNT-BUSY	A condition where the switch will not offer a call to a particular hunt terminal because the terminal is a busy, a switch-maintained limit on that terminal's capacity for handling calls would be exceeded, or the terminal is deemed unavailable for hunting even though the ISDN interface serving the hunt terminal may not be busy.
IC	Inter-LATA Carrier handles Inter-LATA calls dialed via the North American Numbering Plan, and may be allowed to handle Intra-LATA toll calls through the Intra-LATA PIC capability, or Intra-LATA local calls dialed with a CAC.
ICLATA	Inter-LATA Carrier's Intra-LATA Capability, also same as Intra-LATA PIC.
INPUT/OUTPUT PROCESSOR (IOP)	Provides interfaces to CRT, to hard copy printers, to magnetic tape drives, and a Master Control Center.
INTEGRATED SERVICES DIGITAL NETWORK (ISDN)	ISDN service gives the capability of switching both voice and data over the same line.
INTRA-LATA LOCAL CALLS	All Intra-LATA calls that are not defined to be Intra-LATA PIC/Intra-LATA Toll calls are referred to as Intra-LATA Local calls. These calls are carried by the LEC unless dialed with a CAC (Carrier Access Code) for an IC (Inter-LATA Carrier) with approval to carry Intra-LATA calls.
INTRA-LATA PIC	Inter-LATA Carrier's Intra-LATA Capability. Also, used synonymously with ICLATA and Intra-LATA toll.
INTRA-LATA PIC/Intra-LATA TOLL/TOLL Calls	Intra-LATA PIC or Intra-LATA Toll Calls are any Intra-LATA calls which are open to competition. Usually such calls are inter-switch and are not defined by the tariff as a Local Calling Area call or an EAS (Extended Area Service) call. The LEC defines which calls are Intra-LATA PIC/Intra-LATA Toll calls.
LATA	Local Access and Transport Area is a defined non-overlapping geographical area where an EAEO (Equal Access End Office) and/or AT (Access Tandem) can provide a carrier access to the local exchange.
LEC	Local Exchange Carrier, the Local Telephone Company that owns the switch, provides the local loop, and serves as the default carrier for Intra-LATA calls.
LINE UNIT (LU)	The part of the Switching Module which provides terminations for lines that are concentrated onto 64 Time Slots.
MAIN DISTRIBUTING FRAME (MDF)	A connection system that interfaces cable pairs and switching equipment.
MANUAL DIAL TRANSFER	Allows the PSAP attendant to manually dial the directory number of the destination.
MASTER CONTROL CENTER (MCC)	Provides the human-machine control interface for the 5ESS. It consists of a video display terminal with keyboard telephone set. The Trunk and Line Work Station is also part of the MCC.
MESSAGE SWITCH (MSGs)	The unit that provides for the transfer of call processing and administrative messages between the Switching Modules and the administrative processor, and between any two Switching Modules. The MSGS also contains the Message Switching and Clock Unit.
METALLIC SERVICE UNIT (MSU)	Provides metallic access, miscellaneous scanning and distributing functions, ALIT capabilities, and Gated Gated Diode Crosspoint composition in 5ESS.
MH	The MH (Message Handler) resides in an SM-2000 and provides for message transfer between an SM-2000 and the QLPS hardware.
MODULE CONTROLLER (MC)	An equipment grouping common to all Switching Modules. It consists of the Module Processor, the Signal Processor, the Time Slot Interchanger, and the Control Interface.
MODULE PROCESSOR (MP)	Part of the Module Controller, it consists of a microprocessor and its associated memory.
NCT	An NCT (Network Control and Timing) link has 256 time slots and runs at a rate of 32.768 Mb/s. The number of NCT links required can vary from two to four in groups of two (00 - 03).
NCT2	An NCT2 link has 512 time slots and runs at a rate of 65.536 Mb/s. The number of NCT2 links required can vary from two to twenty-four in groups of two (00 - 23).
NETWORK CONTROL AND TIMING (NCT) LINK	Connects an Switching Module to the Time Multiplexed Switch, provides Time Slot paths for network connections, carries a control Time Slot to the modules, and distributes timing to the module.

NLI	The NLI (Network Link Interface) manages the interfaces between an SM-2000 and the NCT2 links. They are optionally equipped in groups of two, from two to eight for Release 1. Each NLI provides for one NCT2 link connection.
NON-HUNT DN	A telephone number for a specific terminal within the hunt group. If a user calls the non-hunt DN, hunting is bypassed, and the call is offered only to the called terminal.
NPD	Numbering Plan Digit. First digit of ANI outpulsed to a CAMA PSAP; it represents the originating NPA of the call.
OFFICE DATA ADMINISTRATION (5ODA)	A Lucent Technologies program that builds the 5ESS Office Data Base.
ONTC	Office Network and Timing Complex, also known as the TMS.
OPERATIONAL SUPPORT SYSTEM (OSS)	Common support systems outside an ESS office developed by the BELL SYSTEM to assist the Operating Companies (e.g., AMARC, COSMOS, RMAS).
OPERATIONAL TEST	The ability to test the signaling capabilities of a trunk.
OPERATOR SERVICES POSITION SYSTEM (OSPS)	OSPS is a feature of the 5ESS Switch that provides operator services, such as, Directory Assistance (DA) and Toll and Assistance (T&A).
ORIGINATING CMC CALL/RECORD	A CMC Originating call is one that originates in or is received by the LEC network and is routed TO a CMC. CMC AMA records are made in the switch directly connected to the CMC Type 2A or Type 2B interface. Such CMC AMA records are called "Originating CMC" records but have Structure Codes (653/654) commonly associated with "Terminating IC" calls. This definition is based on Bellcore requirements GR-1504-CORE.
ORIGINATING WSP CALL/RECORD	A WSP originating call is one that originates in or is received by the LEC network and is routed to a WSP. WSP AMA records are in the switch directly connected to the WSP Type 1 interface. Such WSP AMA records are called "Originating WSP" records but have a Structure Code (653) commonly associated with "Terminating IC" calls.
PERIPHERAL CONTROL (PC)	A software subsystem which manages and controls the switching peripherals.
PERIPHERAL INTERFACE CONTROL BUS (PICB)	A duplex set of wires carrying control between the Module Controller and a Peripheral Unit of an Interface Module.
PERIPHERAL INTERFACE DATA BUS (PIDB)	A duplex set of wires carrying 32 time slots of data between the Module Controller and a Peripheral Unit of an Switching Module.
PIC	Presubscribed Inter-LATA Carrier, an IC which handles Inter-LATA calls dialed without a CAC. A PIC can be associated with a line and IDP (Individualized Dialing Plan) group or with the entire office.
PIPE	A pipe is a high bandwidth path for message transport between a QLPS QTMSLINK and a given QLPS endpoint (an MH in an SM-2000). It is a physical path capable of sustaining HDLC traffic from the QLPS, through the TMS, the NLI, the TSI and the APC, to the MH.
PSAP	Public Safety Answering Point. Location, or equipment at the location, where emergency attendants receive "911" call.
PTC	Presubscribed Intra-LATA Toll Carrier, an IC (or LEC) which handles Intra-LATA toll calls dialed without a CAC. A PTC can be associated with a line and IDP (Individualized Dialing Plan) group (CENTREX) or with the entire office.
QGL	
QGP	The QGP is an MSGS (Message Switch) subdevice that provides for message transport between the MSCU (Message Switch Control Unit) and QLPS hardware. None, one, or two QGPs may be equipped per MSGS, depending on office traffic characteristics.
QLI2	The QLI2 (Quad-Link Interface Model 2) circuit pack plugs into the CM2 (Communications Module Model 2) and provides the NCT2 interface between the CM2 and SM-2000. QLI2s plug into any existing QLI slot in the TMS except for the FLI (Foundation Link Interface) slot. CM2s equipped with QLI2s support both Single Fabric and Dual Fabric configurations.
QTMSLNK	A port connection on the QLPS board of the TMS. Each QLPS board has four QTMSLNKs.
REMOTE MEMORY ADMINISTRATION SYSTEM (RMAS)	RMAS is a multimicroprocessor system that increases the efficiency of centralized data base administration for all types of ESS's. It significantly reduces the time required to enter Recent Changes and to retrieve data, automates the production of

	office records, and provides reports that assist in managing both the data base and the personnel performing this work.
REMOTE SWITCHING MODULE (RSM)	Provides the capability of having a 5ESS Switching Module remotely located from the host 5ESS and its Administrative Module, and extends the ESS features and services to a remote group of customers outside the normal area of the 5ESS Central Office.
ROLLOVER FIELD	A data item on a form may be specified as a "Rollover" field, that is, whatever value was entered in the field on the previous form will be automatically repeated on all subsequent forms.
RSM STAND-ALONE CALL PROCESSING (SA)	Provides the capability for an RSM to continue limited call processing while in the Stand-Alone state.
SECURED FEATURES	The optional service features that require enabling the feature before it is operational.
SECURED FEATURE ADMINISTRATOR (SFA)	The person designated by the operating telephone company to perform the enabling of secured features.
SELECTIVE ROUTING	An E911 feature that selectively routes a 911 call to the primary PSAP associated with the originating station.
SELECTIVE TRANSFER	Allows a PSAP attendant to transfer a 911 call to the correct secondary PSAP for the caller's emergency service zone. The call is transferred based on the code sent by the PSAP and the telephone number stored in the ESN form.
SIGNAL PROCESSOR (SP)	The circuitry in the Switching Modules that detects signal changes on the channels.
SUBSCRIBER LOOP CARRIER - 96 (SLC-96)	The SLC System is a digital loop carrier pair gain system designed as a supplement or replacement for cable, and serves up to 96 subscribers at the remote site.
SWITCHING CONTROL CENTER SYSTEM (SCCS)	Provides facilities needed for efficient centralized maintenance of all types of Stored Program Control Electronic Switching Systems.
SWITCHING MODULE (SM)	The equipment grouping which provides line and trunk terminations, service circuits call processing functions and Time Division Switching.
TERMINATING CMC CALL/RECORD	A CMC Terminating call is one incoming FROM a CMC Type 2A or Type 2B interface, for completion in or via the LEC network. Such CMC AMA records are called "Terminating CMC" records but have Structure Codes (626/627) commonly associated with "Originating IC" calls. This definition is based on Bellcore requirements GR-1504-CORE.
TERMINATING WSP CALL/RECORD	A WSP Terminating call is one incoming from a WSP Type 1, for completion in or via the LEC network. Such WSP AMA records are called "Terminating WSP" records but have a Structure Code (625) commonly associated with "Originating IC" calls.
TIME DIVISION NETWORK (TDN)	The central network of the 5ESS. It includes the Time Slot Interchange, network Control and Timing Links, and the Time Multiplexed Switch.
TIME MULTIPLEXED SWITCH (TMS)	The Time Multiplexed Space Switch which connects NCT links together during specified Time Slots.
TIME SLOT (TS)	A unit of time during which a single sample of communication is sent throughout the 5ESS Network.
TIME SLOT INTERCHANGE (TSI)	The circuitry in the Switching Module which multiplexes the peripheral channel data to different Time Slots on the NCT links.
TRANSMISSION TEST FACILITY (TTF)	A service circuit which performs all voice-frequency transmission tests, (e.g., ROTL, 100 series test lines).
TRUNK AND LINE WORK STATION (TLWS)	Provides maintenance Personnel access to lines and an interface administration and supports portable testing equipment such as voltmeters and transmission measuring sets.
TRUNK UNIT (TU) TYPE 1	An analog interface unit which terminates loop and 4-wire trunks.
INTER CONNECTION	Connection to a telephone company end office. It provides connections only to and from terminals served by that end office including lines, private trunks and other WSPs having terminations within the switch itself. These restrictions are provided only through digit analysis data in the switch, since the specific restrictions would be difficult to determine for every case.
TYPE 2A INTER-CONNECTION	Connects to a land based tandem switch, LT (Local Tandem) or AT (Access Tandem). Type 2A interconnections also provide connections to and from

	co-located lines in the tandem, inter-LATA carriers, and other CMCs having terminations within the LATA. This feature does NOT provide AMA billing support for the connections between CMC and a Local Tandem Switch.
TYPE 2B INTER-CONNECTION	Connects to a telephone company end office. It provides connections only to and from terminals served by that end office, including lines, private trunks and other CMCs having terminations within the switch itself.
UNIVERSAL SERVICE ORDER CODE (USOC)	The line class code defined in Office Record 5306, Line Class Code.
WSP	Wireless Service Provider, previously known as a CMS (Cellular Mobile Carrier).

3. ACRONYM DEFINITIONS

Acronym	Definition
12NC	Numeric 12-Digit Product Code
13A	Bubble Memory Recorded Announcement System
1AEB	1A Event Buffer
1PSS	No. 1 Packet Switching System
2B1Q	2 Binary 1 Quaternary
2STPE	No. 2 Signal Transfer Point Emulator
2W	Two-Wire
2W/4W	2 Wire To 4 Wire
2WE&M	2 Wire Ear And Mouth
3B20	Bell Super-Mini Computer
3B20D	3B20 Duplex
3B5	Small System Processor Control Unit
3BCC	3B Processors Central Control
3BCU	3B Control Unit
3BEB	3B Event Buffer
3BI	3B (Computer) Interface
3BPCF	Modified 3B Processor Peripheral Control Frame
3BSCSD	3b Scanner/Signal Distributor
3BTAC	3B Terminal Access Controller
3BTAC	3b Terminal Access Controller
3CL	A Type Of Toll Switch Board
4B3T	4 Binary 3 Ternary
4W	Four Wire
5-FTS	5ESS Field Test Set
5E2	5ESS Switch Second Domestic Generic
5E3	5ESS Switch Third Domestic Generic
5E4	5ESS Switch Fourth Domestic Generic
5E5	5ESS Switch Fifth Domestic Generic
5ESE	5ESS Switch Small Exchange
5SDH	5ESS Switch Subdevice Handler
5SDHMM	5SDH Multimod
5SDHSM	5SDH Small Office
100 TEST LINE	Measures far to near end loss and near end noise.
102 TEST LINE	Measures far to near end loss.
105 TEST LINE	Measures two-way loss and noise.

3.1 A

Acronym	Definition
A&DCU	Alarm And Digroup Control Unit
A&M	Administration And Maintenance
A/D	Analog To Digital Conversion
A/L	A-Law To Linear
AABS-AP	Automated Alternate Billing Services - Automated Position
AAP	Automated Access Prompting
AAS	Application Administration Subsystem
AATLSOS	Alternate Access to Language Specific Operator Services
AATOS	OSPS Alternate Access to Operator Systems
AAU	Alarm Adaptor Unit
AAU	Audible Alarm Unit
AB	Access Barred
AB	Alarm Battery Alarm

ABC	Automatic Bill Calling
ABD	Average Business Day
ABLKD	Abnormally Blocked
ABS	Absent Subscriber Service
ABSBH	Average Busy Season Busy Hour
AC	Action Complete
AC	Alternating Current
AC	Analog Access
AC	Attendant Conference
AC	Audit Control
AC	Authorization Codes
AC	Automatic Callback
ACA	Automatic Circuit Assurance
ACBC	Automatic Callback Calling
ACC	Access Code
ACC	Administrative Control Center (An OSPS Office Head)
ACC	Alarm Conversion Circuit
ACCB	Access Bus
ACCS	Automated Calling Card Service
ACCSQ	Automated Calling Card Sequence
ACCT	Account Code
ACD	Automatic Call Distribution
ACD	Automated Call Directory
ACD	Automatic Call Distributor/Distribution
ACDF	Automatic Call Distribution Features
ACE	Automated Cable Expertise
ACE	Automatic Calling Equipment
ACG	Automatic Call Gapping
ACHI	Application Channel Interface
ACK	Acknowledge
ACL	Alternate Component List
ACM	Address Complete Message
ACM	Apparatus Coded Module
ACMOS	Automatic Customer Message Out-putting System
ACO	Additional Call Offering
ACOF	Attendant Control Of Facilities
ACP	Action Point
ACP	All-Call Privacy
ACP	Advanced Communications Package
ACQS	Automatic Charge Quotation Service
ACRG	Access Code Restriction Group
ACS	Alarm Call Service
ACS	Audible Call Screening
ACS	Automatic Call Simulator
ACSI	Automatic Calling Station Identification (BRCS/ISDN Feature)
ACSR	Automatic Customer Station Rearrangement
ACT	Active
ACT	Alternative Code Treatment
ACTB	All Concentrator Trunks Busy or ATB
ACTR	Automatic Call Type Recognition
ACTS	Automated Coin Toll Service
ACU	Automatic Calling Unit
ACVT	Attendant Control of Voice Terminals
AD	Abbreviated Dialing
ADDR	Address
ADE	Adaptive Design Engineering
ADLM	Advanced Distribution And Location Model
ADM	Adaptive Delta Modulation
ADOB	Alternate Destination On Busy
ADP	Automatic Diagnostic Process
ADPCM	Adaptive Differential Pulse Code Modulation
ADR	Alternate Data RAM
ADS	Architecture Development Specification
ADSI	Analog Service Display Interface
ADU	Audio & Display Unit
AEC	Audit, Edit And Check
AEMIS	ACD-ESS Management Information System
AFR	Automatic Flexible Routing
AGA	Automatic Gain Adjust

AGC	Auto Gain Control
AI	Access Interface
AI	Address Incomplete
AI	Assignment Request Indicator
AIC	Agent Intercom Call
AIC	Automated Initial Calls
AIC	Automatic Intercept Centers
AILS	Automated Inward Line Screening
AIM	Analog Interface Module
AIM	Application Integrity Monitor
AIN	Advanced Intelligent Network
AIOD	Auto Identified Outward Dialing
AIOD	Auto Input/Output Dialing
AIS	Alarm Indication Signal
AIS	Automatic Intercept System
AIU	Analog Interface Unit
AIU	Application Interface Unit
ALCB	Access Line Control Block
ALI	Automatic Location Identification
ALIT	Automatic Line Insulation Testing
ALM	Alarm
ALPX	Administration Of Lines In A Power Cross State
ALT	Automatic Link Transfer
ALU	Analog Line Unit
ALU	Arithmetic Logic Unit
ALV	Automatic Line Verifier
ALW	Allow
AM	Administrative Module
AM	Area Manager
AM-RTA	AM-Regional Technical Assistance
AMA	Automatic Message Accounting
AMAC	Automatic Message Accounting Collection System
AMACS	Automatic Message Accounting Collection System
AMAKP	Automatic Message Accounting Kernel Process
AMARC	Automatic Message Accounting Recording Center
AMARS	Automatic Message Accounting Recording System
AMASE	Automatic Message Accounting Standard Entries
AMAT	AMA Teleprocessing
AMATAN	Automatic Message Accounting Tape Analyzer
AMATP	Automatic Message Accounting Teleprocessing
AMATPS	Automatic Message Accounting Teleprocessing
AMDC	AMA OSDS System Process
AMGR	Audit Manager Program
AMI	Alternate Mark Inversion
AML	Automatic Maintenance Limit
AMLC	Automatic Maintenance Limit Count
AMPS	Advanced Mobile Phone Service (Now AUTOPLEX)
ANC	All Number Calling
ANI	Automatic Number Identification
ANIF	Automatic Number Identification Failure
ANM	Answer Message
AO	Add-On
AO&M	Administration, Operation And Maintenance
AOSTT	Automatic Out-Of-Service Trunk Test Dispatcher
AP	Address Parity
AP	Administrative Printer
AP	Administrative Processor
AP	Applications Processor
AP	Argument Pointer
AP	Attached Processor
AP	Automated Position
APB	Attached Process Block
APC	Adjacent Point Code
APC	Auxiliary Power Card
APDAN	Auxiliary Processor Data Available
APECS	Advanced Programmable Electronic Call Simulator
APF	All PINs Fail
APH	Application Protocol Handler
API	Access Provider Identifier

API	Action Point Identifier
APID	Applications Processor Identification
APLS	Auxiliary Program Library System
APMH	Attached Processor Message Handler
APPRC	5ESS Switch Application Recent Change
APREQ	Auxiliary Processor Request
APS	Apparatus Product Schematic
APS	Attached Processor System
APS	Automated Position System
APSM	Apparatus Product Schematic For Manufacture
APT	Automatic Progression Testing
AQ	Auto Quote
AQTP	Autoquote Terminal Process
AR	Assert Range
AR	Automatic Recall
AR/AC	Auto Recall/Auto Call Back
ARDY	Asynchronous Ready
ARGC	Argument Counter
ARGP	Argument Pointer
ARS	Automatic Route Selection
ARSB	Automated Repair Service Bureaus
ARU	Audio/Audible Response Unit
ARU/TP	Audible Response Unit - Terminal Process
ARUC	Audible Response Unit Controller
AS	Administrative Services Subsystem
AS	Analysis System
AS	Administrative Services
ASB	Assistance Service Board
ASB	Attendant Source Billing
ASC	Alarm Service Unit
ASC	Alarm Status Circuit
ASC	Announcement Storage Circuit
ASCII	American Standard Code For Information Interchange
ASF	Attribute Specification File
ASM	Administrative Status Monitor
ASM	Automated Switching Module = PSM Or SM
ASMDR	Advanced Station Message Detail Recording (Switch)
ASP	Advanced Services Platform
ASP	Alarm Status Panel
ASP	Application Specific Package
ASP	Assignment Source Point
ASP	Auxiliary Services Position
ASAP	Automated Service Access Prompting
ASAP R2	Automated Service Access Prompting Release 2
ASR	Automatic Send And Receive
ASR	Automatic Speech Recognition/Recognizer
ASSDL	Automatic Allocation Of Signaling Data Links
ASSERT	Assert Subsystem (For Making Assertions)
ASST	Assisting
AST	Acknowledge Seizure Timeout
ASW	All Seems Well
AT	Access Tandem
AT	Action Time
AT	Administrative Terminal
ATA	Asynchronous Terminal Adapter
ATB	Address Translation Buffer
ATCAF	Automated Test Calling Facility
ATCO	Automation of TCS/CPS Override
ATD	Attendant Through Dialing
ATD	Automatic Test Dispatcher
ATH	Authorization Code
ATIME	Absolute Time
ATLAS	Automatic Testing And Load Analysis System
ATME	Automatic Transmission Measuring Equipment
ATM	Asynchronous Transfer Mode
ATMS	Automatic Transmission Measuring System
ATOMICS	Advanced Traffic Observation And Management Information Collection System
ATOS	Automated Toll Operator Services
ATP	Access Transport Parameter

ATP	Advanced Telemetry Processor
ATP	Alarm Terminal Process
ATP	All Tests Passed
ATP	Announcement Terminal Process
ATP	Automated Terminal Process
ATP	SS7 Access Transport Parameter
ATS	Automatic Terminal Setup
ATSC	Auto Termination Of Signaling Irregularity Calls
ATT	Attendant
ATTS	Automatic Trunk Test Scheduler
ATTT	Automatic Trunk Test Table
ATU	Analog Trunk Unit
AU	Audit Subsystem
AUDIT	A Sanity Communication Command
AUTISS	Automatic Time Slot Switching
AUTO	Automatic Unit Testing Tool
AUTOVON	Automatic Voice Network
AUTRAX	Automatic Traffic Recording And Analysis Complex
AVGDA	Automatic Voice Charge And Duration Advice
AVD	Alternate Voice/Data
AVRT	Avoidance Routing
AVT	Access Via Tandem
AWT	Average Work Time
AXP	Auxiliary Processor Cabinet
AXPIC	Auxiliary Processor Initialization & Operation Capability
AXPU	Auxiliary Processor Unit

3.2 B

Acronym	Definition
B8ZS	Bitwise 8 Zero Suppression Code
B911	Basic 911 Service
BACH	Basic ACD And Call Handling
BANCS	Bell Administration Network Communication System
BBG	Basic Business Group
BBHC	Billing Busy Hour Capacity
BCAC	Business Customer Administration And Control
BCID	Business Customer Identification Number
BCLID	Bulk Calling Line Identification
BCON	Battery Connect
BCR	Bell Communication Research
BCR	Bus Control Register
BDEVTAB	Block Device Table
BDU	Bus Display Unit
BER	Bit Error Rate
BFOR	Battery Forward
BGB	Bidirectional Gating Bus
BGNEX	Begin Execution
BGR	Buffered Bidirectional Gating Register
BGSP	Background System Process
BHC	Block Hardware Check
BHC	Busy Hour Calls
BIB	Backward Indicator Bit
BIC	Bus Interface Controller
BITS	Basic Interexchange Telephone Service
BL/NA	Busy/No Answer
BLA	Blocking-Acknowledgement
BLDG	Building
BLF	Busy Lamp Field
BLS	Basic Local Service
BLV	Busy Line Verification
BLX.25	Communications Protocol - See X.25
BMF	Backup Management Facility
BMI	Batch Mode Immediate (RC)
BMR	Batch Mode Release
BND	Billing Number Delivery
BNS	Billed Number Screening
BOC	Bell Operating Companies

BOC	Build-Out Capacitor
BOS	Bit-Oriented Signaling
BOS	Business Office Supervisor
BOSS/PT	Business Office Support System/Programmers Terminal
BPIDB	Bypass Peripheral Interface Data Bus
BPS	Bits Per Second
BPSS	Basic Packet Switching Service
BPT	Breakpoint Trap
BQPN	Block Queries for Private Numbers
BRCS	Business And Residential Customer Services
BRCSDb	BRCS Data Block
BREV	Battery Reverse
BRG	Bridge/Bridging
BRI	Basic Rate Interface
BRIV	Basic Rate Interface Verification
BSC	Business Services Center
BSI	Bearer Service Identification
BSN	Backward Sequence Number
BST	Basic Services Terminal
BT	Buffer Threshold
BTSR	Bootstrapper Board
BUCP	Backup Control Process
BUD	Back Update Database
BUF	Buffer
BVA	Billing Validation Application
BVF	Billing Validation File
BWM	Broadcast Warning Message
BX.25	A CCITT Communications Protocol - See X.25
BY	Busy

3.3 C

Acronym	Definition
C	Connect
C&D	Control And Display
C&FC	Coin & Fee Check
C/D	Control Display
C/E	Cause And Effect
CA	Cache Address Bus
CA	Call Accepted
CA	Call Appearance
CA	Circuit Administrator
CA	Community Address
CA	Connect Acknowledge
CA	Coverage Analyzer
CAC	Cache Controller
CAC	Carrier Access Code
CAC	Common Administrative Capability
CAC	Country Access Code
CAC	Customer Administration and Control
CACS	Customer Administration Center System
CAD	Computer Aided Design
CADN	Circuit Administration
CADV	Combined Alternate Data Voice
CAG	Centralized Administrative Group
CAI	Call Assembly Index
CAI	Computer Aided Instruction
CAI-ICOM	Call Appearance Intercom
CACH EKTS CA	Call Appearance
CALL	Computer Assisted Lesson Library
CAM	Cache Memory
CAM	Computer Aided Manufacturing
CAMA	Centralized Automatic Message Accounting
CAN	Cancel
CAP	Capability
CAP	Communications Audit Process
CAP	Competitive Access Provider
CAPFIT	CAPacity Fit

CAPFORMS	Capability Forms System
CAPMGR	Capability Manager
CAR	Customer Access Restriction
CAROT	Centralized Automatic Reporting On Trunks
CAS	CPE Alerting Signal
CAS	Customer Account Services
CAS NCP	Customer Account Services Network Control Point
CATL	Code Answer Test Line
CATLAS	Centralized Automatic Trouble Location And Analysis System
CATP	Conditional All Tests Pass
CB	Change Back
CB	Control Block
CB	Control Bus
CC	Call Completion
CC	Call Connected
CC	Call Coordinator
CC	Common Control
CC	Central/Common Control
CC	Common Channel Signaling
CC	Conference Circuit
CC	Control Console
CC	Country Code
CC	Common Control
CCA	CMOS Cell Array
CCA	Code Coverage Analyzer
CCB	Channel Control Block
CCB	Communications Control Buffer
CCBCOM	Channel Control Block Communication Region
CCC	Custom Calling Coordinator
CCCA	Central Coordinator Circuit Administration
CCD	Common Capabilities Document
CCF	Call Confirmation Message
CCF	Corporate Component File
CCI	Call Characteristic Index
CCJ	Computer Consoles Incorporated
CCIF	Call Coordinator Interflow
CCIOB	Central Control Input Output Bus
CCIS	Common Channel Interoffice Signaling
CCIS6	Common Channel Signaling System No. 6 Domestic
CCISPCH	CCIS PC Handler
CCITS	Common Control Integrated Test System
CCITT	International Telegraph And Telephone Consultative Committee
CCITT6	CCITT Common Channel Signaling System Number 6
CCITT7	CCITT Common Channel Signaling System Number 7
CCITT7-PSIU	PSIU Containing The CCITT7 Signaling Terminals
CCITT7-SM	SM Containing The CCITT7-PSIU
CCM	Call Connect Message
CCM	Call Control Modules
CCMA	Common Channel Maintenance Administration
CCOP	Call Coordinator - Operator
CCOT	Call Coordinator - Originating Treatment
CCPUMP	Business And Residential Custom Services
CCQS	Centralized Charge Quotation Service
CCRD	Calling Card
CCS	Centrum Call Seconds
CCS	Common Channel Signaling
CCS	Common Communication Subsystem
CCS	Hundred Call Seconds
CCS7	Common Channel Signaling, CCITT Version 7
CCSA	Common Control Switching Arrangement
CCTT	Call Coordinator - Terminating Treatment
CCU	Combined Channel Unit
CCV	Call Charge Verification
CCW	Cancel Call Waiting
CD	Cache Data Bus
CD	Charge Delay
CD	Circuit Description Document
CD	Common Data
CD	Common Data Pack (Of The ISLU)

CD	Control Distribution Frame
CDA	Call Data Accumulator
CDA	Carrier Detect (RS-232)
CDA	Charge And Duration Advice
CDA	Configuration Status Audit
CDAC	Control & Diagnostic Access Circuit
CDAL	Control And Diagnostic Access Link
CDAR	Customer Dialed Account Recording
CDB	Circuit Data Block
CDBCOM	Circuit Data Block Communication Region
CDC	Call Directing Code
CDC	Central Data Collection
CDC	Control Distributor Controller
CDC	Control/Data Circuit
CDC	Country Destination Code
CDCU	Control Distribution Controller Unit
CDEVTAB	Block Device Table
CDF	Common Design File
CDI	Code Index
CDI	Control And Data Interface
CDL	Call Distribution/Description Language
CDIM	Carrier Destination Mapping
CDMA	Code Division Multiple Access
CDMPU	Control Distribution Message Processor Unit
CDNCU	Control Distribution Network Clock
CDO	Community Dial Office
CDOS	Customer-Dialed Operator-Serviced
CDP	Custom Dialing Plan
CDPR	Customer Dial Pulse Receiver
CDR	Call Detail Record
CDR	Channel Data Register
CDSDREAD	A Command To Read Data From An FPC Subdevice
CDSDWRITE	A Command To Send Data To An FPC Subdevice
CDT	Communications Display Terminal
CDT	Communications Display Terminal/Trunk
CDX	Compact Digital Exchange
CE	Cause-Effect
CENTREX	Central Office PBX
CERDIP	Ceramic Dual In Line Package
CF	Call Forwarding
CF	Coin First
CF	Control Fanout
CF	Control Frame
CFA	
CFA	Carrier Failure Alarm
CFB	Call Forwarding Busy
CFBL	Call Forwarding Busy Line
CFDA	Call Forwarding Don't Answer
CFDA/CW	Call Forwarding Don't Answer after Call Waiting
CFE	Central Firmware File
CFH	Call Failure Handling
CFN	Call Forwarding Because No Answer
CFNS	Call Forwarding Night Service
CFPF	Call Forwarding Over Private Facilities
CFR	Centralized Flexible Rating
CFR	Coin Flexible Rate
CFUS	Call Forwarding Unrestricted Source
CFV	Call Forwarding Variable
CG	Concentrator Group
CGA	Carrier Group Alarm
CGID	Calling Party Identification
CgPS	Calling Party Subaddress
CH	Call Hold
CH	Core Hardware
CHAN	Channel
CHANNEL	Peripheral-Side TSI Time Slot
CHCKT	Channel Circuit
CHCT	Channel Circuit
CHD	Call Hold

CHDB	Channel Data Block
CHILL	CCITT High Level language
CI	Call Identify
CI	Carrier Interconnect
CI	Control Interface
CI	Craft Interface
CI	Critical Information
CIA	Critical Indicator Administrator
CIB	Centralized Intercept Bureau
CIB	Control Interface Bus
CIC	Carrier Identification Code
CIC	Circuit Identification Code
CIC	Controller Interface Circuit
CIC	Customer Information Center
CID	Call Identifier
CID	Conditionally Initializable Data
CIDB	Control Interface Data Bus
CIDCW	Calling Identity Delivery on Call Waiting
CIID	Customer Identification Card
CIM	Clear Indication Message
CIM	Cluster Interface Module
CIMA	Computer Integrated Manufacturing Architecture
CINT	Command Interrupt
CIP	Carrier Identification Parameter
CIP	Critical Indicator Panel
CIR	Customer Information Release
CK	Check Bits
CK	Conflicting Key
CKT	Circuit
CKTDATA	Circuit Data Audit
CL	Communication Line
CLC	Clear Confirmation
CLCI	Common Language Trunk Identifier
CLEI	Common Language Equipment Identification
CLFR	Communication Link Fault Recovery
CLI	Called/Calling Line Identification
CLI	Circuit Level Indicator
CLI	Clear Indication
CLK-CNT	Clock-Control
CLLI	Common Language Location Identifier
CLM	Communication Link Monitor
CLM	Core Linkage Module
CLMP	Communication Link Maintenance Process
CLR	Clear
CLR	Clear Request
CLRC	Circuit Layout Record Card
CLRER	Clear Channel Error
CLRT	Control Link Receiver/Transmitter
CLV	Calling Line Verification
CLWC	Cancel Leave Word Calling
CM	Communication Module
CM	Communication Package Subsystem
CM	Coverage Monitor
CM	Interprocessor Communication System
CM1	Communications Module 1
CM2	Communications Module 2
CMAC	Centralized Machine Administration Center
CMC	Cellular Mobile Carrier
CMD	Command
CMDF	Combined Main Distributing Frame
CMDR	Centralized Message Detail Recorder
CMGA	Craft Message Generator Analyzer
CMI	Control Mode Idle
CMISE	Common Management Information Service Element
CMKP	Communications Kernel Process
CMOC	Centralized Maintenance and Operation Center
CMON	Craft Interface Integrity Monitor
CMOS	Complementary Metal Oxide Semiconductor
CMP	Communication Module Processor

CMS	Circuit Maintenance System
CMSP	Central Manager System Process
CMSS	Customer Message Service System
CN	Change Notice
CN	Charge Number
CN	Conference Notes
CN	Control And Network Frame
CN	Customer Networking
CNA	Customer Name And Address Records
CNAC	CCIS Network Administration Center
CNAM	Calling Party Name
CNCC	Customer Network Control Center
CND	Calling Number Delivery
CNDTF	Coin Dial Tone First
CNGI	Calling Number Identification Services Intragroup Delivery Only
CNGI	CNIS Intra-group Only Delivery
CNI	Change Number Intercept
CNI	Common Network Interface
CNI/IMS	Common Network Interface/Interprocess Message Switch
CNIGI	Calling Number Intragroup ICLID
CNIGI	CNIS Intra-Group Delivery Option
CNIS	ISDN Calling Number Identification Services
CO	Central Office
CO	Change Order
CO	Change Over
CO	Cutover
COAN	Common Operator Access To Network
COC	Class Of Charge
COCOTS	Customer Owned, Coin Operated Telephones
CODEC	Coder-Decoder
COEES	Central Office Equipment Estimation System
COER	Central Office Equipment Report
COFF	Common Object File Format
COH	Consultation Hold
COM	Computer Output Microfilming
COMCNTRL	Common Control
COMDAC	Common Data And Control Circuit
COMDATA	Common Data
COMIC	Community Interface Control
CON	Congestion
CONC	Concentrator
CONCSCAN	Concentrator And Scanner Circuit
CONF	Conference
CONFIG	Configuration Control
CONT	Controller
COP	Common Optional Package
CORC	Customer Originated Recent Change
COS	Class Of Service
COSMOS	Computer System For Main Frame Operations
COT	Central Office Technician
COT	Central Office Terminal
COT	Common Optical Termination
COT	Customer Originated Trace
COV	Changeover Signal
COWG	Central Office Work Group
CP	Call Processing
CP	Central Processor
CP	Circuit Pack
CP-REXS	Central Processor Routine Exercise Scheduler
CPA	Commercial Power Alarm
CPB	Controller Peripheral Bus
CPBP	Central Processor Backup Process
CPC	Card Protection Center
CPC	Circuit Provisioning Center
CPD	Central Pulse Distributor
CPD	Circuit Pack Design
CPDL	Call Processing Data Link
CPE	Customer Premises Equipment
CPH	Calls Per Hour

CPH	Communication Protocol Handler
CPI	Central Processor Intervention
CPID	Linecard Register Containing Circuit Pack Identifier
CPLR	Coupler Data Block
CPN	Calling Party Number
CPN/BN	Calling Party Number/Billing Number
CPNP	Calling Party Number Presentation
CPOS	Call Processing Operating System
CPPCBLA	Central Processor Process Control Block Link Area
CPS	Circuit Pack Schematic
CPS	Country Pair Screening
CPS	Customer Premises Systems
CPSM	Circuit Pack Schematic For Manufacture
CPT	Controlled Product Test
CPTR	Circuit Pack Test Requirements
CPU	Call Pickup
CQB	Circuit Queuing Blocks
CR	Call Record
CR	Call Record Assembler
CR	Call Request
CR	Critical Alarm
CRA	Call Record Assembler
CRA	Call Record Assembler
CRC	Cyclic Redundancy Check/Code
CREG	Concentrated Range Extension With Gain
CRI	Circuit Revision Instruction (Teletype)
CRLU	Cost Reduced Line Unit
CRM	Circuit Reservation Message
CRM	Clear Request Message
CRM	Commands And Reports Manual
CRO	Cancel Rerouted Overflow
CRR	Centralized Rate And Route
CRR	Controlled Rerouting
CRS	Centralized Results System
CRSAB	Centralized Repair Service Attendant Bureau
CRT	Cathode Ray Terminal
CRTSI	Cost Reduced Time Slot Interchanger
CRTX	Common Real Time Executive Operating System
CRUCC	Cost Reduced Universal Conference Circuit
CRUTD	Cost Reduced Universal Tone Decoder
CRUTG	Cost Reduced Universal Tone Generator
CRV	Call Reference Value
CS	Call Sent
CS	Call Store
CS	Cell Site
CSA	Carrier Serving Area
CSA	Configuration Status Audit
CSADB	Centralized Service Assessment Display Board
CSAR	Centralized System For Analysis And Reporting
CSC	Customer Service Center
CSD	Circuit Switch Data
CSD LIMIT	Call Reference Busy Limit
CSD NBLIMIT	Call Notification Busy Limit
CSDC	Circuit Switched Digital Capability
CSE	Carrier Selection Enforcement
CSINT	Concentrator And Scanner Interface Circuitry
CSMDRS	Centralized Station Message Detail Recording System
CSO	Central Services Organization
CSOP	Complex Service Order Process
CSOP	Coordinator Of Spooler Output Processes
CSP	Control Switching Point
CSP	Controller Subordinate Process
CSPDN	Circuit Switched Public Data Network
CSR	Customer Station Rearrangements
CSRID	Customer Station Rearrangement Identification
CSS	Centralized Special Services
CSS	Computer Subsystem
CST	Central Standard Time
CST	Combined Services Terminal

CSU	Cache Store Unit
CSU	Combined Service Unit
CSU	Channel Service Unit
CSV	Circuit Switched Voice
CSV LIMIT	Call Reference Busy Limit
CSV NBLIMIT	Call Notification Busy Limit
CT	Call Type
CT	Central Trunk Test Unit
CT	Congestion Tone
CTA	Call Transfer Attendant
CTIAC	Call Transfer Individual All Calls
CTIIO	Call Transfer Individual Incoming Only
CTIO	Call Transfer Internal Only
CTS	Common Test System
CTS	Control Time Slot
CTSP	Control Time Slot Pump Process
CTTU	Centralized Trunk Test Unit
CTTU/RTTU	Centralized Trunk Test Unit/Remote Trunk Test Unit
CTU	Cell Translation Update
CTX	CENTREX
CU	Control Unit
CU	Converter Unit
CU/TK	Common Update/Trunking
CUD	Central Update Database
CUP	Control Unit Power
CUP	Customer Programmability
CUT	Circuit Under Test
CVT	Circuit Validation Test
CW	Call Waiting
CWI	Call Waiting Indication
CWC1	Call Waiting with Cancel 1
CWC1DT1	Call Waiting with Cancel 1 with Distinctive Tone 1
CWC1DT2	Call Waiting with Cancel 1 with Distinctive Tone 2
CWC2	Call Waiting with Cancel 2
CWC2DT	Call Waiting with Cancel 2 with Distinctive Tone
CWD	Call Waiting Deluxe
CWDC1	Call Waiting Deluxe with Cancel 1
CWDC2	Call Waiting Deluxe with Cancel 2
CWDC2DT	Call Waiting Deluxe with Cancel 2 with Distinctive Tones
CWDCDT1	Call Waiting Deluxe with Cancel 1 with Distinctive Tone 1
CWDCDT2	Call Waiting Deluxe with Cancel 1 with Distinctive Tone 2
CWDIO	Call Waiting Deluxe Incoming Only
CWDIODT	Call Waiting Deluxe Incoming Only with Distinctive Tones
CWDT	Call Waiting Deluxe Terminating
CWDTDT1	Call Waiting Deluxe Terminating with Distinctive Tone 1
CWDTDT2	Call Waiting Deluxe Terminating with Distinctive Tone 2
CWIO	Call Waiting Incoming Only
CWIODT	Call Waiting Incoming Only with Distinctive Tones
CWL	Call Waiting Lamps
CWO	Camp-on (BRCS Feature)
CWO	Call Waiting Originating
CWT	Call Waiting Terminating
CWTD1	Call Waiting Terminating with Distinctive Tone 1
CWTD2	Call Waiting Terminating with Distinctive Tone 2
CWTFD	Call Waiting Feature Definition
CXR	Carrier

3.4 D

Acronym	Definition
D	Disconnect
D+AR	Data Rate And Adaptation Method
D/A	Digital To Analog Conversion
D/A	Digital/Analog
D2SBS	Duplex Dual Serial Bus Selector
D4	A Type Of Channel Bank
DA	Data
DA	Destination Address

DA	Digit Analysis
DA	Directory Assistance
DA	Dynamic Access Subsystem
DAA	Direct Agent Access
DAA	Design Automation Assistant
DAB	Directory Assistance Bureau
DAC	Directory Assistance - Charging
DACS	Digital Access And Cross Connect System
DACS IV-2000	Digital Access and Cross Connect System IV-2000
DACTSR	Data, Control And Service Circuitry
DACU	Device Attachment Control Unit
DALB	D Channel Application Linkage Block
DAM	Data Access Model
DAM	Dual Access Memory
DAP	Display Administration Process
DARAM	Dual Access Random Access Memory
DART	Debugger For A Remote Target
DAS	Data Auxiliary Set
DAS	
DASC	Directory Assistance System Computer
DASS	Digital Access Signaling System
DATA	DATA Subsystem
DB	Database Subsystem
DB	Decibel
DB	Display Buffer
DBA	Data Base Administrator
DBAS	Data Base Administration System
DBM	Data Base Manager
DBMS	Data Base Management System
DBS	Duplex Bus Selector
DBTG	Data Base Task Group
DBU	Dial Backup Unit
DC	Device Control (Set Of IA5 Characters)
DC	Direct Current
DC	Directly Connected Test Unit
DC	Do Not Care
DCA	Dynamic Channel Assignment
DCB	Device/Diagnostic Control Block
DCCB	D-channel control block
DCD	Data Collection Device
DCD	Digital Call Distribution
DCDB	Digit Collection Data Block
DCDB	D-Channel Data Block
DCE	Data Circuit-Terminating Equipment
DCE	Data Communications Equipment
DCEC	Database Change And Evaluation Committee
DCF	Defensive Check Failure
DCF	Digital Carrier Facilities
DCLU	Digital Carrier Line Unit
DCO	Digital Central Office
DCO	Digital Controlled Oscillator
DCP	Data Communications Protocol
DCP	Distributed Call Processing
DCR	Directory Charge Recording
DCRGS	Data Collection And Report Generation Of Resource Usage Information System
DCS	Diagnostic Control Structure
DCS	Digital Conference System
DCS	Digital Cellular Switch
DCT	Digital Carrier Terminal
DCT	Digital Carrier Terminal/Trunk
DCT	Direct Connect Trunks
DCT	Dispatcher Control Table
DCTN	Defense Commercial Telecommunications Network
DCTU	Directly Connected Test Unit
DCW	Dial Call Waiting
DCWT	Distinctive Call Waiting Tone
DD	Data Delivery
DD	Delay Dial
DDA	Directory Database Administration

DDAS	Dynamic Data Access Subsystem
DDCC	Design And Documentation Coordination Committee
DDD	Direct Distance Dialing
DDI	Direct Dialing In
DDL	Data Definition Language
DDL	Derived Data Links
DDM-2000	Dual Digital Multiplexer - 2000
DDP	Data Definition Process
DDS	Digital Data Service/System
DDSBS	Duplex Dual Serial Bus Selector
DDSN	Digital Derived Services Network
DEACT	Deactivate
DEMUX	Demultiplexer
DEN	Digital Equipment Number
DEP	Data Entry Procedure
DESEP	Destination Separation Class
DESS	Digital Electronic Switching System
DEV	Device
DEVID	Device Identification
DF	Data Fanout
DF	Disk File Unit
DF	Distributing Frame
DF	Duplex Failure
DFC	Disk File Controller
DFD	Data Flow Diagram
DFF	Digital Facilities Frame
DFI	Digital Facility Interface
DFI-H	RISLU Host DFI
DFI-H1	RISLU Host DFI Type 1(Remotes A PICB And A PIDB To Remote Site)
DFI-H2	RISLU Host DFI Type 2(Remotes A PIDB To Remote Site)
DFI-R	RISLU Remote DFI
DFI-R1	RISLU Remote DFI Type 1(Remotes A PICB And A PIDB To Remote Site)
DFI-R2	RISLU Remote DFI Type 2(Remotes A PIDB To Remote Site)
DFTAC	Distributing Frame Test Access Circuit
DFU	Digital Facilities Unit
DFU	Disk File Unit
DG	Digroup
DG	Diagnostic Control Subsystem
DG	Diagnostics Supervisor
DGEN	Data Generation
DGN	Diagnose/Diagnostic
DGT	Digit Analysis
DI	Data Interface
DI	Destination Index
DI	Dielectric Isolation
DIAG	Diagnose
DIAGC	Diagnostic Control Program
DIAMON	Diagnostic Monitor Program
DID	Direct Inward Dialing
DIF	Digital Interface Frame
DIM	Digital Interface Module
DIO	DMA I/O Bus
DIOB	Director Memory Access I/O Bus
DIOR	Direct International Originations
DIP	Dual Inline Package
DIS	Disconnect
DISC	Disconnect
DISPDB	Display Data Block
DIST	Distribute
DIT	Display Information Table
DIVA	Digital Input-Voice Answer-back
DKDRV	Disk Driver
DKI	Disc/Disc Inverter
DL	Data Link
DLC	Digital Loop Carrier
DLDSL	Data Link Digital Subscriber Line
DLI	Dual Link Interface (Part Of SM)
DLICON	Dual Link Interface Configuration
DLIT	Demand Line Insulation Test

DLM	Digital Link Module
DLN	Direct Link Node
DLP	Decode Level Point
DLRU	Data Link Receiving Unit
DLT	Data Link Terminal
DLT	Digital Link Trunk Frame
DLT	Digital Link Trunk Port
DLTU	Digital Line And Trunk Unit
DLTU-RH	RISLU Host DLTU
DLTU-RR	RISLU Remote DLTU
DLTU/LU	Digital Line Trunk Unit/Line Unit
DLU	Data Link Unit
DM	Disconnected Mode
DM	Domain
DMA	Direct Memory Access
DMA/IO	Direct Memory Access/IO Unit
DMAC	Direct Memory Access Controller
DMAM	Deferred Maintenance Administrator And Monitor
DMAS	Dedicated Maintenance And Administrative Services
DMCH	DMA Channels
DMD	Dot Mapped Display
DMERT	Duplex Multi-Environment Real-Time Operating System
DMG	Digital Master Group
DMI	Digital Multiplexed Interface
DML	Data Manipulation Language
DMODE	Linecard Register For Controlling The D-Channel Mode
DMON	Diagnostic Monitor Process
DMU	Data Manipulation Unit
DMW	Digital Milliwatt
DN	Diagnostics-SM Subsystem
DN	Directory Number
DNA	Data Network Address
DNA	DN Appearance
DNCP	Diagnostics-CP Subsystem
DND	Do Not Disturb Service
DNET	Defer Non-Essential Tasks
DNHR	Dynamic Non-Hierarchical Routing
DNIC	Data Network Identification Code
DNS	Data Networking Services
DNT	Dialed Number Trigger
DOC	Dynamic Overload Control
DOD	Direct Outward Dialing
DOMSCR	Dominant Screening
DOPS	Digital Ordering And Planning System
DOR	Division Of Revenue
DOTS	Digital Office Timing Supply
DP	Destination Point
DP	Dial Pulse/Pulsing
DP	Duplex Processor
DPAT	Dialing Plan Access Treatment
DPB	D-Channel Port Block
DPB	Data Port Board
DPBX	Digital Private Branch Exchange
DPC	Data Port Circuit
DPC	Destination Point Code
DPCM	Differential Pulse Code Modulation (TV Signal Compression)
DPH	Data Priority High
DPIDB	Directly Connected Peripheral Interface Data Bus
DPKT	D-channel Packet
DPL	Data Priority Low
DPLL	Digital Phase Lock Loop
DPN	Directed Pickup Nonbarge-In
DPN	Distribute Point Number
DPNSS	Digital Private Network Signaling System
DPT	Diagnostic Phase Table
DPU	Directed Pickup With Barge-In
DQD	Directory Query Display
DR	Distinctive Ring
DRE	Directional Reservation Equipment

DRS	Digital Reference Sequence
DS	Digital Signal
DS0	64-Kilobit-per-Second PCM Transport Facility
DS0	Digital Signal Level 0
DS1	1.544 Mega-baud Data Channel
DS1S	Digital Signal Level 1 SONET
DSA	Dial Service Assistance
DSBLD	Disabled
DSC	Data Set Cabinet
DSC	Digital Services Circuit
DSC	Dual Serial Channel
DSCCOM	Digital Service Circuit Common
DSCH	Dual Serial Channel
DSCP	Digital Service Circuit Pack/Port
DSCU	Digital Service Circuit Unit
DSD	Direct Services Dialing
DSD-NSC	Direct Services Dialing - Network Services Center
DSDC	Direct Services Dialing Capability
DSE	Direct Signaling Event
DSI	Data Subscriber Interface
DSIOS	Data Subscriber Interface Operating System
DSL	Digital Subscriber Line; also called a BRI Basic Rate Interface
DSLCL	Digital Subscriber Line Concentrator
DSLINIT	DSL Initialization
DSM	Direct Signaling Message
DSN	Defense Switched Network
DSO	One 64 Kilobit Per Second Channel of A T1 Line
DSP	Digital Signal Processor
DSS	Digital Switching System
DSS	Direct Station Selection
DSS	Display Station Set
DSSC	Dual Serial Data Channel
DST	Destination Bus
DSTC	Digital Serving Test Center
DSTT	Direct Signaling Translation Test
DSU	Digital Service Unit
DSU1-CONF	Digital Service Unit 1 - Conference Circuits
DSU2	Digital Service Unit Model 2
DSUCOM	Digital Service Circuit Unit - Common
DSUG	Digital Service Circuit Unit (With Global Functions)
DSUL	Digital Service Circuit Unit (With Local Functions)
DSX	Digital Cross-Connect (Frame)
DT	Basic Digital Terminal
DT	Destination Type
DT	Data Transport
DTA	Dial Through Announcement
DTD	Dial Tone Delay
DTDA	Dial Tone Delay Alarm
DTE	Data Terminating Equipment
DTF	Dial Tone First
DTF	Digital Transmission Facility
DTGS	Direct Trunk Group Selection
DTMF	Dual Tone Multifrequency
DTO	Decentralized Toll Office
DTP	DAS/C Terminal Process
DTQ	Delay Treatment For Queuing
DTR	Data Terminal Ready
DTSA	Linecard Register That Assigns GIDB Time Slot To D-Channel
DTT	Digital Transmission Terminals
DTTTL	Dial Transfer To Tandem Tie Line
DTU	Digital Trunk Unit
DU	Design Unit
DUC	Dual Access Utility Circuit
DUE	Detection of Unauthorized Equipment
DUIC	Direct User Interface Controller
DUP	Data User Part
DVO	Data Voice Office
DXD	Digit By Digit Analysis

3.5 E

Acronym	Definition
E&M	Ear And Mouth
EA	Emergency Action
EA	Equal Access
EA	Error Analysis
EA	Exchange Access
EA	Extended Address Bit
EACK	Channel Error Acknowledge
EADAS	Engineering And Administrative Data Acquisition System
EADAS/NM	Engineering and Administrative Data Acquisition System For Network Administration
EADAS/NORGEN	EADAS/Network Operations Report Generator
EAE0	Equal Access End Offices
EAI	Emergency Action Interface
EAMF	Equal Access Multifrequency
EAN	Equipment Access Network
EAP	Elevated Audit Process
EARN	Equipment Access Relay Network
EARN	Equipment Action Interface
EAS	Exchange Access Signaling
EAS	Extended Area Service
EB	Event Buffer
EC	Electronic Console
EC	External Data Link Communication Package
ECA	Exchange Carrier Association
ECB	Echo Cancellation Boards
ECD	Equipment Configuration Database
ECD/SG	Equipment Configuration Data (Or Database) / Service Groups
ECDGEN	Equipment Configuration Data Generation Program
ECDMAN	Equipment Configuration Data Manager
ECH	Echo Canceled Hybrid
ECIS	Embedded CCIS Protocol
ECIS6	Embedded Common Channel Office Signaling
ECO	Emergency Change Over
ECP	Engineering Change Procedures
ECP	Executive Control Processor
ECR	Emergency Call Record
ECT	Equipment Configuration Table
ECTD	Expanded Call Type Determination
ECTP	Evaluation Control Terminal Process
ECU	Echo Cancellation Unit
EDAC	Enhanced Digit Analysis And Collection
EDBMH	External Data Base Message Handler
EDLCP	External Data Link Communication Package
EDS	EPSCS Data Switch
EDS CND	
EDSL	Extended Digital Subscriber Line
EE	Execution Environment
EF&I	Engineered, Furnished And Installed
EFS	Error Free Second
EIC	Exchange Identification Code
EIH	Error Interrupt Handler
EIRS	Expanded In-Band Ringback Signal Generation
EIS	Expanded Inband Signaling
EIS	External Information Systems
EKTS	Electronic Key Telephone Service
ELI	Electric Line Interface
ELIGI	Enhanced Limited Intragroup ICLID
ELP	Encode Level Point
ELS	Electronic Loop Segregation
ELT	Emergency Load Transfer
EM	Electromechanical
EMB	Engineering Methods Bulletin
EMC	Electromagnetic Compatibility
EMI	Electro-Magnetic Interference
EML	Expected Measured Loss
EMM	Expanded Main Memory

EMMP	Enhances Message Module Processor
EMP	Electro-Magnetic Pulse
EMS	Effective Mass Filter
EMSP	Enhanced Modular Signal Processor
EMTR	Equipment Manufacturing Testing Requirements
EN	Equipment Number
ENFIA	Exchange Network Facilities For Interexchange/Interstate Access
EO	End Office
EOATA	End Office Access Trunk Arrangement
EOC	End Of Call
EOS	Extended Operating System
EOT	End Of Tape/Transfer
EPH	Enhanced Protocol Handler
EPIC	Engineering Purchased Integrated Circuits
EPLS	Emergency Priority Line Service
EPO	Enhanced Professional Office
EPROM	Erasable Programmable Read Only Memory
EPS	Equipment Product Schematic
EPSCS	Enhanced Private Switched Communication Service
EPSM	Equipment Product Schematic For Manufacture
EQL	Equipment Location Number
EQSTAT	Equipage State Field In RC View
ER	Equipment Report
ER	Error Register/Request
ERA	Error Analysis Register
ERL	Echo Return Loss
ERROR	Linecard Register That Signals GIDB Errors
ES	Errored Seconds
ESA	E911 Service Adjunct
ESAC	Electronic Switching Assistance Center
ESB	Emergency Service Bureau
ESC	Enhanced Services Complex
ESCO	Emergency Service Central Office
ESD	Electrostatic Discharge
ESN	Emergency Service Number
ESP	Engineering Specification Practices
ESP	Enhanced Services Provider
ESP	Essential Service Protection
ESP	External Security Password
ESPOTS	Extended Super Plain Old Telephone Service
ESR	Error Source Register
ESSX	Private facilities feature which emulates a PBX in the 5ESS-2000 Switch
EST	Equipment Status Table
ET	Exchange Terminator/Termination
ETN	Electronic Tandem Network
ETS	Electronic Tandem Switching
ETS/ETN	Electronic Tandem Switch/Electronic Tandem Network
EUO	???
EWD	End With Disconnect
EV	Administrative Event Reporting
EX	Exercise
EXC	Execute
EXT	Extension
EXT	External
E BIT	Busy/Idle Bit In A Time Slot

3.6 F

Acronym	Definition
FA	Fault Recovery
FA	Firmware Administration
FAs	Feature Activators
FAC	Facility Administration And Control
FAC	Feature Assignment And Construction
FACCS	Facility Associated Common Channel Signaling
FACMS	Firmware Administration Change Management System
FACS	Facility Assignment Control System
FADS	Feature Access During Speech

FAP	Feature Activation Point
FARPID	Far Process Identification
FAS	Facility Associated Signaling
FBDB	Free Buffer Descriptor Blocks
FBI	Feature Button Inspect
FB-ICOM	Feature Button Intercom
FCD	Feature Code Dialing
FCG	False Cross And Ground
FCOS	Far Class Of Service
FCS	Frame Check Sequence
FCT	Firmware Coordination Team
FCU	Format Control Unit
FDB	Feature Data Base
FDM	Frequency Division Multiplexing
FDMA	Frequency Division Multiple Access
FDS	Feature Design Specification
FDX	Full Duplex
FEDT	Far-End Data Tone
FEM	Front End Menu
FENPA	Far End Numbering Plan Area (Far End Area Code)
FEV	Far End Voice
FFU	Fuse Filter Unit
FG	Failure Group
FG	Foreground (Peripheral Control)
FGB	Feature Group B
FGBOL	Feature Group B Originating LATA
FGC	Feature Group C
FGD	Feature Group D
FGDOL	Feature Group D Originating LATA
FI	Facilities Interface
FI	
FIB	Find Indicator Bit
FIC	Film Integrated Circuit
FICU	Fault Insertion Control Unit
FID	Feature Identifiers
FIDB	Facilities Interface Data Bus
FIFO	First-In First-Out
FIM	Fiber Interface Module
FIP	File Inquiry Processor
FIPS	Facility Interface Processors
FIRM	Firmware Subsystem
FISU	Fill-In Signal Unit
FIT	Failure In Time (Typically 10E9 Device Hours)
FIT	Fully-Initializing Terminal
FIU	Facilities Interface Unit
FLT	Fault
FLT	Fault Locating Terminal
FLTRCV	Fault Recover
FLZ	Find Low Zero
FM	Feature Model
FM	File Management/Manager
FMC	Force Management Centers
FNSI	Forward Number Specific Information
FONL	Force On Line
FP	Fast Pump
FP	Feature Processor
FP	Frame Pointer
FP	Fuse Panel
FPC	Foundation Peripheral Controller (Part Of MSGS)
FPCCON	Foundation Peripheral Controller Configuration
FPCH	Foundation Peripheral Controller Handler
FPFH	Fast Pump Facility Handler
FPI	Full Process Initialization
FPID	Far Process Identification
FPS	Forms Processor System
FPSP	Fast Pump System Process
FPT	Functional Pack Test
FPTP	Fast Pump Terminal Process
FPU	Fuse Panel Unit

FR	Fault Recovery
FRCD	Forced Active
FRL	Facility Restriction Level
FRMR	Frame Reject Response
FRP	Fault Recovery Program
FRPH	Frame Relay Protocol Handler
FRS	Feature Requirements Specification
FRS	Flexible Route Selection
FSK	Frequency Shift Keying
FSM	Finite State Machine
FSN	Forward Sequence Number
FSR	Frequency Select Ringing
FSTT	Finite State Transition Table
FTAM	Form Translation And Mapping
FTB	Facility Test Bus
FTP	Feature Terminal Process
FTS	Federal Telecommunication System
FTS	Field Test Set
FTS/NRA	Federal Telecommunications/Number Remote Access
FU	Fan Unit
FW	Firmware
FWA	Full Wave Average
FWCLI	Firmware Change Level Indicator
FX	Foreign Exchange
FX-ROTL	Foreign Exchange Lines For The Remote Office Test Line

3.7 G

Acronym	Definition
GD	Global D Channel
GDA	Global Data Area
GDATA	Global Data
GDB	General Deactivation Procedure
GDS	Gated Diode Switch
GDSF	Global Digital Services Facility
GDSU	Global Digital Service Unit
GDU	Global Design Unit
GDX	Gated Diode Crosspoints
GDXAXS	GDX Access
GDXC	Gated Diode Crosspoint Compensator Pack
GDXCTRL	Gated Diode Crosspoint Access
GEN	General Registers
GFAS	General Feature Access Scheme
GFH	Global Fault Handler
GFM	Global Function Module
GIDB	Group Interface Data Bus (For ISLU)
GL	Global Symbol
GLAU	High Level Access Unit
GLG	General Line Group
GLIB	Generic Library
GLS	Generalized Line Signaling
GLU	General Line Unit
GMOS	Group Manager Operator Services
GNP	General Numbering Plan
GNPO/T	General Numbering Plan Originating/Toll
GNPSNI	General Numbering Plan Singular Number Identification
GOP	Global Overload Process
GPD	Group Partitioned Data
GPDB	General Purpose Buffer Descriptors
GPIC	Group Primary Carrier
GPIM	Global Position Interface Module
GPITS	General Purpose Integrated Test System
GPIU	General Purpose Interface Unit
GPORT	Global Port
GRASP	Generic Access Program (Or Package)
GRASPIM	Generic Access Program For The Interface Module
GRCV	Growth Recent Change Verify
GREP	Global Regular Expression Print

GROW	GROWth Equipage State
GRSP	Global Routing System Process
GSDB	Grid Summary Scan Data Block
GSL	Gas Surge Limiter
GSM	Global Service Module
GSS	Global System Status
GTEI	Group Terminal Endpoint Identifier
GTG	General Trunk Group
GTG	Generalized Tone Generation
GTT	Global Title Translation
GTU	General Trunk Unit

3.8 H

Acronym	Definition
H/M	Hotel/Motel
HBIS	Hotel Billing Information System
HCC	Hardware Change Committee
HCISLU	High Capacity Integrated Services Line Unit
HCMICU	High Capacity Message Interface And Clock Unit
HCMMSG	High Capacity MSGS
HD	High Day
HDBH	High Day Busy Hour
HDFI	Host Digital Facilities Interface
HDLC	High Level Data Link Control
HEX	High Energy Crosspoint
HG	Half Group
HIC	Hybrid Integrated Circuit
HILO	High-Low Technique
HILVL	High Level
HINIT	Hardware Initialization
HLAU	High Level Access Unit
HLDA	Hold Acknowledge
HLL	High Level Language
HLSC	High Level Service Circuit
HM	Hotel Motel
HMIRA	Human Machine Input Request Administration
HMKP	Human Machine Kernel Process
HMSIP	Human Machine Spooler Input Process
HNPA	Home Numbering Plan Area
HOBIC	Hotel Billing Information Center
HOBIS	Hotel Billing Information System
HOC	Host Collector
HP	Hard Pulse
HP	Hi Priority
HSC	High Level Service Unit
HSM	Host Switching Module
HSR	Hardware Status Register
HSSDS	High Speed Switched Digital Service
HST	Hashsum Tables
HSU	High Level Service Circuit Unit
HTE	Hardware Test And Evaluation
HTLU	High Traffic Line Unit
HTP	Host Interface Module Terminal Process
HTR	Hard to Reach
HTT	Hardware Troubleshooting Tools
HTU	High Level Test Unit
HU	Hardware Units
HW	Hardware
HZ	Hertz Cycles Per Second

3.9 I

Acronym	Definition
I	Information
I.110	CCITT Reference: General Structure Of I Recommendations
I.120	CCITT Reference: Integrated Services Digital Networks

I.320	CCITT ISDN Protocol Reference Model Description
I.411	CCITT ISDN User-Network Interfaces Reference
I.430	CCITT ISDN Layer 1 (Physical Layer) Specification
I.431	CCITT Primary Rate Layer 1 (Physical Layer) Specification
IA	Ineffective Attempt
IA	Intraexchange
IAD	Integrated Access Distributor
IAM	Initial Address Message
IAN	Integrated Analog Network
IAPXITS	Integrated Test System INTEL Processors
IAR	Immediate Access Random Access Memory
IB	Instruction Buffer
IBDN	Individual Billing Directory Number
IBHC	Input Buffer Head Cell
IBNS - R2	International Billed Number Screening - Release 2
IC	InterLATA Carrier
IC	Incoming Call
IC	Integrated Circuit
IC	Interexchange Carrier
IC	Interorganization Coordination Team
ICAD	Initialization And Configuration Administration
ICAI	Idle Call Appearance Inspect
ICAN	Individual Circuit Analysis
ICB	Incoming Calls Barred
ICF	Inter-LATA Carrier Form
ICI	Incoming Call Identification
ICI	ISDN Call Identification
ICL	Inserted Connection Loss
ICL	Inter Cluster Link
ICLID	Incoming Call Line Identification
I-CNAM	ISDN Calling Name for BRI
I-CNIS	ISDN Calling Number Identification Services
ICON	Initialization Control
ICS	Inmate Calling Services
ICT	Incoming Trunk
ICVC	International Card Verification Center ID
ID	Immediate Dial
ID	Individualized Dialing
IDAS	Integrated Routing Assignment System
IDB	INWATS Database
IDC	Integrated Digital Capability
IDCU	Integrated Digital Carrier Unit
IDDD	International Direct Distance Dialing
IDE	Initial Development Environment
IDEAS	Integrated Digital Extension For Analog Switches
IDL	Interoffice Data Link
IDLC	Integrated Digital Loop Carrier
IDN	Integrated Digital Network
IDP	Individualized Dialing Plan
IDPI	Internal Data Path Identifier
IDS	Interconnection Design System
IDS	Interprocessor Data Synchronization
IDT	Integrated Display Terminal
IE	Information Element
IE	Input Equipment
IE	Interexchange
IEC	Interexchange Carrier
IEDS	ISDN Electronic Directory Service
IFMH	Interflow Message Handler
IGC	Inter-Gateway Circuits
IH	Interrupt Mask
IHA	Incremental Hardware Addition
IIA	Interrupt Inhibit Administrator
IIGW	Inter-ISM Gateway
IITS	Interactive Integrated Test System (Formerly STS)
IM	Immediate Mode (RC)
IM	Input Message
IM	Integrity Monitor
IM	Interface Module (now SM)

IM	Interrupt Mask
IM-OM	Input And Output Message Manuals
IM-REXS	Interface Module Routine Exercise Scheduler
IM/OM	Input Manual/Output Manual
IMBP	Interface Module Backup Process
IMC	Interface Module Cabinet
IMC	Interface Module Control Cabinet
IMLT	Integrated Mechanized Loop Testing
IMP	Improved Module Processor
IMP	Interface Module Processor
IMPU	Interface Module Processor Unit
IMR	Initial Modification Request
IMS	Interprocess Message Switch
IMST	Interface Module System Test
IMT	Inter-Module Trunk
IN	Initialization
INA	Integrated Network Arrangement
INADS	Initialization And Administration System
INC	International Carriers
IND	Indication
INETS	Interim NETS
INFORM	Information
INH	I/O Inhibit
INIT	Initialization
INIT	Initiate
INOP	Inward Operator
INPA	Interchangeable NPA
INSEP	Incoming Separation Class
INV	Direct-To-Alternating Current Inverter
INV	Inverter (Disk)
INVTR	Inverter
INWATS	Inward Wide Area Telecommunications Service
IOC	International Operator Center
IODRV	Input/Output Driver
IOMI	Input/Output Microprocessor Interface
IOMM	Input/Output Message
IOP	Input/Output Processor
IOPC	Input/Output Peripheral Controller
IORN	I/O Read (Active Low)
IOS	Improved Outpulsing Service
IOWN	I/O Write (Active Low)
IP	ISDN Interworking Unit Port
IP	Improved Pump
IP	In Progress
IP	Intelligent Peripheral
IP	Initialization Processor
IPC	Inter-Process Communication
IPL	Initialization Processor Load
IPM	Interruptions Per Minute
IPS	Interrupts Per Second
IPWS	Interactive Planning Work Station
IR	Interrupt Request
IREG	Integrated Range Extension With Gain
IRN	Integrated Ring Node
IRQ	Invalid Request For Supplementary Service
IS	Information Separator
IS	Interrupt Set Register
IS	Interrupt Source
ISAT	ISDN Attendant
ISC	Intelligent Serial Controller
ISC	International Switching Center
ISCN	Integrated Services Channel Number
ISD	International Subscriber Dials
ISDN	Integrated Services Digital Network
ISDN-UP	Integrated Services Digital Network User Part (Of CCITT7)
ISDNBASE	ISDN Base Code Loadable Package.
ISDNBRCS	ISDN BRCS Code Loadable Package
ISDRT	Integrated Services Digital Remote Terminal
ISDS	Incremental Software Development System

ISLC	Integrated Subscriber Loop Carrier
ISLU	Integrated Services Line Unit
ISLU2	Integrated Services Line Unit - 2
ISLUBASE	ISLU Base Code Loadable Package
ISM	Integrated Services Module (outdated acronym)
ISN	Integrated Services Network
ISP	Intermediate Switching Point
ISPA	Integrated Services Port Administrator
ISPF	Interactive Session Productivity Facility
ISSN	Integrated Special Services Network
ISTF	Integrated Services Test Facility
ISU	Identification Service Unit
ISU	Initial Signal Unit
ISUP	Integrated Services - User Part
IT	Intertoll
ITE	Installation Test Equipment
ITIME	OSDS Time Relative To OSDS Init
ITLH	(2 Wire) Incoming Trunk Loop, Hook
ITLM	(2 Wire) Incoming Trunk Loop, Metering
ITP	Interaction Test Plan
ITS	Integrated Test System
IU	Interface Unit
IUB	Interface-Unit Bus
IUI	Integrated User Interface
IXC	Inter-Exchange Carrier

3.10 J

Acronym	Definition
JF	Junctor Frame

3.11 K

Acronym	Definition
KA	Knowledge Access
KAM	Knowledge Access Model
KB	Knowledge Base
KB/S	Kilobits Per Second
KBPS	Kilobits Per Second
KCS	Key Control Service
KDB	Kernel Debugger
KHZ	Kilohertz
KM	Kilometer
KP	Key Pulse
KPCB	Kernel Process Control Block
KSR	Keyboard Send/Receive
KSU	Key Service Unit
KTTP	Keying Trunk Terminal Process
KW	Key Word

3.12 L

Acronym	Definition
LABS	LATA-Wide Business Service
LAC	Loop Assignment Center
LACT	Local Customer Administration Terminal
LADT	Local Area Data Transport
LAMA	Local Automatic Message Accounting
LAN	Local Area Network
LAP	Link Access Protocol
LAPB	Link Access Protocol B
LAPD	Link Access Protocol D
LASS	Local Area Signaling Services
LATA	Local Access And Transport Area
LAU	Link Adapter Unit (Was AAU)
LBRA	Line Battery Reversal On Answer

LC	Last Call
LC	Line Card Of The ISLU
LC	Line Controller
LC	Loop Closure
LCAMOS	Loop Cable Administrative And Maintenance Operations System
LCAS	Local Customer Administration System
LCC	Line Class Code
LCCB	Logical Channel Control Block
LCEN	Line Card Equipment Number
LCI	Local Call Intercept
LCIE	Lightguide Cable Interconnect Equipment
LCP	Linked Call Processing
LCR	Least Cost Routing
LCSN	Lower Chip Select
LCU	Link Controller Unit
LD	Long Duration (Call)
LD	Loop Disconnect
LDC	Long Duration Call
LDFT	Load Disk From Tape
LDG	Logical Device Group
LDI	Logical Device Identification
LDIN	Logical Device Identification Number
LDIT	Local Digit Interpreter Table
LDMC	Loop Data Maintenance Center
LDN	Listed Directory Number
LDS	Lesson Development System
LDSU	Local/Logical Digital Service Unit
LDSUB	Local Digital Service Unit Bus
LDSUF	Local Digital Service Unit Feature
LE	Link Establishment (Message)
LEC	Local Exchange Carrier
LED	Light Emitting Diode
LEN	Line Equipment Number
LF	Line Forwarding
LG	Line Group
LGC	Line Group Controller
LGP	Line Group Power Board
LHT	Long Holding Time
LI	Link Interface
LIB	Link Interface Bus
LIC	Line Interface Circuit
LICON	Link Interface Configuration
LIDB	Line Interface Data Bus
LIDB	Line information data base
LIGI	Limited Intra-group ICLID
LIM	Link/Local Interface Module
LIT	Line Insulation Test
LIU	Line Interface Unit
LL	Logical Link
LLA	Low Level Access
LLCB	Logical Link Control Block
LLID	Logical Link Identifier
LLM	Logical Link Map
LLN	Line-Link Network
LLP	Line Link Pulsing
LLSC	Low Level Service Circuits (AC)
LLSCU	Low Level Service Circuit Unit
LM	Link Map
LMDRS	Local Message Detail Recording System
LML	Line Maintenance Lists
LMOS	Loop Maintenance Operations System
LMR	Load Modification Request
LN	Link Node
LNI	Line Interface (Cabinet Or Frame)
LO	Local Office
LONAL	Local Off-Network Access Line
LOS	Loss Of Signal
LOSL	Line Out Of Service List
LOT	Loader Option Tape

LOTS	Load Originating Test System
LP	Logical Port
LP	Logical Processors
LP	Loopback
LPCDF	Low Profile Conventional Distributing Frame
LPE	Logical Procedure Error
LPIC	Line Primary Carrier
LPID	Logical Port ID
LPR	Last Party Release (An MFC Signal)
LPT	Load Process Team
LRSP	Local Routing System Process
LS	Link Set
LS	Listing Services
LSI	Loop Side Interface
LSI	Loop Supervision Incoming
LSM	Local Switching Module
LSO	Loop Start Outgoing
LSO	Loop Supervision Outgoing
LSOS	Language Specific Operator Services
LSR	Line Signaling Repeater
LSSU	Link Status Signal Unit
LSU	Local Storage Unit
LSU	Lone Signal Units
LSV	Line Status Verifier
LT	Line Termination
LT	Line Trunk Frame
LTA	Load Transfer Acknowledgement
LTATA	Local Tandem Access Trunk Arrangement
LTD	Local Test Desk
LTD	Local Traffic Diversion
LTOSL	Line Temporary Out Of Service List
LTP	Line Test Position
LTP	Line Trunk Peripheral Cabinet
LTP	Local Test Position
LTP	Logical Test Port
LTR	Load Transfer Request
LTS	Loop Test Start
LTSB	Line Time Slot Bridging
LTT	Long Term Tone
LU	Line Unit
LU-81	1981 Line Unit
LU-83	1983 Line Unit
LUC	Line Utilization Check
LUCHAN	Line Unit Channel Circuit
LUT	Line Under Test
LUTS	Locked-Up Trunk Scan
LV1ERR	Level 1 Error
LV2ERR	Level 2 Error
LV3ERR	Level 3 Error
LVL1ERR	Level 1 Error
LVL2ERR	Level 2 Error
LVL3ERR	Level 3 Error
LW	Leave Word
LWC	Leave Word Calling
LWC-IO	Leave Word Calling - Incoming/Outgoing
LWC-O	Leave Word Calling - Outgoing

3.13 M

Acronym	Definition
M	Mandatory
M	Miscellaneous Cabinet
MA	Main Store Array
MA	Milli-Amps
MAAP	Maintenance And Administration Panel
MAC	Memory Administration Center (See RMAC)
MAC-4	BELLMAC-4 Microcomputer
MAC-OSS	Machine Administration Center - Operation Support System

MAJ	Metallic Access Junctors
MALU	Miscellaneous Analog Line Unit (Now MLU)
MAN	Manual
MAN	Metallic Access Network
MAR	Microstore Address Register
MAS	Main Store
MAS	Module Alarm System
MASA	Main Store Array
MASB	Main Store Bus
MASC	Main Store Controller
MASDU	Metallic Access Scan Distribution Unit
MASK	Linecard Register For Masking Out Errors Noted By ERROR Register
MASM	Main Store Module
MASU	Main Store Update
MASUB	Main Store Update Bus
MATT	Matcher And Transfer Tracer
MAU	Metallic Access Unit
MAUUI	Message Associated User-to-user Information
MAX	Metallic Access
MBKS	Multibutton Key System
MBPS	Megabits Per Second
MC	Maintenance Circuit
MC	Master Control
MC	Microcode Number For Firmware Products
MC	Modular Communications
MC	Module Controller
MC68000	Micro Computer Type 68000
MCA	Misrouted Centralized Automatic Message Accounting
MCA	Module Circuit Administrator
MCA	Multiple Call Appearances
MCB	Maintenance/Message Control Block
MCB	Module Control Bus
MCBA	MCB Array
MCBI	MCB Index
MCC	Maintenance (Master) Control Center
MCC	Master Control Center
MCC/ROP	Master Control Center Receive Only Printer
MCH	Maintenance Channel
MCO	Manual Changeover
MCR	Modular Capability Request
MCRT	Master/Maintenance Cathode Ray Tube/Terminal
MCS	Memory Chip Select
MCS	Message Command System
MCS	Microcontrol Store
MCS	Microprocessor Call Simulator
MCS	Module Conversion Specification
MCT	Malicious Call Trace
MCTF	Malicious Call Trace On Flash
MCTSI	Module Controller/Time Slot Interchange
MCTSIU	Module Control And Time Slot Interchanger Unit
MCTU	Module Controller And TSI Unit
MCTUFR	Module Controller and TSI Unit Fault Recovery
MCU	Module Control Unit
MCW	Memory Card Writer
MD	Message Delivery
MD	Module Declaration (File)
MD-PH	Message Delivery Protocol Handler
MDB	Message Buffer Data Blocks
MDCT	Logical Device Record
MDCT	Minor Device Chain Table
MDF	Main Distributing Frame
MDII	Machine Detected Interoffice Irregularities
MDL	Management Data Link
MDL	Message Definition Language
MDL	Message Delivery Data Link
MDM	Modular Data Module
MDM	Modular Digital Modem
MDR	Message Detail Recording
MDR-CP	Message Detail Recording To Customer's Premises

MDSL	Multiplexed Digital Subscriber Line
MEAS	Measurements
MEAU	Module Elevated Audits (Process)
MECCA	Mechanized Evaluation Of Call Completion Anomalies
MECH	More Efficient Call Handling
MEM	Memory
MEMB	Multi-Line Hunt Group Member
MES	Message
MET	Multibutton Electronic Telephone
MEU	Memory Expansion Unit
MF	Memorandum For File
MF	Message Forwarder
MF	Multi-Frequency
MFC	Modular Feature Construction/Customization
MFC	Multifrequency Code/Compiler
MFKP	Multifrequency Key Pulsing
MFOSS	Multifunction Operations System
MFOSS	Multifunctional Operations Support System
MFRI	Multifrequency Ringing Interface
MFT	Metallic Facility Terminal
MH	Manual Hold
MH	Message Handler
MH2	Metro Hub 2
MH3B	3B Message Handler
MHD	Moving Head Disk
MHDC	Moving Head Disk Control
MHDD	Moving Head Disk Drive
MHDD/C	Moving Head Disk Data Clock
MHDI	Moving Head Disk Interface
MHZ	Mega-Hertz
MI	Maskable Interrupt
MI	Message Interface
MIB	Message Interface Bus
MIC	Message Insertion Circuit
MICO	Module Integrity Control
MICO	Module Integrity Controller
MICON	Message Interface Configuration
MICU	Message Interface Clock Unit
MICU	Message Interface Control Unit
MICU/TMS	Message Interface Clock Unit/Time Multiplexed Switch
MICU2	Message Interface/Clock Unit, Model 2
MID	Module Identifier
MIM	Miscellaneous Interface Module
MIP	Maintenance In Progress
MIP	Micro Interface Program
MIPTG	Multiple internal protocol trunk groups
MIR	Microinstruction Register
MIS	Management Information System
MIS	Microstore
MIS	Module Interface Specification
MISC	Miscellaneous Frame
MJ	Major Alarm
MKDSK	Make Disk Process
MLG	MTSO Load Generation Software
MLG	Miscellaneous Line Group
MLG	Multi Line Group
MLHG	Multi-Line Hunt Group
MLHGMM	Multi-Line Hunt Group Member Number
MLI	Message Link Interface
MLOS	Multi-Lingual Operator Services
MLPP	Multi-Level Precedence Preemption
MLT	Mechanized Loop Test System
MLT-2	Mechanized Loop Testing System Generation 2
MLTS	Micro Level Test Set
MLTS/MIP	Micro Level Test Set/Interface Program
MLTSI	Micro Level Test Set Interface
MLU	Miscellaneous Line Unit
MM	Multi Metering
MM	Multi-Module

MM-REXC	Multi Module Routine Exercise Controller
MMGR	Memory Manager
MMJ	Major Alarm
MML	CCITT Human-Machine Language Used For 5ESS - Operator Interaction
MMP	Module Message Processor (Part Of SM And MSGS)
MMPCON	Module Message Processor Configuration
MMPH	Module Message Processor Handler
MMRSM	Multi-Module Remote Switching Module
MMST	Multi-Module System Test
MMSU	Modular Metallic Service/Switch Unit
MMT/C	Meet Me Teleconferencing
MMU	Multimessage Unit
MN	Minor Alarm
MNTACC	Maintenance Acknowledge Command
MNU	Message Not Understood
MOD	Module
MOD-CONT	Module Controller
MODCONT	Modular Controller
MOFI	Module Only Full Initialization
MOJ	Metering Over Junction
MOR	Manual Over Ride
MOS	Metal Oxidized Silicone
MOS	Module Operation System
MOSI	Module Only Selective Initialization
MOUT	Microprocessor Data (T-Interface Output)
MP	Modem Pool
MP	Module Processor
MPC	Message Peripheral Controller
MPCI	Message Peripheral Controller Interface
MPDAV	Module Processor Data Available
MPI	Module Processor Interface
MPI	Multiple Protocol Handler Images
MPOTP	Modem Pool Originating Terminal Process
MPREQ	Module Processor Request
MPSC	Multi-Protocol Serial Controller
MPTP	Modem Pool Terminal Process
MPTP	Monitoring Position Terminal Process
MPTTP	Modem Pool Terminating Terminal Process
MPU	Module/Message Processor Unit
MPUP	Module Packet Unloading Process
MRAU	Module Routine Audits (Process)
MRD	Message Retrieval Display
MRF	Maintenance Reset Function
MS	Measurements
MS	Message Switch
MS	Mobile Stations
MSA	Microstore Address Bus
MSB	Message Sampling Board
MSC	Message Service Center
MSC	Message Switch Controller
MSC	Mobil Switching Centers
MSCU	Message Switch Control Unit
MSCU2	Message Switch Control Unit - Model 2
MSCUCON	Message Switch Control Unit Configuration
MSD	Message Sequence Diagram
MSD	Microstore Data Bus
MSDRV	Message Switch Driver
MSG	Message
MSG	Message Switch
MSG2	Message Switch, Model 2
MSI	Message Service Indicator
MSKP	Message Switch Kernel Process
MSL	Mapping Specification Language
MSL	Mode Select Logic
MSM	Message Switch Maintenance
MSPC	Message Switch Peripheral Controller
MSPP	Message Switch Peripheral Processor
MSPU	Message Switch Peripheral Unit
MSS	Message Service System

MSU	Master Scanner Unit
MSU	Message Signal Unit
MSU	Metallic Service Unit
MT	Magnetic Tape Unit
MTB	Manual Toll Board
MTB	Metallic Test Bus
MTC	Magnetic Tape Controller
MTCB	MTC Bus
MTCE	Maintenance
MTG	Miscellaneous Trunk Group
MTI	Maintenance Interface
MTI	Message Transport Interface
MTIB	Metallic Test Interconnect Bus
MTP	Message Transfer Part
MTP	Metallic Test Pair
MTP	Monitor Terminal Process
MTS	Message Telephone Service
MTS	Message Time Slot
MTSO	Mobile Telephone Switching Office
MTTF	Manual Test Trunk Function
MTP	Manual Trunk Test Panel
MTRR	Mean Time To Restore
MTTST	Manual Transmission Testing
MTTY	Maintenance Teletypewriter
MTTY PC	Maintenance Teletype Peripheral Controller
MTTYC	MTTY Controller
MTTYPC	Maintenance Terminal Peripheral Controller
MTU	Metallic Test Unit
MTU	Miscellaneous Trunk Unit
MU	Master Unit
MUCSO	Multi-Channel Software Oscilloscope
MUM	Multi Unit Message
MUPH	Multiple Position Hunt
MUPHQ	Multiple Position Hunt With Queuing
MUX	Multiplexer
MVDT	Maintenance VDT
MVP	Multiline Variety Package
MW	Multiway Calling
MWC	Multiway Calling Modular
MWI	Message Waiting Indicator

3.14 N

Acronym	Definition
NAC	Network Access Control
NAC	Network Administration Center
NAC	Normalized Area Code
NAIL-UP	Assign Time Slots Permanently Connected
NAIU	Network Access Interface Unit
NAL	Network Access Lines
NAM	Number Acknowledge Message
NANP	North American Numbering Plan
NAP	Name Private
NAQ	Network Autoquote
NC	Network Clock
NC	Network Control Sub-Subsystem
NC	No Circuit
NCA	Network Control Analysis
NCAI	Non-Idle Call Appearance Inspect
NCCON	Network Clock Configuration
NCD	Network Call Denial
NCEO	Non-Conforming End Office
NCLK	Network Clock
NCMU	Network Clock And Message Unit (Now MICU)
NCP	Network Control Point
NCPE	Network Control Point Emulator
NCSP	Network Control System Process
NCT	Network Control And Timing

NCT	Network Control And Timing Link
NCTE	Network Channel Terminating Equipment
NCU	Network Clock Unit
NEL	Next Event List
NED	Network Entity Discriminator
NEMOS	Network Management Operations Support System
NEN	
NESS	Network Element Services Signaling
NETCOM	Network Committee On Operations And Maintenance
NETS	Nationwide Emergency Telecommunications System
NETSTAR	Network Subscriber Transaction Administrative And Recording System
NG	No Good
NHCMS	Nonhost CMS
NI	National ISDN or Network Interconnect
NI-2	National ISDN-2
NI-3	National ISDN-3
NIM	Network Indication Message
NISDN	National (or Standard) ISDN
NIT	Non-Initializing Terminal
NITS	Non-Interfering Integrated Test System
NLI	Network Link Interface
NM	Network Management
NMA	Network Management Administration
NMC	Network Management Center
NME	Non-Correctable Memory Error
NMI	Nonmaskable Interrupt
NN	National Number
NNDA	Name Number Display Allowed
NNP	Name Number Private
NOC	Normalized Office Code
NP	Node Processor
NPA	Numbering Plan Area
NPD	Numbering Plan Digit
NPM	N-Channel Performance Monitor
NR	Number Received
NRA	Network Remote Access
NRAI	Network Remote Access International
NRM	Network Resource Module
NRP	Network Routing Processor
NRZ	Nonreturn To Zero
NS	Number Services
NSEP	Network Switching Engineering Practice
NSP	Number Services Position
NT	Network Terminal
NT-1	Network Termination Type 1
NT1	Common Carrier Side Network Terminal (Interface)
NT2	Subscriber Side Network Terminal (Interface)
NTC	Network Control And Timing Link
NTP	Non Test Procedures
NTR	No Tests Run
NTS	Network Time Slot
NTTMP	Network Trunk Transmission Measurement Plan
NTU	Notification To Use
NU	Noninterfering Unit
NU	Number Unobtainable
NUI	Network User Identification
NUTS	Nonusage Trunk Scan
NXX	Office Code (Part Of Dialed Number)

3.15 O

Acronym	Definition
O&M	Operations And Maintenances
OA	Operator Actions
OA&M	Operations, Administration, And Maintenance
OAC	Operator Speed Of Answer Consistency
OAMSSR	Operations, Administration, And Maintenance Switching System Requirements
OAP	OSPS Administrative Processor

OAS	Operator Assignment Schedule
OAT	Operator Assignment Tables
OAU	Office Alarm Unit
OC	Overload Control
OCB	Outgoing Calls Barred
OCDN	Original Called Directory Number
OCF	Outward Calling Features
OCL	Operator Communications Link
OCM	Originating Call Model
OCN	SS7 Original Called Number parameter
ODA	Office Data Administration System
ODA	Office Data Assembler
ODB	Office Data Base
ODB	On Demand B-channel
ODBE	Office Data Base Editor
ODD	Office Dependent Data
ODID	Operator Dialing Identifier Digit
ODIN	On Line Data Integrity System
ODL	Optical Data Link
ODL-50	A Pair Of 45Mb/s Optical Data Links
ODP	Office Dialing Plan
OECC	Operator Entered Class Of Charge
OEN	Originating Equipment Number
OF	Office Records
OFC	Office Code
OFIDs	Optioned Feature System IDs
OFL	Off Line
OFR	Office Records
OFS	Optioned Feature System
OGT	Outgoing Trunk
OHD	Off-Hook Delay
OHI	Off-Hook Immediate
OID	Operator Login Identification
OIL	Open Items List
OILD	Overwrite Incremental Loader
OIM	Originating Interface Module
OIT	Operator Interrupt Time
OIU	Office Interface Unit
OKP	Operational Kernel Process
OKTR	Operator Keyed Trouble Report
OLI	Originating Line Identity
OLP	Overlap Outputpulsing
OLS	Originating Line Screening
OM	Output Message
OMC	Outgoing Manual Call
OMS5E	Office Monitoring System For The 5ESS Switch
OMUP	Operation And Maintenance Part (Of Signaling System 7)
ONAL	Off-Network Access Line
ONI	Operator Number Identification
ONL	On Line
ONPA	Originating Numbering Plan Area
ONTC	Office Network And Timing Complex
OOAMSSR	Operations Administration And Maintenance Switch System Requirements
OOB	Out Of Band
OOC	Overlap Originating Controller
OOF	Out Of Frame
OOS	Out Of Service
OOSF	Out Of Service Family Of Equipment
OOSFE	Out Of Service Family Of Equipment
OP	Operate Abstract Device
OP	Operation
OP	Originating Point
OP	Output
OPC	Office Point Code
OPC	Operator Position Circuit/Controller
OPC	Origination Point Code
OPER	OPERational Equipage State
OPIC	Operator Position Interface Circuit
OPOR	Output Port

OPR	Off-Line Printer
OPS	Operator Position Subsystem
OPSP	Off-line Pump System Process
OPT	Operator Position Terminal
OPTP	Off-line Pump Terminal Process
OPTP	Operator's Position Terminal Process
OPVC	Operator Position Voice Circuit
ORB	Office Repeater Bay
ORIG	Originating
ORIG-TP	Originating Terminal Process
ORM	Optically Remote Module (outdated acronym)
OROP	Originating Operator
ORS	Operator Response Simulator
ORTA	Operator Routing And Terminal Allocation
OS	Operator Service
OS	Operating System
OS	Origination Scanner
OSAC	Operator Speed Of Answer Consistency
OSC	Operator Service Center
OSC	Operator Services Capability
OSC	Origination Scan Control
OSCS	Operator Services Class Selector
OSDC	Operator Special Dialed Codes
OSDD	Operations Systems Deliverable Documentation
OSDS	Operating System For Distributed Switching
OSDS-C	Operating System For Distributed Switching - Central Processor
OSDS-M	Operating System For Distributed Switching - Interface Module
OSDS-P	Operating System For Distributed Systems - Protocol Handler
OSM	Originating Switch Module
OSN	Operations Support Network
OSO	Operator Services Office
OSO	Originating Screening Office
OSPID	Operating System Process Identification
OSPS	Operator Services Position System
OSS	Off-Line Support Systems
OSS	Operational Support System
OSSIM	Operational Support System Simulator
OST	Operating System Trap
OST	Originating Station Treatment
OSU	Operator Services Unit
OT	Originating Treatment
OTDX	Originating Toll Digital Exchange
OTLH	(2 Wire) Outgoing Trunk Loop, Hook
OTLM	(2 Wire) Outgoing Trunk Loop, Metering
OTP	Originating Terminal Process
OTRP	Operator Trouble Report Printer
OTTS	Outgoing Trunk Transmission System
OUTWATS	Outward Wide Area Telecommunications Service
OV	Overload Subsystem
OVFL	Overflow
OVR	Overflow
OW	Order Wire
OWS	One Week Schedule
OWT	Operator Work Time

3.16 P

Acronym	Definition
P/AR	Peak To Average Ratio
P48	Parallel Bus With 48 Leads
PA	Program Address
PA	Program Application
PABX	Private Automatic Branch Exchange
PAD	Packet Assembler/Disassembler
PAD	Physical Address
PADL	Page Descriptor Language
PAGS	Paging Supervisor
PAL	Programmed Arrays Of Logic

PAM	Process Administration Module
PAM	Pulse Amplitude Modulation
PAR	Program Address Register
PAS	Protected Application Segment
PAT	Position Acknowledge Timeout
PAT	Position Assignment Table
PAU	Power And Alarm Unit
PB	Packet Bus
PBHC	Peak Busy Hour Calls
PBI	Peripheral Bus Interface
PBP	Packet Bus Port
PBU	Peripheral Bus Unit
PBX	Private Branch Exchange
PC	Peripheral Controller Subsystem
PC	Port Control
PC	Position Controller
PC	Primary Center
PC	Procedures (Capability Unit)
PC	Program Change
PC-BGS	Peripheral Control - Background Scheduler
PC-FGS	Peripheral Control - Foreground Scheduler
PCADB	Peripheral Control And Data Buses
PCB	Printed Circuit Board
PCB	Process Control Block
PCBI	Process Control Block Index
PCBLA	Process Control Block Link Area
PCC	Circuit Switch Data Capability Control Center
PCC	Paired Country Code
PCC	Peripheral Control Channel
PCC	Peripheral Controller Cabinet
PCC	Portable C Compiler
PCCA	Power Control Cabinet 'A'
PCD	Peripheral Control Data
PCF	Peripheral Control Frame/Facility
PCFD	Power Distribution Cabinet
PCFH	Per Call Fault Handler
PCI	Panel Call Indicator
PCI	Panel Control Indicator
PCITS	Peripheral Controller Integrated Test System
PCM	Pulse Code Modulation
PCO	Plant Control Office
PCOP	Port Camp-on Process
PCP	Process Control Process
PCP	Per Call Privacy
PCPEIH	Error Interrupt Handler
PCPMD	Process Maintenance Driver
PCRID	Processor ID
PCS0	Peripheral Chip Selects 0 To 5
PCS	Personal Communications Services
PCSD	Peripheral Controller Subdevices
PCT	Peripheral Configuration Table
PCTF	Per Call Test Failure
PCU	Position Controller Unit
PD	Path Descriptor
PD	Peripheral Device
PD	Power Distribution
PDB	Private Data Block
PDB	Process Data Block
PDD	Post Dialing Delay
Pddb	Path Data Block
PDF	Page Descriptor File/Filter
PDL	Peripheral Diagnostic Language
PDL/5	Peripheral Diagnostic Language
PDM	Pulse Duration Modulation
PDN	Packet/Public Data Network
PDR	Power Down Request
PDS	Page Descriptor Shell
PDU _s	Protocol Data Units
PEATS	Program Evaluation And Test Simulator

PECCA	Palletized Equipment Cabling And Cooling Assembly
PECS	Programmable Electronic Call Simulator
PEH	Peripheral Error Handler
PERFR	Peripheral Fault Recovery
PESA	Peripheral Error Source Analysis
PEX	Public Exchange
PF	Packet Fanout
PF	Power Feeder
PF	Printout Follows
PF	Private Facility
PFA	Private Facilities Access
PFAT	Partial Feature Access Tandem
PFE0	Partial Feature End Office
PFI	Physical Fault Insertion
PFR	Peripheral Fault Recovery
PFT	Power Failure Transfer
PFX	Prefix Index
PG	Pair Gain
PGS	Pair Gain System
PGTC	Pair Gain Test Controller
PGV	Pair Gain Vehicle
PH	Parity High
PH	Path
PH	Physical Layer
PH	Protocol/Package Handler
PHA	Protocol Handler for Asynchronous Transfer Mode
PH4	Protocol Handler 4
PHDB	Path Data Block
PHDB	Protocol Handler Data Bus
PHPCP	Protocol Handler Pump Control Process
PHPUMP	Protocol Handler Pump Software In Protocol Handler
PHV	Protocol Handlers for Voice
PI	Central Processor Intervention
PI	Packet Interface
PI	Peripheral Interface
PI	Program Index
PI	Protocol Interpreter
PI	Packet Interface
PIB	Packet Interconnect Bus
PIC	Peripheral Interface Controller
PIC	Polyethylene Insulated Conductor (Wire Cable)
PIC	Primary Carrier
PIC	Priority Interrupt Controller
PIC2	Presubscribed Intra-LATA PIC/Intra-LATA Toll Carrier.
PICB	Peripheral Interface Control Block
PICB	Peripheral Interface Control Bus
PICOM	Packaging And Interconnection Committee
PICRT	Peripheral Interface Controller Routing Table
PICS	Plug-In Inventory Control System
PICS/DCPR	Plug-In Inventory Control System/Detailed Continuing Property Record
PID	Process Identification
PIDB	Peripheral Interface Data Block
PIDB	Peripheral Interface Data Bus
PIDENT	Program Identification
PIM	Position Interface Module (outdated acronym)
PIN	Personal Identification Number
PINIT	Processor Initialization
PIO	Peripheral I/O Sub-Subsystem
PIP	Plug-In Processor
PIPUMP	Pump Software For Packet Interface
PIR	Program Interrupt Request
PISO	Parallel In Serial Out
PIT	Page Information Table
PK	Program Supplementary Information
PL	Parity Low
PL	Purchase Limit
PLBQ	Purchase Limits Balance Quotation
PLI	Peripheral Link Interface
PLIT	Prohibit Line Insulation Test

PLL	Phase Locked Loop
PLOCK	Process Lock
PM	Path Map
PMJ	Power Major Alarm
PMMP	Pumped Module Message Processor
PMP	Path Movement Protocol
PMS	Picturephone Meeting Service
PMT	Path Map Table
PMU	Precision Measurement Unit
PNDP	Private Network Dialing Plan
PNGW	Packet Network Gateways
PNI	Private Network Interface
PNS	Private Network Services
POC	Peripheral Object Conversion
POCSI	Plain Old Circuit-Switched ISDN Call (Also Known As PODS)
PODS	ISDN Equivalent Of POTS (Also Known As POCSI)
POP	Point Of Presence
POPS	Plain Old Position Seizure
PORTLA	Port Linkage Area
POTS	Plain Old Telephone Service
PP	Port Processor
PPB	Permanent Packet B Channel Packet Switching
PPC	Pump Peripheral Controller
PPCCON	Pump Peripheral Controller Configuration
PPM	Periodic Pulse Metering
PPMCOM	PPM Common Circuit
PPMDB	Periodic Pulse Metering Data Block
PPMU	Periodic Pulse Metering Unit
PPR	Pulse Point Register
PPS	Pulse Per Second
PPSDN	Public Packet Switched Data Network
PPSN	Public Packet Switch Network (Formerly LADT)
PRAM	Protected Random Access Memory
PRC	Primary Rate Carrier
PRE	Protectional Reservation Equipment
PRI	Primary Rate Interface
PRI	Private Rate Interface
PRM	Primitive
PRM	Process Recovery Message
PROC	Processing
PROCALL	Programmable Call Simulator
PROCNO	Process Number
PROCOL	Programmable Call Generator
PROM	Programmable Read Only Memory
PROMUS	Prompt Remotely Operated Memory Updating System
PRR	Post Recovery Report
PRR	Previously Rerouted
PRR	Processor Replacement Retrofit
PRT	Path Record Table
PRX	Processor Controlled Exchange
PS	Packet Services
PS	Protocol Subsystem
PSA	Project Standard Attribute (File)
PSAP	Public Safety Answering Point
PSBR	Primary Segment Base Register
PSD	Position Status Display
PSD	Processor Scanner And Signal Distributor
PSDI	Parallel Serial Data Interface
PSDN	Packet Switched Data Network
PSDP	Circuit Switch Digital Capability Data Port
PSDS	Public Switched Digital Services
PSE	Program Store Enable
PSIU	Packet Switch Interface Unit
PSK	Phase Shift Keying
PSM	Position Switching Module
PSM	Power Switch Monitor
PSN	Private Switch Network
PSN	Public Switch Network
PSPD	Partial Signal/Partial Dial

PSPD	Permanent Signal Partial Dial
PSPDN	Packet Switched Public Data Network
PSPP	PSIU Pump Process
PSS	Packet Switching Service
PSTN	Public Switched Telephone Network
PSU	Packet Switch Unit
PSU-2	Packet Switch Unit - 2
PSUCOM	Packet Switch Unit Common Controller
PSW	Program Status Word
PT	Program Timer
PTC	Port Control Sub-Subsystem
PTP	Position Terminal Process
PTRDB	Pointer Data Block
PTS	Per Trunk Signaling
PTSB	PIDB Time Slot Block
PU	Peripheral Units
PU	Pick Up
PU	Power Unit
PU	Program Update
PUC	Peripheral Unit Controller
PUCDL	Peripheral Unit Controller Data Link
PUCR	Pump Control
PUMPCON	Peripheral Pump Control Software
PUT	Port Under Test
PVC	Permanent Virtual Call/Circuit
PWB	Printed Wiring Boards
PWE	Present Worth Of Expenditure
PWP	Parity/Write Protect
PWR	Power
PWRCONV	Power Converter
PX	Power Cross

3.17 Q

Acronym	Definition
Q	Internal Register
QGP	Quad-Link Gateway Processor
QID	Query Identification
QLI2	Quad-Link Interface Model 2
QOB	Queue On Busy
QPC	Quick Patch Compiler
QRYDB	Query Data Block
QTL	Queuing For Trunk And Lines
QLPS	Quad-Link Packet Switch
QTMS	QLPS TMS
QUANTUM	Easy Reach 700 Calls

3.18 R

Acronym	Definition
R	Release
R	Ring Lead (Of Two Wire Pair)
R-DFI	RSM-Digital Facility Interface
RA	Random Access
RA	Rate Adapt
RA	Recorded Announcement
RA	Release Acknowledge
RA	Remote Access
RA	Resource Allocator
RAC	Rate Center
RADN	Remote Access Directory Number
RAF	Recorded Announcement Frame/Function
RAI	Recorded Announcement Interface
RALU	RAM Arithmetic Logic Unit
RAM	Random Access Memory
RAO	Revenue Accounting Office
RAQ	Rerouted Autoquotes

RAR	Return Address Register
RARAM	Rapid Access RAM
RARAM	Rapid Access Ram
RAS	Remote Alarm Section(Of LAU)
RASB	RISLU Alarm Simulator Box
RASC	Residence Accounting Service Center
RASTP	Remote Alarm Section Terminal Process
RAU	Recorded Announcement Unit
RAU	Remote Alarm Unit
RB	Reverse Battery
RBD	Receive Buffer Descriptor
RBLK	A Read Block Command
RC	Recent Change Subsystem
RC	Remote Concentrator
RC&V	Recent Change And Verify
RC/V	Recent Change And Verify
RC/VFY	Recent-Change And Verify (Subsystem)
RCF	Remote Call Forwarding
RCF	Ringer Continuity Failures
RCI	Routing Control Indicator
RCLK	Receive Clock
RCLK	Remote Clock
RCMAC	Recent Change Memory Administration Center
RCMAS	Recent Change Memory Administration System
RCMAWG	Recent Change Memory Administration Work Group
RCR	Recent Change Report
RCS	Routing Control Service
RCV	Receive
RCV	Recent Change And Verify
RCYC	Ringling Cycles
RD	Read Channel Data Buffer
RDN	Redirecting Directory Number
RDFI	Remote Digital Facility Interface
RDT	Recall Dial Tone
RDT	Remote Digital Terminal
REG	Range Extender With Gain
REJ	Reject
REL	Release
REPT	Report
REQ	Request
REX	Routine Exerciser
RFA	Receive Frame Area
RFD	Receive Frame Descriptor
RG	Register
RG	Ringling Generator (ISLU)
RI	Ring Interface
RI	Route Index
RIAR	Reduce Input Acceptance Rate
RIM	Remote Interface Module (Now RSM)
RIMPCH	RIM PC Handler
RINT	Read Channel Interrupt State
RISLU	Remote Integrated Services Line Unit
RL	Release Link
RL	Repeat Later
RLA	Remote Link Administration
RLI	Remote Link Interface
RLT	Release Link Trunk
RLTCS	Release Link Transfer With Call Splitting
RLTD	Routine Line Test Dispatcher
RM	Feature Remoting Subsystem
RM	Recall Message
RMAC	Remote Memory Administration Center
RMAP	Remote Memory Administration Position
RMAP/ST	Remote Memory Administration Position/Smart Terminal
RMAS	Recent Change Memory Administration System
RMAS	Remote Memory Access System
RMC	Remote Maintenance Console
RMP	Remote Maintenance Processor
RMS	Remote Monitoring System

RMS-D	Remote Measurement System (Digital)
RMT	Remote Maintenance Terminals
RMU	Rotate Mask Unit
RMU	Remote Measurement Unit
RMV	Remove
RN	Redirecting Number
RND	Redirecting Number Delivery
RNDIS	Receive Disable (Active Low)
RNPCM	Receive Pulse Code Modulation
RNR	Receiver Not Ready
RO	Residential Origination
ROH	Receiver Off Hook
ROM	Read Only Memory
ROP	Receive/Read Only Printer
ROPC	Remote Operator Position Controller
ROS	Request Out Of Service
ROSE	Remote Operations Service Element
ROTL	Remote Office Test Line
ROTS	Rotary Out Trunks Selector
RP	Resistor Panel
RP	Radio Port
RPA	Remote Protocol Access
RPAM	Receive Pulse Amplitude Modulation
RPC	Ring Peripheral Controller
RPCM	Read Block Of Peripheral Controller RAM
RPCU	Radio Port Control Unit
RPE	Remote Procedure Error
RPI	Return To Point Of Interrupt
RPLY	Reply
RPM	Remote Packet Module
RPN	Relative Path Number
RPOA	Registered Private Operating Agency
RPSM	Remote Position Switching Module
RPTERR	Report Handler
RQIP	Request In Progress
RR	Receiver Ready
RR	Reroute
RR	Route Relay
RRM	Recall Rejection Message
RRM	Routing Request Message
RRP	Rate And Route Pattern
RRR	Reduce Route Request
RS	Receive Synchronizer
RS	Ring To Silent
RSD	Route Status Display
RSM	Remote Switching Module
RSR	Read Channel Service Request
RSS	Receive Signal State Bits
RSS	Remote Switching System
RST	Channel Status Register
RST	Restore To Service
RSTN	Reset Input To 80188
RSU	Remote Switching Unit
RT	Remote Terminal
RT	Residential Termination
RT	Routing And Terminal Allocation
RTA	Remote Trunk Arrangement
RTA	Routing And Terminal Allocation Subsystem
RTAC	Regional Technical Assistance Center
RTC	Real Time Clock/Counter
RTD	Remote Traffic Diversion
RTD	Round Trip Delay
RTI	Return From Interrupt
RTI	Route Index
RTIME	OSDS Time Relative To Switch Init
RTKD	Respond To Key Data
RTRE	Real-Time Rating External
RTRS	Real Time Rating System
RTS	Real Time Status Report

RTS	Remote Test System
RTS	Request To Send (RS232 Lead)
RTSP	Real Time Status Process
RTTD	Routine Trunk Test Dispatcher
RTTU	Remote Trunk Test Unit
RTU	Right to Use
RU	Receive Unit
RVB	Reverse Battery
RVPT	Revertive Pulsing Transceiver
RVT	Revertive (Signaling)
RWC	Remote Wire Center
RX	Remote Exchange
RXO	Remote Exchange Office
RY	Recovery

3.19 S

Acronym	Definition
S	Setup
S/N	Signal To Noise Ratio
SA	Service Area
SA	Service Assistant
SA	Setup Acknowledge
SA	System Administrator
SAB	Subaccount Billing
SABM	Set Asynchronous Balance Mode
SABM	Stand-Alone Billing Memory
SABME	Set Asynchronous Balance Mode Extended
SABMR	Set Asynchronous Balance Mode Restricted
SAC	Scan Applique Circuit
SAC	Service Access Codes
SAC	Special Area Code
SAC	Store Address Control
SAIS	Semi-Automatic Intercept System
SAP	Service Access Point
SAP	System Alarm Process
SAPI	Service Access Point Identifier
SAR	Store Address Register
SARD	Systems And Requirements Data Base
SARTS	Switch Access Remote Test System
SAS	SAS (Subscriber Alerting Signal) is standard call waiting tone
SAS	Service Announcement System
SAS	Stop And Switch
SASS	Switching Administration Support System
SAT	Store Address Translation
SAU	Secure Access Unit
SBAC	Station Billing Of Attendant Handled Calls
SBC	Single Board Computer
SBR	Segment Base Register
SBR	Standby-Ready
SC	Sectional Center
SC	Series Completion
SC	Service Code
SC	Speed Call
SC	Stable Clear
SC/A	Signal Converter/Allotter
SC/SD	Scanner And Signal Distributor
SC/SDA	Scan And Distribute Administrator
SCA	Shared Call Appearance
SCAD	Subscriber Changeable Abbreviated Dialing
SCANS	Software Change Administration And Notification System
SCB	Stack Control Block
SCBI	SCB Index
SCC	Specialized Common Carriers
SCC	Switching Control Center
SCCOF	Selective Customer Control Of Facilities
SCCP	Signaling Connection Control Part
SCCS	Source Code Control System

SCGS	Switching Control Center System
SCD	System Capability Description
SCF	Selective Call Forwarding
SCH	Serial Channel
SCN	Service Circuit Node
SCNR	Scanner Ring
SCNT	Scanner Tip
SCO	Switch Cut Off
SCOGS	Selected Class of Call Screening
SCOP	System Campon Process
SCOPS	Small Centralized Operator Position System
SCOTS	Surveillance And Control Of Transmission Systems
SCP	Service Control Point SCPN
SCR	Selective Call Rejection
SCR	Store Control Register
SCR	System Capability Recommendation
SCSD	Scanner And Signal Distributor
SCT	Special Confirmation Tone
SCT	Subscriber Call Termination
SCT	Subscriber Carrier Terminal
SCU	Signal Conversion Unit
SCU	System Control Signal
SD	Schematic Drawing
SD	Service Description
SD	Signal Distributor
SDA	Selective Distinctive Alert
SDC	Store Data Control
SDE	Segment Descriptor Entry
SDH	Subdevice Handler
SDHMM	Subdevice Handler Multi Mod
SDHSM	Subdevice Handler Small Office
SDL	Signaling Data Link
SDL	Specification And Description Language
SDL	Synchronous Data Links
SDL-SM	Signaling Data Link Switching Module
SDL/GR	Specification And Description Language/Graphic Language
SDL/PR	Specification And Description Language/Program Language
SDLC	Synchronous Data Link Controller
SDLT	Supplementary Digital Line-Trunk Frame
SDM	Space Division Module
SDN	Software Defined Network
SDN	Switched Digital Network
SND/NRA	Software Defined Network/Number Remote Access
SDOC	Selective Dynamic Overload Control
SDP	Software Demand Paging
SDP	Software Development Process
SDR	Store Data Register
SDRBLK	A Subdevice Read Block Command
SDS	Shared Data Segment
SDSC	Synchronous Data Set Controller
SDSI	SLC-96 Digital Facility Interface
SDST	Software Development System Test
SDT	Special Dial Tone
SDU	Scan And Distribution Unit
SDWBLK	A Subdevice Write Block Command
SE	Service Evaluation
SE	System Engineering
SEC	Service Evaluation Center
SECM	Subscriber Expensive Call Monitoring
SECPT	Security Printer Terminal
SEED	Self Electro-Optic Effect Devices
SEP	Signaling End Point
SEQ	Sequence Data
SETID	Set Identifier
SF	Single Frequency
SF	Status Field
SFG	Simulated Facility Group
SFI	STSX-1 Facility Interface
SFID	Secured Feature ID

SG	System Generation Database
SGD	Semi Global Data Area
SGD	System Generation Database
SGDB	Service Group Data Block
SGEN	System Boot Image Builder For DMERT
SGRO	Special GROWth Equipage State
SGS	Software Generation System
SH	Start Hunt
SHDN	Shared DN
SHT	Short Holding Time
SI	Screening Index
SI	Screening Interface
SI	Shelf Interface
SI	Software/System Integrity Subsystem
SI	Subscriber Incompatible
SI	System Initialization
SI	System Integration
SI	System Integrity Subsystem
SI0	Sequenced Information Zero Frames
SI1	Sequenced Information One Frames
SIB	Subunit Interface Bus
SIC	STS Interface Circuit
SIC	Service Indicator Code
SICO	Switch/System Integrity Controller
SICO	System Integrity Control
SIF	Signaling Information Field
SIGI	Signaling Irregularities
SILC	Selective Incoming Overload Control
SIM	Switch/System Integrity Monitor
SIO	Signaling Information Octet
SIOC	Selective Incoming Overload Control
SIP	Single In-Line Package
SIP	Spooler Input Register
SIPO	Serial In Parallel Out
SIPS	System Integrity For Packet Switching
SIR	Store Instruction Register
SISO	System Integrity Control
SIT	Shared Interoffice Trunk
SIT	Special Information Tones
SIU	Synchronous Interface Unit
SL	Signaling Links
SLA	Signaling Link Available
SLA-EP	Signaling Link Available Emergency Proved
SLA-NP	Signaling Link Available Normally Proved
SLATS	Selected Lines And Trunks System
SLATTS	Selected Line And Trunk Translations
SLC	Signaling Link Code
SLC	Subscriber Loop Carrier/Concentrator
SLC-96	Subscriber Loop Carrier
SLC-RT	Subscriber Loop Carrier Remote Terminal
SLD	Special Long Distance
SLEN	SLC-96 Line Equipment Number
SLG	Standard Line Group
SLIC	Subscriber Line Interface Circuit
SLI	STS-1 Link Interface
SLIM	Subscriber Line Instrument Measuring Circuit
SLIM	Subscriber Loop Instrument Measurements
SLIM	Subscriber Loop Interface Module
SLIM2	Subscriber Line Interface Measurement 2
SLINE	Supplementary Line Frame
SLM	Signaling Link Management
SLM	Synchronous Line Module
SLMC	Signaling Link Management Control
SLP	Single (Physical) Link Procedures
SLPC	Synchronous Link Peripheral Controller
SLS	Signaling Link Selection field
SLT	Signaling Link Terminal
SLT	Supplementary Line Trunk Frame
SLU	Signaling Link Unavailable

SLU	Standard Line Unit
SM	Swap Message
SM	Switch Maintenance (Subsystem)
SM	Switching Module
SM2K	Switching Module 2000
SMARS	Switch Maintenance Analysis And Recovery Strategies
SMAS	Switch Maintenance Access System
SMC	Switch Maintenance Control
SMCT	Standing Malicious Call Trace
SMDR	Station Message Detail Recording
SMER	Switch Maintenance Error Recognition
SMEST	Switch Maintenance Equipment Status Table
SMETDS	Standard MSG Trunk Design System
SMFC	Semi-Compelled Multifrequency Signaling
SMH	Signaling Message Handler
SMICO	Switch Maintenance Integrity Controller
SMIM	Switch Maintenance For The Switching Module
SMKP	Switch Maintenance Kernel Process
SMMP	Service Module Message Processor (Part Of MSGS)
SMMS	Switch Maintenance For The Message Switch
SMP	Switching Module Processor
SMPU	Switching Module Processor Unit
SMS	Service Management System
SMS	Station Management System
SMS	Switch Maintenance Subsystem
SMS	Symbol Management System
SMSI	Simplified Message Service Interface
SMST	SM System Test
SND	Single Number Dialer
SNM	Signaling Network Management
SNU	Signal Not Understood
SO	Service Observing
SOC	Service Observing Circuit
SOCG	Service Order Control Group
SOEC	Service Order Entry Center
SONDS	Small Office Network Data System
SOP	Service Observation Position
SOP	Service Order Processor
SOP	Spooler Output Process
SOS	Subscriber Out Of Service
SOST	Special Operator Service Traffic
SP	Signal Processor
SP	Signaling Point
SPB	Supplementary Protocol Block
SPC	Signaling Point Code (CCITT7)
SPC	Stored Program Control
SPCL	Special
SPCS	Stored Program Control System
SPH	Session Protocol Handler
SPID	Service Profile Identifier
SPL	Sound Pressure Level
SPM	Subscriber Private meter
SPN	Scan Point Number
SPO	Special Overlay Register
SPO	System Process Operations
SPOOL	Simultaneous Peripheral Operations On-Line
SPOTS	Super Plain Old Telephone Service
SPP	Single Process Purge
SPSU	Signal Processor And Switch Unit
SPYDER	Synchronous/Asynchronous Protocol Data Formatter
SQAP	System Quality Assurance Plan
SQD	Supplemental Query Data Query
SR	Silent To Ring
SR	Station Restriction
SRA	Standby-Ready Acknowledgement
SRA	Switching Resource Allocator
SRAM	Static Random Access Memory
SRAT	Stability Run Analysis Team
SRC	Processor Source Bus

SRC	Software Recovery Control
SRDY	Synchronous Ready
SREG	Special Register
SRG	Sleeve Ring Ground
SRL	Singing Return Loss
SRM	Shared Resource Monitor
SRM	Signaling Route Management
SROD	Service Restriction in the Outgoing Direction
SS	Special Screening
SS	Sub System
SS7	Signaling System 7
SSAP	Session Service Access Point
SSB	Special Service Board
SSBR	Secondary Source Base Register
SSC	Special Service Center
SSC	Subsystem Coordinator
SSD	Software Subsystem Description
SSN	Subsystem Number
SSP	Service Switching Point
SSP	Small System Processor
SSP800	Service Switching Point For Basic 800 Service
SSR	System Status Register
SSU	Special Service Unit
SSU	Subsequent Signal Unit
ST	Serving Team
ST	Signaling Terminal
ST	Start
ST-PH	Signaling Terminal Protocol Handler
STA	Synchronous Terminal Adapter
STAT	Status
STAT MUX	Statistical Multiplexing
STBY	Standby
STC	Serving Test Center
STD	Subscriber Toll Dialing
STE	SONET Termination Equipment
STEP	Signaling Transfer and End Point
STF	Some Tests Fail
STFU	Switching Transmission Facility Unit
STG	Standard Trunk Group
STGR	Structural Growth Rate
STIU	Switching Transmission Interface Unit
STLWS	Supplementary Trunk And Line Work Station
STM	Signaling Traffic Management
STMS	Supplementary Time Multiplexed Switch
STORM	Standard Transmission Rate for Optically Integrated Remote Switching Module
STP	Signal Transfer Point
STP	Stop
STPC	Signaling Transfer Point Code
STPH	Signaling Terminal Protocol Handler
STQDB	Serving Team Queue Data Block
STR	Selective Trunk Reservation
STR	Send to Resource
STRM	Signaling Traffic And Route Management
STRM SP	STRM System Process
STS	Software Test System (Presently IITS)
STS	Subscriber Test Station
STS-1	Synchronous Transport Signal
STSX-1	STS-1 Electrical Interface
STSY	SDL/PR Translation System
STU	Standard Trunk Unit
SU	Service Unavailable
SU	Signal Unit
SU	Slave Unit
SU	Software Update
SU	System Update/Generic Retrofit
SUIB	Subunit Interface Bus (Connects SMP & TSIU)
SUPLN	Supplementary Line
SUPR	System Update Procedure
SUSN	Signal Unit Sequence Number

SUT	Switch Under Test
SVI	Service Intercept
SW	Software
SW	Switch
SW	Switch Maintenance
SWC	Six Way Calling
SWEST	Switch Maintenance Equipment Status Table
SXS	Step-By-Step (Switching System)
SYS	System
SYU	Synchronization Signal Unit

3.20 T

Acronym	Definition
T	Terminal
T	Tip Lead (Of Two Wire Pair)
T&A	Toll And Assistance
T&C	Time & Charge
T&M	Talk And Monitor
T&R	Tip And Ring (The Two Local Telephone Wires)
T-LINK	Test Bus (Metallic Link)
T1	24-Channel Digital Carrier
T1FAC	T1 Facility
TA	Telecommunication Administrations
TA	Terminal Adaptor
TA	Test And Access
TA	Toll And Assistance
TAA	Transfer Allowed Acknowledgement
TAC	Test Access Circuit
TAF	Test Analysis Filter
TAMA	Message Detail Recording On Tie Trunks
TAP	Terminal Allocation Process
TAP	Toll & Assistance Position
TAP	Transaction Amount Parameter
TAPE	Tape Drive
TAS	Test Access Slot
TAT	Termination Attempt Trigger
TAU	Test Access Unit
TB/IS	Transaction Block/Integrity System
TBCU	Test Bus Control Unit
TBCU	Trunk Bus Control Unit
TBD	Transmit Buffer Descriptor
TBN	True Billing Number
TC	Teleconferencing
TC	Terminal Controller
TC	Time And Charges
TC	Toll Center
TC	Transaction Capability (CCITT No. 7)
TC	Transient Clear
TC/SC	Transient Or Stable Clear
TCA	Telephone Company Administration
TCAP	Transaction Capabilities Application Part
TCAP	Translation Capabilities Application Protocol
TCB	Timer Control Block
TCBC	To Change
TCBH	Time Consistent Busy Hour
TCBU	Test Bus Control Unit
TCF	Test Call Facility
TCM	Terminating Call Model
TCM	Time Compression Multiplexing
TCM	Traveling Class Mark
TCOC	Traffic Change-Over Control
TCP	Test Control Process
TCS	Terminating Code Screening
TCS	Test Control System
TCT	Toll Connecting Trunks
TCU	Tape Control Unit
TDAS	Traffic Data Administration System

TDATA	Transmit Data
TDB	Task Data Block
TDCLK	Transmit Data Clock
TDCU	Traffic Data Collection Unit
TDM	Time Division Multiplex
TDMA	Time Division Multiple Access
TDN	Time Division Network
TDS	Traffic Data System
TDTP	Traffic Diversion Terminal Process
TDVS	TCM Data Voice Subscriber
TDX	Toll Digital Exchange
TE	Terminal Equipment
TE1	Terminal Equipment Type 1 (ISDN)
TE2	Terminal Equipment Type 2 (Non-ISDN)
TEC	Test Equipment Control Terminal Process
TECTP	Test Equipment Control Terminal Processes
TEI	Terminal Endpoint Identifier
TEMP	Temporary Register
TEN	Terminal Equipment Number
TEN	Trunk Equipment Number
TERA	Trunk Error Report Analysis
TF	Transmitter Formatter (PIDB Interface)
TFA	Transfer Allowed
TFC	Toll Fraud Control
TFC	Transmission Fault Control
TFIU	Transmission Facility Interface Unit
TFOS	Transparency Feature Optioning System
TFP	Transfer Prohibited (SS7 Signal)
TFS	Trunk Forecasting System
TFU	Treated Facilities Unit
TG	Terminal Group
TG	Translation Guide
TG	Trunk Group
TGBL	Trunk Group Busy Lamps
TGI	Terminal Group Identifier
TGN	Trunk Group Number
TGSR	Terminal Group and Station Restrictions
TI	Timer
TIC	Termination Of Interexchange Calls
TIC	Translation Integrity Check
TICB	T Interface Core Breadboard
TID	Tuple Identifier
TIDB	Transmission Interface Data Buses
TIE	Time Interval Error
TIM	Terminating Interface Module
TIM	Treated Interface Module
TIRKS	Trunks Integrated Records Keeping System
TITAN	Transmission Impairment Testing and Analysis
TIU	Treated Interface Unit
TKG	Trunk Group
TKO	Trunk Offering (Service)
TKS	Terminal Key System
TL	Test Logic
TLA	Tuple Level Access
TLDI	Toll Digit Translation Index
TLI	Tool Location Independence
TLM	Trouble Locating Manual
TLM	Trunk And Line Maintenance
TLN	Trunk Link Network
TLP	Transmission Level Point
TLP	Trouble Locating Procedure
TLPR	Trouble Locating Process
TLTP	Trunk And Line Test Position
TLWS	Trunk And Line Work Station
TLWS/MT	Trunk And Line Work Station Metallic Test
TM	Task Manager
TM	Terminal Maintenance
TMCU	Time Multiplexed Control Unit
TMDF	Trunk Main Distributing Frame

TMEH	Terminal Maintenance Exception Handler
TTMS	Time Multiplexed Switch
TMS2	Time Multiplexed Switch Model 2
TMSC	Time Multiplexed Switch Control
TMSCON	Time Multiplexed Switch Configuration
TMSCU	Time Multiplexed Switch Control Unit
TMSGU	TMS Growth Unit
TMSLNK	TMS NCT L-Link
TMSMC	TMS Maintenance Control
TMSP	TMS Processor
TMSU	Time Multiplexed Switch Unit
TMT	Traffic Management
TMTP	Terminal Maintenance Terminal Process
TMUX	Transmission Multiplexer
TN	Telephone Number
TN	Telephone/Terminating Number
TNDS	Total Network Data System
TNEN	Transmit Enable (Active Low)
TNET	Transport Network
TNOP	Total Network Operations Plan
TNS	Transit Network Selection
TOAD	Tools Access Data Base
TOD	Time Of Day
TOLD	Toll Diversion To Attendant
TORC	Time Of Day Originated Recent Change
TOS	Trunk Out Of Service
TOSL	Trunks Out Of Service List
TP	Task Processor
TP	Terminal Process
TP	Test Positions
TP	Toll Point
TP	Trunk Processor
TPAM	Transmit Pulse Amplitude Modulation
TPC	Teleprocessing Controller
TPDF	Tie Pair Distribution Frame
TPT	Test Progress Tone
TPR	Terminating Point Restriction
TPRE	Terminating Point Restrictions Expansion
TR	Technical Reference
TR	Trunk Reservation
TRA	Terminal Resource Allocator
TRBL	Trouble
TRCC	T-Carrier Restoration Control Center
TRCLSI	Translation Routine Class Of Service Information
TRD	Timed Release Disconnect
TRF	Traffic
TRMT	Transmit
TRR	Tip Ring Reversal
TRS	Telecommunications Relay Service
TRXS	TCM Remote Exchange Subscriber
TS	Time Slot
TS16	Time Slot 16
TSA	Time Slot Assign
TSAP	Transport Service Access Point
TSDB	Time Slot Data Blocks
TSI	Time Slot Interchange
TSI	Traffic Service Index
TSIU	Time Slot Interchange Unit
TSM	Time Slot Multiplexer
TSO	Toll Switch Operator
TSP	Traffic Service Position
TSPS	Traffic Service Position System
TSS	Time Sharing System
TSS	Time Slot Set
TSS	Trunk Servicing System
TSSR	Toll Switch System Requirement
TSSS	Toll Switching System Specification
TST	Time - Space - Time
TSTK	Test Trunk

TT	Telephony/Telegraphy
TT	Terminating Treatment
TT	Touch-Tone
TT	Transmission Test Unit
TT	Trunk Termination
TTC	Test Trunk Circuit
TTC	Timed Talk Cut-Off
TTF	Transmission Test Facility/Function
TTIM	Treated Trunk Interface Module
TTL	Transistor To Transistor Logic
TTMC	Transmission Test And Measurement Control
TTP	Terminating Terminal Process
TTP	Transmission Treatment Process
TTP	Trunk Test Panel
TTR	Trunk Trouble Report
TTS	Test Tone Source
TTTP	Talking Trunk Terminal Process
TTU	Transmission/Trunk Test Unit
TTY	Teletypewriter
TTYC	Teletypewriter Controller
TTYMSG	Teletype Message
TU	Tape Unit
TU	Trunk Unit
TUP	Telephone User Part (Of CCITT7)
TUR	Traffic Usage Recorder
TUS	Test Utility System
TV	Transfer Vector
TWC	Three Way Calling
TWX	Teletypewriter Exchange
TYMSG	TTY Message Subsystem

3.21 U

Acronym	Definition
UA	Unnumbered Acknowledge
UAC	Utility Access Circuit
UALU	Universal Analog Line Unit (See LU)
UART	Universal Asynchronous Receiver Transmitter
UATU	Universal Analog Trunk Unit (See TU)
UAV	Unavailable
UBA	Unblocking-Acknowledgement
UBL	Unblocking
UBM	Unsuccessful Backward Failure Message
UC	Utility Circuit
UCA	Unauthorized Centralized Automatic Message Accounting
UCB	Unit Control Block
UCC	Universal Conference Circuit
UCD	Uniform Call Distribution
UCI	Unified Control Interface Of The ISLU
UCONF	Universal Conference Circuit
UCS	User Control String
UCSN	Upper Chip Select (MCS Signal)
UCT	Utility Call Trace
UDT	Universal Tone Detector
UEQP	Unequipped
UI	Unnumbered Information
UI	User Interface
UID	Utility Identification
ULARP	User Level Automatic Restart Process
ULG	Universal Line Group
UNASN	Unassigned
UNAV	Unavailable
UNEQ	UNEQuipped Equipage State
UNEQUIP	Unequipped
UNICAD	Uniform Computer Aided Design
UNIQ	Uniqueness Field - OSDS
UNR	Uncontrolled Not Ready
UPB	Update Bus

UPNNP	Uniform Private Network Numbering Plan
USART	Universal Synchronous/Asynchronous Receiver/Transmitter
USB	Usage Sensitive Billing
USC	Universal Service Circuit
USEC	Universal Services Echo Canceler
USER	User Side Equipment
USOC	Universal Service Order Code
USS	User Support System
USTWC	Usage Sensitive Three Way Calling
UT	Generic Utility (Subsystem)
UTC	Unified Trunk/Telephone Circuit
UTD	Universal Tone Detector/Decoder
UTG	Universal Tone Generator
UTG	Universal Trunk Group
UTP	Unit Test Plan
UTS	Umbilical Time Slot
UUD	User To User Data Message
UUMD	User-To-User Message Data
UXS	Unexpected Stop Dial

3.22 V

Acronym	Definition
V.110	CCITT Recommendation: V-Interface DTE Support By An ISDN
VAD	Virtual Address
VALNPA	Valid Numbering Plan Area
VALNXX	Valid Office Code
VAR	Variable
VAT	Valid Answer Timing
VAX	Digital Equipment Corporation Super-Mini Computer
VBSC	Variable Broadband Switching Capability
VC	Virtual Call/Circuit
VCDX	Very Compact Digial Exchange
VCO	Voltage Controlled Oscillator
VCOX	Voltage Controlled Oscillator
VCS	Virtual Circuit Switched
VDS	Voice Data Set; Provides Basic ISDN (2B+D) Access
VDT	Video Display Terminal
VDU	Video Display Unit
VER	Verify
VF	Voice Frequency
VFD	Vacuum Fluorescent Display
VFL	Voice Frequency Link
VIOS	Visually Impaired Operator System
VIRGOS	Video Interactive Regional Ordering Specification
VIT	Visible Instruction Table
VLA	View Level Access
VLMM	Very Large Main Memory
VLSI	Very Large Scale Integration
VMS	Voice Messaging System
VMWI	Visual Message Waiting Indicator
VN	Virtual Network (Model)
VNL	Via Net Loss
VPA	Voice Path Assurance
VPATH	View Path
VPN	Virtual Private Network
VQ	Voice Quoted
VRCP	Voice Recognition Call Processing
VSA	Voice Switched Attenuator
VSF	Voice Store And Forward
VSS	Voice Storage System
VT	Virtual Terminal
VT	Virtual Tributary

3.23 W

Acronym	Definition
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WATS	Wide Area Telephone Service
WBLK	A Write Block Command
WCA	Write Channel Control/Address Register
WD	Write Channel Data Buffer
WMS	Writable Microstore
WP	Write Protect
WPN	Work Program Number
WS	Wink Start
WSC	Window Status Timer
WSN	Work Station Number

3.24 X

Acronym	Definition
X.21	Circuit-Switched Data Control Protocol For Terminal To Network
X.25	Communications Protocol Used Between MSGS And SM
X.31	CCITT ISDN Packet Mode Terminal Equipment Support Rec.
X.71	X.21 Related Protocol Used Between Circuit-Data Networks
X.75	X.25 Related Protocol Used Between Packet Data Networks
X86	C Compiler For The 8086
XBAR	Crossbar (Switching System)
XID	Exchange Identifier
XIM	Extended Interface Module
XMDR	Expanded Message Detail Recording
XMT	Transmit
XST	Stop Dial Timeout

3.25 Y

Acronym	Definition
YACC	Yet Another Compiler Compiler

3.26 Z

Acronym	Definition
ZCS	Zero Code Suppression
ZS	Zero Suppression

SEC. 7: 5ODA (5ESS SWITCH-2000 OFFICE DATA ADMINISTRATION) USERS GUIDE

1. GENERAL

The 5ODA (5ESS-2000 Switch Office Data Administration) System, is software developed by Lucent Technologies to generate the office dependent database for the 5ESS-2000 Switch machine. The steps required in building a 5ESS-2000 Switch database are:

1. Before any processing of office input data can begin, the System Equipment Engineer (the line engineer) must first register the office (Section 5.1 "Office Registration").
2. After the office has been registered, the Operating Company personnel and the line engineer can begin to enter and/or correct the office input data interactively (Section 4.8 "The DE Command"). Through a separate set of procedures, data can be entered in a bulk mode.
3. The database is verified for errors both during and after the data entry process (Section 6.4 "The CROSSCHECK Command").
4. The System Equipment Engineer determines when the MMST (Multi-Module System Test) and SMST (Switching Module System Test) processes need equipment related data, and transmits this data to a support processor at the Oklahoma City Works (Section 6.9 "The SENDIMST Command").
5. Office records are produced both during and after the data entry process (Section 4.14 "The RECORDS Command").
6. Mapping of the office input data into the base relations occurs after data entry is completed and verified (Section 6.6 "The MAPPING Command")
7. Generation of the fully populated Office Dependent Data for the 5ESS-2000 Switch (Section 6.7 "The DBGEN Command").

Certain of the above responsibilities are performed by the Operating Company personnel and some by the Lucent Technologies Line Engineer. For the sake of clarity, the User's Guide addresses each group separately:

- Telephone Company Commands are used by the appropriate Operating Telephone Company organizations, e.g. the line administrator and the trunk administrator.
- Lucent Technologies Commands are used by the Lucent Technologies SEE (Systems Equipment Engineering) organization (the line engineer).

This user distinction is necessary because a number of 5ODA commands are not for general use. They are intended for use only by the Lucent Technologies Line Engineer who has the overall responsibility for the correct generation of the 5ESS-2000 Switch database via the 5ODA system.

2. GENERAL REQUIREMENTS OF THE 5ODA WORK STATION

The 5ODA user connects from his particular work station to the 5ODA computer via the switched telephone network. The 5ODA work station must consist of the following hardware:

2.1 CRT Terminal

ASCII compatible; full duplex; asynchronous; minimum 80 column by 24 line display; direct cursor addressing; from 1200 bps (bits per second) up to 28,800 bps operation, with a clear line and compression 115,000 bps is possible; upper and lower case keyboard; EIA cable interface; interface to and control of an attached hard-copy line printer. Some currently Supported Terminals (attached printer interface):

VT100 - Digital Equipment
TT4425 - Teletype

Some currently Supported Terminals (no printer interface):

VT52 - Digital Equipment
HP2621 - Hewlett Packard

2.2 Line Printer

Required Configuration: attached to and controlled by ASCII terminal; 132 column print line; tractor feed; 1200 bps (bits per second) operation; EIA cable interface; flow control compatible with controlling terminal.

2.3 Data Set and Phone

Required Configuration: either 1200 bps or up to 28,800 bps operation; modulation and signaling compatible with any of the following specifications: ITU-T, V.34, V.32bis, V.32, V.23, V.22bis, V.22, V.21, Bell212A, Bell103J.

2.4 Cables

EIA cables must be provided to connect the CRT terminal, line printer, data set and phone. The length of the cables and the type of connectors (male/female) depend on the equipment selected.

2.5 Terminal and Modem Configuration

The terminal and modem must be configured to communicate with host using ASCII code, no parity, 10 bits per character (1 start bit, 8 data bits, 1 stop bit).

Please refer to the documentation provided with your terminal and printer for your equipment's set-up options.

A complete list of terminal types compatible with the 5ODA system is not contained in this document due to the fact that this list grows weekly. However, a complete list may be obtained when logging onto the 5ODA system. The introductory login session asks the user to enter terminal type. If the carriage return is typed in response to this question, a complete list of all valid CRT terminals will print.

3. ACCESSING THE 5ODA SYSTEM

Before any user may access the 5ODA system, the operating company office must be registered by the Lucent Technologies Line Engineer. This registration procedure is discussed in detail in the Lucent Technologies Systems Equipment Engineer section of this manual (Section 5.1 "Office Registration").

Once the office is registered, the 5ODA user may connect with the 5ODA system currently at Lucent Technologies located at the Network Software Center 5ODA Production Facility in Lisle, Illinois. The user

interacts with this system from a remote work station via 1200 up to 28,800 bps lines using the toll free number:

For the odutsc machine located at the Network Software Center:

1-800-358-3497

The user can also connect to the remote processor through the Datakit® address:

il/cu/odutsc (U.S. Market)

3.1 Logging On To The 5ODA System

If dialing into a processor, the user will be prompted *Enter username>>*. The user types in the login assigned to him by the Lucent Technologies Line Engineer followed by **<return>**. This login consists of a two letter group ID and a six alphanumeric base and control number. The line administration login consists of li+base and control (e.g., li1234d0). The trunk administration login consists of tr+base and control (e.g., tr1234d0). The Lucent Technologies Line Engineer's login consists of we+base and control (e.g., we1234d0). The read only login used by support personnel consists of re+base and control (e.g., re1234d0).

The next step in logging-on is to enter the password. This password should be obtained from the Regional Line Engineer. After logging on to the system, it is advised that the user execute the *password* command to change the password to one of his/her choice.

- **CAUTION:** Password administration varies from machine to machine and each user is responsible for keeping track of his/her own password in a secure place. The password must be used every time the user logs on. The 5ODA administrator does not know the user's password.

Thereafter, every 8 weeks, the password expires and the user will have to choose a new one. This procedure is followed for security purposes. When the password expires, the user will log in and the system will respond *Your password has expired. Choose a new one. New Password:*. The user should then type in a password of his/her choice, at least six characters long. The password does not appear on the CRT screen as it is typed in. The user is asked to type in the password a second time for verification.

The next time and every time thereafter the user logs on, the system prompts with: *Password:* (if the user is connecting to the remote processor through Datakit). If the user has dialed into the system and logged on, the system prompts with: *Enter user password>>*. The password does not appear on the screen as the user types it in for security purposes. If the user makes a typographical mistake during this log-on procedure, the system prompts with: *Login incorrect. login:* (if the user is connected to the remote processor through Datakit), and the user should try again. If the user is logging in through dialup of the 800 number and makes a typographical mistake while typing in the password, the system prompts with: *Enter user password>>* and the user should try again.

- **NOTE:** Care must be taken when entering your login and password to be sure you enter both with all lower case letters. Using upper case letters will cause problems later on during the log on session.

Once the user has correctly entered both login and password, the system prompts: *Enter your initials (first, middle, last):*. These initials are required during the log-on process because they are used in the generation of printable output. This is explained in detail in paragraph Section 4.18 , "The LISTF Command", of this section.

After the user has correctly entered his initials, the system prompts with: *Enter terminal type or hit return:*.

Pressing the carriage return produces a list of all valid CRT terminal types. The user then identifies the terminal type and enters it.

It is possible that a particular office may have more than one Lucent Technologies order processing at a particular time. For example, an office may start to process a growth ODA while the initial order is still processing. There even may be more than one order for a particular office type, for example G (FITTS Growth). However, using the same login, the user may access either the growth ODA or the initial ODA and specifically the desired order number.

If the above situation exists, the system lists the available databases by the office-type, the Lucent Technologies order-number, and the description of the office-type; it then prompts the user for the ODA number associated with the desired order. If only one office database exists for the desired office-type, the user may enter the correct key letter for the type of office database. Possible valid key letters are:

- G - FITTS Factory Growth Database
- I - Initial Database
- R - Retrofit Database
- M - Off-line Growth Databases
- N - New Non-equipment Off-line Database

When login, password, initials, and terminal type have all been entered correctly, the system prints on the user's CRT screen, information regarding that particular office, such as the office name and type, software release issue, ODA issue and WECO order number. After these messages print, the user has entered the 5ODA system and can begin the job of assembling office data via the 5ODA system commands.

3.2 System Control Characters

When the system is waiting for a command from the user, it prompts the user with *Enter command:*. At this point, the user can enter any valid 5ODA command. (See Figure 1 : "5ODA User Command Summary".)

Certain control characters are available to modify the interaction between the CRT terminal and the 5ODA system. They are:

<return>

- a carriage return is required after every line the user types in.

<CTRL-s>

- suspends the flow of output to the screen. Depress the control key while typing in the letter "s".

<CTRL-q>

- resumes the flow of output to the screen. Depress the control key while typing in the letter "q".

<CTRL-h>

- erases the previous character. Depress the control key while typing in the letter "h". On some terminals, this erase character may be a key labeled "back space".

@

- erases the whole line.

<DELETE> or <BREAK>

- stops execution of a command. Delete or break returns the user to the command level prompt (*Enter command:*). On some terminals, this key may be labeled "rub out".

3.3 Logging Off the 5ODA System

When the user wishes to log off the 5ODA system, he/she responds to the *Enter Command:* prompt by typing in a

3.3.1 <CTRL-d>

This is done by depressing the control key and typing in the letter "d".

This ends the session with the 5ODA system, however the user must still physically hang up the phone.

4. TELEPHONE COMPANY COMMANDS

▪ **NOTE:** If greeted by a menu, proceed to Section 7 ,

The Operating Telephone Company Line and Trunk Administrations have responsibility for the great majority of the office input data and, therefore, have access to the majority of the 5ODA commands. This section of the User's Guide is devoted to these commands. The Lucent Technologies Line Engineer can also execute these commands; however, there are a few additional commands which are restricted and only the Lucent Technologies Line Engineer can execute them. These restricted commands are referred to as Lucent Technologies Company commands and are addressed in Section 6 , "LUCENT TECHNOLOGIES COMMANDS").

The main responsibility of the Telephone Company personnel is data entry. Before the data entry command **de** is explained, discussion of the **helpenv**, **password**, **manual**, **news** and **letter** commands will be helpful.

4.1 The "HELPENV" Command

The help command, **helpenv**, displays on the user's CRT screen useful information about a specified topic. Whenever *Enter command:* is displayed, the user can enter the **helpenv** command using the following format (where | indicates "or").

helpenv [*commands | office | forms | records | offloc*]

The following types of information are available:

commands - all 5ODA user commands and brief description of each.

office - current office information (e.g., base and control, software release issue, etc.).

forms - all form types (see Figure 9).

records - all record types (see Figure 10).

Examples of a valid **helpenv** command are:

helpenv

- generates a list of all the types of information available.

helpenv commands

- generates a list of all valid 5ODA commands.

4.2 The "PASSWORD" Command

The 5ODA system allows the user to change his password at any time using the **password** command. After the user enters the command

4.2.1 password

the system prompts the user for both the existing password and a new password. Since neither the old password nor the new password appears on the screen as the user types it in, the user is asked to type in the new password twice to insure that it is not mistyped.

The new password must be at least six alphanumeric characters. Only the first eight characters of the password are significant (i.e., the computer system reads only the first eight characters). The password must contain at least one non-alpha character. The user must use the new password the next time he/she logs on.

- **CAUTION:** Because there is no way for the system administrator to determine a user's password, the user is responsible for remembering his/her own password and recording the password in a secure place.

4.3 The "MANUAL" Command

The **manual** command prints reference information and instructions on the execution of the specified 5ODA command. Manual pages are designed to be concise descriptions of user commands and can provide the user with a quick and immediate on-line reference. The manual pages print on the user's attached line printer unless the **-s** option is used to divert the output to the user's CRT screen. Manual pages can be printed to regional data centers by using the **prtoreg** command.

Commands executable only by the Lucent Technologies Line Engineer are referred to as Lucent Technologies commands. This status is indicated by a "W" beside the section number which accompanies the manual page command name (e.g., CROSSCHECK(1W)).

Manual pages are based on standard format sections:

NAME

- gives the name and the purpose of the command.

SYNOPSIS

- summarizes the format of the command. Anything listed between square brackets (e.g., [-s]) is optional.

OPTIONS

- lists all of the available options and their descriptions.

DESCRIPTION

- describes the command in detail.

EXAMPLES

- gives examples of usage.

SEE ALSO

- directs the user to other documents and/or manual pages.

WARNINGS

- points out areas of concern and potential problems where applicable.

The command format follows:

manual [-s] [manual-pages(s)] [every] [**userguide**]

The options are:

-s - Prints the specified output on the user's CRT screen. When the -s option is omitted, the output prints to the user's attached printer.

manual-page(s) - Prints the manual page(s) for the specified command.

every - Prints all available manual pages.

userguide - Prints out the *5ODA User's Guide*

Examples of a valid **manual** command are:

manual

- prints a list of all manual pages available since no command is specified.

manual de

- prints the **de** manual page on the user's attached printer.

manual records -s

- prints the **records** manual page on the user's CRT screen.

manual userguide

- prints the 5ODA User's Guide on the user's attached printer.

manual every

- prints all available manual pages on the user's attached line printer.

4.4 The "NEWS" Command

The **news** command is used to keep the user informed of current computer system news. For example, when a user logs into the system he/she may see the following line of text on the screen

news: Xmas phones commands

indicating system news that may be of interest to the user. To find out what this news is, execute the **news** command along with the item you want to see. For the above example, type

news Xmas

and the system news regarding the computer access schedule during the Christmas holidays will be displayed. Because news items are written to all users on that particular machine, some news items may not pertain to 5ODA users. If, after reading the news item, it does not apply, merely ignore it. By typing in **news** without any items, a list of news items available prints on the user's CRT screen.

4.5 The "LETTER" Command

The **letter** command prints messages from the Lucent Technologies Line Engineer or the 5ODA System Administrator. It also informs the user when some 5ODA commands have completed processing (**records**, **crosscheck**). If, immediately after logging on, the user sees the message *You have mail*, he/she can type in

letter

and the messages will print on the user's CRT screen followed by a question mark. The user must then either remove the message file by typing **d** and **<return>** or save the message file by pressing the **<return>** key. If the user does not have any messages, the system responds with *no mail*.

The **letter** command can also be used to send messages. By using the format (where | indicates "or"):

letter *line | trunk | weco*

the user can specify the person receiving the message. The *line*, *trunk* or **weco** options can be used to send messages to the specified person with the same base and control. The user can then type in the message with as many lines as necessary. When the message is complete, enter **<CTRL-d>** on a line all by itself to end the message, send it to specified person, and exit the **letter** command. The *Enter command* prompt is then displayed.

4.6 The "SUGGEST" Command

The **suggest** command is a means for the user of the 5ODA process to suggest enhancements to 5ODA user interface commands. Such suggestions might include: improvements on how existing 5ODA commands work, new commands to aid 5ODA processing, new options to existing commands, or new processing features or services related to 5ODA production.

Please note that this command is not a replacement for current methods of communication regarding day-to-day processing of offices. Do not use the **suggest** to document problems with an office's data, nor any problems that require immediate attention. Neither should this command be used for informational questions, scheduling concerns, or administrative concerns.

The **suggest status** command allows the user to review the status of previously proposed suggestions.

4.7 The "ONLINE" Command

The **online** command tells the user who is logged on with the same base and control. The command lists the login name, the terminal number and the login time for each current user.

4.8 The "DE" Command

The **de** command is the 5ODA interactive data entry command which allows the user to enter, change, review or delete data in the database. The 5ODA system uses the general purpose ODIN system to perform these interactive data entry capabilities.

In the data entry command, select a form and then enter or change the data associated with a single form instance on the specified form (e.g., customer telephone number 5551313). Figure 9 is a list of examples of the forms associated with a User Group (line, trunk, or weco). In the example above, customer TN (Telephone Number) 555-1313 is a form instance on the line form. The user can obtain a list of the forms associated with the line or trunk logins via the **<help>** command within **de** command.

Information is error checked as it is entered with error messages displayed at the bottom of the user's CRT screen. **de** performs two levels of data checking:

Level 1 checks are range and syntax checks of a single field and

Level 2 checks are error checks performed between items within the same instance of a logical form.

While in the **de** command, the user can request that the current form instance displayed on the CRT screen be saved in a file for later printing on an attached printer. Any number of form instances can be queued for printing by responding to *Enter Review, Change-insert or Print with a p*. After execution of the **de** command, the user must then execute the **listf** command to produce a hard-copy **de** printout (see Section 4.18 , "The "LISTF" Command").

The **de** command is executed by typing

de[form name[operation]]

The command prompts for form name and database operation unless these parameters are passed in from the command line. The next section explains the prompts in detail.

Form selection

When the **de** command displays the form selection prompt *Enter name of form:*, the user can make one of three valid responses:

- a valid form name followed by **<return>** (e.g., mlhg)
- enter **<help>** followed by **<return>** to produce a list of all the forms and database operation permissions that the user is allowed to access (see Figure 4)

- **NOTE:** This "help" command must be entered with angle brackets on either side: **<help>**

- or press **<return>** to exit the **de** command and return to the *Enter command:* prompt.

If the user specifies a valid form name , the **de** command verifies that the user is allowed access to that form type (line, trunk, or weco) and proceeds to the database operation prompt. If access to the specified form type is denied, **de** displays

You are not allowed access to this form.

Enter name of form:

The user must then use one of the three options described above. If the user incorrectly enters a form name, **de** displays

Invalid form specified: lne. Try again.

Enter name of form:

If the user responds with **<help>**, **de** displays all the form names the user is allowed to access, along with the database operation permissions that he has been granted for each form. Figure Figure 4 shows a sample of **<help>** message in the **de** command. In that example, the user is allowed to access 11 different forms, and "review" (read only) seven of the forms (indicated by the "r" preceding the form type), but the user can "insert", "review", "update" and "delete" only four of the forms (indicated by the "irud" preceding the form name). Using this **<help>** list, the user can then choose a valid form name. When the user includes the form name on the command line, the user bypasses the form selection prompt and is given the database operation selection prompt. With this option the user can only operate on that form during the **de** session.

4.8.1 Database Operation Selection

After the user has selected a form, a database operation must be specified. When the **de** command displays the database operation prompt *Enter Data Base Operation Code*;, the user enters one of the following four valid database operations- **i**, **r**, **u** or **d** - followed by **<return>**.

i

- to insert a new form instance in the database.

r

- to review without changing an existing form instance in the database.

u

- to update an existing form instance in the database.

d

- to delete an existing form instance from the database.

The database operation prompt displays only those database operations that the user is permitted to use for the selected form (see Figure 5). If the user is allowed only one of the four operations (usually "review"), **de** does not display the prompt since the user has no choice, but moves directly to a full-screen display of a "blank" form instance of the selected form (see Figure 6 and Figure 7).

The command line also accepts an operation (**r**, **i**, **u**, **d**) when the form type is entered on the command line. The user is placed into that operation for that form, bypassing the form selection and database operation prompt. If the user is not allowed to make that operation, a message is printed telling the user that he/she will be placed into review mode. With this option the user can only execute that operation on the given form for that **de** session.

Database Operation Restrictions

In some cases update and delete operations may be restricted for a single form instance rather than for an entire form. These restrictions would most likely be applied for retrofit or off-line growth offices. The restrictions would probably be applied to data that has been dumped from an existing 5ESS-2000 Switch.

In addition to form and database type, the restrictions are based on a particular data field found on each form instance. It will be located in different areas on the form, but is generally on the last (or only) page in the top right corner. The legal values are:

E - data dumped from an existing 5ESS-2000 Switch.

C - data from an existing switch that has been changed.

N - new data that has been added to existing data.

The field may also be blank.

The user is not restricted from choosing the update or delete operation. However, before the actual update or delete is performed, a check is executed to determine if the operation is allowed. If the chosen operation is restricted, the user receives one of the following messages, depending on the operation chosen:

Deletes are not allowed on data of type _ on form type _____.

Updates are not allowed on data of type _ on form type _____.

The user is not allowed to perform the requested operation.

An exception to the update restriction is that certain forms may allow non-critical data fields to be updated, overriding the update restriction. On these forms, the user can only position their terminal cursor on those special fields to update. The rest of the fields are shown in a no-change display mode. Depending on the user's terminal type, the no-change fields are displayed at half screen intensity.

The **restrict** command reports on the forms that have database operation restrictions and the forms with special field update privileges.

Data Entry Session

If the user chooses the insert or update modes, he/she has the facility for changing data values via the change/substitute mode.

Change mode is entered by responding with a "c" to a form operation prompt. The field to be changed is identified by entering the field number in response to the Change field prompt. When the user enters the new data, it is subjected to new error checking. Entering **<return>**, back tab, or abort in response to the Change field prompt, serves to exit change mode and the cursor moves to the form operation prompt. If the user enters a field number that is not on the current screen (multi-screen forms), then the appropriate screen is displayed automatically and processing continues.

Substitute mode is a facility for changing data values in a form. Substitute mode differs from change mode in that it allows substitution of strings within a field rather than forcing the user to re-enter the entire data value when it is necessary to change a field. A field to be changed is identified by entering a field number in response to the Substitute field prompt. In addition to the field number, the operator must respond to the *From string:* and *To string:* prompts which identify the existing string and the replacement string within the field, respectively. Normal data checking is then performed on the new field. Care must be observed when using the substitute mode to uniquely identify the string of data within the field to be changed.

If the user enters a field number that is not on the current screen (multi-screen forms), then the appropriate screen is displayed automatically and processing continues. Entering **<return>**, backtab or abort in response to the Substitute field prompt serves to exit substitute mode and the cursor moves to the form operation prompt.

Once a database operation has been specified, a "blank" form (or the first screen of a multi-screen form) is displayed. If the backtab (<) control character is entered in the first field of a form, the system will terminate the current database operation and return the operator to the form type selection prompt. If the backup (^) control character is entered in the first field of the form, the system will terminate the current database operation and return the user to the database operation prompt. The screen is not cleared before displaying this prompt, making operation switches on the same form type a quick process. The operator may respond with a database operation code (i, r, u or d) or a control character as described above. (See Figure 2 at the back of this manual, or use the **manual** command to see the manual page for **navigate**.)

To exit from the **de** command, the user responds to the form selection prompt *Enter name of form:* with **<return>**.

The user is provided with a complete set of data entry control characters which conserve keystrokes and allow navigation through the form displayed on his CRT screen (see "Figure 2 : "5ODA Data Entry Control Characters"). Navigational control characters may also be attained by entering a "?" during data entry.

Once the user has entered **de**, depending on his database permissions, he can insert a new form instance; review, update or delete an existing form instance; or request that the current form instance be printed. The

listf command must be executed to receive a hard copy printout of the **de** command. (See Section 4.18 "The LISTF Command".)

4.9 The "DBSTATUS" Command

The **dbstatus** command is an informative command that tells the user the state of the forms database, either "frozen" (locked) or "thawed" (unlocked). When the crosscheck command is executed by the Lucent Technologies Line Engineer, the forms database is marked as "frozen". This means the database is locked and no data entry is allowed. In order to unlock the database, the Line Engineer must execute the **thaw** command.

The following format

dbstatus

tells the user whether data entry is allowed at this time.

4.10 The "RESTRICT" Command

The **restrict** command reports on forms that have database operation restrictions for particular database operations (insert, delete, update). Database operation restrictions are placed on data that has been dumped from an existing 5ESS-2000 Switch for Retrofit and Large Terminal Growth offices.

A report displays the form, the data type and the restrictions associated with that form's data type. Also, forms that allow special field updates on restricted data are indicated by an asterisk following the form name.

By using the following format

restrict

the user will be told what database forms have database operation restriction.

4.11 The "ALLFORMS" Command

The **allforms** command reads the database (see Figure 3) and produces all form instances of one, or more, or every form type present in the database in CRT screen image.

Using the following format

allforms [*form name(s) | user group | every*]

the user requests that the specified form(s) be processed.

form name(s) - individually or as a list of one or more valid form names separated by blanks (e.g., "mlhg" or "mlhg lcc ldit trunk").

user group - all the forms associated with a user group (e.g., "lines", "trunks" or "weco"), where "lines" is the group of all customer line forms, "trunks" is the group of all trunking and routing/charging forms, and "weco" is all equipment forms. Figure 9 lists examples of forms that are associated with each user group.

every = every or all forms.

When the **allforms** command is submitted, it is processed as a background process, and the user is notified via the **letter** command when it has finished. When **allforms** command has completed, the user must then

execute the **listf** command to produce a hard-copy **allforms** printout. (See Section 4.18 "The LISTF Command".)

The following are examples of valid **allforms** command lines:

allforms tkgrp

- generates all form instances of the tkgrp form.

allforms lcc rar tkgrp

- generates all form instances of the lcc, rar and tkgrp forms.

allforms weco

- generates all form instances of every form in the group "weco".

allforms deficient

- generates all form instances for forms defined as "deficient". (Deficient forms are those whose data may not be valid.)

allforms every

- generates all form instances of every form type.

- **CAUTION:** Executing **allforms every** takes extremely long to run and generates a lot of output. Use of this command is discouraged since the records command effectively gives the same output in a more condensed format, and is much faster. (See Section 4.14 "The RECORDS Command".)

allforms

- no forms are specified so the **allforms** command prompts the user with *Enter form type(s)*. The user must then respond with a form type or form type category as described above.

4.12 The "ERRFORMS" Command

The **errforms** command reads the database (see Figure 3) and produces in CRT screen image only those form instances of specified form types present in the database that contain errors and/or warnings.

Using the following format

errforms[*form names | user group | every*][-*nf*]

the user requests that the specified forms be processed.

form name(s) - an individual form name or as a list of one or more valid form names separated by blanks (e.g., "line lcc ldit").

user group - an entire user group of forms (e.g., lines, trunks or weco), where "lines" is the group of all customer line forms, "trunks" is the group of all trunking and routing/charging forms, and "weco" is all equipment forms. Figure 9 lists examples of some of the default forms associated with each user group.

every - all forms

-nf - no-forms option, **errforms** suppresses mask images, while displaying form key information along with Level 1 and Level 2 error and warning information. This option greatly reduces the output of the attached printer.

When the **errforms** command is submitted, it is processed as a background process and the user is notified

via the **letter** command when it has finished. When **errforms** command has completed, the user must then execute the **listf** command to produce a hard-copy **errforms** printout (see Section 4.18 "The LISTF Command").

Examples of a valid **errforms** command lines are:

errforms tkgrp

- generates those form instances of the tkgrp form that contain errors and/or warnings.

errforms lcc rar tkgrp

- generates those form instances of the lcc, rar, and tkgrp forms that contain errors and/or warnings.

errforms wecoR

- generates those form instances of every form in the user group "weco" that contain errors and/or warnings (see Figure 9).

errforms tkgrp -nf

- generates those form keys of the tkgrp form that contain errors and/or warnings.

errforms deficient

- generates those form instances of every form type that are defined as "deficient". (Deficient forms are those forms which may have invalid data).

errforms every

- generates those form instances of every form that contain errors and/or warnings.

errforms

- since no forms are specified, the **errforms** command prompts the user with *Enter form type(s)*. The user must then respond with a form name or a user group category as described above.

This command is very useful after bulk data has been loaded into the system.

4.13 The "SUMMARY" Command

The **summary** command reads the database (see Figure 3) to produce a hard-copy summary of the form types requested. **summary** produces a count of how many form instances are in the specific forms, the number of forms with errors, and the number of forms with warnings (see Figure 8). This command error checks every record and may take a considerable amount of time to process, so it should be run with this in mind. When **summary** is executed, it processes as a background process and the user is notified when it has completed via the **letter** command.

The **summary** has the following format:

summary [*form(s) | user group | every*]

It requests that the specified form(s) be processed.

form(s) - one or more valid form names separated by blanks (e.g., "mlhg" or "mlhg lcc ldit trunk").

user group - the forms associated with a user group (e.g., "lines", "trunks" or "weco"), where "lines" is the group of all customer line forms, "trunks" is the group of all trunking and routing/charging forms, and "weco" is all equipment forms Figure 9 lists examples of forms associated with each user group.

every - every or all forms.

Having executed the **summary** command, the user must then execute the **listf** command to produce the hard-copy **summary** printout (see Section 4.18 "The LISTF Command").

Examples of a valid **summary** command are:

summary tkgrp

- generates a summary of the tkgrp forms.

summary lcc rar tkgrp

- generates a summary of the lcc, rar and tkgrp forms.

summary weco

- generates a summary of all forms in the user group "weco" (see Figure 9).

summary deficient

- generates a summary of every form type that is defined as deficient (deficient forms are those whose data may not be valid).

summary every

- generates a summary of all forms.

summary

- This example has no form(s) specified, so the **summary** command prompts the user with *Enter form type(s)*. The user must then respond with a form(s) or user group category as described above.

4.14 The "RECORDS" Command

The **records** command reads the database to produce office records (see Figure 3). The output of a **records** command is a tabular printout that closely resembles the 5ESS-2000 switch office record formats.

Using the following format

records [*record(s) | user group | every*]

the user specifies which office records to generate.

record(s) - one or more valid records separated by blanks (e.g., "5101-1 5202 5303").

user group - records in a user group (e.g., "lines", "trunks", "weco" or "brcs") where "lines" is the group of all customer line office records and "trunks" is the group of all trunks and routing/charging office records and "weco" is the group of all equipment office records, and "brcs" is the group of Business and Residence Custom Services office records. Figure 10 lists examples of office records associated with each user group.

every - every or all office records.

Having executed the **records** command, the user must then execute the **listf** command to produce a hard-copy printout (see Section Section 4.18 "The LISTF Command"). When using the **listf** command, the user may print all of the output from the **records** command, or merely parts of it. For example, after executing **records lines** (which produces office records for all the line forms), the user can list all of that output by requesting **listf records**, or list only one office record (e.g., 5104) from the output by requesting **listf 5104**. The **listf** command with the "-changed" option can be used to display only those records which have changed since a given date and time.

For off-line growth processing, form instances that are deleted from existing data are saved in a special data area. When the **records** command is executed, the office records are automatically generated for the deleted form instances. The deleted records can be viewed via the "deletes" option on the **listf** command (see Section Section 4.18 "The LISTF command".)

Examples of a valid **records** command are:

records 5202

- generates the 5202 office record.

records 5100-1 5202 5203 5204 5209 5509 5511

- generates the 5100-1, 5202, 5203, 5204, 5209, 5509 and 5511 office records.

records lines

- generates all office records in the lines user group (see Figure 10).

records every

- generates all office records.

records

- the "records" command without any record numbers specified prompts the user with *Enter record types(s)*. The user must then respond with a record number or record user group category as described above.

The **records** command is submitted to the jobs queue and will be run when system resources will allow. The status of the job (either queued or running) may be checked via the **jobs** command. Upon completion the user who submitted the job is notified via the **letter** command.

4.15 The "SCAN" Command

scan is an interactive command which allows the user to examine an office's input form or base relation data. The files are viewed over consecutive screen images with one column per attribute. By executing

```
scan [file_name] [-d] [-old]
```

the user may view input form data.

file name - input forms should be specified in lower case letters. The base relation file name should be specified in all upper case letters. If the file name is not known, the user may enter **scan** followed by a <return> to display valid input form and/or base relation file names.

-d option provides review access for large terminal growth (non-hardware) delete databases exclusively. Simultaneous examination of input and base relation data is not permitted via the *-d* option.

-old - access the previous software release and/or ODA issue database, which includes input forms and base relation files. No other options can be specified with the "-old" option. The user is given review permission only.

The **scan** command also supports record substitution (global updates) to input forms for Initial offices, however, only the Lucent Technologies SEEs (System Equipment Engineers) can perform this feature. The Line and Trunk engineers are restricted from doing global updates to the data. The SEE sets "Selection Criteria" and global substitutions are made according to the selection criteria the SEE has set. Once the SEE is satisfied with the changes the file must be inserted (updated) back into the original file. Updates are only allowed during the data entry time frame on options available through the editor command.

Key attributes are underlined and repeated on each screen image. "Scan" assumes all attributes are to be viewed. When the screen size is too small then attributes are divided over multiple consecutive screens. For convenience the screen images can be reformatted and customized to view only attributes and data of interest. This is accomplished with the **cut** and **add** commands used interactively within the **scan** command. Records can be scanned in a forward or backward direction in a continuous or single page mode.

Screen width and length can also be modified using the **page size** commands within the **scan**.

Execute the **manual scan** command to obtain information on scan's interval commands to perform any of the features mentioned above.

To exit from the **scan** command, type in the letter "q" (for quit) in response to the prompt (:).

4.16 The "JOBS" Command

The **jobs** command is an informative command which tells the user what jobs are still in the jobs queue.

Four commands, the **records** command, the **crosscheck** command, the **mapping** command, and the **dbgen** command, take longer to run than most other 5ODA commands and could slow down the performance of the computer system if many were submitted at one time. Therefore, these commands are placed in a temporary area where they are executed when computer resources allow.

The format for the **jobs** command is

jobs [-all] [-f]

To find out the status of a command that you entered, execute

jobs

All jobs whose status is either "queued" or "running" will print on the CRT screen. When a job begins processing its status changes from "queued" to "running".

-all - gives the status of all commands in the jobs queue. All jobs for all users will print on the CRT screen.

-f - gives the disk file system for every job, as well as an approximate "percent done" calculation for each running job.

4.17 The "KILLJOB" Command

If a user wishes to cancel a job that is still in the jobs queue and has not yet started running, the **killjob** command can be used to remove that job. This command can be used to cancel **records**, **crosscheck**, **mapping** and **dbgen** commands whose status is "queued". By using the following format (where | indicates "or")

killjob *records | crosscheck | mapping | dbgen*

the user can cancel any one of these commands. However, selectively kill a job cannot be selectively killed if more than one of that type is in the queue. For example, if a user submitted 5 **records** jobs, and executed **killjob records**, all 5 jobs are removed from the queue.

To find out what jobs are still in the jobs queue, execute the **jobs** or the **jobs -all** command.

4.18 The "LISTF" Command

The **listf** command is a general purpose command used to print output previously produced by: **allforms**, **de**, **errforms**, **records**, **scan**, and **summary**. Refer to the appropriate section in this manual for each of these commands. (The output from **crosscheck** command is printed using the **listxk** described in the next section.)

The output of any 5ODA command is placed into a file when the command is executed. The output file name is generated using the name of the executed command with the user's initials (entered when the user logs in) appended as a suffix. For example, if a user logs into the system with initials "abc" and executes the command **errforms**, the output file is labeled "errforms.abc". This file "errforms.abc" remains in storage until the very next time the user with initials "abc" executes **errforms** again, in other words, the new output of **errforms** overwrites the old output, or until the user removes the file (see Section 4.21, "The REMOVE command").

A user may print the output of any command-name he has executed without specifying his initials as a suffix (e.g., **listf summary**) since the **listf** command searches for the output of the command with the user's initials first. If a user wants to print out only his own file(s), no initials are needed, e.g., **listf de**. But, if a user wants to print out a file generated by someone else, then that user's initials must be specified with the command name (e.g., **listf de.mlh**).

In listing the output of the **records** command, the user may request all of his/her output or individual records. For example, if after executing the command **records every** (which produces all office records), the user wanted to look at the output of one office record, 5104, he/she could specify **listf 5104**. In the case of off-line growth offices, all the deleted records may be listed using the *deletes* option. Also, any user can print the output of the records command, no matter who generated it.

The **listf** command has the following format:

```
listf [-u] [-s] [-cN] [-r] [-n] [-errors] [-summary]
[-number][command-name[.initials]][-changed]
```

The options can be specified in any order.

-u - prints the output created through the editor command.

-s - prints output on the user's CRT screen. If omitted, the output is printed on the user's attached hard-copy line printer.

-cN - requests multiple copies of the output where "N" is the number of copies desired. If omitted, one copy is printed.

-r - removes the requested file from the system immediately after printing, thus saving disk space and disk charges. The output of a command remains in storage until (1) the next time the file owner runs the command-name; (2) until the "listf" command is executed with "-r"; or (3) until the user removes the files using the remove command. Only the owner of a file (whose initials are the file suffix) can remove the file.

-n - numbers each line of output.

errors - prints only the crosscheck error messages, without the specific instances of the errors.

-summary - this option is to be used only when printing **errforms** output. This option prints **errforms** output in a summarized format. For example, if a given form had the same Level 1 error for every tuple in the form, the error is listed once with a count of the number of tuples in the form that had that error. Use of this option

greatly reduces the size of the **errforms** output.

-number - skips the first specified number of lines of output.

command-name - prints the desired output file(s). This may include **deletes**, which is data deleted during the offline growth process (specify **listf deletes**)

-changed - lists only those records which have changed since a given time. This option is only valid when used to obtain records output. The user is shown the list of time when the records every and prtoreg listf records commands were run for this office. The user may select any of those times.

Examples of a valid **listf** command are:

listf

- lists the names of all available files along with the dates they were created.

listf de errforms

- prints on the line printer the output of those **de** and **errforms** commands with the user's initials.

listf errforms.mlh

- prints on the line printer that output of **errforms** executed by user "mlh".

listf records

- prints all of the output of the records command.

listf 5505

- prints only office record 5505.

listf -c2 summary -s -r

- prints two copies of the user's **summary** output (since no initials are stated) on the CRT screen, and removes the file immediately after printing.

listf -u editfile

- prints the output of the file "editfile", which was previously created through the editor command.

listf -errors errform.xyz

- prints the output of **errforms** executed by user "xyz" without the warning and in a summarized format.

listf -n 5505

- prints only the office record 5505 with line number in the first column of each line of the output.

listf myfile.xyz

- prints the "myfile.xyz" file which was created by user "xyz" with the write option of scan.

listf -s records -changed

- displays a list of times and asks the user to select one. All records which have changed since the selected time are displayed on the user's terminal.

4.19 The "LISTXK" Command

The **listxk** command prints output previously produced by the **crosscheck** command. See the appropriate section for instructions on the execution of the **crosscheck** command.

Two types of listings can be generated. The first report prints any Level I, II and III checks found by the

crosscheck command. The user may use several options to tailor the output of the checks. The default is for all errors and warnings messages to be printed. The user may choose to print a reduced format of Level I and II checks or not print them at all.

The user can also specify Level III error or warning messages only and limit the number of data lines printed after each error or warning message found. The number of data lines skipped will be printed. The last option allows the user to select packages to run the report on. Packages are discussed in the next paragraph and the default is to report on all the packages.

The second listing option generates a summary of all Level III errors. The report consists of header and four fields separated by tabs. The first field, "Type", tells if the check was an E (Error) or W (Warning). The second field, "Count", gives the number of error conditions for that error. "Package" is the third field. It is the name of the package group where the error occurred. These names can be used in the first report to print only those errors or warnings associated with those packages. The last field, "Name and Number", is the name associated with the error.

The format for the **listxk** command is as follows:

```
listxk [-cN] [-number] [-s] [-summary][[-nf | -I1I2]
[-llimit] [errors] [warnings] [package ... ]]
```

-cN - request multiple copies of the output, where N is the number of copies desired. The -c option may be omitted if only one copy is desired.

-number - skip the first specified *number* of lines of output.

-s - display output on user's CRT screen. If the -s option is omitted, the output is printed on the user's attached line printer.

-summary - print summary listing. The following options are ignored if this option appears on the command line.

-nf - (no forms) suppress CRT input form images, generate key field information along with errors and/or warnings for Level I and II checks.

-rI1I2 - suppress the printing of Level I and II checks.

-llimit - Option to limit the number of lines associated with an error or warning message. If this is omitted, all lines are printed. Level III messages only.

errors - print only the crosscheck error messages, level III messages only.

warnings - print only the crosscheck warning messages, level III messages only.

package - print only messages from the given package. More than one package can be specified, however, only level III messages are printed.

For convenience, options may be specified in any order except that package names must be at the end of the command line.

Examples of valid "listxk" command are:

listxk

- prints the output of the crosscheck command executed by the SEE (System Equipment Engineer).

listxk -summary

- prints a summary report on the number of errors and warnings messages and the number of instances for each message.

listxk -s -l10

- prints output of the crosscheck command to the screen limiting the number of output data lines per Level III checks to 10.

listxk -c2 errors RC TRUNK LINES

- prints 2 copies of the output from the crosscheck command to the line printer for Level III error messages from the "RC", "TRUNK" and "LINE" packages.

4.20 The "RUNXCHECK" Command

The runxcheck command is executed by telephone company users to submit a crosscheck job which the SEE has set up previously via the **crosscheck -sleep** command. For more details, see the crosscheck command under the section "Lucent Technologies Commands".

4.21 The "REMOVE" Command

For efficient utilization of the 5ODA computer, it is recommended that each user of the 5ODA system periodically check the 5ODA file storage area and remove unwanted files. By executing

remove

without any file names, the **remove** command lists all the files in storage which the user is allowed to delete along with the dates that they were created.

A file in storage is the output of a command. The name of this file is the command name with the user's initials appended to the end. For example, if a user with initials "abc" logged into the 5ODA system and executed the command **errforms**, the name of the output file would be "errforms.abc". This file remains in storage until:

- the same user executes **errforms** again (i.e., the new output overwrites the old output).
- the same user executes the **listf** command with the **-r** option, which will remove the file immediately after printing.
- the user executes the **remove** command. To remove a file, execute

remove filename

The Lucent Technologies Line Engineer can remove anyone's files, and only he can remove the output of the **crosscheck** command.

Examples of a valid **remove** command are:

remove

- print all files in storage the user is allowed to delete with the dates they were created.

remove errforms

- removes the output of **errforms**.

remove errforms.abc de.map summary.dje crosscheck

- this command can only be executed by the Lucent Technologies Line Engineer because it is removing the output of commands executed by different people and because it is removing the output of the **crosscheck** command.

4.22 The "TLOCK" Command

The command **tlock** gives a level of security to the restricted user so that he/she may leave a terminal unattended. This also saves the users from having to log off and on when they desire to leave the terminal.

After entering the command, the user is prompted with the office's password. The user can now leave the terminal unattended. To resume the session, enter the office password.

To execute **tlock**, enter:

tlock

The prompt will look like this:

Enter password for <office base and control>:

To resume the session, enter the password.

If the user does not know the office password, **tlock** should not be used because the user will be locked out of the session.

4.23 The "PR SPEED" Command

This command regulates the speed of output from a host machine to a terminal or PC. The command is useful when using a printer attached to a PC running DOS or similar operating system, which does not have flow control to regulate the output to the printer. The above setup sometimes generates garbled output when jobs are sent to the printer, especially when it is a flow printer.

The **prspeed** command slows down the output rate to a level that can be handled by the printer.

The format of the command is:

prspeed (*low* | *med* | *hi*)

The command has three settings for output rate, low, medium, and high. The *hi* setting corresponds to the normal speed. Any one of the options must be specified.

Users having difficulty with their printers may run this command with the *low* or *med* option before running any other command which sends output to the attached printer. The choice of low or medium depends on the performance of the individual printer. If medium does not suffice, then low should be used.

However, once the printing is done, if the user should return control to the screen, **prspeed** should be run again with the *hi* option to resume the output rate to normal. Otherwise, any subsequent interaction on the video screen may be sluggish. If the user wants to run more than one print command in succession, then the user needs to run **prspeed** only once before and once after the print jobs.

The following is an example showing how to use **prspeed** when running two print jobs in succession:

prspeed low

listf records
manual listxk
prspeed hi

The printing times may be slightly extended when **prspeed** to slow down the output rate.

5. THE LUCENT TECHNOLOGIES SYSTEMS EQUIPMENT ENGINEER

This section of the manual addresses the Lucent Technologies Line Engineers who have the overall responsibility for the correct generation of the base relations required by the 5ESS-2000 Switch. The 5ODA commands in this section can only be executed by the Lucent Technologies Line Engineer and are therefore referred to as restricted or WECO commands. The Line Engineer's responsibility in building an office's database can be described in these steps:

- Office registration (Section 5.1 "Office Registration")
- Equipment data entry (Section 4.8 "The DE Command")
- Database validation (Section 6.4 "The CROSSCHECK Command")
- Transmission of the equipment input related data for MMST (Multi-Module System Test) and SMST (Switching Module System Test) (Section 6.9 "The SENDIMST Command").
- Mapping the data into base relations (Section 6.6 "The MAPPING Command").
- Generation of the machine loadable Office Dependent Database (Section 6.7 "The DBGEN Command").

Each of these areas is discussed in detail in this section of the 5ODA User's Guide, except for data entry which is discussed in "Telephone Company Commands" (Section 4).

5.1 Office Registration

Before any processing can be done for a particular office, that office must first be registered by the Lucent Technologies Line Engineer. For this registration process, the Line Engineer must dial up a 1200 bps (bits per second) line or 2400 bps line on the toll free number:

5.1.1 1-800-551-5748

When the system prompts for class, the following must be entered:

lcutsa

The line engineer can also connect to the remote processor through the Datakit® address:

il/cu/lcutsa

The login name and password are:

Login name: 5odareg

password: XXXXXXXX

After entering the SEEs special login and password, the Lucent Technologies Line Engineer continues the log-on process as described in Section 3.1, "Logging on to the 5ODA System". Once the SEE has completed

the log-on procedure, the system prompts him/her for the type of operation to be executed: register a new office or update an existing office (see next section "Office Updating"). If the register option is selected, the system prompts for the type of office to be registered: initial growth, retrofit, large terminal growth, or customer service, and then displays a blank registration form on the CRT screen. The engineer proceeds to enter all the requested information. When the form has been completed, the engineer should request the "insert operation" and this information is submitted for processing to the 5ODA Database Management Organization. After the form is finished and inserted, the engineer is asked if he/she would like to register another new office, update an existing office or exit from the system. Within a few days, the office should be registered, its database initialized and ready for input data entry.

5.2 Updating An Office In The PSS (Production Scheduling System)

Once an office has been registered by the SEE in PSS, it is possible that the data has changed from the time that it was registered it. To update registration data, the SEE should access the system exactly as is outlined in the previous section. The same login is used (5odareg) as well as the same password.

The SEE should select the update option when prompted and then select the type of office that needs updated. Again, exactly as above, the SEE is placed into update mode on a blank form. Once the base and control and weco order number for the office to be updated have been entered, the rest of the existing data is populated on the form. There is a subset of the fields on the form which the SEE may update at this time. Any of the information about the SEE for the specific office (name, phone number, department number), the remarks field and all of the modified date fields have update permission granted to the SEE.

If drastic changes are made to any of the dates, the SEE must be sure to notify the Database Managers either via the telephone (SDN or commercial 708-224-6269) or via a facsimile with the requested change. An example of the above condition would be, the FULLS data for an office is scheduled to be shipped at a time at least a week in the future and the SEE wants to change the PSS dates so that the data is to be shipped on the next day. The Database Management group must be contacted about the change in schedule. Database Management receives listings of the offices which have been modified during the past seven days once a week every Monday. For this reason, any time that the dates are modified so that events will now be occurring during the week in which the change was made, the Database Managers must be contacted via telephone to notify them of the change.

- **WARNING:** The other information which was entered during office registration is critical to the processing of the office. If any of this other information is found to be incorrect, the Database Management group should be contacted immediately to ensure the integrity of the ODD (Office Dependent Data).

When all the desired fields have been updated, the engineer should request the "update operation". Once the form has been updated, the engineer has the opportunity to either update another office, register a new office or exit the system.

6. LUCENT TECHNOLOGIES COMMANDS

6.1 The "HISTORY" Command

The **history** command is a privileged command that can be used only by the Lucent Technologies Line Engineer. When executed, the **history** command lists the date and time that successfully completed **crosscheck**, **mapping**, and **dbgen** commands were initiated for a particular office. The list is summarized with the total number of executions for each type of command.

This command may be helpful to the System Equipment Engineer if there are any questions on the offices

data processing. The history command can be used to obtain a complete processing history for a particular office/Lucent Technologies order number.

6.2 The "GROUPINGS" Command

One of the most important aspects of any data processing system is the method it uses to exercise control over its activities. The 5ODA system uses the **groupings** command to exercise control over who can access a given form and what database access permissions a user may have.

The **groupings** command is a restricted command that can only be executed by the Lucent Technologies Line Engineer.

Initial groups (lines, trunks and weco) are created when the 5ODA administrator initializes an office. See Figures Figure 9 and Figure 10 for examples of these default groups. The group a form or record is in, determine who has what Database permissions (insert, review, update or delete) for a form or record depend on the user group of which the form or record is a member. In other words, if the form "amact" is in the group "lines", then the line administration data entry people have insert, review, update and delete permissions on form "amact". The Lucent Technologies Line Engineer has all four permissions on all three groups (lines, trunks, weco). These permissions may be further restricted (see Section 4.8 "The DE Command").

Using the following format

groupings *forms | records*

the T Line Engineer specifies the type of group files to be modified, either forms or records. Once in the **groupings** command, the user is asked to *Enter form (or record) name and group(s):*. The user enters the name of the form or record to be moved and the group(s) into which it should be moved. Specify all groups in which a form or record is to be included. A form or record is removed from a group by not including it in the new specification. Forms or records which are not changed remain in their original groups.

To get the current status of the three groups, respond to the *Enter form (or record) and group(s):* prompt with **list lines** or **list trunks** or **list weco**.

A groupings session may be aborted at any time by pressing the break key. If no more changes are desired and the changes should be made permanent, enter <ctl-d> to exit from the **groupings** command.

6.3 The "DEFICIENT" Command

The **deficient** command is restricted, meaning only the Lucent Technologies Line Engineer may execute it.

When data is loaded into an office database via batch mode (e.g., COSMOS, VIRGOS, etc.) or when an office is evolved from one ODA issue to another, those forms that have errors are set to "deficient", indicating the data is not valid. Later, during the **crosscheck** run, if a deficient form passes all Level I (range and syntax) error checks and Level II (items within the same instance of a logical form) error checks, it is then marked as "valid". When a form is defined as "valid", it implies that the data in that form is good and that data with errors may not be entered into it. When a form is marked as "deficient" it implies that the data in that form may not be good, and bad or incomplete data may be entered into it by using the *ignore* option in the data entry command **de**.

The **deficient** command is an informative command which tells the Lucent Technologies Line Engineer which forms are currently defined as "deficient". When the command is executed in the following format

deficient

a list of all deficient forms prints on the user's CRT screen.

6.4 The "CROSSCHECK" Command

The **crosscheck** command is restricted, therefore only the Lucent Technologies Line Engineer can execute it. **Crosscheck** reads the database (see Figure 3) and performs database validity and consistency error checks (also called "cross-form error checks") to verify that no crosscheck errors exist from interactive or bulk data entry on any form instances in the database. If any errors are found, the **crosscheck** command produces error/warning messages that inform the line engineer of this condition. These errors must be corrected prior to the execution of the **mapping** command to insure the correct generation of base relations. Mapping assumes good input. If the input is bad, **mapping** could silently generate incorrect base relations.

Although the **crosscheck** command is restricted, the output of the command (i.e., error/warning messages) is available to all users. The output file is generated without any initials appended. In order to receive a printout of the output, the **listxk** command or the **prtoreg** command can be used (see Section 4.19 "The LISTXK command" and Section 6.12 "The PRTOREG command"). The **prtoreg** command can only be executed by the SEE. Through the **prtoreg** command, the hard-copy printout can be sent to any of the 4 region's data centers (e.g., Eastern Region data center), Indian Hill or the NSC. To receive a copy of the output without calling **listxk** or **prtoreg** after crosscheck completes, submit crosscheck with the **-print** option. When this option is used, a hard-copy listing of the output of **listxk -summary** will be sent to the location specified by the user. The user will be prompted for this location when crosscheck is submitted. The available locations are the same as those listed above for the **prtoreg** command.

During the execution of the **crosscheck** command no data entry (**de**) is permitted. If data entry is in progress when **crosscheck** is executed, the **crosscheck** command terminates and indicates who is currently doing data entry. The only exception is if the "weco" option is being used. In such a case, if a telephone company user is in data entry, the person who submitted **crosscheck weco** is informed of the data entry user and asked if he/she wants to continue. If the SEE does not want to proceed, processing is terminated; otherwise, processing continues normally.

At this time, the database is locked to prevent any new personnel from entering data entry in update mode. However, the SEE must wait until any current data entry personnel have exited data entry before the **crosscheck** will run.

The **crosscheck** command locks the database to prevent any data entry. Both Level I data checks (range and syntax checks) and Level II data checks (items within the same instance of a logical form) are performed on deficient forms, i.e., those which allow for input of non-standard data. The **crosscheck** command will fail if Level 1 or 2 errors exist. If all data is valid, then **crosscheck** performs Level III data checks (checks for consistency between forms). Any deficient forms are set to valid if they are error free. The database remains locked when the **crosscheck** command is finished processing. If the line engineer wishes to allow more data entry or data corrections, he/she must execute the **thaw** command to unlock the database (Section 6.5, "The THAW Command"). The line engineer can avoid having to execute **thaw** after the **crosscheck** command has completed by using the **-thaw** option on the **crosscheck** command line.

Using the following format,

crosscheck

the Lucent Technologies Line Engineer initiates database verification. Level 1 and Level 2 error checks are performed on all forms defined as deficient.

Using the following format,

crosscheck weco

the Lucent Technologies Line Engineer initiates data verification on "weco" or equipment forms only. By using the "weco" option on the `crosscheck` command, level 1, level 2 and cross form checks (level 3) are only performed on equipment forms. Execution of **crosscheck weco** must be done in preparation for MMST and SMST processing. But, because this is not full database verification, mapping will not be allowed after a **crosscheck weco** run.

- **NOTE:** Processing will not be terminated if a telephone company user is in data entry. In this case, the person who submitted **crosscheck weco** is informed of the data entry user and asked if he/she wants to continue. If the SEE does not want to continue, the processing will be terminated; otherwise, processing will continue normally.

If a particular form is defined as "deficient" and cannot pass the level 1 and level 2 error checks during a **crosscheck** run, and 5ODA development engineering determines that the level 1 or level 2 data checks should be bypassed on that particular form, and have marked that form as being an "exception" to the `crosscheck` process, the Lucent Technologies Line Engineer may execute

crosscheck anyway

which will not perform level 1 or level 2 checks on that form. This option can be used by the regional engineers on the first `crosscheck` run for each dump of a retrofit or the dump or merge side of a large terminal growth only. They may not use the *anyway* option for initial, hardware growth, new-side large terminal growth, or special service offices.

The **crosscheck** command produces both "error" and "warning ..." type message output. Because warning messages are often informational and require no further action, they may be optionally executed under certain circumstances.

Using the following format,

crosscheck -errors

only the `crosscheck` error messages will be produced. This option is valid for retrofit and initial orders for 5E6 and later. The *-errors* option may only be used if both error and warning messages have been executed on a previous run. If warning message are not executed, the warning message output from the previous run is retained and may be viewed via the `listxk` command.

Using the following format,

crosscheck -print

a hard-copy of Level 3 error checks will be sent to a specified location after **crosscheck** completes. The **crosscheck** command prompts the user for the location when the *-print* option is specified.

Using the following format,

crosscheck -thaw

the database is automatically thawed after **crosscheck** completes with data errors.

Using the *-sleep* option as follows,

crosscheck -sleep

an SEE can set up a "sleeping" crosscheck job. A sleeping crosscheck is one which is not submitted to the queue (i.e., it sleeps), until the telephone company user indicates that it should be queued. A sleeping crosscheck retains the options requested by the SEE, including all printing requests (e.g., the region to which printouts are to be sent, the bin, etc.)

This feature is particularly useful if the SEE wants to run **crosscheck** immediately after a telephone company user completes data entry. Instead of the telephone company user having to call the SEE when he/she is done, potentially late at night or during the weekend, the SEE can submit a sleeping crosscheck. When the telephone company user completes data entry, instead of calling the SEE, he/she can put the crosscheck job in the queue via the **runxcheck** command.

After a sleeping crosscheck has been set up, if anyone runs **crosscheck**, the sleeping crosscheck is removed. This prevents confusion about who should be submitting **crosscheck** and when it should be done. Similarly, once a sleeping job has been submitted to the queue via **runxcheck**, it is removed and cannot be resubmitted.

If the telephone company user enters **runxcheck** and the crosscheck job fails to go to the queue, all error messages are sent to the WECO login for this office. The telephone company user does not see the error messages, as they are not able to correct them. The only exception is if someone is in **de**. The telephone company user is told that someone is in **de** so that he/she can try again later when the person is out of data entry.

Using the following format,

crosscheck -status

the user can see if there is a sleeping crosscheck job for this office. If there is, **crosscheck** tells the user what options were requested for the crosscheck run and when it was submitted.

Using the following format,

crosscheck -remove

the SEE can remove a sleeping crosscheck job. If **crosscheck** is run with the *-remove* option, the user is shown the status of the sleeping crosscheck and asked to verify that he/she really wants to remove it.

The **crosscheck** command is submitted to the jobs queue and is run when system resources allow. Upon completion, the user is notified via the **letter** command. Its status (either queued or running) may be checked via the **jobs** command.

- **NOTE:** If the database is **thawed**, **crosscheck** must be rerun before mapping is allowed to run.

6.5 The "THAW" Command

The **thaw** command unlocks the database (see Figure 3) once it has been locked by the **crosscheck** command. When the database is locked, all users have only review permission on all input forms. Once **thaw** has been executed, the user again has the same database privileges in the **de** command ("Insert", "Review", "Update" and "Delete") that were allowed prior to the database lock.

thaw, executed simply as

thaw

is a restricted command that can be executed only by the Lucent Technologies Line Engineer.

▬ **NOTE:** *If the final crosscheck output or mapping output is good, do not thaw the database.*

6.6 The "MAPPING" Command

The **mapping** command creates the 5ESS-2000 Switch data structures (base relations) from the input forms database (see Figure 3). It is executed after all of the office data has been entered, using the **de** command, and verified using the **crosscheck** command.

mapping is a restricted command that can only be executed by the Lucent Technologies Line Engineer after a crosscheck run has been made. It is the responsibility of the line engineer to ensure that the database is complete and error-free before executing the **mapping** command.

The following progression of commands is recommended for the **mapping** procedure:

1. Enter "crosscheck" to error check the database and automatically lock the database.
2. If there are level 3 errors, then issue the **thaw** command, which unlocks the database and allows database updates. Correct errors, and re-execute the **crosscheck** command.

▬ **NOTE:** If the database has been thawed, **crosscheck** must be re-run before mapping can be run.

1. Enter **mapping** to create the base relations.

The format of the **mapping** command is

mapping

If the line engineer wishes to produce the machine bootable database immediately following the mapping process, he may execute

mapping dbgen

which submits the **dbgen** command to the jobs queue. These two steps may also be done separately (see the "DBGEN" command).

Note that **mapping** does not error check the data. The **mapping** command presumes that all data in the database has been verified, i.e., the data is complete and error-free. Mapping from an incomplete or incorrect database may silently generate inconsistent or erroneous base relations.

The mapping command is submitted to the jobs queue and will be run when system resources allow. Its status (either queued or running) may be checked via the **jobs** command. Upon completion of the job, the user is notified via the **letter** command.

6.7 The "DBGEN" Command

The **dbgen** command is restricted, meaning only the Lucent Technologies Line Engineer may execute it.

The process of constructing a database for the 5ESS-2000 Switch is accomplished by ODA (Office Data Assembly). ODA Provides an on-line method of accepting data (**de**) and produces a set of relation source files (**mapping**). The **dbgen** command is the process that accepts these relation source files as input and

generates the machine readable database that can be pumped to the SMs or booted in the CP.

The line engineer must execute

dbgen

after all data has been entered (**de**), error checked (**crosscheck**), and successfully mapped (**mapping**) to generate a fully populated Office Dependent Database for the 5ESS-2000 Switch.

The **dbgen** command is submitted to the jobs queue and will be run when system resources allow. Its status (either queued or running) may be checked via the **jobs** command. When the job completes, the user is notified via the **letter** command.

6.8 The "EDITOR" Command

The **editor** command allows the Lucent Technologies Systems Equipment Engineer to create and edit free-format files. These files are not part of the ODA database. The primary purpose of the edit files is to communicate detailed data from the Lucent Technologies Systems Equipment Engineer to an ODA administrator. The ODA administrators should be notified by the Lucent Technologies Systems Equipment Engineer that they need to be aware of the information stored in an edit file created with the **editor**. This command can also be used to copy for editing and/or printing output files that were previously created by a 5ODA command (e.g., **crosscheck**). The SEEs can use **editor** to shorten the size of an output file so that they can view or print out a smaller section of the file instead of the whole file.

Several basic file editor functions are available, including the ability to save edit files, and then edit or review them at a later time. The name of the saved file can be specified on the command line,

editor *file-name*

If *file-name* is not specified, the user is placed in a menu displaying options that are available. Included in these options is the ability to edit and/or print a copy of the output of a previously run 5ODA command such as **crosscheck**, **errforms**, and **records**.

Execute the command, **manual editor**, to obtain more information on the options available through the **editor** command.

6.9 The "SENDIMST" Command

The SMST (Switching Module System Test) and MMST (Multi-Module System Test) processes at OCW (Oklahoma City Works) and Joint Venture factories require databases containing the equipment translations data for the respective Switching Modules and office configurations to be tested. The SMST database may contain data originating from many different offices and transmitted by different Lucent Technologies engineers. The MMST database will contain data for only one office.

The SEE handbook software schedule should be referenced to determine the date when the SMST/MMST processes need this data. It is critical that before the office data is sent to the factory via the **sendimst** command, that the System Equipment Engineer execute the **crosscheck weco** command to ensure that the data is error free. When the data is found to be error free, the Lucent Technologies line engineer should execute one of the following commands to transmit the equipment data to the factory for testing.

For U.S. Market offices:

sendimst [-n] [-s]

For international offices processed in the U.S.:

sendimst [-s]

For international offices not processed in the U.S.:

sendimst [[*mach1!...!*]*dest_mach*]

For DSN and toll offices only, the **sendimst** command generates the standard trunk and routing data to support site installation call traffic testing. Toll simulation data is dependent on stable and accurate office equipment information and is therefore generated at this time. Standard toll generation occurs only once per toll/DSN office. This type of toll generation only takes place for domestic software releases.

-n - the user does not want to generate standard trunk and routing data with this **sendimst** run. This option is only available for the domestic software releases. Normally, this is only done if the user planned to execute **sendimst** at a later date, and all of the equipment has not yet been entered into the database.

The standard trunk and routing data may also be generated separately by using the **tollsim5** command. See the next section for a detailed description of this command. This data can only be generated once, that is, once it has been inserted into the office database, additional attempts to add it will fail.

-s - used for offices processed in the U.S. to suppress the hard-copy notification that the factory has successfully received the equipment data. Normally, a printout is sent to the region via the **prtoreg** command when the data is loaded at the factory. The user is asked to verify the destination for the printout when **sendimst** is run. If the -s option is used, only electronic mail is sent.

dest_mach allows offices processed outside the U.S. to specify the target machine for their send. The destination machine defaults to *ocoda0* unless another machine is specified. If another machine or path of machines is specified, the necessary permissions must be in place to allow the electronic transfer of the data.

A log file is maintained containing the date of the last **sendimst** run, for each 5ODA office. This log file has the line engineer's initials appended to the file name (e.g. "imstlog.abc"). The logfile may be viewed by executing the **listf** command (e.g. **listf imstlog.abc**).

If the data is being resent, the user is prompted to enter the reason for the resend (the text detailing the reason should be entered followed by a line containing only a "."). The reason will be sent to the factory engineers along with the data.

If a Telephone company person is in data entry, the user is asked if he/she wishes to continue. If he/she does want to continue, the user is asked if the database should be thawed after **sendimst** completes. If yes, the database is thawed whether **sendimst** completes successfully or not.

6.10 The "GENTLINE" Command

The **gentline** command is used to generate test lines for SLATTS high volume call processing testing. The line data is generated according to requirements specified in the SLATTS Volume Test Lines section of the TG-5 (see Division 2, Section 2M).

The **gentline** command prompts the user for a starting TN. It then sequentially generates test lines beginning with the starting TN. Eight test lines are generated for each line unit defined on the EQLUP form (ten test lines for each 10:1 Concentration Ratio line unit). Upon completion, **gentline** prints a summary of the lines loaded into the office database.

6.11 The "TOLLSIM5" Command

The command **tollsim5** is used to generate standard trunk and routing data. Under normal office processing, this command will be called by **sendimst**.

If the *-n* option is specified when **sendimst** is executed, however, the standard trunk and routing data are not generated, therefore, **tollsim5** is not called. This may be desirable, if the System Equipment Engineer knows he/she will be adding more equipment after sending the database to Oklahoma City. In this case, the SEE may execute **tollsim5** separately from **sendimst**.

6.12 The "PRTOREG" Command

The **prtoreg** command is executed by the Systems Equipment Engineer to produce hard copy listings of previously generated **crosschecks**, **records**, **errforms** and **summary** outputs at the individual data centers. It can also be used to produce hard copy listings of files produced by the **editor** command and the output of the **manual** command.

This command creates the same output as **listf**, **listxk**, or **manual**, but the output is sent to the data center instead of to the attached local printer. The first option to the **prtoreg** command is always **listf**, **listxk**, or **manual**. When the first option is **listf**, the remaining options should be the same as the **listf** command options. Refer to the **listf** section in this manual for more information on the **listf** options, in paragraph Section 4.18, "The LISTF Command".

The usage of the **prtoreg** command with the **listf** option is as follows:

```
prtoreg listf[-u] [-cN] [-r] [-n] [-errors][-summary]
[-number][command-name[.initials]] [-changed]
```

If the first option is **listxk**, the remaining options should be **listxk** options. The usage of the **prtoreg** command with the **listxk** option is as follows:

```
prtoreg listxk[-cN] [-number] [-summary |
[-llimit] [-nf | -r112] [errors]
[warnings] [package ... ]]
```

If the first option is **manual**, the remaining options should be **manual** options. The usage of the **prtoreg** command with the **manual** option is as follows:

```
prtoreg manual [manual-page(s)] [every]
```

The *-s* option normally associated with the **listxk**, **listf**, and **manual** should not be used with the **prtoreg** command because it does not apply to **prtoreg**.

If the size of the output exceeds 5,000,000 bytes, it is divided into multiple print jobs to avoid network congestion problems. The name of each job includes a sequence number so the output can be reassembled in the proper order.

The **prtoreg** command gives the user an option to redirect the output to a region other than the one determined from the order number. For example:

```
Central Region "CE"
  Eastern Region "EA"
  Southwest Region "SW"
```

Southern Region "SO"
Indian Hill Main "IH"
Indian Hill South "IX"
Indian Hill Park "IHP"
Indian Hill West "IW"
Network Software Center "OPR"

6.13 The "OFFLOC" Command

The **offloc** command prints information on offices located on production machines.

offloc [*base_and_control* | *all*]

base and control - reports the office's order number, order type, and the production machine on which it resides.

all returns a complete list of all production offices on the current machine; they are presented in column format, sorted by base and control. This command may be helpful to the user working on several offices located on different 5ODA production machines.

7. SERVICE PROVIDER COMMANDS

Service Provider data engineers are responsible for ensuring the accuracy of the line and trunk data for the switch office. The SEE (Lucent System Equipment Engineer) will work with the Service Provider data engineer to resolve any data conflicts blocking the completion of the ODD (Office Dependent Data) build.

To simplify the process interface for the Service Provider data engineer, users are greeted with a menu-based interface that displays the valid operations that may be performed at a given time. Depending on what other activities are taking place, the contents of this menu may expand or contract.

A complete list of the operations includes the following:

Available steps for dangd0(daginittest):

1. List error forms output
2. List crosscheck output
3. List records output
4. List contents of datasets
5. Data Entry (REVIEW) forms
6. Data Entry (EDIT) forms
7. Scan (5ed REVIEW) forms
8. Run crosschecks
9. View email
10. Change login password

Select a step to run (or "q" to quit):

The office Base_and_control appears in the heading of the menu and the order number appears in parentheses next to it. The user may enter the number associated with the operation to be performed to run that particular application. Note that the index values for each operation may change, depending on whether the preceding operations are available to be run.

Each of these operations are detailed below.

7.1 List error forms output

This step provides access to view output from one or more runs of the intra-form checks processing. If output from multiple runs exists, the user is prompted to select one for viewing:

Available errorforms output:

1. 5e17,1.p11.0 Errors/Summary run #001 by life (May 21 16:20, 9125 bytes)
2. 5e18,1.g14.0 Errors/Summary run #002 by life (Aug 30 15:22, 12011 bytes)
3. 5e18,1.g14.0 Allforms/Summary run #003 by life (Sep 3 11:48, 2157402 bytes)

Select L1/L2 output to view/print ("q" to quit):

The list is arranged from the oldest to the newest. The description provides information on the 5ESS Software Release used, what kind of run was requested, the login ID of the user who requested it, when it completed, and how large is the output.

When the user selects some output to view, the user will see another menu list to determine how the user would like to view the output. Suppose the user selected menu item number 3 in the previous list. Next, the user would see the following:

Available options for 5e18,1.g14.0 L1/L2 output #003 by life:

1. Display summary and allforms
2. Display summary only
3. Display allforms only
4. Send allforms output to printer
5. Remove allforms output for this run

Select an option ("q" to quit):

This menu allows the user to select the type of information to view. Please note that option 4 in the above menu is only available for those sites supporting the UNISON network printing. Other sites may only view the information at the terminal screen. Selecting an item allows users to display the output to the screen for viewing in a paged format.

Note that the last menu item allows the users to attempt to remove the output for the selected run, provided they have permissions to do so. The user may exit each screen by entering a "q" to quit. The system will

return the user to the previous menu until the user quits out of the initial menu to exit the step.

7.2 List crosscheck output

Similar to the previous step, this step provides access to view output from one or more run of the inter-form checks processing. If output from multiple runs exists, the user will be prompted to select one for viewing:

Available crosscheck output to list includes:

1. save_xk.001 (5e17,1.p11.0/1 May 22 15:30)
2. current (5e18,1.g14.0/1 Sep 3 14:52)

Select a crosscheck run to list ("q" to quit) [current]:

The list is arranged from oldest to newest runs. Previous runs are stored as "save_xk.###". In parentheses, the 5ESS Software Release information and the time that the crosscheck run was completed is stored. The user may select output to view by entering the index number or, in this instance, you may view output from the most recent run merely by hitting the carriage return. The "[current]" string at the end of the selection prompt means that, if an empty new line is entered, the command will assume that you want the most current output and will display that for you.

7.3 List records output

This step allows you to view ODA office records output. Due to the size of these products, only output from the latest run is retained and available for viewing. If output exists, the user is prompted to select a records file to view via the following:

The user may enter regular expressions or multiple space-separated names:

Enter "*" to view all of the files under records_recs

Enter "ls" for a listing of the files under records_recs

Enter "q" when finished

Enter file name(s):

As indicated by the instructions, entering a "*" results in the display of all of the records generated when the SEE submitted the last records request. Entering "ls" displays a listing of each of the files found under the records output directory. When the user wishes to exit this step, the user needs to enter a "q".

Suppose the user entered, "5000", at the "Enter file name(s):" prompt. The user then sees another prompt requesting where the user would like the output directed:

Available options for records_recs listings:

1. Display listings to terminal
2. Send listings to printer

Select an option ("q" to quit):

Please note that, as in the previous steps, the printing mechanism is only supported for those sites using the UNISON network printing package. If UNISON is not available at your location, then the user may only display the records output to the terminal screen.

Once the user has completed viewing the records output, the user is returned to the first prompt above, allowing selection of other records-related operations. A "q" is entered to complete the desired transactions

7.4 List contents of datasets

This step is very similar to the records listing step from an interface standpoint. In addition to the records output, however, this step allows the user to select from a list of other directories to view their contents as well.

If this step is selected, the following menu is displayed:

1. crosscheck_xk
2. errorforms_xk
3. records_recs
4. prntfiles_dir
5. dbgstds_rpts
6. mddlog_dir
7. sm2disk_rpt
8. tmp

Select a directory to view ("q" to quit):

Entering the index value of the directory whose contents the user wishes to view yields the next prompt. Suppose the user selects menu item 1. The user sees the following prompt:

The user may enter regular expressions or multiple space-separated names.

Enter "*" to view all of the files under crosscheck_xk

Enter "s" for a listing of the files under crosscheck_xk

Enter "q" when finished

Enter file name(s):

The user may enter a "*" to select all of the files, "ls" to generate a listing of the contents of the selected directory, "q" to quit, or the name(s) of the file(s) to view. If file names or "*" is entered, another prompt requestd how to direct the output:

Available options for crosscheck_xk listings:

Display listings to terminal

Send listings to printer

Select an option ("q" to quit):

Please note that, as in the previous steps, the printing mechanism is only supported for those sites using the UNISON network printing package. If UNISON is not available at your location, then the user may only display the records output to the terminal screen.

Once the user has completed viewing the output, the user is returned to the first prompt above, allowing selection of other data to view. Enter a "q" when the desired transactions are completed.

7.5 Data Entry (REVIEW) forms

This step allows the user to view ODA forms when no edits are needed or desired. It also makes access to the forms possible when other operations have seized control of the ODA forms database in such a manner as to prevent edits. See the next step for details on the available operations and how to use this command interface.

7.6 Data Entry (EDIT) forms

The interactive data entry command allows the user to enter, change, review or delete data in the database. The 5ODA system uses the general purpose ODIN system to perform these interactive data entry capabilities. In the data entry step, select a form and then enter or change the data associated with a single form instance on the specified form (e.g., customer telephone number 5551313). Figure 9 is a list of examples of the forms associated with a User Group (line, trunk, or weco). In the example above, customer TN (Telephone Number) 555-1313 is a form instance on the line form.

Information is error checked as it is entered with error messages displayed at the bottom of the user's CRT screen. The data entry step performs two levels of data checking:

Level 1 checks are range and syntax checks of a single field and

Level 2 checks are error checks performed between items within the same instance of a logical form.

While in the data entry step, the user can request that the current form instance displayed on the CRT screen be saved in a file for later access in the list contents of a dataset step. Screen images will be stored under the `prntfiles_dir` directory. Any number of form instances can be saved by responding to Enter Review, Change-insert or Print with a "p".

The step prompts for form name and database operation unless these parameters are passed in from the command line. The next section explains the prompts in detail.

Form selection

When the data entry step displays the form selection prompt "Enter name of form:", the user can make one of three valid responses:

- a valid form name followed by **<return>** (e.g., mlhg)

- enter **<help>** followed by **<return>** to produce a list of all the forms and database operation permissions that the user is allowed to access (see Figure 4)

- NOTE:** This "help" command must be entered with angle brackets on either side: **<help>**

- or press **<return>** to exit the data entry step.

If the user specifies a valid form name , the data entry step verifies that the user is allowed access to that form type (line, trunk, or weco) and proceeds to the database operation prompt. If access to the specified form type is denied, the step displays

The user is not allowed access to this form. Enter name of form:

The user must then use one of the three options described above. If the user incorrectly enters a form name, the step displays

Invalid form specified: lne. Try again. Enter name of form:

If the user responds with **<help>**, the step displays all the form names the user is allowed to access, along with the database operation permissions that he has been granted for each form. Figure 4 shows a sample of **<help>** message in the data entry step. In that example, the user is allowed to access 11 different forms, and "review" (read only) seven of the forms (indicated by the "r" preceding the form type), but the user can "insert", "review", "update" and "delete" only four of the forms (indicated by the "irud" preceding the form name). Using this **<help>** list, the user can then choose a valid form name. When the user includes the form name on the command line, the user bypasses the form selection prompt and is given the database operation selection prompt. With this option the user can only operate on that form during the session.

Please note that Service Provider data engineers may only edit non-equipment related forms. The equipment forms may be accessed, but no edits are allowed.

Database Operation Selection

After the user has selected a form, a database operation must be specified. When the data entry step displays the database operation prompt "Enter Data Base Operation Code:", the user enters one of the following four valid database operations-**i** , **r**, **u** or **d** - followed by **<return>**.

i

- to insert a new form instance in the database.

r

- to review without changing an existing form instance in the database.

u

- to update an existing form instance in the database.

d

- to delete an existing form instance from the database.

The database operation prompt displays only those database operations that the user is permitted to use for the selected form (see Figure 5). If the user is allowed only one of the four operations (usually "review"), de does not display the prompt since the user has no choice, but moves directly to a full-screen display of a "blank" form instance of the selected form (see Figure 6 and Figure 7).

The command line also accepts an operation (**r**, **i**, **u**, **d**) when the form type is entered on the command line. The user is placed into that operation for that form, bypassing the form selection and database operation

prompt. If the user is not allowed to make that operation, a message is printed telling the user that he/she will be placed into review mode. With this option the user can only execute that operation on the given form for that session.

Database Operation Restrictions

In some cases update and delete operations may be restricted for a single form instance rather than for an entire form. These restrictions would most likely be applied for retrofit or off-line growth offices. The restrictions would probably be applied to data that has been dumped from an existing 5ESS-2000 Switch.

In addition to form and database type, the restrictions are based on a particular data field found on each form instance. It will be located in different areas on the form, but is generally on the last (or only) page in the top right corner. The legal values are:

E - data dumped from an existing 5ESS-2000 Switch.

C - data from an existing switch that has been changed.

N - new data that has been added to existing data.

The field may also be blank.

The user is not restricted from choosing the update or delete operation. However, before the actual update or delete is performed, a check is executed to determine if the operation is allowed. If the chosen operation is restricted, the user receives one of the following messages, depending on the operation chosen:

Deletes are not allowed on data of type *_* on form type _____.

Updates are not allowed on data of type *_* on form type _____.

The user is not allowed to perform the requested operation. An exception to the update restriction is that certain forms may allow non-critical data fields to be updated, overriding the update restriction. On these forms, the user can only position their terminal cursor on those special fields to update. The rest of the fields are shown in a no-change display mode. Depending on the user's terminal type, the no-change fields are displayed at half screen intensity.

Data Entry Session

If the user chooses the insert or update modes, he/she has the facility for changing data values via the change/substitute mode.

Change mode is entered by responding with a "c" to a form operation prompt. The field to be changed is identified by entering the field number in response to the Change field prompt. When the user enters the new data, it is subjected to new error checking. Entering <return>, back tab, or abort in response to the Change field prompt, serves to exit change mode and the cursor moves to the form operation prompt. If the user enters a field number that is not on the current screen (multi-screen forms), then the appropriate screen is displayed automatically and processing continues.

Substitute mode is a facility for changing data values in a form. Substitute mode differs from change mode in that it allows substitution of strings within a field rather than forcing the user to re-enter the entire data value when it is necessary to change a field. A field to be changed is identified by entering a field number in response to the Substitute field prompt. In addition to the field number, the operator must respond to the From string: and To string: prompts which identify the existing string and the replacement string within the field, respectively. Normal data checking is then performed on the new field. Care must be observed when using the

substitute mode to uniquely identify the string of data within the field to be changed.

If the user enters a field number that is not on the current screen (multi-screen forms), then the appropriate screen is displayed automatically and processing continues. Entering **<return>**, backtab or abort in response to the Substitute field prompt serves to exit substitute mode and the cursor moves to the form operation prompt.

Once a database operation has been specified, a "blank" form (or the first screen of a multi-screen form) is displayed. If the backtab (<) control character is entered in the first field of a form, the system terminates the current database operation and returns the operator to the form type selection prompt. If the backup (^) control character is entered in the first field of the form, the system terminates the current database operation and returns the user to the database operation prompt. The screen is not cleared before displaying this prompt, making operation switches on the same form type a quick process. The operator may respond with a database operation code (i, r, u or d) or a control character as described above. (See Figure 2 at the back of this manual.)

To exit from the data entry step, the user responds to the form selection prompt Enter name of form: with **<return>**.

The user is provided with a complete set of data entry control characters which conserve keystrokes and allow navigation through the form displayed on his CRT screen (see "Figure 2 : "5ODA Data Entry Control Characters"). Navigational control characters may also be attained by entering a "?" during data entry.

Once the user has entered the data entry step, depending on the database permissions, he/she can insert a new form instance; review, update or delete an existing form instance; or request that the current form instance be printed.

7.7 Scan (5ed REVIEW) forms

The scan step is an interactive command that allows the user to examine an office's input form or base relation data. The files are viewed over consecutive screen images with one column per attribute. When executed, you will see the following prompt:

Enter (input form name | base relation name | /expr | **<return>** | "q"):

Enter (input form name | base relation name | /expr | **<return>** | "q"):

Once a form name has been entered, the scan step provides help, by typing "h" followed by **<return>**. Suppose the **eqim** form was requested. We do the following to enter the help section:

eqim: h

Help Menu:

0 DISPLAY ALL HELP SECTIONS

1) SCREEN FORMATTING

2) RECORD SCANNING

3) RECORD SELECTION

- 4) FIELD INFORMATION
- 5) WRITING RECORDS TO A FILE
- 6) MULTIPLE FILES
- 7) HELP
- 8) QUIT

Enter help section number(s) [1 or 1,3,4]:

To view a particular item, type the index number followed by **<return>**. Next is what is contained in each help section:

1) SCREEN FORMATTING:

- (c|a) - display fields that can be cut/added.
- (c|a)n - cut/add field n.
- (c|a)1,2,...n - cut/add fields 1,2...n..
- (c|a)n- - cut/add all fields starting from field n.
- (c|a)n-m - cut/add fields in range n to m.
- (c|a)* - cut/add all fields.
- (c|a)/expr - cut/add fields by name using this regular expression.
- p[(l|w|f)] - display current page settings.
- p(l|w)n - change page length/width to size n.
- p# - toggle field number headers printing on and off.

2) RECORD SCANNING:

- (f|b) - forward/backward.
- (f|b)n - forward/backward from record n.
- (f|b)+n - forward/backward from +n records.
- (f|b)-n - forward/backward from -n records.
- (f|b)p - forward/backward one page.
- return-key - one page. (forward or backward mode).

3) RECORD SELECTION:

Setting Selection Criteria:

#/expr - field_number/selection_expression.
 n fld/expr - field_name/selection_expression.
 N[p] fexpr/expr - field_name expression/selection_expression.
 m fexpr/expr - match field_name expression /selection_expression.
 e/expr - every field/selection_expression.

To select forms that do not match an expr replace the "/" with an "!".

Executing Selection Criteria:

r - current record, or number of matching records.
 r# - set current record position at record #.
 + - next record from current record.
 - - previous record from current record.
 [g]/ - [global] record selection.
 ? - display current selection criteria.
 * - CANCEL current selection criteria.

4) FIELD INFORMATION:

- display field name and selection criteria for this field number.
 n fld - display field number and selection criteria for this field name.

5) WRITING RECORDS TO A FILE:

w [file] - write screen image to file. File name has user's initials appended to it. Program will generate a name if not specified.

6) MULTIPLE FILES:

lf [/expr] - list current form names [optional /expr].
 lr [/expr] - list current relation names [optional /expr].
 ^ - current editable files.
 ^ file_name [sort] - edit file_name [option to sort].
 ^ /expr - list forms or relation name that match expr

7) HELP:

h [0,1,...,n] - displays a help menu for the different commands. If the optional section number(s) are include those section are displayed.

8) QUIT:

q - quit the session.

Key attributes are underlined and repeated on each screen image. The step assumes all attributes are to be viewed. When the screen size is too small then attributes are divided over multiple consecutive screens. For convenience the screen images can be reformatted and customized to view only attributes and data of interest. This is accomplished using the **cut** and **add** commands interactively within the step. Records can be scanned in a forward or backward direction in a continuous or single page mode.

To exit from the step, type in the letter "q" (for quit) in response to the prompt (:).

7.8 Run crosschecks

When activated by the Systems Equipment Engineer (SEE), this step will appear in your menu list. It allows the Service Provider Engineer to execute both the errorforms (intra-form checks) and crosschecks (inter-form checks) to validate any changes that were made. Once the command completes, if any errors occurred, you will be notified by email. The errorforms output may be viewed by running the **List error forms output** step above and the crosscheck output may be viewed by running the **List crosscheck output** step above.

7.9 View email

Any step failures or interaction from steps the user runs may be reported to the user in his/her office's mailbox. Each 5ESS Switch office has a mailbox set up on the ODA system. The user's email may be accessed using this step.

7.10 Change login password

The 5ODA system allows the user to change his/her password at any time using this step. When invoked, the system prompts the user for both the existing password and a new password. Since neither the old password nor the new password appears on the screen as the user types it in, the user is asked to type in the new password twice to insure that it is not mistyped.

The new password must be at least six alphanumeric characters. The password must contain at least one non-alpha character. The user must use the new password the next time he/she logs on.

- **CAUTION:** Because there is no way for the system administrator to determine a user's password, the user is responsible for remembering his/her own password and recording the password in a secure place.

5ODA USER COMMAND SUMMARY	
COMMAND	FORMAT AND DESCRIPTION
The following is a list of the valid 5ODA Telephone Company and Lucent Technologies commands that can be entered whenever the 5ODA command level prompt ("ENTER COMMAND:") is displayed at the user's CRT terminal. In all cases the command must be followed by the <return>.	
TELCO and WECO Commands	

allforms	allforms [<i>form-type(s)</i>] [<i>lines</i>] [<i>trunks</i>] [<i>weco</i>] [<i>every</i>] [<i>deficient</i>] Produces all form instances of one or more specified form types present in the database in CRT screen image format.
dbstatus	dbstatus Prints whether the database is frozen (locked) or thawed (unlocked).
de	de [<i>form-type</i>] [<i>operation</i>] Interactive entry of office data into the database via forms displayed on the user's CRT screen.
errforms	errforms [<i>form-type(s)</i>] [<i>lines</i>] [<i>trunks</i>] [<i>weco</i>] [<i>every</i>] [<i>deficient</i>] [<i>-nf</i>] Produces the requested form instances of a form-type(s) that contains errors and/or warnings in CRT screen format.
helpenv	helpenv [<i>commands</i> <i>office</i> <i>forms</i> <i>records</i> <i>offloc</i>] Displays useful 5ODA information.
jobs	jobs [<i>-all</i> <i>-f</i>] Prints jobs that are still in the jobs queue.
killjob	killjob [<i>records</i> <i>crosscheck</i> <i>mapping</i> <i>dbgen</i>] Cancel a job still in the jobs queue that you have submitted.
letter	letter [<i>line</i> <i>trunk</i> <i>weco</i>] Prints or sends messages.
listf	listf [<i>-u</i>] [<i>-s</i>] [<i>-cN</i>] [<i>-r</i>] [<i>-n</i>] [<i>-errors</i>] [<i>-summary</i>] [<i>-number</i>] [<i>command-name[.initials]</i>][<i>-changed</i>] Lists the output of the indicated command name at the user's hard-copy line printer or at the user's CRT screen.
listxk	listxk [<i>-cN</i>] [<i>-number</i>] [<i>-s</i>] [<i>-summary</i>] [[<i>-nf</i> <i>-l1l2</i>] [<i>-llimit</i>] [<i>errors</i>] [<i>warnings</i>] [<i>package. . .</i>]] Lists the output of the "crosscheck" command at the user's line printer or at the user's CRT screen.
manual	manual [<i>command-name(s)</i>] [<i>every</i>] [<i>-s</i>] Prints manual page(s) of 5ODA user commands.
news	news [<i>item . . .</i>] Prints computer system news.
online	online Lists other users with the same base and control currently on the system.
password	password Changes a password.
prspeed	prspeed (<i>low</i> <i>med</i> <i>hi</i>) Decrease or increase printing speed.
records	records [<i>record-type(s)</i>] [<i>lines</i>] [<i>trunks</i>] [<i>weco</i>] [<i>every</i>] Produces office records.
remove	remove [<i>filename</i>] Removes a file from storage.
restrict	restrict Reports on forms that have database operation restrictions.
runxcheck	runxcheck Submits a sleeping crosscheck job to the queue.
scan	scan Interactively examine input form or base relation data.
suggest	suggest [<i>status</i>] Suggest an enhancement to the 5ODA tools.
summary	summary [<i>form-type(s)</i>] [<i>lines</i>] [<i>trunks</i>] [<i>weco</i>] [<i>deficient</i>] Generates a summary of one or more specified form types present in the database.
tlock	tlock Secures unattended terminals.
WECO Only Commands	
crosscheck	crosscheck [[<i>anyway</i> <i>weco</i>] [<i>-print</i>] [<i>-thaw</i>] [<i>-sleep</i>]] [<i>-status</i>] [<i>-remove</i>] Verifies the database.
dbgen	dbgen Generate the machine loadable database for the 5ESS Switch.
deficient	deficient Lists all forms currently defined as "deficient".
editor	editor [<i>file-name</i>] [<i>manual</i>] [<i>list</i>] Edit files other than ODA database files.
gentline	gentline

	Generate test lines for SLATTS volume call processing testing.
groupings	groupings <i>forms records</i> Change the groupings of forms or records.
history	history Lists processing history for a particular office/AT&T order number.
mapping	mapping <i>[dbgen]</i> Generates the base relation data structure.
offloc	offloc <i>[base_and_control all]</i> List office location for production machines.
prtoreg	prtoreg (see listf , listxk , or manual command line) Produce hard copy listings of output from the listf , listxk , or manual commands at the regional data centers.
sendimst	sendimst <i>[-n] [-s] or sendimst [[mach1!...!dest_mach]</i> Send equipment translations input data to MMST and SMST to the factory.
thaw	thaw Unlocks the database.
tollsim5	tollsim5 - generates standard trunk and routing test data.

Figure 1 5ODA USER COMMAND SUMMARY

5ODA DATA ENTRY CONTROL CHARACTERS

Certain data entry control characters are available during the interactive form entry process of the "de" command to provide the user with a means of conserving keystrokes as well as allowing navigation through the form instance displayed on his CRT screen. There are also commands which are informational in nature, such as turning on/off the display of help messages in a session. A few control characters (abort, return and back tab) are recognized as responses to system prompts.

Note that the control characters listed below work on most terminals, but may not work on unusual or unsupported terminal types.

The following control characters are single, printable characters. These characters serve as control characters when they are entered as the first and only character into a field, otherwise they are part of a field value. For example, if the end of form command is invoked by the "\$" character, entering a single "\$" invokes the command; entering "\$\$" is not recognized as a command, but as a value and field data checking will occur.

Some terminals are equipped with cursor movement ("arrow") keys and these can be used to quickly move about a form. Cursor movement keys are recognized only at the beginning of a data field; the return key should not be pressed since they are acted upon immediately. Cursor movement keys can be used only for movement between data fields, they cannot be used to back out of the first data field or in response to a system prompt on the command line. The four cursor movement keys and corresponding commands are:

- up arrow invokes back up,
- down arrow invokes return,
- left arrow invokes back tab,
- right arrow invokes forward tab.

If the terminal keyboard has program function keys, pressing PF2 will cause the re-display of the current screen. The key sequence escape Q will have the same effect on most terminal types. If any characters had been entered into a field prior to the re-display sequence, they will be discarded.

If a control character is not meaningful, either in an input field or as a response to a system prompt, then it is ignored and the

cursor returns to its original position.

The following is a list of the control characters, along with their default control characters in parentheses. (For a condensed version of this text, execute the "manual" command specifying "navigate" as the manual page.)

VALUE COMMANDS	
123return	Enter a value into a field. To enter a value into an atomic field, type the value followed by "return".
return	No value or response; skip this field or prompt. Pressing the return key only (no characters entered) serves to keep the current value of an input field and go on. In the case of some system prompts, this signifies no response and results in the display of the next or preceding prompt.
null item (')	Set this atomic field to the null (empty or missing) value. In the case of a non-required field, the current field is set to null and is displayed as a string of underscore (_) characters. If the field is required, the message "Required Field!" is flashed in the acknowledgement area and the cursor returns to the beginning of the field.
default value (;)	Set this atomic field to its default value. If a default value exists, it is assigned to the current field. If no default value exists, processing continues as if null item had been entered (see above).
NAVIGATIONAL COMMANDS	
Back up (^)	Back up to the previous field. The current field remains unchanged and the cursor moves to the previous field. If the previous field is a structure or list, the cursor moves to the beginning of the field; if the previous field is on another screen (multi-screen forms), then that screen is automatically displayed. If used repeatedly within a list, the cursor backs up to the beginning of the current row and then backs up within the first column to the beginning of the list.
forward tab (>>)	Skip forward to the next "tab stop". When this command is invoked, the current field remains unchanged and the cursor moves to the next tab stop. If no tab stop exists between the current field and the end of the form, the cursor moves to the form operation prompt on the command line. If the next tab stop is on another screen (multi-screen forms), then that screen is automatically displayed. If a required field that is empty is encountered en route, then the message "Required Field!" is flashed in the acknowledgement area and the cursor moves to that field. If entered when the cursor is positioned at the beginning of a row of a list, the cursor moves to the next tab stop as described above. If the cursor is within a row, but not at the beginning, it is positioned at the beginning of the next row.
back tab (<<)	Back up to the previous "tab stop" or prompt. The current field remains unchanged and the cursor moves to the previous tab stop. If the previous tab stop is on another screen (multi-screen forms), then that screen is automatically displayed. If no previous tab stop exists, the cursor is positioned at the first data field. If entered when the cursor is positioned at the beginning of a row of a list, the cursor moves to the previous tab stop as described above (the first row if the list is tabbed). If the cursor is within a row, but not at the beginning, it is positioned at the beginning of the current row.
next form ())	Retrieve next form.

	If entered into the first keyfield of a form and in a retrieval mode (review, update, delete), the "next" form in the database is retrieved (see "Sequential Retrieval").
previous form (()	Retrieve previous form.
	If entered into the first key field of a form and in a retrieval mode (review, update, delete), the "previous" form in the database is retrieved (see "Sequential Retrieval").
end of form (\$)	Skip to the end of form.
	The current field remains unchanged and the cursor moves to the form operation prompt on the command line. If a required field that is empty is encountered en route, the effect is the same as if forward tab had been entered (see above).
execute (*)	Skip forward to the end of form and perform the form operation.
	Processing continues as if end of form (above) had been entered, followed by the appropriate form operation code (see Database Operations in Section 4.8). This command can also be entered in response to a form operation prompt and will match the current operation code.
abort (!)	Abort this operation.
	If entered into a data field, the active form is discarded, an "aborted" message is flashed in the acknowledgement area, and the cursor moves to the first key field.
	If entered in response to a command line prompt, this command serves to abort the active form. (See "Database Operations" in Section 4.8).
	If entered while in change or substitute modes, this command aborts the change attempt and the cursor returns to the form operation prompt. (See "Database Operations" in Section 4.8).
LIST VALUE COMMANDS	
These commands are recognized only when at the first atomic field in a row of a list.	
null row (*)	Set the current row to null values.
	Each atomic field in the current row is set to the null value. The cursor returns to the beginning of the current row.
default row (:)	Set the current row to default values.
	Each atomic field in the current row is set to its default value. The cursor returns to the beginning of the current row.
insert row (})	Insert a new row at the current location.
	This command is recognized only for compressed type lists. Each row, from the current row to the end of the list, is "pushed down" and a null row is inserted at the current row location. The cursor returns to the current (null) row. If the list is "full" (no null rows), then the message "List is FULL!" is flashed in the acknowledgement area and the cursor returns to the current row.
delete row (!)	Delete the current row.
	This command is recognized only for compressed type lists. The current row is discarded and each row, from the next to the last, is "pushed up" one row position. The last row is set to null values. The cursor returns to the current row location.
copy row (=)	Copy previous row.
	The previous row is copied to the current row. The cursor returns to the current row.
LIST NAVIGATIONAL COMMANDS	
These commands are recognized only when at the first atomic field in a row of a list.	
previous row (!)	Back up one row.
	The cursor moves "up" to the beginning of the previous row in the list. If the current row is the

next row (j)	<p>first row, processing continues as if back up had been entered.</p> <p>Skip to next row.</p> <p>The cursor moves "down" to the beginning of the next row in the list. If the current row is the last row, the cursor moves to the next field.</p>
end of list (#)	<p>Skip to end of list.</p> <p>The cursor moves to the next field following the current list.</p>
INFORMATIONAL COMMANDS	
<p>These commands are recognized in all database operation modes when entered into a field, but not in response to a system prompt.</p>	
help messages (?)	<p>Turn on/off help message display.</p> <p>If help messages are currently being displayed, entering this command will turn off this display starting with the next atomic field. If they are not currently being displayed, and a help message exists for the current field, then it will be displayed on the help line. If no help message exists, then the message "No help available." will be flashed in the acknowledgement area. In all cases the cursor returns to the current field.</p>
current mode (.)	<p>Display current database operation mode.</p> <p>The current database operation mode is flashed as a message in the acknowledgement area (e.g., "Insert mode") and the cursor returns to the current field.</p>

Figure 2 5ODA DATA ENTRY CONTROL CHARACTERS

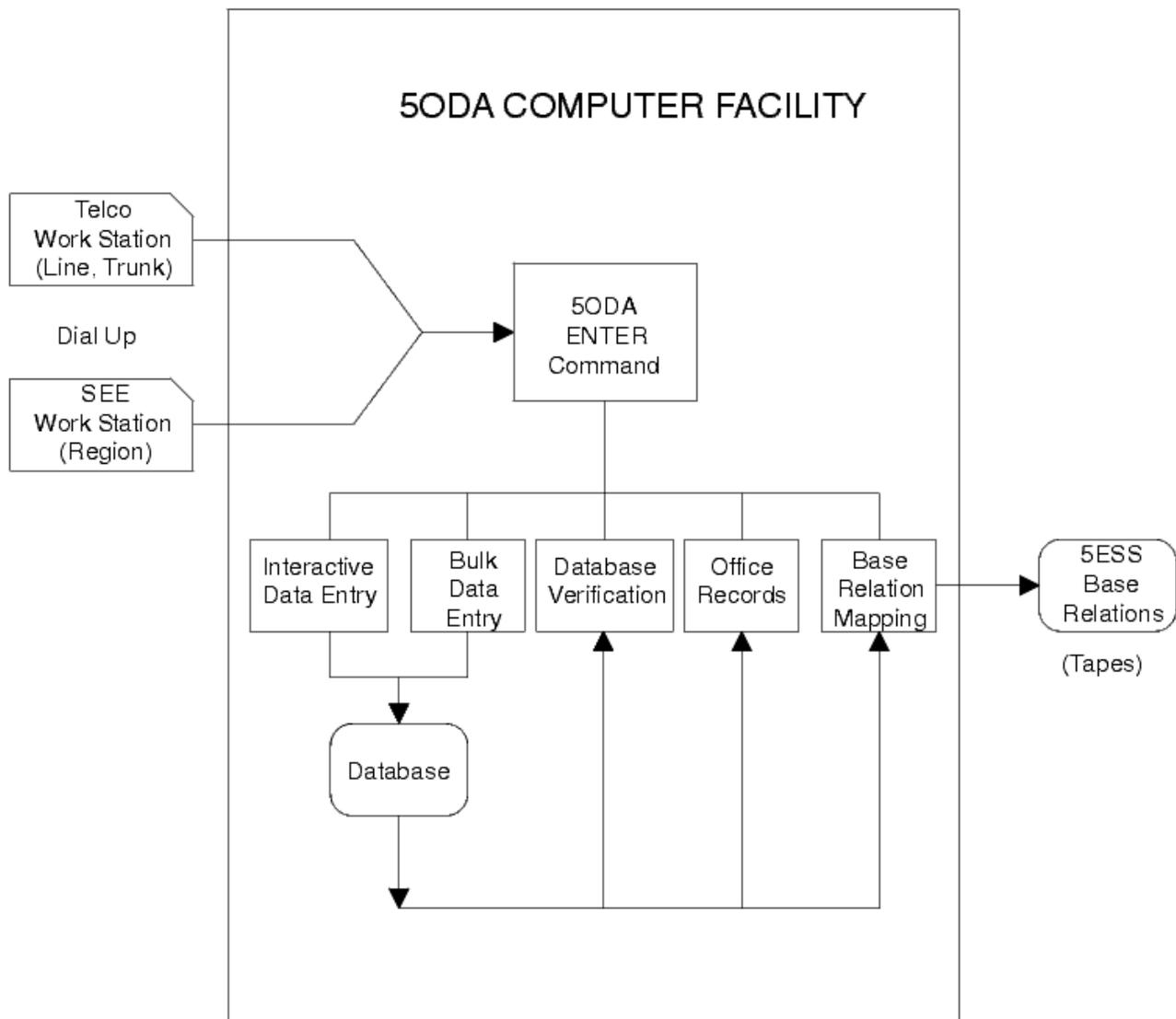


Figure 3 50DA PROCESS

```

system: "ENTER COMMAND"
user: "de"
system: "Enter name of form:"
user: "help"
system: r: conv
r: das
irud: lcc
irud: line
irud: mlhg
irud: mlhln
r: rate
r: rtidx
r: scrn
r: tkgrp
r: trunk
    
```

Figure 4 EXAMPLE OF <HELP> IN de COMMAND

```

system:      "ENTER COMMAND"
user:        "de"
system:      "Enter name of form"
user:        "tkgrp"
system:      "Enter Data Base Operation Code"
              "I=Insert R=Review U=Update D=Delete"
    
```

Figure 5 EXAMPLE OF DATABASE OPERATION PROMPT IN de COMMAND

```

SCREEN 1 OF 3
line          5ESS Switch
(5109-1/2/3/4) OFFICE DATA ADMINISTRATION
                TELEPHONE NUMBER

                                EQUIPMENT
*  1. TN          _____  17. FLS      N    29. COIN      N
    NEW TN
#  3. RAX         ___        18. SUSO     N    30. GST        N
#  4. LCC         ___        19. DNY ROH  N    31. TSTLINE   N
    5. OE TYPE   _          20. PALIT    N    32. GNDREF    N
    NUMBER      _____  21. COMPL   N    33. RANGEX    N
    8. RTI       _____  22. SLUS     N    34. LNEQ      N
    9. PTY       I          23. DTLBILL  N
10. MFRI        N          24. TRAFFIC  N
11. CIDIAL     _____
12. PIC        ___        TERM FEATURES
    ORIG FEATURES  25. SUST     N
13. TTC        N          26. ICP      N
14. BRCS       N          27. DNY BV   N
15. EL         N          28. TRC      N
16. FGA        N          43. RBV TGN  ___

                                MISC FEATURES
35. SERHLN     _____
    BCK LNK
37. ALT BILL TN _____
38. NO DIAL    N
39. HOT LINE TN _____
40. TEST CODE  _____
41. BUSY MONITOR N
42. ATT MLHG   _____
    
```

```

SCREEN 2 OF 3
line          5ESS Switch
(5109-1/2/3/4) OFFICE DATA ADMINISTRATION
                TELEPHONE NUMBER

44. ANI7        N          55. SHARED    N
45. TR303 NAILUP N          56. PRIVACY   N
46. RMK         _____
47. SA TST ROUTE N          LASS FEATURES
    BASIC 911 ESB          57. AC ALW    _
48. RINGBACK    N          58. AR ALW    _
49. STATMON     N          59. COT ALW   _
50. TONDET      N          60. PCP ALW   _
    SCAN & DIST. POINTS    61. SCA GA ALW _
51. MESSG REGISTER _____  62. SCF GA ALW _
52. SLEEVE LEAD CKT _____  63. SCR GA ALW _
53. MAKE BUSY KEY _____  64. SDA GA ALW _
54. CARRIER GRP ALM _____  65. UCR      N
    
```

```

SCREEN 3 OF 3
line          5ESS Switch      _
(5109-1/2/3/4) OFFICE DATA ADMINISTRATION
                TELEPHONE NUMBER

        LTSB
66. ASSOC OE TYPE  _
        NUMBER _____
69. LEAD PORT     N
70. MAN EXCL     N

        4-WIRE SPECIFICATIONS
71. ROUTING RINGING _____
72. PRIORITY RINGING _____
73. AUDIBLE RINGING  _
74. INC. START SIGNAL _____
75. CONFERENCE BRIDGE  _

        76. ASP ALW      N
        SCD SCREENING
        78. CLSS      N
        79. MCLD DEACT N
        80. BLK 1PLUS  NONE
        81. LONG DST DR N

```

Figure 6 DISPLAY OF LINE FORM IN de COMMAND 5E8 SOFTWARE RELEASE

```

SCREEN 1 OF 5
trunk          5ESS Switch
(5204-1/2/3/4,5271-1/2/3/4) OFFICE DATA ADMINISTRATION
                TRUNK

*1. TGN        _____
*2. MEMB       _____
  3. QTY        01
  4. TEN        _____
  5. DEN        _____
  6. SLEN       _____
  7. TRKOE     _ _____
10. LTP        _____
11. RAF EN     _____
12. TRANS CLASS _____
13. SUPV       _____
14. IDLE STATE ON
15. IN START DIAL _____

        16. OUT START DIAL _____
        17. CGASPN      _____
        18. OTODPN1     _____
        19. OTODPN2     _____
        20. SLC OTODPN3  _____
        21. SLC OTODPN4  _____
        22. CLCI TRK ID  _____
        23. BRCS        N
        24. SLVLD SPN    _____
        25. REMOVE TRUNK N
        26. ISCN        _____
        27. PSCLI       _____

```

```

SCREEN 2 OF 5
trunk          5ESS Switch
(5204-1/2/3/4,5271-1/2/3/4) OFFICE DATA ADMINISTRATION
                TRUNK

        CAMA OPERATOR TRUNKS
28. TRAF SAMPLED  _
29. KEYING TRUNK TGN _____
30. KEYING TRUNK MBR NO _____
31. TALKING TRUNK TGN _____
32. TALKING TRUNK MBR NO _____

        CCIS6 TRUNK SIGNALING
37. BAND _____

        PRIMARY LINK      MATE LINK
38. SL GROUP  _    41. SL GROUP  _
39. SL MEMB   _    42. SL MEMB   _

```

EDSL/PRI TRUNKS

33. Q921 PROC	NETWORK	DSN FEATURES	40. SL VLINK _	43. SL VLINK _
34. Q931 PROC	NETWORK	44. EXT. GUARD TIMING _		
		45. ANSWER DELAY TIMING N		

ANNC TRUNKS

35. MUSIC SOURCE	N	TSPS TRUNKS		
36. MAXCALLS	_	46. NO EXSIG N		

SCREEN 3 OF 5

trunk

(5204-1/2/3/4,5271-1/2/3/4)

5ESS Switch

OFFICE DATA ADMINISTRATION

TRUNK

PACKET SWITCHING

X.75'/X.75 TRUNK ONLY

47. OCU LOOPBACK _	54. LINK ID	61. HIGH PVC LCN
48. CSU LOOPBACK _	55. SEND THRUPUT CLASS 9600	62. LCN HI TO LOW _
49. LAPB ADDR _	56. RCV THRUPUT CLASS 9600	63. LOW INCOMING LCN
50. WINDOW SIZE _	57. SEND PKT SIZE 128	64. HI INCOMING LCN
51. RETRANS N2 _	58. RCV PKT SIZE 128	65. LOW 2 WAY LCN
52. ACK TIME T1 _	59. SEND PKT WINDOW SIZE 2	66. HI 2 WAY LCN
53. IDLE TIME T3 _	60. RCV PKT WINDOW SIZE 2	67. LOW OUTGOING LCN
		68. HI OUTGOING LCN

SCREEN 4 OF 5

trunk

(5204-1/2/3/4,5271-1/2/3/4)

5ESS Switch

OFFICE DATA ADMINISTRATION

TRUNK

PACKET SWITCHING X.75'/X.75 UTILITY INDICATORS

69. CALL ID _	74. CUG	79. TNIC INDICATOR _
70. THRUPUT CLASS _	75. CUG OUTGOING	80. UTILITY MARKER _
71. WND SZ _	76. REVERSE CHARGE	81. UTILITY FLD SIZE
72. PACKET SIZE _	77. ADDR MOD NOTIFY	82. NUI BEFORE _
73. FAST SELECT _	78. CLR NETWORK ID	83. NUI AFTER _

PACKET SWITCHING X.75' ONLY UTILITY INDICATORS

84. TARIFF UTILITY _	87. RPOA UTILITY	90. CLEAR SUB NET ID _
85. TRANSIT DELAY IND _	88. ACCESS CHAR	91. PROTOCOL CONV _
86. TRANSIT DELAY SEL _	89. TRANS SUB NET CNT	92. X75 ID UTILITY _

SCREEN 5 OF 5

trunk

(5204-1/2/3/4,5271-1/2/3/4)

5ESS Switch

OFFICE DATA ADMINISTRATION

TRUNK

PACKET SWITCHING X.75 ONLY UTILITY INDICATORS

93. TDI BEFORE _	99. IN RPOA BEFORE	105. TNIC CONFIG
94. TDI AFTER _	100. IN RPOA AFTER	106. X75 ID

95. TDS BEFORE _ 101. OUT RPOA BEFORE _ 107. IC PRESELECT _
 96. TDS AFTER _ 102. OUT RPOA AFTER _
 97. TARIFF BEFORE _ 103. RPOA DEL SEND _
 98. TARIFF AFTER _ 104. RPOA DEL RCV _

MISCELLANEOUS
 108. MF LOSS 0

Figure 7 DISPLAY OF TRUNK FORM IN de COMMAND 5E8 SOFTWARE RELEASE

SAMPLE OUTPUT FROM A "summary" COMMAND			
FORM TYPE	NUMBER OF FORMS	NUMBER WITH ERRORS	NUMBER WITH WARNINGS
line	1490	20	10
fixrt	29	0	0
lcc	22	7	0
trunk	120	0	15
eqtup	1	0	0

Figure 8 SAMPLE OUTPUT FROM A summary COMMAND

EXAMPLES OF FORMS ASSOCIATED WITH THE USER GROUPS

The following is a list of form types by user group. This grouping of form names, "lines", "trunks" and "weco", is defined during office registration and is dependent upon the particular ODA release and/or the specific requirements of a particular office. To receive the current list of form types, execute the "helpenv forms" command (see Section 4.1, "The HELPENV Command").

USER GROUP	EXAMPLES OF ASSOCIATED FORMS						
lines	iminfo	line	mlhg	mlhn	octa	slcca	
trunks	amact	auto	cgas	cgidx	cnchg	conv	das
	fixrt	icdd	indit	lcc	ldit	mreg	noc
	ofcopt	pdit	rar	rate	rotl	rtidx	tkgrp
weco	tlws	tntyp	trfsep	trkcl	trunk		
	eqcore	eqds	eqdpn	eqdsp	eqdu	eqdup	
	eqim	eqlu	eqlup	eqmsp	eqmsu	eqncref	eqpc
	eqtu	eqtup					

Figure 9 EXAMPLES OF FORMS ASSOCIATED WITH USER GROUPS

EXAMPLES OF RECORD TYPE BY USER GROUP

The following is a list of office record numbers by user group. This grouping of office records into "lines", "trunks", "weco" and "brcs" is defined during office registration and is dependent upon the particular ODA release and/or the specific requirements of a particular office. To receive a current listing of these groups, execute the "helpenv records" command (see Section 4.1 "The HELPENV Command").

USER GROUP	EXAMPLES OF ASSOCIATED RECORDS							
lines	5104	5106	5107	5108	5109	5109-1		
	5109-2	5109-3	5110-1	5110-2	5110-3	5111-1	5111-2	
	5113	5114	5115	5115-A	5171-1a	lcclen		
trunks	5202-1	5202-2	5202-3	5202-4	5203	5204-1		
	5204-2	5209	5271-1	5271-2	5271-3	5300-1	5300-2	
	5300-3	5300-4	5300-5	5301	5301-1	5302-1		
	5302-2	5302-3	5303	5306	5307	5308		
	5501	5505-1	5505-2	5507	5509	5510	5511	5517
weco	5700-1	5700-2	5701	5702	5703	5705		
	5710	5720	5730	5740	5750	5810		
	5811	5820	5821	5840	5840-1	5840-A	5841	

	5842	5843						
brcs	5117	5608-1A	5617-3	5629-3	5600	5608-1B	5617-4	5629-4
	5601	5608-2	5618-1A	5713-1	5601-1	5608-3	5618-1B	5713-2

* 5100 produces an office record of just the telephone numbers that have been assigned for that office. It must be requested specifically, i.e., it is not included in the group defined as "lines", (e.g., records 5100).

Figure 10 EXAMPLES OF RECORD TYPES BY USER GROUP

SEC. 8: 5001,5002,5003,5004 ESTABLISH OFFICE DATABASES FOR INITIAL, GROWTH, RETROFIT, AND LARGE TERMINAL GROWTH OFFICES

1. GENERAL

Identification, accounting, and tracking information is needed to set up a database in a computer for each new 5ESS office. The 5001, 5002, 5003, and 5004 Forms are furnished to standardize the presentation of this information.

Send one copy of the appropriate completed 5001, 5002, 5003, or 5004 Form to the address shown on the form one month prior to the date upon which it is intended to insert data into the database which will be established.

Billing is directly dependent on the job type of the office, and it is therefore very important that the correct form indicating the job type is sent to NSC. Read the definitions of each job type carefully prior to completing the form.

2. COMMON LETTER ENTRIES

2.1 Date

The date that the letter is mailed is to be inserted into the space available in the letter.

2.2 Order Number

The Order Number is to be inserted into the space available in the letter. This Order Number is to conform to the instructions found in CI 42.177-21. The Order Number for EACH job type MUST BE unique.

2.3 Base and Control

The Base and Control Number for the office from the Equipment Specification is to be inserted into the space available in the letter. This Base and Control Number is to conform to the instructions found in CI 97.100, Section 18.

2.4 Office Name

The Office Name established by the customer for this 5ESS Switch is to be inserted into the second space available in the letter along with the state in which the office is located.

2.5 Number Of Lines

Enter the number of lines associated with the office, into the space available in the letter. Please note that this count should reflect the totals expected upon job completion, regardless of job type.

2.6 Number Of Trunks

Enter the number of trunks associated with the office, into the space available in the letter. Please note that this count should reflect the totals expected upon job completion, regardless of job type.

2.7 Number Of SMs

Enter the number of SMs (Switching Modules), associated with the office, into the space available in the letter. Please note that this count should reflect the totals expected upon job completion, regardless of job type.

2.8 Office Type

Indicate whether the office is a Local, Toll, or DSN (Defense Switched Network) office.

2.9 Software Release and Issue

Indicate the FINAL cutover Software Release into the space available in the letter.

2.10 Date Telephone Company Order Received

Indicate the date that the order was received in the region into the space available in the letter.

2.11 Responsible Engineer

Enter the name of the Systems Equipment Engineer responsible for the office database and its contents into the space available in the letter. The entry should be in the form of First Name, Middle Initial, Last Name.

2.12 Telephone Number

Enter the Telephone Number of the Systems Equipment Engineer responsible for the database and its contents into the space available in the letter. The entry should be in the form 630-224-7196.

2.13 Signature

The letter must be signed by the Department Chief to whom the engineer responsible for the database reports, or his/her designated representative.

2.14 Department

The final entry on the letter must be the Department Number of the organization having responsibility for the database. The entry should be in the form 11NW526160.

3. ENTRIES FOR INITIAL OFFICES (5001)

3.1 Definition

An Initial office is an installing 5ESS Switch, that is capable of processing phone calls and IS NOT an RSM (Remote Switching Module) associated with a Host office. An Initial office is considered to be a Host if RSMs associated with it are turning over on the same date.

3.2 Hardware Ship Date

Enter the date on which the hardware is to be shipped, into the space available in the letter. The entry should be in the form 07/10/84 or 07-10-84.

3.3 Current Turnover Date

Enter the date on which Network Systems is to turn the office over to the customer, into the space available in the letter. The entry should be in the form 07/10/84 or 07-10-84.

3.4 Non-Standard Dates

The Hardware Ship date and the Current Turnover date are the key dates which determine the software schedule in accordance with CI 97.100 Section 5, Part 5. If this office will NOT be following the standard schedule, indicate the schedule that the office WILL be following, in the space available under the Modified column in the letter.

3.5 Virgos Tape

Indicate whether or not a Virgos tape is to be expected at NSC, and the date that the tape should be expected if one is used, in the space available in the letter.

3.6 5ECONV Office

Indicate whether or not this office will be performing a conversion from 1A ESS Switch or 2B ESS Switch to 5ESS Switch. If the office is a conversion office, indicate the date that the tape(s) should be expected, in the space available in the letter.

3.7 Remote Switching Modules

If there are RSMs that are to be included in the Initial database, list the RSM Names, base and controls, and order numbers, and indicate whether a Virgos tape should be expected for each RSM. Please note that in order for the RSM to be included in the Initial office database, the turnover date of the RSM must match the turnover date of the Initial office.

4. ENTRIES FOR GROWTH OFFICES (5002)

4.1 Definition

A Growth office is an addition of hardware to an existing 5ESS Switch, OR a RSM that is associated with an Initial office, but has a turnover date later than that of the Host. Please note that if the turnover date of the RSM is the same as that of the Host, it is to be included in the Initial database.

4.2 Hardware Ship Date

Enter the date on which the hardware is to be shipped, into the space available in the letter. The entry should be in the form 07/10/84 or 07-10-84.

4.3 Current Turnover Date

Enter the date on which Network Systems is to turn the office over to the customer, into the space available in the letter. The entry should be in the form 07/10/84 or 07-10-84.

4.4 Non-Standard Dates

The Hardware Ship date and the Current Turnover date are the key dates which determine the software schedule in accordance with CI 97.100 Section 5, Part 5. If this office will NOT be following the standard schedule, indicate the schedule that the office WILL be following, in the space available under the Modified column in the letter.

4.5 Is This Office a Remote Switching Module?

Indicate whether or not this office is an RSM. If it is, identify the Host office name and base and control. If this office is NOT an RSM, ignore this question.

4.6 Virgos Tape

Indicate whether or not a Virgos tape is to be expected at NSC, and the date that the tape should be expected if one is used, in the space available in the letter.

5. ENTRIES FOR RETROFIT OFFICES (5003)

5.1 Definition

A Retrofit office is an existing 5ESS Switch that is upgrading from one Generic and ODA issue, to a greater Generic and ODA issue.

5.2 Retrofit Date

Indicate the onsite Retrofit Load Date in the space available in the letter. The entry should be in the form 07/10/84 or 07-10-84. The Retrofit Date is the only date needed to populate the remainder of the software schedule in the Production Scheduling System.

6. ENTRIES FOR LARGE TERMINAL GROWTH (LTG) OFFICES (5004)

6.1 Definition

A Large Terminal Growth office is an existing 5ESS Switch that is growing a large number of additional lines or trunks to be done through ODA, and then merged with the existing office dump, instead of through Recent Change. The Large Terminal Growth process requires that a Retrofit slot be obtained, and during the final interval, follows much the same schedule as a retrofit.

6.2 5ECONV Office

Indicate whether or not this office will be performing a conversion from 1A ESS Switch or 2B ESS Switch to 5ESS Switch. If the office is a conversion office, indicate the date that the tape(s) should be expected, in the space available in the letter.

6.3 Large Terminal Growth Date

Indicate the onsite Large Terminal Growth Date in the space available in the letter. The entry should be in the form 07/10/84 or 07-10-84. The Large Terminal Growth Date is the only date needed to populate the remainder of the software schedule in the Production Scheduling System.

5001(06) TG-5

Network Systems
5ODA Software Database Management
2600 Warrenville Road - Room 33B1
Lisle, IL 60532

DATE: _____

This letter authorizes the establishment of an account for order number _____ and base and control _____, for the _____ INITIAL Office. There are ___ lines, ___ trunks, and ___ SMs associated with this office. This office is a _____ (Local, Toll, or DSN) office. The final cutover Software Release and Issue for this office will be _____. The Telco order number for this office was received on _____. The Engineer responsible for this job is _____ whose telephone number is _____. There (will/will not) be a Virgos tape for this office, and the tape will arrive at NSC on _____. This office (is/is not) a 5E Conversion office. Conversion tapes will arrive at NSC on _____.

The following RSMs are turning over with this Host office, and should be included in the Host database:

RSM Name	Base & Control	Order #, Virgos Tape(y or n)	Standard	Modified
Registration Date			/ /	/ /
Office Initialization; Virgos Due			/ /	/ /
FITTS data entry start			/ /	/ /
FITTS freeze; Execute sendimst;			/ /	/ /
Trunk tape due			/ /	/ /
STR data entry start			/ /	/ /
STR data entry freeze			/ /	/ /
STR ship			/ /	/ /
STR due on site			/ /	/ /
FTR data entry start; Line tape due			/ /	/ /
FTR data entry freeze			/ /	/ /
FTR ship			/ /	/ /
FTR due on site;			/ /	/ /
MAIN HARDWARE SHIP DATE	/ /		/ /	/ /
TURNOVER DATE	/ /		/ /	/ /
Cutover Date			/ /	/ /

SEE Department Chief
Dept # _____

Figure 1 SAMPLE INITIAL LETTER

5001(06) TG-5

DATE: _____

Network Systems
5ODA Software Database Management
2600 Warrenville Road - Room 33B1
Lisle, IL 60532

This letter authorizes the establishment of an account for order number _____ and base and control _____, for the _____ GROWTH Office. There are _____ lines, _____ trunks, and _____ SMs associated with this office. This office is a _____ (Local, Toll, or DSN) office. The final cutover Software Release and Issue for this office will be _____. The Telco order number for this office was received on _____. The Engineer responsible for this job is _____ whose telephone number is _____. Conversion office. Conversion tapes will arrive at NSC on _____. There (will/will not) be a Virgos tape for this office, and the tape will arrive at NSC on _____. The Host office name is _____, and the Host base control is _____.

Event Description	Standard	Modified
Registration Date		/ /
Office Initialization; Virgos Due		/ /
FITTS data entry start		/ /
FITTS freeze; Execute sendimst;		/ /
MAIN HARDWARE SHIP DATE	/ /	/ /
TURNOVER DATE	/ /	/ /
Cutover Date		/ /

SEE Department Chief
Dept # _____

Figure 2 SAMPLE GROWTH LETTER

5001(06) TG-5

DATE: _____

Network Systems
5ODA Software Database Management
2600 Warrenville Road - Room 33B1
Lisle, IL 60532

This letter authorizes the establishment of an account for order number _____ and base and control _____, for the _____ RETROFIT Office. There are _____ lines, _____ trunks, and _____ SMs associated with this office. This office is a _____ (Local, Toll, or DSN) office. The final cutover Software Release and Issue for this office will be _____. The Telco order number for this office was received on _____. The Engineer responsible for this job is _____ whose telephone number is _____. The onsite Retrofit date for this office is _____.

SEE Department Chief
Dept # _____

Figure 3 SAMPLE RETROFIT LETTER

5001(06) TG-5

DATE: _____

Network Systems
5ODA Software Database Management
2600 Warrenville Road - Room 33B1
Lisle, IL 60532

This letter authorizes the establishment of an account for order number _____ and base and control _____, for the _____ LARGE TERMINAL GROWTH Office. There are _____ lines, _____ trunks, and _____ SMS associated with this office. This office is a _____ (Local, Toll, or DSN) office. The final cutover Software Release and Issue for this office will be _____. The Telco order number for this office was received on _____. The Engineer responsible for this job is _____ whose telephone number is _____. The onsite Large Terminal Growth date for this office is _____. This office (is/is not) a 5E Conversion office. Conversion tapes will arrive at NSC on _____.

SEE Department Chief
Dept # _____

Figure 4 SAMPLE LARGE TERMINAL GROWTH LETTER

SEC. 9: 5ODA BATCH LOAD INTERFACE

1. GENERAL

To accommodate data supplied from existing mechanized systems (e.g. equipment, line or trunk data), the ODA 5ODA provides an interface to merge batch data with the appropriate ODA 5ODA database. The magnetic tape containing batch data must be self-defined, meaning, there is information on the tape which defines the contents of the data records. This allows the customer to add, delete or change a field, when they wish, without coordinating the change with Lucent Technologies, requiring them to only change the tape definition.

2. TAPE FORMAT

The ODA system will process magnetic tapes that meet the following requirements:

1. The tape must be 1600 bpi. The format must be ASCII and produced on 9-track drives only.
2. The magnetic tape itself may be a labeled (e.g. IBM Standard Label) or a non-labeled tape. However, every tape should be marked with a paper label identifying which file is the ODA data file on the tape. If there is no such indicator on the tape, the ODA assumes the data as the first file. The end of a file on a tape is indicated by a tape mark. The ODA system will only process the ODA data file.
3. If one tape volume cannot hold all the data the user wants to send to the ODA, then the user can send multiple tapes. The ODA input tapes do not have to be processed in the same order in which they were produced. This procedure should not cause any problems provided the user never splits a "logical record" (see section on Basic Definitions) over two tapes and each tape begins with a header record and ends with a trailer record (see section on Header and Trailer forms). If the tapes should be processed in a sequential manner they must be marked as such on the tape labels.

3. FILE FORMAT

3.1 Physical Format

The block size of data on the tape should be no more than 2048 bytes. All blocks must be the same size except the last block which can be less than 2048 bytes.

3.2 Logical Format-basic Definitions

The 5ODA system interprets the data on the tape as a stream of characters. The characters are grouped into name-value pairs. Each name must be terminated by a colon (i.e. :). Each name-value pair must be terminated by a semi-colon (i.e. ;). Leading and trailing blanks around the name and the value will be ignored. Any blanks within a value (e.g. "his name is Joe") will be kept. Therefore, the stream of data could look as follows:

```
DN: 1234567 ; TTC : Y ; CFW : N;
```

Name-value pairs are grouped together into logical records. In order to identify the beginning of a logical record (and thus the end of the previous logical record), and to know what type of record it is, the 5ODA selected "FORM NAME" as the logical record initiator name of a name-value pair. The name "FORMNAME'S" associated value identifies the record type. The above example could be preceded by the following name-value pair:

FORMNAME: Line;

The definition of each Directory Number would begin with the above name-value pair.

3.3 Logical Format-Structure Definitions

A form may use the same name more than once. This will normally happen within a structure definition (e.g., DATE1 AND DATE2 are structures each containing fields month, day and year). In order to distinguish between them, a fully qualified name must be specified. The qualified name would be composed of structure name, "DOT", element name (e.g., DATE1 .DAY). A form's definition will identify when and where a qualified name is necessary.

3.4 Header and Trailer Forms

Forms can be intermixed. A LINE form may be followed by a MLHG form, which in turn is followed by another LINE form. However, the first form on any tape must be the header form. The header form contains office identification information. The definition of the header form is the first page of the attachment to this memorandum. The last form on every tape must be the trailer form. This form has a count of each form passed since the last header form.

Most information on the header record is self-explanatory. The SENDERS field is unique to each system sending batch data to the ODA system. The sender is free to select any eight character name desired that will identify the system sending the data. However, once selected it should never be changed. The SENDER_ISSUE is meant for the senders use. If the ODA has any problems processing the batch data, then the ODA production personnel will contact the sender and let the sender know which issue of the system is causing the problem. We recommend the sender change this value every time a change is made to that system. The BATCH_ISSUE field will change each time the definition memorandum is re-issued. If the sender modifies their system to match the new definition, then they should specify the new BATCH_ISSUE value. The BATCH_ISSUE identifies, to the ODA, what type of data it is to expect.

3.5 Multiple Offices

The administration and generation of ODD (Office Dependant Data) for 5ESS Switch offices requires multiple hardware configurations. Therefore, more than one set of office data per tape is not permitted. Each individual tape must contain data for one office only to expedite the ODA process.

4. DEFINITIONS

The TG-5 (5ESS Switch Translation Guide) defines all the valid ODA form names. Since the form's field names described in the TG-5 may change for aesthetic reasons, it is necessary to establish field names that change less often. A composite listing is available containing these valid attribute names and cross reference for form names. In addition, the TG-5 contains "name" valid values. Refer to *INQUIRIES* in this section for information regarding the procedure to obtain the attribute names and cross reference lists for form names.

Each logical form definition appears on a separate page (some forms such as the LINE form need multiple pages). As stated earlier, the first two pages define the HEADER and the TRAILER forms. The rest of the pages define ODA input forms. At the top of each page is the name of the form defined on that page. Beside the name is the list of 5ESS Switch Software Release issues supported by this form. After the form name is the list of attribute names that make up this form. Beside the attribute name is a brief description of what the field is. The attribute is applicable to all the previously indicated Software Release issues unless another list of Software Release issues appears on a line after the attribute name. In this case, the attribute is only applicable to the Software Release issues specified. If the ODA receives an attribute that is not applicable to the Software

Release currently being installed in the office, then the ODA just ignores that attribute. This allows the user to generate an output that is suitable for any number of different Software Releases.

5. LIST DEFINITIONS

Some of the 5ESS Switch input forms contain lists. Informally, a list is a shorthand way to define a repeating group of attributes (i.e. 5ESS Switch Translations Guide TG-5 Volume 1: LINEFA form). However, for batch loading purposes, data must be sent corresponding to form definitions that do not contain lists. To batch populate a form that contains a list the corresponding form definitions in this document must be used. These forms basically contain the key fields, non-key fields, and one instance of the list fields (i.e. LINEFA form in this document). Multiple instances of these forms with key and non-key fields repeated should be generated for each set of list fields. The non-list forms will be combined per unique key into one form when the data is loaded into the database.

6. INQUIRIES

All inquiries or requests for information referred to in this section should be sent to the following:

5ESS Software Database Manager

Lucent Technologies

2600 Warrenville Road

Lisle, Illinois 60532

SEC. 10: ROUTING AND CHARGING

1. GENERAL

The purpose of Routing and Charging is to determine, based on source and destination information, how a call should be routed and charged.

This is normally accomplished in two steps. The first is called screening and the second is routing.

The purpose of screening is to translate the Prefix Index, Screening Index, and Code Index into Routing and Charging Indices. The purpose of routing is to derive the expanded routing data from the database using the Route Index obtained from screening. Figure 1 provides a block diagram of the flow of Routing and Charging Translations.

2. DEFINITIONS OF TERMS

Listed below are abbreviated definitions for each of the components of routing and charging.

2.1 DIGIT ANALYSIS SELECTOR

DAS (Digit Analysis Selector) is a general purpose table that is used to specify the set of tables (Local Digit Interpreter, Incoming Trunk Digit Interpreter and Preliminary Digit Interpreter) that are to be used for digit analysis.

2.2 LOCAL DIGIT INTERPRETER TABLE

LDIT (Local Digit Interpreter Table) is a table that is used to define all dialable codes (NPA, NXX, NPANXX, X11) in a 5ESS Switch office.

2.3 INCOMING DIGIT INTERPRETER TABLE

INDIT (Incoming Digit Interpreter Table) is a table that is used for incoming, two-way, or tandem Trunk Group routing.

2.4 PREFIX/FEATURE DIGIT INTERPRETER TABLE

PDIT (Prefix/Feature Digit Interpreter Table) is a table that is used to define operator codes (0- and 010) and standard feature codes (72, 73, 2-9, 20-49, etc.).

2.5 CODE INDEX

Code Index is an output from the LDIT, INC DIT, IDDD, or PDIT that is used as an input to the Rate and Route Tables.

2.6 SCREENING INDEX

Screening index is an output from a Line Class Code or a Trunk Group that is used as an input to the Rate and Route Tables.

2.7 ROUTE INDEX

Route Index is an output from the Rate and Route Tables or a Telephone Number that defines the routing, (i.e., Trunk Group Number, digits to be deleted or prefixed, etc.) of a call.

2.8 CHARGE INDEX

Charge index is an output from the Rate and Route Tables that defines the charging, (i.e., MBI (Message Billing Index), time, charge, etc.) of a call.

3. RATE AND ROUTE TABLE

The Screening Index and Code Index form a matrix known as a Rate and Route Table. The Rate and Route Table provides a Charge Index and a Route Index based on the prefix dialed (no prefix, 1+, or 0+).

4. CODE CONFLICT

When NPA (Numbering Plan Area) codes and Central Office codes are the same, the routing and charging is resolved by one of two methods.

- Conflict resolved by timing
 - Using this method, the 5ESS Switch will time after receiving seven digits to determine if the call attempt is a seven or ten digit call.
- Conflict resolved by prefixing
 - Using this method, the 5ESS Switch will treat 1+ calls as ten digit attempts and no prefix calls as seven digit attempts. 0+ calls are resolved by the timing method.

5. CODE CONVERSION

Any three digit code may be converted to a seven or ten digit Telephone Number through code conversion. Code conversion is primarily used for X11 (411, 611, etc.) services. However, any three digit code may be converted if it is defined with an appropriate Call Type (i.e., LOCDA, REPAIR, BUSOFC, or EMER).

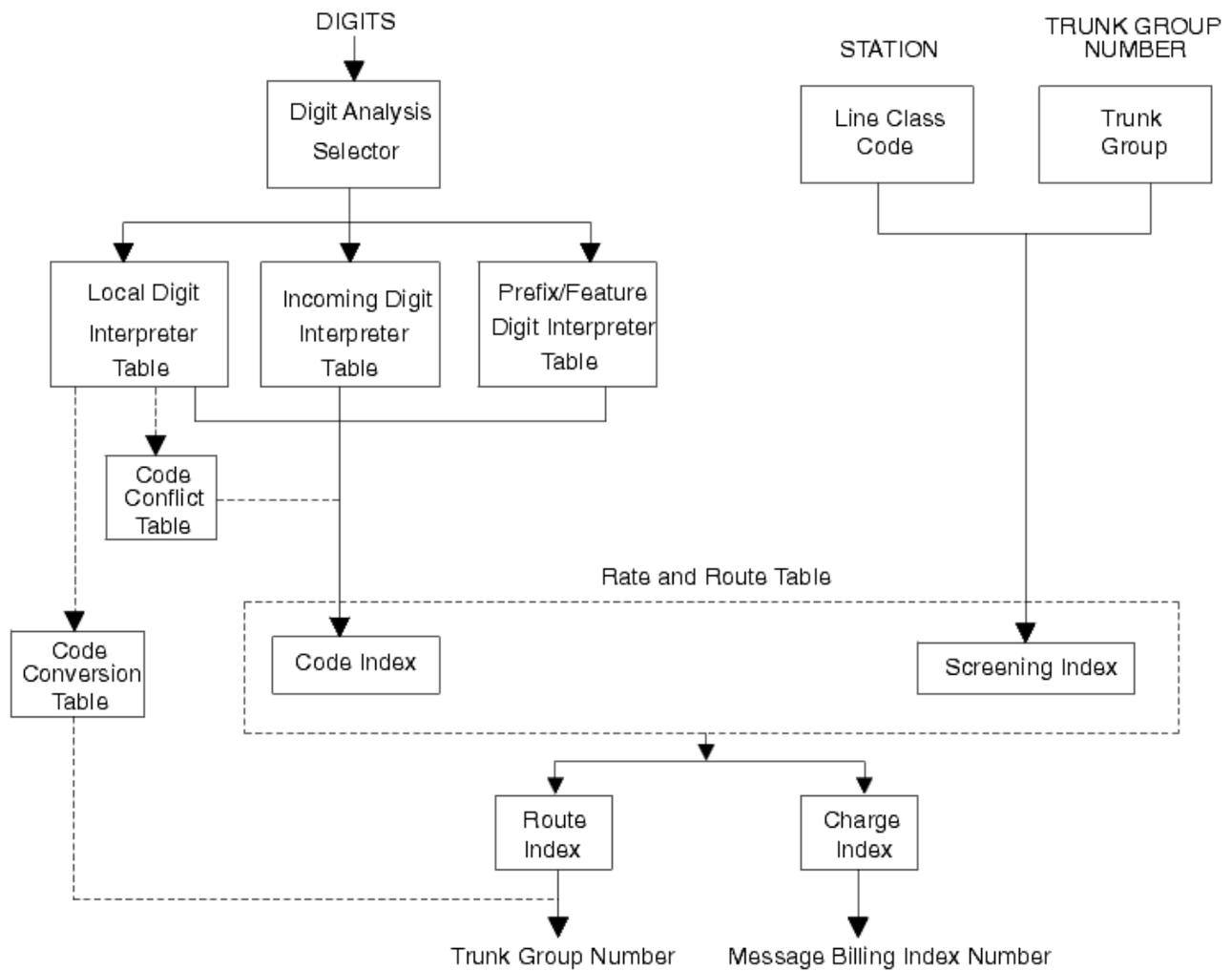


Figure 1 BLOCK DIAGRAM - ROUTING AND CHARGING

SEC. 11: LDMAP SYSTEM DESCRIPTION

1. GENERAL DESCRIPTION

The 1/1A ESS Switch to 5ESS Switch LDMAP (Line Data Mapping) System will extract line related data from a dump of the 1/1A ESS Switch Translations and will map the line data into a format that will be used as input to the 5ODA process. An LDMAP questionnaire is completed by the switch owner is used to define how the Line Data Mapping is to be performed.

The output of the LDMAP system may be used for either the Initial 5ODA process or the LTG (Large Terminal Growth) process.

The LDMAP system provides the following capabilities for the mapping of line data from the 1/1A ESS Switch to a 5ESS Switch.

1. Feature Mapping
2. Feature Substitution
3. Feature Addition
4. Feature Clustering
5. Selection BFG Name Addition
6. Customized IDP Group Names
7. Terminal Group Station Restriction Feature Assignment
8. Multi-Line Hunt Group Renumbering
9. Call Pickup Group Renumbering
10. Partial Office Mapping
11. CAT Code to DPAT Code Mapping for IDP Lines
12. Group Speed Call Listname Mapping
13. Operator Intercept Line Mapping
14. Route Index Line Mapping
15. CENTREX Intercept TN Mapping
16. LINE/MLHLN form Updates

Details for each of the LDMAP capabilities are described later.

The LDMAP system does not do the following:

1. Assignment of 5ESS Switch Line Equipment Numbers
2. Assignment of 5ESS Switch Scan Points

3. Completion of Equipment, Trunking, Routing and Charging Forms
4. Completion of Feature Definition Forms
5. Completion of Group Definition and Group Dialing Forms

2. FEATURE MAPPING

The LDMAP system uses the 1/1A ESS Switch features that are indicated on the 1107 form to map 1/1A ESS Switch features to 5ESS Switch preconstructed features. Supporting information from the 1109 form is used for the mapping of features on lines that belong to CENTREX Groups.

Refer to Figure 1 for details on how and what features are mapped by the LDMAP system.

If a feature indicated on the 1107 form cannot be mapped to a 5ESS Switch preconstructed feature then the telephone number or Multi-Line Hunt Group and member number along with the 1/1A ESS Switch feature acronym is written to the NO5E report.

Refer to Figure 2 for a list of features indicated on the 1107 TYPE 00 record that are not mapped by the LDMAP system.

Refer to Figure 3 for a list of features indicated on the 1107 form that are not mapped by the LDMAP system.

3. FEATURE SUBSTITUTION

The LDMAP system allows the switch owner to substitute features for the preconstructed features that are assigned by LDMAP.

The new feature may be either a constructed feature or another preconstructed feature. The switch owner is responsible for the completion of Feature Definition forms for any constructed feature that is used for feature substitution.

The feature substitution may be applied in one of the following three methods.

1. All lines in a specified IDP Group.
2. All POTS lines.
3. All lines in the office.

LDMAP will apply feature substitutions to specified IDP groups and POTS lines prior to applying feature substitutions to the entire office.

4. FEATURE ADDITION

The LDMAP system will allow the switch owner to add either preconstructed or constructed features to a specified group of lines. Examples of features added are ARS (Automatic Route Selection) or PFA (Private Facilities Access) features.

A feature may be added to the following:

1. All lines in a specified IDP Group.

2. Lines in a specified IDP Group which meet a DPAT Code requirement.
3. All POT lines.

The completion of Feature Definition Forms for constructed features being added is the responsibility of the switch owner.

The LDMAP system will only complete LINEFA and MLHLNFA forms for the features being added. Parameter forms are not completed by LDMAP for features being added.

5. FEATURE CLUSTERING

The LDMAP system allows the switch owner to specify clusters that are to be assigned to the lines. The switch owner specifies the cluster name, the features in the cluster and how the cluster is to be applied to the lines.

The cluster may be applied in one of the following three ways:

1. The cluster is applied to a specified IDP Group.
2. The cluster is applied to POT lines.
3. The cluster is applied to the entire office.

The features in the cluster may be preconstructed features assigned by LDMAP, features assigned as a result of feature substitution or features added to the lines as a result of feature addition.

The completion of the cluster definition form (5600 Record) is the responsibility of the switch owner.

6. SELECTION BFG NAME ADDITION

The LDMAP system will allow for the addition of a Selection BFG (BRCS Feature Group) Name to be added to lines in a specified IDP Group. The switch owner will provide the Selection BFG Name that is to be added for each IDP Group. The LDMAP system will then place the Selection BFG Name on the LINEFA or MLHLNFA form for the line.

The completion of the BFG Construction Form (5625 Record) is the responsibility of the switch owner. The 5ODA process will assign the Selection BFG Suffix based on the BFG Construction Form that has been completed.

7. CUSTOMIZED IDP GROUP NAMES

The LDMAP system builds the IDP Group Names in two portions. The first portion of the IDP Group Name is a PREFIX. The second portion of the IDP Group Name is the NUMBER.

The switch owner may specify a PREFIX to be used for all IDP Group Names, a PREFIX for each IDP Group Name or that the IDP Group Name will not contain a PREFIX. The PREFIX may contain any quantity of alpha-numeric characters.

The LDMAP system default is to set the NUMBER portion of the IDP Group Name to a 4-digit number that is the 1/1A ESS Switch CENTREX Group Number.

The switch owner may select to renumber the 1/1A ESS Switch CENTREX Group number to derive the NUMBER portion of the IDP Group Name. Two renumbering methods are available for the renumbering of 1/1A ESS Switch CENTREX Group Numbers.

The first method is called sequential renumbering. Sequential renumbering takes a starting CENTREX Group number provided by the switch owner and will renumber the lowest numbered CENTREX Group in the 1/1A ESS Switch to that CENTREX Group number provided. The next lowest CENTREX Group number in the 1/1A ESS Switch will be renumbered to the CENTREX Group number provided plus one. The sequential renumbering method will renumber all CENTREX Groups in the 1/1A ESS Switch.

The second method is for the renumbering of CENTREX Groups is to provide a mapping table. The mapping table will show each 1/1A ESS Switch CENTREX Group number that is to be renumbered with its 5ESS Switch CENTREX Group number. Only 1/1A ESS Switch CENTREX Group numbers that appear in the mapping table will be renumbered. If a 1/1A ESS Switch CENTREX Group number is not in the mapping table, then the CENTREX Group number will not be renumbered.

The switch owner must consider CENTREX Group renumbering if the 1/1A ESS Switch is being mapped to a already working 5ESS Switch or if more than one switch is being mapped to the 5ESS Switch.

The switch owner may also specify the quantity of digits that are to be used in the NUMBER portion of the IDP Group Name.

- **NOTE:** The IDP Group Name may be only 8 characters in length.

The IDP Group Name must be shown on a IDP Group Definition Form (5601-4) which has been completed by the switch owner.

8. TERMINAL GROUP STATION RESTRICTION FEATURE ASSIGNMENT

The LDMAP system will assign a TGSR (Terminal Group Station Restriction) feature to each line in a 1/1A ESS Switch CENTREX group. The TGSR feature assigned is based on the OMAJ (Originating Major) Class and the TMAJ (Terminating Major) Class of the line. The following table shows the TGSR feature that will be assigned based on the OMAJ and TMAJ of the line.

OMAJ	TMAJ	FEATURE
16	16	/TGFFx
16	30	/TGFSx
16	18	/TGFX
17	16	/TGSF
17	30	/TGSSx
17	18	/TGSUx
18	16	/TGUFx
18	17	/TGUSx
18	18	/TGUUx

If the line has a OMAJ and TMAJ combination that is not in the above table, then a TGSR feature is not assigned to the line and the TN or MLHG and Member Number is written to the NOTGSR Report.

The "x" at the end of the TGSR feature name is replaced by a "T" or an "A" depending on if the TGSR Feature is to be a TONE or ANNOUNCEMENT feature.

The TGSR Feature Type, Tone or Announcement, may be specified to be the same for all 1/1A ESS Switch CENTREX Groups or may be specified for each CENTREX Group individually.

If the ANNOUNCEMENT feature type is specified, then a 5ESS Switch Route Index for the Originating Error Announcement and a 5ESS Switch Route Index for the Terminating Error Announcement must be specified.

The LDMAP system will assign the Terminal Group ID depending on the method selected. The three methods for assigning the Terminal Group ID are

1. The Terminal Group ID will equal the NUMBER portion of the IDP Group Name.
2. The Terminal Group ID will equal the 1/1A ESS Switch CENTREX Group Number.
3. The Terminal Group ID will be determined from a mapping table of 1/1A ESS Switch CENTREX Group Numbers to Terminal Group IDs. If the 1/1A ESS Switch CENTREX Group Number is not in the mapping table, then the 1/1A ESS Switch CENTREX Group Number will be used as the Terminal Group ID.

9. MULTI-LINE HUNT GROUP RENUMBERING

The LDMAP system will set the 5ESS Switch MLHG (Multi-Line Hunt Group) number to be equal to the 1/1A ESS Switch MLHG number, unless a MLHG Renumbering Method is selected.

If the renumbering of MLHGs is desired, then two methods for renumbering of MLHGs are provided by LDMAP.

The first method is called sequential renumbering. Sequential renumbering takes a starting MLHG number provided by the switch owner and will renumber the lowest numbered MLHG in the 1/1A ESS Switch to that MLHG number provided. The next lowest MLHG number in the 1/1A ESS Switch will be renumbered to the MLHG number provided plus one. The sequential renumbering method will renumber all MLHGs in the 1/1A ESS Switch.

The second method is for the renumbering of MLHGs is to provide a mapping table. The mapping table will show each 1/1A ESS Switch MLHG number that is to be renumbered with its 5ESS Switch MLHG number. Only 1/1A ESS Switch MLHG numbers that appear in the mapping table will be renumbered. If a 1/1A ESS Switch MLHG number is not in the mapping table, then the MLHG number will not be renumbered in the mapping of the MLHG from the 1/1A ESS Switch to the 5ESS Switch.

The switch owner must consider MLHG renumbering if the 1/1A ESS Switch is being mapped to a already working 5ESS Switch which has MLHGs or if more than one switch is being mapped to the 5ESS Switch.

10. CALL PICKUP GROUP RENUMBERING

The LDMAP system will set the 5ESS Switch CPUG (Call Pickup Group) number to be equal to the 1/1A ESS Switch CPUG number unless a renumbering of CPUG numbers is selected.

If the renumbering of CPUGs is desired, then two methods for renumbering of CPUGs are provided by LDMAP.

The first method is called sequential renumbering. Sequential renumbering takes a starting CPUG number provided by the switch owner and will renumber the lowest numbered CPUG in the 1/1A ESS Switch to that CPUG number provided. The next lowest CPUG number in the 1/1A ESS Switch will be renumbered to the CPUG number provided plus one. The sequential renumbering method will renumber all CPUGs in the 1/1A ESS Switch.

1/1A ESS Switch CPUG number that is to be renumbered with its 5ESS Switch CPUG number. Only 1/1A ESS Switch CPUG numbers that appear in the mapping table will be renumbered. If a 1/1A ESS Switch CPUG number is not in the mapping table then the CPUG number will not be renumbered in the mapping of

the CPUG from the 1/1A ESS Switch to the 5ESS Switch.

The switch owner must consider the renumbering of CPUGs if the 1/1A ESS Switch is being mapped into an already working 5ESS Switch or if more than one switch is being mapped into the 5ESS Switch.

- **NOTE:** If Call Pickup Group 1 exists in the 1/1A ESS Switch, then Call Pickup Group 1 must be renumbered.

11. PARTIAL OFFICE MAPPING

An office is classified as a Partial Office if only a portion of the TNs (Telephone Numbers) in the 1/1A ESS Switch are to be mapped to the 5ESS Switch.

The switch owner will provide the TN ranges that are to be mapped from the 1/1A ESS Switch to the 5ESS Switch. The LDMAP system will then extract the lines in the TN ranges provided and map only this set of lines to the 5ESS Switch.

MLHGs (Multi-Line Hunt Groups) in a Partial Office are mapped based on the LDN (Listed Directory Number) of the MLHG. If the LDN of the MLHG is in the TN ranges to be mapped, then all terminals in MLHG will be mapped to the 5ESS Switch. If the LDN is not in the TN ranges to be mapped, then the terminals in the MLHG are not mapped to the 5ESS Switch.

Two error reports are produced when extracting the TNs to be mapped. Both error reports are related to the mapping of MLHGs.

The first error report will indicate MLHG Terminals that have a Hunt TN or Nonhunt TN that is not in the TN ranges to be mapped but the Listed Directory Number is in the TN ranges to be mapped.

The second error report will indicate MLHG Terminals that have a HUNT TN or Nonhunt TN that is in the TN ranges being mapped but the Listed Directory Number is not in the TN ranges being mapped.

12. CAT CODE to DPAT CODE MAPPING

The LDMAP system will map the CAT (CENTREX Access Treatment) code associated with a CENTREX line in the 1/1A ESS Switch to a DPAT (Dialing Plan Access Treatment) code in the 5ESS Switch.

The LDMAP system uses the following default CAT Code to DPAT Code mapping table.

CAT Code	DPAT Code
0	8
1	1
2	2
3	3
4	4
5	5
6	6
7	7

The switch owner must specify a CAT Code to DPAT Code mapping table if the default mapping table is not desired.

13. GROUP SPEED CALL LISTNAME MAPPING

The LDMAP system will assign the first TN to access a 1/1A ESS Switch CENTREX Group Speed Call List as the 5ESS Switch Speed Call Listname for the Group Speed Call List.

The LDMAP system allows the switch owner to change the LDMAP assigned Listname for the Group Speed Call List by associating a new listname to the LDMAP assigned listname.

14. OPERATOR INTERCEPT LINE MAPPING

The LDMAP system has the option to map TNs (Telephone Numbers) in the 1/1A ESS Switch that terminate to Route Index 0084 to 5ODA line forms. These TNs are referred to as Operator Intercept lines.

Operator Intercept lines can be mapped to line forms in one of two methods.

1. The switch owner provides a 5ESS Switch Route Index for the Operator Intercept lines that will complete the RTI field of the line form.
2. The switch owner selects to use Regular Intercept for the Operator Intercept lines which will set the ICP field of the LINE form to "Y".

The switch owner must also provide a 5ESS Switch LCC (Line Class Code) for Operator Intercept lines so that the line form may be completed correctly.

15. ROUTE INDEX LINE MAPPING

The LDMAP system can map TNs in the 1/1A ESS Switch that terminate to a Route Index greater than 0199. These TNs are generally used for DID lines and are called Route Index Lines. The LDMAP system will map Route Index Lines to 5ODA LINE or HGRPAS forms.

The switch owner may specify that only line forms be used for the mapping of Route Index Lines. If this mapping option is chosen, then the LDMAP system will construct one 5ODA line form for each Route Index Line.

The other method available for the mapping of Route Index Lines is to use a combination of 5ODA LINE forms and HGRPAS forms.

If a hundreds group of TNs, the 5 leftmost digits of the TNs being the same, all terminate to the same route index then a HGRPAS form will be constructed for those 100 TNs. All other TNs will be mapped to a LINE form.

The 5EE Route Index may either equal the 1/1A ESS Switch Route Index or a mapping table for Route Indexes may be provided.

The mapping table will show the 1/1A ESS Switch Route Index and its equivalent 5ESS Switch Route Index. If a 1/1A ESS Switch Route Index does not appear in the Route Index mapping table, then the 5ESS Switch Route Index will equal the 1/1A ESS Switch Route Index.

A 5ESS Switch Line Class Code is required to complete the LINE forms correctly.

The LDMAP system will process only TNs that terminate to Route Indexes greater than 0199. Route Index 0084 is the only other Route Index processed by LDMAP, refer to the Operator Intercept section for details on the processing of TNs terminating to Route Index 0084.

The switch owner is responsible for the construction of the Route Index Form (5303) for any Route Index used.

16. CENTREX INTERCEPT TN MAPPING

A CENTREX Intercept TN is defined as a TN in the 1/1A ESS Switch that does not have a LEN (Line Equipment Number) but is assigned to a 1/1A ESS Switch CENTREX Group.

The LDMAP system has an option to map CENTREX Intercept TNs to 5ODA LINE forms. The LDMAP system will create a LINE form for each CENTREX Intercept TN. The LINE form has the TN, RTI, and LCC fields completed.

The RTI field is completed with the Base Route Index (BRI) found in the 1/1A ESS Switch CENTREX Common Block or with a switch owner provided Route Index.

The switch owner specifies for each 1/1A ESS Switch CENTREX Group if the BRI is to be used or if a switch owner provided Route Index is to be provided. The switch owner also specifies the LCC to be used to complete the LCC field of the LINE form.

17. LINE/MLHLN FORM UPDATES

The LDMAP can optionally update fields of the LINE or MLHLN forms that have been previously submitted to the 5ODA database. The update data is taken from the 1/1A ESS Switch and owner supplied data.

The LINE and MLHLN fields that will be updated are the following:

1. PIC - Primary Interexchange Carrier
2. TTC - Touchtone Calling
3. ALT BILL TN - Alternate Billing TN
4. SERHLN - Series Complete TN
5. GST - Ground Start
6. EL - Essential Line Service
7. BRCS - Business and Residence Custom Services
8. PRIVACY - Per Line Privacy
9. LCC - Line Class Code
10. SUSO - Suspend Origination
11. SUST - Suspend Termination
12. TN - MLHG Terminal TN (MLHLN form only)
13. FGA - Feature Group A
14. SLUS - Subscriber Line Usage
15. ANI7 - Automatic Number Identification 7
16. TRC - Call Trace
17. PALIT - Prohibit ALIT

18. FLS - Free Number

The selection of the PIC field will also update the CIDIAL field.

The LCC field can be updated with either the LCC value recovered from the 1/1A ESS Switch or by a LCC mapping table provided by the switch owner.

The SUSO field will be set to "Y", if the Originating Major Class of the Line is equal to 03 or 07.

The SUST field will be set to "Y", if the Terminating Major Class of the Line is equal to 22 or 24.

The selection of the TN field will also update the NONHUNT field and complete a MULTITN form if the MLHG terminal has both a hunt and nonhunt TN.

The FGA field is updated based on the 1/1A ESS Switch Chart Column. The switch owner provides a list of Chart Columns that FGA is to be set to "Y". Lines that have a Chart Column in the list will have FGA set equal to "Y", otherwise FGA will be set to "N".

The SLUS field is updated based on the 1/1A ESS Switch Chart Column. The switch owner provides a list of Chart Columns that SLUS is to be set to "Y". Lines that have a Chart Column in the list will have SLUS set equal to "Y", otherwise SLUS will be set to "N".

The ANI7 field is updated based on the 1/1A ESS Switch Chart Column. The switch owner provides a list of Chart Columns that ANI7 is to be set to "Y". Lines that have a Chart Column in the list will have ANI7 set equal to "Y", otherwise ANI7 will be set to "N".

The above list of LINE and MLHLN form fields are the only fields updated by LDMAP. Additional LINE and MLHLN form fields can be updated by arrangement with the AT&T NSEC engineer.

18. LDMAP OUTPUT REPORTS

This section details the possible reports that are generated from the LDMAP system. The actual reports that are generated depends on the LDMAP options that were selected in the LDMAP questionnaire.

If a report is selected to be printed and the file that creates the report is empty or does not exist then the report will be printed with the phrase "Empty Report".

18.1 1/1A ESS SWITCH FORMS

The 1101, 1107, 1109, 1115 and the 1306 forms from the 1/1A ESS switch can be printed from LDMAP only if the Partial Office Step of LDMAP is run.

It is recommended that the 1/1A ESS Switch forms not be printed from LDMAP as a full set of forms is printed from the TDD system.

18.2 TN Report

This report gives the TN Ranges that were used for a Partial Office Conversion. Only TNs in these ranges were converted.

18.3 MLHG MAP

This report shows the mapping of the 1/1A ESS Switch Multi-Line Hunt Group Numbers to 5ESS Switch

Multi-Line Hunt Group Numbers.

18.4 CPU MAP

This report shows the mapping of the 1/1A ESS Switch Call Pickup Group Numbers to 5ESS Switch Call Pickup Group Numbers.

18.5 LCC MAP

This report shows the mapping of 1/1A ESS Switch LCC (Line Class Codes) to the 5ESS Switch Line Class Codes.

18.6 RI MAP

This report shows the mapping of 1/1A ESS Switch Route Indexes to 5ESS Switch Route Indexes.

18.7 DPAT MAP

This report shows the CAT Code to DPAT Mapping Table that was used by LDMAP.

18.8 IDP PREFIX

This report shows the PREFIX that was used for each 1/1A ESS Switch CENTREX Group to construct the IDP Group Name.

18.9 CTX MAP

This report shows the mapping of the 1/1A ESS Switch CENTREX Group Numbers to the NUMBER portion of the IDP Group Names.

18.10 TGSR MAP

This report shows the mapping of 1/1A ESS Switch CENTREX Group Numbers to 5ESS Switch Terminal Group IDs.

18.11 FT MAP

This report gives the FT (Feature Type) that was used for the the TGSR (Terminal Group Station Restriction) Feature assigned to each 1/1A ESS Switch CENTREX Group. The Feature Type is either Announcement (A) or Tone (T).

18.12 ORI MAP

This report gives the RI (Route Index) that was used for the the TGSR (Terminal Group Station Restriction) Feature Originating Error Announcement for each 1/1A ESS Switch CENTREX Group.

18.13 TRI MAP

This report gives the RI (Route Index) that was used for the the TGSR (Terminal Group Station Restriction) Feature Terminating Error Announcement for each 1/1A ESS Switch CENTREX Group.

18.14 BFG Addition

This report provides the input that was used to add a Selection BFG Name to lines in an IDP group.

18.15 Change Listname

This report shows the 5ESS Switch Speed Call Listname assigned by LDMAP for a 1/1A ESS Switch CENTREX Group Speed Call List and the Speed Call Listname that was substituted for the LDMAP assigned name.

18.16 Feature Addition

This report gives the input that was used for the Feature Addition Step of the LDMAP process.

18.17 Feature Substitution

This report shows the Feature Substitution data that was used for the office.

18.18 Feature Clustering

This report shows the Feature Clustering data that was used for the office.

18.19 LASS CSI

This report contains the 1A ESS Switch Chart Columns that are restricted from having a LASS Feature Assigned.

18.20 LASS ACRG

This report contains the LASS Features and the ACRG values that restrict the LASS Feature from access to the Usage Sensitive version of the feature.

18.21 FGA

This report contains the list of 1/1A ESS Switch Chart Columns for which the FGA field on the LINE form will be set to "Y".

18.22 SLUS

This report contains the list of 1/1A ESS Switch Chart Columns for which the SLUS field on the LINE form will be set to "Y".

18.23 ANI7

This report contains the list of 1/1A ESS Switch Chart Columns for which the ANI7 field on the LINE form will be set to "Y".

18.24 CENTREX Intercept - Base Route Index

This report shows the Base Route Index and Line Class Code that was used for each 1/1A ESS Switch CENTREX Group to construct 5ODA LINE forms for CENTREX Intercept TNs.

18.25 Partial Office Error Report 1

This report gives MLHG MEMBERS that have a HUNT TN or NONHUNT TN that is not in the range of TNs to

be converted but the LDN (Listed Directory Number) of the MLHG is in range. The MLHG MEMBERS listed in this report are converted.

18.26 Partial Office Error Report 2

This report gives MLHG MEMBERS that have a HUNT TN or NONHUNT TN that is in the range of TNs to be converted but the Listed Directory Number of the MLHG is not in range. The MLHG MEMBERS listed in this report are not converted.

18.27 Error File

This report provides a listing of error messages that are generated by the Feature Conversion step of LDMAP.

18.28 NO5E

This report lists the TN or MLHG MEMBERS that have a 1/1A ESS Switch feature that can not be converted to a 5ESS Switch feature. The 1/1A ESS Switch features for this report comes from the 1107A form.

18.29 NOTGSR

This report gives TNs and MLHG MEMBERS that are in a 5ESS Switch Terminal Group but which no TGSR Feature has been assigned. The 1/1A ESS Switch OMAJ (Originating Major Class) and the TMAJ (Terminating Major Class) for the line is also given.

18.30 GSC No Owner

This report provides a list of 1/1A ESS Switch CENTREX Group Speed Call Lists that do not have an owner or a user of the Group Speed Call List. These 1/1A ESS Switch CENTREX Group Speed Call Lists will NOT be mapped to a 5ESS Switch Speed Call List.

18.31 GSC Listname

This report gives the Speed Call Listname that was assigned by LDMAP to the 1/1A ESS Switch CENTREX Group Speed Call Lists that are being mapped to 5ESS Switch Speed Call Lists.

18.32 GSC Changers

This report gives the 1/1A ESS Switch CENTREX Group Number, the Group Speed Call List Number and either the Telephone Number or Multiline Hunt Group Number and Terminal that have change capability to the Group Speed Call List. These TNs and MLHG Terminals have been assigned a 5ESS Switch Speed Call Feature with change capability for a 2-Digit Speed Call List.

18.33 GSC Users

This report gives the 1/1A ESS Switch CENTREX Group Number, the Group Speed Call List Number and either a Telephone Number or Multiline Hunt Group and Terminal Number that have access to the Group Speed Cca List but do not have change capability to the Group Speed Call List. These TNs or MLHG Terminals have been assigned a 5ESS Switch Speed Call Feature without change capability for a 2-Digit Speed Call List.

18.34 TN_CLUS

This report gives the TNs that have had a cluster assigned. The TN is followed by the name of the cluster that was assigned. If more than one cluster has been assigned to a TN, the TN will appear in the report once for each cluster assigned.

18.35 MLHG_CLUS

This report gives the MLHG MEMBERS that have had a cluster assigned. The MLHG number and MEMBER number are followed by the name of the cluster that was assigned. If more than one cluster has been assigned to a MLHG MEMBER, the MLHG MEMBER will appear in the report once for each cluster assigned.

18.36 Feature Summary Report

This report provides a count of lines with unique sets of features for each IDP Group in the office. Lines not in an IDP Group are grouped together under the Group Name "POT". Features that have the character "%" prefixed to the feature name are features that have been included in a cluster. These features will not appear on a LINEFA or MLHLNFA form.

18.37 Feature Map Report

This report provides the mapping of features that was used for this office. The feature mapping is given for each IDP group and for POT lines.

18.38 UPDATE

This report gives the Batch Interface records that were submitted to the 5ODA to update LINE and MLHLN forms.

18.39 NEWFORMS

This report gives the Batch Interface records that were submitted to the 5ODA to add new forms to the 5ODA database.

Automatic Call Back

1107 Form:

Type 00 record, weighted value of 1 in column 60

1109 Form:

None

5ESS Switch Feature:

/ACBC

Parameter Forms Completed:

None

Call Wait - Terminating

1107 Form:

Type 00 record, weighted value of 2 in column 50

1109 Form:

CWI (Call Wait Intragroup) indicated by a weighted value of 2 in column 52 of Descriptive Line.

5ESS Switch Feature:

/CWT - POTS lines

/CWT - CENTREX lines with CWI

/CWIO - CENTREX Lines without CWI

Parameter Forms Completed:

None

Call Wait - Originating

1107 Form:

Type 00 record, weighted value of 2 in column 49
1109 Form:

None

5ESS Switch Feature:

/CWO

Parameter Forms Completed:

None

Dialed Call Waiting

1107 Form:

Type 00 record, weighted value of 1 in column 56
1109 Form:

None

5ESS Switch Feature:

/CWD

Parameter Forms Completed:

None

Call Forward - Variable

1107 Form:

Type 00 record, weighted value of 4 in column 51

Type 00 record, weighted value of 2 in column 60

Type 00 record, weighted value of 2 in column 72

1109 Form:

CFO (Call Forward Outside) indicated by a weighted value of 1 in column 54 of Descriptive Line.

RGR (Ring Reminder) indicated by a weighted value of 2 in column 50 of Descriptive Line.

5ESS Switch Feature:

/CFV1A - for POTS Lines

/CFV1A - for CENTREX Lines with CFO

/CFIAG - for CENTREX Lines without CFO

Parameter Forms Completed:

cfwlp, cfwmpa

Call Forward - Don't Answer

1107 Form:

Type 38 record

Type 52 record

Type 1R record

CFUS (Call Forward Unrestricted Source) indicated in column 44 of the above record types.

Column 45 of the above record types is used to complete the TIMEOUT field.

1109 Form:

Type 02 records for determining the quantity of digits for the Forward To TN.

5ESS Switch Feature:

/CFDAAC - for POTS Lines

/CFDAAC - for CENTREX Lines with CFUS

/CFDAIO - for CENTREX Lines without CFUS

Parameter Forms Completed:

cfwlp, cfwmpa

Call Forward - Busy Line

1107 Form:

Type 26 record

Type 51 record

Type 1R record

CFUS (Call Forward Unrestricted Source) indicated in column 44 of the above record types.

1109 Form:

Type 02 records for determining the quantity of digits for the Forward To TN.

5ESS Switch Feature:

/CFBLAC - for POTS Lines

/CFBLAC - for CENTREX Lines with CFUS

/CFBLIO - for CENTREX Lines without CFUS

Parameter Forms Completed:

cfwlp, cfwmpa

Remote Call Forward

1107 Form:

Type 23 record

1109 Form:

None

5ESS Switch Feature:

/CFR

Parameter Forms Completed:

cfwlp

Call Forward Night Service

1107 Form:

Type 41 record

1109 Form:

None

5ESS Switch Feature:

/CFNS

Parameter Forms Completed:

cfwlp

Call Hold

1107 Form:

Type 00 record, weighted value of 4 in column 48

1109 Form:

None

5ESS Switch Feature:

/MWCH1 - if line also has Call Transfer or Call Wait Terminating.

/MWCH2 - if line does not have Call Transfer and Call Wait Terminating.

Parameter Forms Completed:

None

Conference Calling (6-way Calling)

1107 Form:

Type 00 record, weighted value of 1 in column 49

1109 Form:

None

5ESS Switch Feature:

/MW6WC

Parameter Forms Completed:

none

Call Transfer (3-way Calling)

1107 Form:

Type 00 record, weighted value of 4 in column 49

1109 Form:

CTD (Call Transfer DID) to DOD indicated by a weighted value of 4 in column 51 of the Descriptive Line.

CTU (Call Transfer Unlimited) indicated by a weighted value of 1 in column 53 of the Descriptive Line.

CTO (Call Transfer Outside) indicated by a weighted value of 4 in column 53 of the Descriptive Line.

CTI (Call Transfer Individual) indicated by a weighted value of 4 in column 54 of the Descriptive Line.

5ESS Switch Feature:

/MW3WC - for POTS Lines

The following table is used for CENTREX Lines.

Call CTU CTO CTI CTD FEATURE

Hold

dc yes yes yes yes /MWCTIA1

dc yes yes yes no /MWCTIA2

yes no yes yes yes /MWCTII1

no no yes yes yes /MWCTII2

yes no no yes no /MWCTII3

no no no yes no /MWCTII4

yes no no no no /MWCTA1

no no no no no /MWCTA2

Parameter Forms Completed:

None

Call Pickup

1107 Form:

Type 61 record for Regular CPU

1109 Form:

TAS (Trunk Answer Any Station) indicated by a weight of 1 in column 46.

5ESS Switch Feature:

/CPUO, /CPUT -

if Regular CPU and without TAS or TAS control station

/CPUO2 /CPUT -

if Regular CPU and TAS

/CPUO - if TAS only

Parameter Forms Completed:

pulpa, pumpa

If Regular CPU and TAS then SELQ1 is the TAS Pickup Group Number and SELQ2 is the Regular Pickup Group Number.

Directed Call Pickup - Barge In

1107 Form:

Type 00 record, weighted value of 2 in column 52

1109 Form:

none

5ESS Switch Feature:

/CPUDT - for line with above record

/CPUDO - for all other lines in CENTREX Group

Parameter Forms Completed:

None

Directed Call Pickup - Non-Barge In

1107 Form:

Type 00 record, weighted value of 2 in column 56

1109 Form:

None

5ESS Switch Feature:

/CPDNO - for line with above record

/CPDNT - for all other lines in CENTREX group with

Regular CPU

Parameter Forms Completed:

None

Multiple DN

1107 Form:

Type 00 record, weighted value of 1 in column 72

Type 00 record, weighted value of 2 in column 72

Type 1S record

1109 Form:

None

5ESS Switch Feature:

A mtnr form is completed for each Type 1S record.

Parameter Forms Completed:

cfwlp

The FORWARD MULTIPLE TN field is completed based on the weighted values in column 72.

Distinctive Ringing

1107 Form:

Type 00 record, weighted value of 1 in column 61

Type 00 record, weighted value of 2 in column 61

1109 Form:

DRR (Distinctive Ringing and Call Waiting Tone) indicated by a weighted value of 1 in column 48.

5ESS Switch Feature:

/DRIC - if the line has a weighted value of 1 in column 61.

/DRCWO - if DRR is indicated and no weighted value of 2 in column 61.

/DRDCW - if DRR is indicated and no weighted value of 2 in column 61.

Parameter Forms Completed:

None

Speed Call

1107 Form:

Types 05, 06, 15, 16, 18 19, 45, 64 and 76 records

1109 Form:

None

5ESS Switch Feature:

Use the following table to determine the speed call feature used for 5E6 and later generics.

1 Digit List

changeable /SC1C

nonchangeable /SC1

2 Digit List

changeable /SC2C

nonchangable /SC2

Parameter Forms Completed: sclpa, scmpa, sclist

IDP

5ESS Switch Feature -

For generics 5E6 and later all lines in a 1/1A ESS Switch CENTREX Group will be assigned the Individual Dialing Plan Feature

/IDP.

Parameter Forms Completed: idplpa, idpmpa

ICLID

1107 Form:

Type 1T

1109 Form:

None

5ESS Switch Feature:

/LICNDP - if flat rate billing

/LIDADP - if usage sensitive billing

Parameter Forms Completed:

None

Automatic Recall

1107 Form:

Type 1H record

1109 Form:

Automatic Recall Access Codes from Data Type 05 Subtype 31 records.

5ESS Switch Feature:

/LAR1 - if subscription access AR ALW field of LINE form equals Y if Usage Sensitive access.

Parameter Forms Completed:

None

Automatic Callback

1107 Form:

Type 1H record

1109 Form:

Automatic Callback Access Codes from Data Type 05 Subtype 31 records.

5ESS Switch Feature:

/LAC1 - if subscription access AC ALW field of LINE form equals Y if Usage Sensitive access.

Parameter Forms Completed:

None

Customer Originated Trace

1107 Form:

Type 1H record

1109 Form:

Customer Originated Trace Access Codes from Data Type 05 Subtype 31 records.

5ESS Switch Feature:

/COT1 - if subscription access COT ALW field of LINE form equals "Y" if Usage Sensitive access.

Parameter Forms Completed:

None

Per Call Privacy

1107 Form:

None

1109 Form:

Per Call Privacy Access Codes from Data Type 05 Subtype 31 records.

5ESS Switch Feature:

/DIDNP - if subscription access PCP ALW field of LINE form equals "Y" if Usage Sensitive access.

Parameter Forms Completed:

None

Figure 1 LDMAP SYSTEM DESCRIPTION FEATURE MAPPING TABLE

COLUMN	WEIGHT	FEATURE ACRONYM	FEATURE NAME
44	1	OP	Originating Priority
44	2	TP	Terminating Priority
44	4	TST	Test Line
45	4	OSI	Open Switch Interval
46	4	SLL	Sleeve Lead
47	2	AMA	Automatic Message Accounting
47	4	HOM	Hotel-Motel Service
48	1	STB	Special Trunk Billing
50	1	AID	Automatic Identified Outward Dialing
53	1	IMB	Call Forward - Inhibit Make Busy
53	2	ILB	Call Forward - Inhibit Line Busy
53	4	OV	Overflow
54	1	DLY	Delay
54	2	CDA	Customer Data Accumulator
54	4	PDT	Prohibit Terminating Disconnect Timing
55	1	FCA	Flash for City of Origin Announcement
55	2	60A	60A CPS Console
56	4	MBL	Mobile
57	1	MSG	Message Detail
57	2	ITQ	Inhibit Trunk Queuing
57	4	INF	Inflow
58	4	IDB	INWATS Data Base DN Indicator
59	1	IWD	INWATS Directory Number
59	2	TLI	Transmission Loss Insertion
59	4	BIS	Busy Idle Status
60	4	ARQ	Permit Access to Restricted Queue
61	2	DDT	Distinctive Ringing and Call Waiting Tone
64	1	CSR	Customer Station

			Rearrangement
64	2	IAS	Inactive Line Feature
64	4	AGLI	Agent Login
65	1	UTD	Usage Sensitive Three-Way Calling
65	2	TIC	Test Interexchange Carrier
66	1	MWI	Message Waiting Indicator
66	2	TLDN	Temporary Local Directory Number
66	4	SDN	Second Local Directory Number
67	4	HMI	Home Intercom
68	1	CEK	Centrex Electronic Key
68	2	CCPIC	Customer Changeable PIC
68	4	CWC1	City Wide Centrex
69	1	PAS	Project Accounting Service
69	4	SAN	Special Access Number Indicator
70	1	VDP	Voice Data Protection
70	2	RDF	Residential Data Facility Pooling
70	4	SVP	Single Line Variety Package
71	1	MSC	Message Service Center
71	2	VMW	Visual Message Waiting

Figure 2 LDMAP SYSTEM DESCRIPTION 1107 TYPE 0 NO5E

1107 TYPE	FEATURE ACRONYM	FEATURE NAME
02	MSN	Master Scan Point Number
03	SDN	Signal Distributor Number
04	PBX-MBK	PBX Make-Busy Keys
07	CTS	Cellular Telephone Service
10	OSI	Open Switching Interval
11	AIOD	AIOD Index
12	CGA	Carrier Group Alarm
13	GSAN	Ground Start Applique Number
14	EBN	External Billing Number
17	PNBDN	Public Network Billing Directory Number
20	PMBKEYS	Position Make-Busy Key
21	PREF-MLH	Preferential Multi-Line Hunting Lists
22	SFG-POTS	Simulated Facilities Group - POTS
24	TLG	Traffic Line Group
25	DALTNN	Direct Access Line - Trunk Network Number
27	AGT-MBK	Agent Make-Busy Key
28	INH-INTR	Inhibit Intraflow Key - AQTL Queue
29	NITE-KEY	Local Night Transfer Key
30	SDA	Signal Digit Analysis
31	INTER-Q	Interflow Queue
32	VDC	Visual Display Code
33	IJK	Inhibit Inflow Key
34	60B	60B CPS Console
35	CLDI	Calling Line Display Index
39	CSDC	Circuit Switching Digital Capability
40	CONS-CI	Console Call Indicator Lamp
42	CILA	Call Indicator Lamp - Attendant Intercept
43	CILN	Call Indicator Lamp - No Answer Transfer
44	CILP	Call Indicator Lamp - Incoming Priority
47	STDN	Satellite Transfer Directory Number
48	CCIL	Call Indicator Lamp - Attendant Conference
50	ACOF	Attendant Control of Facilities
53	CIBP	Call Indicator Lamp - Busy Line Incoming

54	CIBD	Call Indicator Lamp - DID/CCSA Busy Line
55	CIBT	Call Indicator Lamp - Tie Line
56	CIDD	Call Indicator Lamp - Don't Answer
57	CIAP	Call Indicator Lamp - Direct Dial
58	CIDP	Call Indicator Lamp - Priority AUTOVON
59	SFG-CTX	Simulated Facilities Group - CTX
60	RLS	Release Link Satellite
63	TGN-LPS	Trunk Group Busy Lamps
65	DAG	Data Accumulation Group
66	CSDD	Call Store Data Display
67	CDAR	Customer Dialed Account Recording
68	QNS	Queue Number - Split
69	NORG	Split/Reporting Group Size
70	SUR	Surcharge for Hotel/Motel
71	ACMOS	ACMOS for Selected Intercom Calls
72	DLG	Data Link Groups
73	SCRAF-AC	CSRAF Security Authorization Code
74	VML	CSRAF Variable Message Length Channel
75	CSRAF-IV	CSRAF In-Service Verify
77	OTQ1	Outgoing Trunk Queuing
79	CFG	Customer Facility Groups
80	STAR	Silence - Tone - Audible Ringing
81	APCF	AUTOVON Priority Call Forwarding
82	ACS-MDR	Authorization Code Screening
83	DNCI	Dedicated Network Customer Number
84	CFPF-A	Call Forwarding Private Facilities
85	CPUG	Centrex Group to Call Pickup
86	CFPF	Call Forwarding Private Facilities
87	CFPF	Call Forwarding Private Facilities
88	CTX-CI	Centrex Carrier Interconnect
89	CWC1	City Wide Centrex
90	LASS-SL	LASS - Screen List
91	BCLID	Bulk Calling Line Identification
92	BCLID	Bulk Calling Line Identification
93	SCF	LASS- Selective Call Forward
1A	MDS	Message Desk Service
1B	APX-CF	Autoplex 100 Call Forward
1C	TLDN-MIN	TLDN to Mobile Identification Number
1D	ICLID	Individual Calling Line Identification
1G	LSA	Limited Service Area
1J	SCR	Selective Call Reject
1K	SCF	Selective Call Forward
1L	DA	Distinctive Alert
1M	BCLID	Bulk Calling Line Identification
1N	RA	Remote Access Service
1P	APX-PCD	Paging Code Data
1Q	VDP	Voice Data Protection
1U	DN-CTX	DN-CTX Extension Digit Replacement
1V	SCD	Selective Carrier Denial
1W	SCF	Separation of Selective Call Forward

Figure 3 LDMAP SYSTEM DESCRIPTION 1107 TYPE NO5E

SEC. 12: ODA OFF-LINE LARGE TERMINAL GROWTH PLAN

1. GENERAL

This section describes the LTG (Large Terminal Growth) software schedule and the software tools provided by the 5ODA system to grow the ODD (Office Dependent Data). Growth data (non-equipment data) will be added to the existing (dumped) data on an off-line processor at the ODA production facility at either the Network Software Center or Lisle Center 5ESS Switch ODA Production Facility. The ODA off-line process merges the growth and existing data and the complete input forms database processed through mapping and **dbgen**, and delivered to the office site.

This section describes the responsibilities of the Lucent Technologies SEE (System Equipment Engineer) for the large terminal growth procedure. The following steps are necessary to perform the ODD growth:

1. decompile the ODD from binary to ascii base relations,
2. reverse map the dumped data to the existing compatible software release to the ODA input view database,
3. merge the dumped data with the new growth (non-equipment) data,
4. perform the database validity checks, and
5. map the input data into a new machine loadable database.

For 5E6 and later LTGs, an additional optional off-site procedure can be added. Seventeen days of recent changes can be reapplied after the data has been mapped to the final machine loadable format.

The OSDM (Office Software Database Management) organization at NSC monitors the general progress of each office. The success of this off-site processing depends on the timely completion of the LTG schedule requirements. The *final* interval outlined for the off-site processing is a very tight schedule. However, the schedule can be met if each day's objectives are met.

2. LARGE TERMINAL GROWTH REGISTRATION

Before any office can begin off-line growth procedures, the office must be registered in the 5ODA registration system at least 6 weeks prior to the date the preliminary off-site processing is scheduled to begin. The procedure to register a large terminal growth office is the same procedure used to register initial orders. This procedure is described in detail in Division 1, Section 7, *5ODA User's Guide*. After the registration form has been completed and inserted into the registration database, the OSDM organization is automatically notified of the registration and begins initialization procedures. Four logins are set up for each large terminal growth office. One login is provided for the Lucent Technologies SEE. This login is the six character alphanumeric base and control number preceded by *we* (e.g. we1234d0). Two logins are set up for customer use, one is for line (li) error correction (e.g. li1234d0) and the other is for trunk (tr) error correction (e.g. tr1234d0). The support organizations are provided a login which is the office's base and control number preceded by *re* (e.g. re1234d0). This last login is a read-only login to review the office input data. Login procedures are described in Division 1, Section 7, the *5ODA User's Guide*.

3. LARGE TERMINAL GROWTH TAPE REQUIREMENTS

The customer must provide three sets of tapes for LTG,

1. the new bulk data tape,
2. the *Preliminary Dump* tape, and
3. the *Final Dump* tape.

Only one set of tapes is required for the preliminary dump. The final dump requires two sets of tapes of the ODD and ECD. All the tapes are required to be 2400 foot 9-track magnetic tapes. All of the tapes must be labeled with the following information:

- the office name.
- the office base and control number.
- the content of the tape; whether ODD or ECD, and if it is the preliminary dump, the final dump, or the new bulk data.
- the date that the dump occurred (if dump tape).
- the Software Release issue and release of the dump (if dump tape).
- the tape series number of the total number of tapes (e.g. 1 of 5, 2 of 5, etc.).

The new bulk data tapes are sent to the OSDM group located at the Network Software Center. The actual dump of the ODD and ECD from the 5ESS Switch is performed by the customer or Lucent Technologies. The tapes for both the preliminary and final dumps are shipped air express (overnight carrier only) to the OSDM group at the following address:

Send ODD/ECD tapes to:	Send new bulk data tapes to:
Lucent Technologies Network Software Center 2600 Warrenville Rd. Lisle, Illinois 60532 Attn: 5ESS Switch ODD/ECD	Lucent Technologies Network Software Center 2600 Warrenville Rd. Lisle, Illinois 60532 Attn: ODA Tape Processing

The ECD, ODD, and new bulk data tapes are read into the appropriate directory structure on the production computer.

The following sections will detail the processing required for both the preliminary and final office dumps.

4. LARGE TERMINAL GROWTH SCHEDULES

The standard interval for off-line large terminal growth of the ODD and ECD is 5 weeks. This includes the preliminary dump and the final dump of the ODD and ECD.

The time interval for the preliminary dump processing is 3 weeks. The SEE processes the preliminary dump, using manual data entry to remove all Level 1, 2, and 3 errors from the dumped database. The purpose of the preliminary dump is to analyze any database inconsistencies, and to anticipate the amount of error correction required in the final dump.

For 5E5, the final dump is processed within a 12 day interval. For 5E6 and later, the final dump interval is 17 days. The SEE ensures that the daily goals of the software schedule, outlined in the following section, are met.

The following schedule outlines the preliminary and final dump processes showing the time line in weeks and days ending with the Friday night of the on-site large terminal growth.

4.1 Registration, Initialization, Load New Data

An office must first be registered and initialized before any processing of the data.

4.1.1 Week - 13

The SEE registers the office.

4.1.2 Week - 7

1. OSDM initializes the office and the logins on the appropriate 5ODA production machine.
2. A new database is initialized containing only standard non-equipment data. Therefore, all form types are accessible, except those that start with **eq**.
3. When the bulk data tape arrives, the OSDM group loads the tape into the new database using the **readbatch** and **batchload** commands. The **batchload** command ensures that all the data records are marked internally as new data. All data that is manually inserted is also marked as new data.
4. The SEE and the customer then correct any existing errors. The SEE executes the **crosscheck** command to identify any cross check errors in the database, which then must be corrected. All Level 1, 2, and 3 errors are removed from the new database before it is merged with the preliminary dump data.

4.2 Preliminary Dump

A detailed LTG schedule can be viewed on the 5ODA PSS (Production Scheduling System). This schedule is automatically generated in PSS based on the on-site LTG date. The OSDM will provide instructions on how to access the PSS data if needed. All preliminary dump processing is the responsibility of the SEE. The time interval for the preliminary dump processing is 18 days and should be concluded 2 weeks prior to the on-site large terminal growth date.

4.2.1 Week - 5

1. The customer dumps the ODD and ECD on separate tapes and duplicates them. (The ECD dump is needed to determine the office VTOC (Volume Table of Contents)). The tapes are sent to the OSDM group which is located at the Lisle 5ESS Switch Production Facility.
2. OSDM loads the tapes onto the appropriate 5ODA production machine.
3. The **readdump** command reads the dump tapes onto the processing machine.
4. Following a successful **readdump**, the **revdbgen revmapping** process is automatically submitted to decompile the ODD and recover the dumped data to existing compatible software release version of the 5ODA input forms. This process automatically generates a file of base relation cross checks (**basecheck**).
5. The SEE uses the **crosscheck** command and manual data entry to remove all errors from the preliminary dump database. The data must be free of all Level 1, 2, and 3 errors prior to merging with the new growth data.

6. The SEE then contacts OSDM to have the new growth data added to the preliminary office dump. OSDM uses the **merge** command to merge the new data with the data from the preliminary dump to create the preliminary merged database.
7. During the merge, duplicate records may be produced. These records will not be inserted into the merged database. The duplicate records are saved in the **prntfiles** directory where the SEE and the 5ODA Customer Technical Support can review them.
8. The SEE uses the **crosscheck** command and manual data entry to remove all errors from the preliminary merged database.
9. Base relation cross checks (**basechecks**) are analyzed by the 5ODA Customer Technical Support, and they determine if the update should be applied on-site before the final dump is made.
10. The SEE reviews the analysis report, which is automatically generated during the preliminary data dump processing, to ensure that the office has enough memory.
11. OSDM prepares the preliminary dump database for the final office dump using the command **finalgrow**. The office records in the **prntfiles** directory are saved in the **preprntfiles** directory. All other data from the preliminary dump is removed.
12. This completes the preliminary processing.

4.3 Final Dump

The following steps occur in the 12 day (5E5) or 17 day (5E6 and later) interval prior to the on-site LTG. Any differences between schedules for 5E5 and 5E6 and later are noted for the specific step.

4.3.1 Week - 2 Tuesday (5E5)

Week - 3 Friday (5E6 and later)

1. The final office dump, which was performed on the preceding Monday for 5E5 or the preceding Wednesday for 5E6 and later, must arrive at the Lisle 5ESS Switch Production Facility by 9AM Tuesday (5E5) or Friday (5E6 and later). The OSDM group loads the final dump tapes using the **readdump** command. The reverse process, **revdbgen** and **revmapping**, is then executed. The process decompiles the dumped ODD, automatically performs base relation crosschecks, and automatically runs Level 1 and Level 2 error checks.

4.3.2 Week - 2 Wednesday (5E5)

Thursday (5E6 and later)

1. When these processes have completed successfully, the final dump database is opened up to the SEE for error correction. The SEE uses the **crosscheck** command and manual data entry to remove all Level 1, 2, and 3 errors from the database.
2. The SEE uses the **crosscheck** command and manual data entry to remove all Level 1, 2, and 3 errors from the new growth data. The new data must be free of all Level 1, 2, and 3 errors prior to merging with the final dump database.
3. The SEE contacts 5ODA Customer Technical Support to have the new growth data added to the final

office dump. Both the final dump database and the database containing the new data must be free of Level 1, 2, and 3 errors. OSDM use the **merge** command to merge the new data with the data from the final dump to create the merged database.

4. During the merge, duplicate records may be produced. These records are not inserted into the merged database. The duplicate records are saved in the **prntfiles** directory where they can be viewed by the SEE and the 5ODA Customer Technical Support.

4.3.3 Week - 2 Friday (5E5)

Saturday (5E6 and later)

1. The SEE uses the **crosscheck** command and manual data entry to remove all errors from the merged database.
2. The merged database must be error free by noon Saturday when it will be frozen. Once the database is frozen, the SEE executes the **mapping** and **dbgen** commands which map the data into 5ESS Switch base relations and generates the new ODD. This large processing routine requires the weekend to process so that the large terminal growth schedule can be met.
3. The office records are generated.

4.3.4 Week - 1 Monday

1. The **mapping** and/or **dbgen** problems are resolved by Monday morning. 5ODA Customer Technical Support reviews the results of the **dbgen** command.

For 5E6 or later, the customer can apply the last 17 days of recent changes to the ODDs. The Recent Change log file is electronically transferred from the 5ESS Switch site to the Lisle Center 5ESS Switch ODA Production Facility via SCANS (Software Change Administration and Notification System). The RC log file is first transferred from the switch to a SCANS machine by Lucent Technologies SUMS (Software Update Management System) personnel. It is then automatically transferred to the 5ODA production machine for **offrcr** command processing. If the **dbgen** command has completed successfully, the **moverscan** process automatically submits **offrcr**.

2. The OSDM group executes the **maketape ldft** command to generate the new ODD tapes. They also produce the hard copy listings of the office records and the functional listings. One copy of each is mailed to the site along with the ODD tape(s). A tape of the office records and functional listings is sent to the SEE responsible for the office.

4.3.5 Week - 1 Tuesday

1. After tape verification, the ODD tape(s) are transferred from Lisle Center 5ESS Switch ODA Production Facility to the Network Software Center for packaging and shipping preparation.
2. For offices that have run **offrcr**, the OSDM generates a hard copy listing of the recent changes which were *not* reapplied to the ODD. The OSDM also generates a hard copy listing of the recent changes which were successfully reapplied to the ODD. Both of the above items are mailed back to the site along with the ODD tape(s), office records, and functional listings.

4.3.6 Week - 1 Wednesday:

- OSDM packages and ships 2 copies of the merged ODD tape(s), 1 copy of office records, and 1 copy of the functional listing to the site. In addition to the above items, for 5E6 and later LTGs, OSDM packages and ships 2 copies of the failed recent change listing and 1 copy of the successfully reapplied recent change listing.

4.3.7 Week - 1 Friday:

- On-site large terminal growth occurs.

5. SPECIAL NOTES

The above schedule is critical to the success of each large terminal growth. It is the System Equipment Engineer's responsibility to ensure that these dates are met. The dates listed above for data entry, database evolution, input form crosschecks, **mapping** and **dbgen**, and **offrcr** for 5E6 and later are the *latest* dates possible to guarantee a timely ODD delivery. If these benchmarks are met earlier, this helps to ensure the timely delivery of the ODD and the merged database to the site.

SUMMARY OF LTG PROCEDURE (5E6 and Later)		
Week From LTG Date	Day	Action
Week - 13		SEE registers office.
Week - 7		1) Initialize offices on production machine; 2) load new bulk data; 3) analyze level 1, 2, and 3 errors on the new data.
Preliminary Dump		
Weeks - 5 & - 4		1) Read in preliminary dump tapes; 2) decompile ODDs to input forms; 3) analyze and clean level 1, 2, and 3 errors from dumped data; 4) merge new growth data to dumped data; 5) analyze duplicate records; 6) analyze and clean level 1, 2, and 3 errors from merged data; 7) review "analysis" report for memory size; 8) OSDM prepare for final dump.
Final Dump		
Week - 3	Fri	1) Read in final dump tapes; 2) decompile ODDs to input forms.
Week - 2	Wed-Thur	1) Clean level 1, 2, and 3 errors on dumped data; 2) clean level 1, 2, and 3 errors on the new data; 3) merge the new growth data to the dumped data.
Week - 2	Fri-Sat	1) Clean level 3 errors on merged data; 2) map error free input forms to new base relations; 3) submit dbgen to build new ODDs; 4) generate office records.
Week - 1	Mon	1) Receive RC log file; 2) apply log file to new ODDs; 3) generate new ODD tape.
Week - 1	Tue-Wed	1) Generate new ODD tapes; 2) generate RC reports, office record, and functional listing.
Week - 1	Wed-Thur	1) Tape verification; 2) ship tapes and listings.
Week - 1	Fri	On-site large terminal growth.

Figure 1 SUMMARY OF LARGE TERMINAL GROWTH SCHEDULE (5E6 AND LATER)

SEC. 13: ODA OFF-LINE RETROFIT PLAN

1. GENERAL

This document presents the scheduling plans and procedures necessary to successfully perform an off-line retrofit of a 5ESS Switch ODD and ECD. It is written for the Lucent Technologies Systems Equipment Engineer and explains the software tools provided by the 5ODA system to perform the ODD and ECD retrofit.

The success or failure of a scheduled 5ESS Switch office retrofit and a subsequent office growth, depends on the delivery of the ODD and ECD at the time dictated by the procedures enclosed. The SEE (Systems Equipment Engineer) is responsible for execution of the retrofit data generation procedures. The SEE must insure that data error corrections are valid and applied to the database within the time constraints.

This document describes the current retrofit software schedule and software tools provided by the 5ODA system to retrofit the ODD (Office Dependent Data) and the ECD (Equipment Configuration Data) from one version of the 5ESS Switch Software Release to another. These databases are retrofitted on an off-line processor at the 5ODA production facility located at the Lisle Center 5ESS Switch ODA Production Facility or the Network Software Center in Lisle, Illinois.

The goal of these retrofit procedures is to upgrade office databases (ODD and ECD) to a new software release load. To retrofit an office to a new software release, the ODD and ECD must be reformatted. The physical structure of ODD and ECD is typically not upward compatible with the new release of the software.

1.1 Command Steps For ODD Retrofit

The following are the command steps necessary to perform the ODD retrofit:

- decompile the ODD from binary to ASCII base relations,
- cross check the decompiled base relations,
- reverse map the dumped data to the compatible existing software release of the ODA input view data base,
- evolve the ODD and ECD to the new software release compatible format,
- correct any inconsistency in the input database,
- perform the input view database validity checks, and
- map the input data into a new machine loadable database.
- In addition, seventeen days of recent changes will be reapplied after the data has been mapped to machine loadable format.

The OSDM (Office Software Database Management) organization at NSC monitors the general progress of each retrofit. The OSDM is responsible for filing a formal "jeopardy" report if a retrofit postponement is possible because processing is behind schedule. A postponed retrofit effort may cause a slip of several months and will require the entire retrofit process to begin again. This includes re-negotiation with the customer, scheduling of a new retrofit date, re-dumping the ODD/ECD, re-analysis of the new dumps by 5ODA Customer Technical Support, the re-application of error correction by the Systems Equipment Engineer and computer processing. Therefore, every effort must be made to keep a retrofit on schedule.

The "final" 17 day interval for retrofits outlined for the off-site processing is a very tight schedule. Experience has shown that this schedule can be met, if the Systems Equipment Engineer responsible for the retrofit strictly adheres to each day's objectives.

2. RETROFIT REGISTRATION

Before any office can begin retrofit procedures, the office must be "registered" in the 5ODA registration system at least 4 weeks prior to the date the off-site processing at NSC is scheduled to begin processing. The procedure to register a retrofit office is the same procedure used to register initial orders. This procedure is described in detail in Division 1, Section 7, "The 5ODA User's Guide". After the registration form has been completed and inserted into the registration database, the 5ESS Switch Software Production Organization is automatically notified of the new registration and begins initialization procedures. Four logins are set up for each retrofit office. One login is provided for the Lucent Technologies System Equipment Engineer. This login consists of a six alphanumeric base and control number preceded by 'we' (e.g. we1234d0). Two logins are set up for customer use for line and trunk error correction (e.g. li1234d0 and tr1234d0). The fourth login consisting of the office's base and control preceded by 're' (e.g. re1234d0) is a read-only login for the support organization to review the office input data. Login procedures are described in the Division 1, Section 7.

3. RETROFIT TAPE REQUIREMENTS

The customer dumps the ODD and ECD onto a tape five weeks prior to the retrofit and again 17 days before the actual retrofit. The first data dump is the "Preliminary Dump" and the second data dump is the "Final Dump". The preliminary dump requires one set of dump tapes, while the final dump requires two sets of dump tapes. The dump tape for the ODD and ECD must be a 2400 foot 9-track magnetic tape. Tapes must be labeled with the following information:

- the office name,
- the office base and control,
- the content, whether ODD or ECD, preliminary or final dump,
- the date dump occurred,
- the Software Release type, issues, and release of the dump, and
- the tape series number (e.g. 1 of 5, 2 of 5, etc.).

The actual dump of the ODD and ECD from the 5ESS Switch is performed either by the customer or Lucent Technologies. Tapes for preliminary and final dumps are shipped air express (overnight carrier only) to the Office Software Database Management group at the following address:

Lucent Technologies
Network Software Center
2600 Warrenville Rd.
Lisle, Illinois 60532

Attn: ODA Tape Processing

The ECD/ODD tapes are read into the appropriate 5ODA production machine. The Systems Equipment Engineer responsible for the retrofit is notified by the Office Software Database Management group on which production machine the retrofit will be processed.

4. RETROFIT SCHEDULES

The standard interval for off-line retrofit of the ODD and ECD is 5 weeks. This includes the preliminary dump and the final dump of the ODD and ECD.

The time interval allowed for the preliminary dump processing is 3 weeks. The Systems Equipment Engineer is responsible for the processing of the preliminary dump. After the ODD is decompiled, base relation inconsistencies are identified and analyzed by 5ODA Customer Technical Support. Most problems are corrected by the SEE and customer at the input form level. Recent Change updates and/or overwrites to the live switch will be determined if absolutely necessary, on a case-by-case basis, by the 5ODA Customer Technical Support group. The purpose of the preliminary dump is to analyze any database inconsistencies, identify data to be corrected on switch before final dump, and to anticipate the amount of error correction required in the final dump.

The time allowed for the final dump is 17 days. The Systems Equipment Engineer assigned to the retrofit is responsible for insuring that the schedule outlined in this section is met. The final dump period is a tight schedule. Experience has shown that the schedule can be met if the daily goals are met.

Note that non-standard database configurations are not supported. 5ODA only rebuilds to standard data conditions.

The following schedule shows the time line in weeks and days prior to the Friday night retrofit date.

Week -10:

The SEE registers the office.

Week -7:

OSDM initializes the logins and office on the appropriate 5ODA production machine. A report is sent electronically to the SPOC (Single Point of Contact) at the region identifying the production machine on which the office will be processed.

4.1 The Preliminary Dump

After the registration, a detailed day-by-day retrofit schedule may be viewed on the 5ODA PSS (Production Scheduling System). The daily benchmark dates are automatically generated in PSS based on the date of the on-site retrofit. Contact the Office Software Database Management organization at NSC for instructions on how to access the PSS database. All preliminary dump processing is the responsibility of the Systems Equipment Engineer.

The following procedures begin 5 weeks prior to the actual on-site retrofit and complete 2 weeks before the on-site retrofit.

Week -5:

1. The customer dumps the ODD and ECD to tape(s). The tapes are sent to the OSDM located at the Lisle 5ESS Switch Production Facility.
2. OSDM loads the tapes onto the appropriate 5ODA production machine.
3. Following a successful **readdump**, the **revdbgen revmapping** process is submitted automatically to decompile the ODD and recover the dumped data to the existing compatible software release version

of 5ODA input forms. This process automatically generates a file of base relation cross checks via the **basecheck** command.

4. The base relation checks, **basecheck** are analyzed by 5ODA Customer Technical Support. The Customer Technical Support determines whether or not the Recent Change update will be applied on-site before the final dump is made. This listing may be viewed by executing **listf basecheck**.

The SEE should analyze all Level 1, Level 2, and Level 3 errors that exist in the new target software release input view database. The commands used are **errforms**, **de**, and **crosscheck**.

1. Review "analysis" to insure the office has enough memory.

This completes the "preliminary" processing.

4.2 The Final Dump

The following steps occur within the 17 day interval before the on-site retrofit is to occur. All command execution and data correction is performed by the SEE. The steps are broken down by day.

- **NOTE:** The objective for each day must be strictly adhered to or the retrofit date may be jeopardized.

Week -3 Friday:

1. The final dump of the ODD and ECD, which was performed the preceding Wednesday, must arrive at the Lisle 5ESS Production Facility by 9AM on Friday, Week -3. The customer must send two sets of final dump tapes.
2. OSDM loads the tapes on the appropriate 5ODA production machine.
3. Following a successful **readdump** the **revdbgen revmapping** is automatically submitted to decompile the ODD and recover the dumped data to existing software release compatible version of 5ODA input forms. This process automatically generates base relation cross checks (**basecheck**).
4. 5ODA Customer Technical Support analyzes the base relation crosscheck errors generated as part of the reverse mapping process. These errors are then analyzed against the error listing from the preliminary dump. If there are differences, the SEE and/or the customer will be contacted if needed.
5. Following a successful reverse mapping the office is automatically evolved to the new software release input database. The process automatically runs Level 1 and Level 2 error checks. The output of the error check run may be viewed by executing **listf errforms.EVL**

Week -2 Monday:

1. The new software release ODA input database is open and available for Level 1, Level 2, and Level 3 error correction. Both the SEE and the customer use
 - the **de** command to perform data entry,
 - the **errforms** command to generate Level 1 and Level 2 error listings, and

— the **crosscheck** command to generate listings of Level 3 errors and to freeze the database.

1. The **thaw** command is used if more data entry is needed. At this time some input forms may be locked due to the sensitivity of the data.

NOTE: Only error correction may be done. **NO GROWTH DATA IS ALLOWED.**

This data entry window is available Wednesday through Friday and must be strictly adhered to, or the retrofit date may be in jeopardy.

Week -2 Saturday:

1. By Saturday morning, the input database must be totally error free and frozen.
2. The SEE executes the **mapping** command before 5 P.M. on Friday. The **mapping** command maps the input data into 5ESS Switch base relations to generate the new ODD.
3. The ECD is evolved by the **evolecd** command that is automatically called from the **mapping** command.
4. The SEE executes the **records every** command to generate a complete list of office records.

Week -1 Sunday:

1. 5ODA Customer Technical Support reviews the mapping output and submits **dbgen**.

Week -1 Monday:

1. **Mapping** and/or **dbgen** problems are resolved by Monday morning. 5ODA Customer Technical Support reviews **dbgen** results.
2. The customer can apply the last 17 days of recent changes to the new ODDs. The Recent Change log file is electronically transferred from the 5ESS Switch site to Lisle Center 5ESS ODA Production Facility via SCANS (the Software Change Administration and Notification System). The RC log file is first transferred from the switch to a SCANS machine by Lucent Technologies SUMS (Software Update Management System) personnel. It is then automatically transferred to the 5ODA production machine for **offrcr** processing. If **dbgen** has completed successfully, the **moverscan** process will automatically submit **offrcr**.

Week -1 Tuesday:

1. OSDM generates the merged ODD and ECD tape.
2. If an office has run the **offrcr** process, OSDM generates a hard copy listing of successful and non-successful Recent Changes applied to the ODD. The Recent Changes that were not successful are placed on the ODD/ECD tape to be used on site in the post-**offrcr** process the night of the retrofit.
3. OSDM generates hard copy listings of the office records, functional listing, and **offrcr** reports. One copy of each is mailed to the site along with the ODD/ECD tape(s).

Week -1 Wednesday:

1. After tape verification, the ODD/ECD tape(s) are transferred from the Lisle Center 5ESS Switch ODA Production Facility to the Network Software Center for packaging and shipping preparation.
2. OSDM packages and ships 2 copies of the merged ODD/ECD tape(s), 1 copy of office records, 1 copy of the functional listing to the site. For offices that used the **offrcr** process, OSDM packages and ships 2 copies of the failed recent change listing and 1 copy of the successfully reapplied recent change listing.

Week -1 Friday:

1. On-site retrofit occurs.

5. SPECIAL NOTES

It is important to note that the above dates are critical to the success of each retrofit. It is the Systems Equipment Engineer's responsibility to ensure that these dates are met. The dates listed above for data entry, database evolution, input form crosschecks, **mapping** and **dbgen**, and **offrcr** are the *latest* dates possible to guarantee ODD delivery. These benchmarks, *if met earlier*, will help ensure the timely delivery of the ODD/ECD to site.

If there is a data problem that cannot be resolved, the entire retrofit process will be postponed until a correction is found and implemented. All parties involved in each off-line retrofit of ODD/ECD (Software Production, SEE, 5ODA Customer Technical Support, and customer) must provide off-hours support, if needed.

The following table summarizes the retrofit schedule.

SUMMARY OF RETROFIT SCHEDULE		
Week From Retrofit Date	Day	Action
Week -10		SEE registers office.
Week -7		Initialize offices on production machine.
Preliminary Dump		
Weeks -5 & -4		1) Read in preliminary dump tapes; 2) Decompile ODDs to input forms; 3) Evolve input forms to new software release; 4) Analyze level 1
Final Dump		
Week -3	Fri	1) Read in final dump tapes; 2) Decompile ODDs to input forms; 3) Evolve input forms to new software release.
Week -2	Mon-Fri	Clean level 1
Week -2	Fri-Sat	1) Map error free input forms to new base relations; 2) Evolve ECD; 3) Generate office records.
Week -1	Sun	1) Verify mapping output; 2) Submit dbgen to build new ODDs.
Week -1	Mon-Tue	1) Receive RC log file; 2) Apply log file to new ODDs.
Week -1	Tue-Wed	1) Generate new ODD/ECD tapes; 2) Generate RC reports, office record, and functional listing.

Week -1	Wed-Thur	1) Verify tape; 2) Ship tapes and listings.
Week -1	Fri	On site retrofit.

Figure 1 SUMMARY OF RETROFIT SCHEDULE

DIV. 19: 5ESS RECORD NAMES - 5ESS OFFICE RECORDS NUMBERS

SEC. 1: 5ESS RECORD NAMES - 5ESS OFFICE RECORDS NUMBERS

1. GENERAL

This section contains the latest listing of 5ESS Switch Record Names. The listing is presented in alphabetical order by ODA Record Name. The listing provides the corresponding Office Record Number, ODA Form Name, and TG-5 Division and Section.

When a Record Name is known, the Division and Section that describes the record can be found in Figure 1; when the Record Number is known, see Division 0, Section 4. If only the Form Name is known, see Division 0, Section 1.

2. RECORD NAME INDEX TABLE

Title	Office Record Number	Form	Division / Section
100 SECOND SCAN (HSS) ACTIVATION FORM	5620-4	aphss	Div. 4 Sec. 21D
5602-4 MULTIWAY CALLING LINE (MLHG/TERM) PARAMETER FORM	5602-4	mwmpa	Div. 4 Sec. 3C
5602-5 MULTIWAY CALLING TRUNK PARAMETER FORM	5602-5	mwtpa	Div. 4 Sec. 3D
ACCESS INTERFACE UNIT PACK	5746	egaiup	Div. 8 Sec. 65
ACCESS INTERFACE UNIT	5745	egaiu	Div. 8 Sec. 64
ACCESS TANDEM CARRIER AND ROUTE INFORMATION FOR PRIMARY AND ALTERNATE TOLL AND ASSISTANCE OPERATOR SERVICES FORM	5418	diopr	Div. 3 Sec. 4S
ACCESS TANDEM INCOMING TRUNK GROUPS FORM	5417	oprth	Div. 3 Sec. 4R
ACCOUNT CODE ASSOCIATED CODE TABLE PARAMETERS FORM	5623-3	acctrp	Div. 4 Sec. 24C
ACCOUNT CODE FEATURE DEFINITION FORM	5623-1	acctfd	Div. 4 Sec. 24A
ACCOUNT CODE GROUP DEFINITION FORM	5623-2	acctgp	Div. 4 Sec. 24B
ACCOUNT CODE LINE (MLHG/TERM) PARAMETER FORM	5623-5	acctmpa	Div. 4 Sec. 24E
ACCOUNT CODE LINE PARAMETER FORM	5623-4	acctlpa	Div. 4 Sec. 24D
ACCOUNT CODE TRUNK (TGN/MEMB) PARAMETER FORM	5623-6	accttpa	Div. 4 Sec. 24F
ACD AGENT ID ASSIGNMENT	5639	agntid	Div. 4 Sec. 32D
ACD CALL QUEUE PARAMETERS FORM	5640	cqparm	Div. 4 Sec. 32E
ACD CALL VECTORING DESTINATION TN FORM	5644	acdvcn	Div. 4 Sec. 32I
ACD CALL VECTORS FORM	5643	acdvcf	Div. 4 Sec. 32H
ACD MANAGEMENT INFORMATION SYSTEM LINK	5637	mislink	Div. 4 Sec. 32B
ACD SEIZURE DISPLAY	5641	sxdisp	Div. 4 Sec. 32F
ACD SERVING TEAM PARAMETERS	5638	stparm	Div. 4 Sec. 32C
ACD/BRCS AND DAA TN ASSIGNMENT FORM	5631-1	acdtn	Div. 4 Sec. 32A
ACD/BRCS OFFICE PARAMETERS	5645	acdbparm	Div. 4 Sec. 32K
ADVANCED SERVICE INTERFACE FEATURE DEFINITION FORM	5630-1	asifd	Div. 4 Sec. 30A
ADVANCED SERVICE INTERFACE GROUP DEFINITION FORM	5630-4	asigp	Div. 4 Sec. 30D
ADVANCED SERVICE INTERFACE LINE (MLHG/TERM) PARAMETER FORM	5630-3	asimpa	Div. 4 Sec. 30C
ADVANCED SERVICE INTERFACE LINE (TN) PARAMETER FORM	5630-2	asilpa	Div. 4 Sec. 30B
ADVANCED SERVICES PLATFORM FEATURE DEFAULT PARAMETERS FORM	5632-5	asdpdp	Div. 4 Sec. 31E
ADVANCED SERVICES PLATFORM FEATURE DEFINITION FORM	5632-1	aspdf	Div. 4 Sec. 31A
ADVANCED SERVICES PLATFORM NESS GROUP SCREENING LIST FORM	5634	asprp	Div. 4 Sec. 31F
ADVANCED SERVICES PLATFORM OPTIONS	5670	aspopt	Div. 4 Sec. 31G
ADVANCED SERVICES PLATFORM (TGN/MEMB) PARAMETERS FORM	5632-4	asptpa	Div. 4 Sec. 31D
ADVANCED SERVICES PLATFORM (TN) PARAMETERS FORM	5632-2	asplpa	Div. 4 Sec. 31B
ADVANCED SERVICES PLATFORM (MLHG/TERM) PARAMETERS FORM	5632-3	asmpa	Div. 4 Sec. 31C
ALL PICK-UP TERMINATING FEATURE DEFINITION RECORD	5605-2	putfd	Div. 4 Sec. 6B
AMA CALL TYPE FORM	5506	amact	Div. 3 Sec. 5F
ANNOUNCEMENT APPLICATION SM LIST FORM	5529	annapl	Div. 3 Sec. 5AC
ANNOUNCEMENT DIGIT INFLECTION SCHEME FORM	5532	anndg	Div. 3 Sec. 5AF
ANNOUNCEMENT HEADER PHRASE LIST FORM	5531	annhd	Div. 3 Sec. 5AE

ANNOUNCEMENT PHRASE LIST FORM	5534	phrase	Div. 3 Sec. 5AH
ANNOUNCEMENT TRAILER PHRASE LIST FORM	5533	anntr	Div. 3 Sec. 5AG
ANY MEDIA INTERFACE PLATFORM FORM	5765	egaip	Div. 8 Sec. 90
APCX EQUIPAGE FORM	5831	egapcx	Div. 8 Sec. 83
APPLICATION PROCESSOR CUSTOMER ASSIGNMENT FORM	5620-1	apca	Div. 4 Sec. 21A
APPLICATION PROCESSOR FACILITIES MANAGEMENT ASSIGNMENT FORM	5620-3	apfma	Div. 4 Sec. 21C
APPLICATION PROCESSOR GROUP/FACILITY PARAMETER FORM	5620-2	apgrp	Div. 4 Sec. 21B
ASSOCIATION SET	5890	assocset	Div. 5 Sec. 3AL
ATM LINK ASSIGNMENT	5592	atmlink	Div. 5 Sec. 5P
ATS FEATURE BUTTON SERVICE DESCRIPTION FORM	5985	svcdesc	Div. 6 Sec. 27A
ATTS TEST SESSION SCHEDULE DATA FORM	5052	atsdata	Div. 7 Sec. 1C
ATTS TEST SESSION SCHEDULE PARAMETERS FORM	5053	atsparm	Div. 7 Sec. 1D
AUTHORIZATION CODE DEFINITION FORM	5619-3	athac	Div. 4 Sec. 20C
AUTHORIZATION CODE FEATURE CLASS OF SERVICE PARAMETER FORM	5619-4	athfcos	Div. 4 Sec. 20D
AUTHORIZATION CODE FEATURE DEFINITION FORM	5619-1	athfd	Div. 4 Sec. 20A
AUTHORIZATION CODE GROUP DEFINITION FORM	5619-2	athgp	Div. 4 Sec. 20B
AUTHORIZATION CODE LINE (MLHG/TERM) PARAMETER FORM	5619-6	athmpa	Div. 4 Sec. 20F
AUTHORIZATION CODE LINE PARAMETER FORM	5619-5	athlpa	Div. 4 Sec. 20E
AUTHORIZATION CODE TRUNK (TGN/MEMB) PARAMETER FORM	5619-7	athtpa	Div. 4 Sec. 20G
AUTOMATIC CALL-BACK LINE (MLHG/TERM) PARAMETER FORM	5616-3	acbmpa	Div. 4 Sec. 17C
AUTOMATIC CALL-BACK LINE (TN) PARAMETERS FORM	5616-2	acblpa	Div. 4 Sec. 17B
AUTOMATIC CHARGE QUOTATION SERVICE FORM	5425	acqs	Div. 3 Sec. 4Z
AUTOMATIC NUMBER IDENTIFICATION SWITCHING MODULE FORM	5560	animod	Div. 3 Sec. 5BD
AUTOMATIC NUMBER IDENTIFICATION TABLE	5561	anitable	Div. 3 Sec. 5BP
AUTOMATIC NUMBER IDENTIFICATION TABLE	5561	anitbl	Div. 3 Sec. 5BE
AUTOMATIC ROUTE SELECTION ALTERNATE FACILITY RESTRICTION LEVELS FORM - ARSFRL	5608-7	arsfrl	Div. 4 Sec. 9G
AUTOMATIC ROUTE SELECTION FEATURE DEFINITION FORM	5608-1	arsfd	Div. 4 Sec. 9A
AUTOMATIC ROUTE SELECTION GROUP PARAMETER FORM	5608-2	arsgpa	Div. 4 Sec. 9B
AUTOMATIC ROUTE SELECTION GROUP SCREENING FORM	5608-6	arsscrn	Div. 4 Sec. 9F
AUTOMATIC ROUTE SELECTION LINE (MLHG/TERM) PARAMETER FORM	5608-4	arsmpa	Div. 4 Sec. 9D
AUTOMATIC ROUTE SELECTION LINE (TN) PARAMETER FORM	5608-3	arslpa	Div. 4 Sec. 9C
AUTOMATIC ROUTE SELECTION SEGMENTED SIGNALING FORM	5608-9	arssig	Div. 4 Sec. 9I
AUTOMATIC ROUTE SELECTION TRAVELING CLASS MARK CONVERSION TABLE FORM	5608-8	arstcm	Div. 4 Sec. 9H
AUTOMATIC ROUTE SELECTION TRUNK (TGN/MEMB) PARAMETER FORM	5608-5	arstpa	Div. 4 Sec. 9E
AUTOMATIC TRUNK TEST TABLE FORM	5505-1/2	auto	Div. 3 Sec. 5E
BEARER NET	5935	bearernet	Div. 5 Sec. 3AM
BFG (BRCS FEATURE GROUPING) CONSTRUCTION FORM	5625	bfg	Div. 4 Sec. 26A
BFG (BRCS FEATURE GROUPING) SUMMARY REPORT	5626	bfg	Div. 4 Sec. 26B
BICC GRP CIC DEFINITION FORM	5218	cicdef	Div. 3 Sec. 2U
BLOCKED LINE ASP FCD CODES	5649	lnblkcod	Div. 4 Sec. 31H
BLOCKED TRUNK GROUP ASP FCD CODES	5275	tkblkcod	Div. 3 Sec. 2X
BRCS — MC ROUTE INDEX EXPANSION FORM	5304	mcrtidx	Div. 3 Sec. 3Q
BULK CALLING LINE IDENTIFICATION FEATURE DEFINITION FORM	5629-1	bclidfd	Div. 4 Sec. 29A
BULK CALLING LINE IDENTIFICATION LINE PARAMETER FORM	5629-3	bclidlpa	Div. 4 Sec. 29C
BULK CALLING LINE IDENTIFICATION MULTI-LINE HUNT GROUP PARAMETERS FORM	5629-4	bclidmpa	Div. 4 Sec. 29D
BULK LINE CALLING IDENTIFICATION GROUP PARAMETERS FORM	5629-2	bclidgp	Div. 4 Sec. 29B
BUSY LINE VERIFICATION LINE EXCLUSIONS FORM	5442	blvex	Div. 3 Sec. 4AQ
BUSY LINE VERIFICATION NPA FORM	5441	blvnpa	Div. 3 Sec. 4AP
CALL FORWARDING FEATURE DEFINITION FORM	5614-1/2	cfwfd	Div. 4 Sec. 15A
CALL FORWARDING LINE (MLHG/TERM) PARAMETER FORM	5614-4	cfwmpa	Div. 4 Sec. 15C
CALL FORWARDING LINE (TN) PARAMETER FORM	5614-3	cfwlpa	Div. 4 Sec. 15B
CALL INSTANCE CODE DISTRIBUTION FORM	5217	cicdist	Div. 3 Sec. 2T
CALL PICKUP LINE (MLHG/TERM) PARAMETER FORM	5605-4	pumpa	Div. 4 Sec. 6D
CALL PICKUP LINE (TN) PARAMETER FORM	5605-3	pulpa	Div. 4 Sec. 6C
CALL PICKUP ORIGINATING FEATURE DEFINITION FORM	5605-1	puofd	Div. 4 Sec. 6A
CALL PICKUP TERMINATING GROUP DATA FORM	5605-4	pugd	Div. 4 Sec. 6E
CALL WAITING FEATURE DEFINITION FORM	5603-1A/1B	cwtfcd	Div. 4 Sec. 4A
CALL WAITING LINE (MLHG/MEMB) PARAMETER FORM	5603-3	cwtmpa	Div. 4 Sec. 4C
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OIU SONET TERMINATING EQUIPMENT FORM	5762	egoste	Div. 8 Sec. 87
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OPERATOR SPECIAL DIALED CODES FORM	5439	osdc	Div. 3 Sec. 4AN
OPERATOR/EMERGENCY ROUTING ASSIGNMENT	5031	opemer	Div. 3 Sec. 3AO
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OSPS ACCS SPECIAL TREATMENT TABLE FORM	5428	accst	Div. 3 Sec. 4AC
OSPS ACD CALLTYPE FORM	5412-A/D	acdctp	Div. 3 Sec. 4M
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OSPS COMMERCIAL ACD CALL VECTORING DESTINATION TN	5459	cvdsttn	Div. 3 Sec. 4BG
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OSPS IMPROVED THIRD NUMBER ACCEPTANCE SPECIAL AREA CODE FORM	5461-3	specl	Div. 3 Sec. 4BK
OSPS IMPROVED THIRD NUMBER ACCEPTANCE TIME SET FORM	5461-2	setid	Div. 3 Sec. 4BJ
OSPS (INCOMING) INTERFLOW TOLL & ASSISTANCE IDENTIFIERS FORM	5451	infltap	Div. 3 Sec. 4AZ
OSPS INTERCEPT DESTINATION INDICES	5469	aiscls	Div. 3 Sec. 4BV
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OSPS OPERATOR POSITION FORM	5401	ospsop	Div. 3 Sec. 4B
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OSPS OPERATOR TROUBLE REPORT FORM	5410	otrvid	Div. 3 Sec. 4K
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PRIVATE FACILITY ACCESS LINE (TN) PARAMETER FORM	5609-6	pfalpa	Div. 4 Sec. 10F
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PRIVATE NETWORK OFF NETWORK NUMBER CONVERSION FORM	5608-13	pnoffon	Div. 4 Sec. 9L
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PSU LINK ASSIGNMENT	5057	psulnk	Div. 7 Sec. 2A
PSU NETWORK CONNECTIVITY	5992	psunwk	Div. 5 Sec. 3X
PSU Pipe	5990	psupipe	Div. 5 Sec. 5O
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QTUV	na	qtuv	Div. 8 Sec. 92
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REMOTE INTEGRATED SERVICES LINE UNIT EQUIPAGE FORM	5732	egrslu	Div. 8 Sec. 19
(REMOTE) INTEGRATED SERVICES LINE UNIT LINE CARD FORM	5942	islulc	Div. 5 Sec. 5C
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ROUTE INDEX LIST FORM	5574	rtlist	Div. 3 Sec. 5BO
ROUTINE EXERCISE SCHEDULE FORM	5515	rxschd	Div. 3 Sec. 5O
RSM LINK ASSIGNMENT FORM	5517	rsmlnk	Div. 3 Sec. 5Q
S HUNDREDS GROUP(S) ASSIGNMENT FORM	5115	hgrpas	Div. 3 Sec. 1O
S INDIVIDUALIZED DIALING PLAN DIALED CODE ASSIGNMENT FORM	5601-1/2	idpdca	Div. 4 Sec. 2B
S PACKET SWITCHING CLOSED USER GROUP ASSIGNMENT FORM	5924/5924A	pscug	Div. 5 Sec. 3E
SAAL HIGH SPEED SS7 LINK - SAALHSL	6016	saalhsl	Div. 9 Sec. 10V
SAAL Link Parameter Set	6017	saalprm	Div. 9 Sec. 10W
SCAN POINT NUMBER ASSIGNMENT FORM	5840	N/A	Div. 8 Sec. 42
SCCP NETWORK DEFINITION FORM	6010	ccnet	Div. 9 Sec. 10K
SCCP PARAMETER DEFINITION FORM	6011	ccspr	Div. 9 Sec. 10L
SCCP PRIMARY/BACKUP DESTINATION FORM	6012	ccpbd	Div. 9 Sec. 10M
SCCP SINGLE GLOBAL TITLE TRANSLATION FORM	6015	ccsgt	Div. 9 Sec. 10N
SCCP TRANSLATION GROUP MASK FORM	6013	cctgm	Div. 9 Sec. 10P
SCCP TRANSLATION TABLE FORM	6014	cctt	Div. 9 Sec. 10O
SCD SCREENED SERVICE ACCESS CODES FORM	5552	sacscr	Div. 3 Sec. 6C
SCHEDULE REPORTING (VIEW 15.8)	5018	NA	Div. 9 Sec. 2H
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SCTP ASSOCIATION PARAMETER SET	5887	asscparm	Div. 5 Sec. 3AI
SCTP ASSOCIATION	5889	sctpassc	Div. 5 Sec. 3AK
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SCTPPARM	5885	sctpparm	Div. 5 Sec. 3AG
SECURED FEATURE SYSTEM ASSIGNMENT FORM	5713-1	sfsys	Div. 3 Sec. 5AR
SELECTIVE ROUTING AND TRANSFER DATA FOR ESN (SM/DAS)	5540	esn	Div. 3 Sec. 5AN
SIGNALING LINK SET FORM	6003	lnkset	Div. 9 Sec. 10C
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SIGNALING POINT CODE FORM	6006	pc	Div. 9 Sec. 10F
SIMULATED FACILITY GROUP FORM	5609-3	pfasfg	Div. 4 Sec. 10C
SIMULTANEOUS RINGING FEATURE DEFINITION	5650	srfd	Div. 4 Sec. 31I
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SIP PSTN Interworking Parameters Set	5893	sippstn	Div. 5 Sec. 3AQ
SIP-T CALL PROCESSING SMS	5881	siptsms	Div. 5 Sec. 3AC
SIP-T GLOBAL SM	5880	sipgsm	Div. 5 Sec. 3AB
SIP-T PARAMETERS DEFINITION	5882	siptparm	Div. 5 Sec. 3AD
SLC-96 ALARM TYPE ASSIGNMENT FORM	5105	slcalm	Div. 3 Sec. 1E
SLC-96 CHANNEL UNIT FORM	5107	slccu	Div. 3 Sec. 1G
SLC-96 REMOTE TERMINAL FORM	5106	slcrt	Div. 3 Sec. 1F
SLIM OE LIST	5548	slen	Div. 3 Sec. 5AX
SLIM TEST JOB	5555	sljob	Div. 3 Sec. 5BA
SLIM TEST SESSION	5556	slsess	Div. 3 Sec. 5BB
SLIM TEST SET	5549	sltset	Div. 3 Sec. 5AY
SLIM THRESHOLD LIST	5554-1/2	slthrs	Div. 3 Sec. 5AZ
SMALL NETWORK CLUSTER AND MEMBER TABLE (VIEW 15.13) RC SMNID	5023	NA	Div. 9 Sec. 2M
SPECIAL ACCESS BAND SCREENING FORM	5319	spabs	Div. 3 Sec. 3AF
SPECIAL ACCESS EXEMPT NXXs FORM	5320	spaenxx	Div. 3 Sec. 3AG
SPECIAL AND TRANSPARENCY FEATURE OPTIONING SYSTEM FORM	5713-2	fosys	Div. 3 Sec. 5AS
SPEED CALLING FEATURE DEFINITION FORM	5627-1	scfd	Div. 4 Sec. 27A
SPEED CALLING LINE PARAMETER FORM	5627-2	sclpa	Div. 4 Sec. 27B
SPEED CALLING LIST FORM	5627-5	sclist	Div. 4 Sec. 27E
SPEED CALLING MLHG/TERM LINE PARAMETER FORM	5627-3	scmpa	Div. 4 Sec. 27C
SPEED CALLING TRUNK PARAMETER FORM	5627-4	sctpa	Div. 4 Sec. 27D
SRE INCREMENTAL GLOBAL PARAMETERS	5547	sreincr	Div. 3 Sec. 5AW
STRUCTURE CODE FAMILY FORM	5536	scfam	Div. 3 Sec. 5AJ

SUBSYSTEM INFORMATION (VIEW 15.10)	5020	NA	Div. 9 Sec. 2J
SWITCHING MODULE EQUIPAGE FORM	5700-1/2	egim	Div. 8 Sec. 2
SWITCHING MODULE INFORMATION FORM	5510	iminfo	Div. 3 Sec. 5J
TDMA OFFICE OPTIONS	5572	tdmaopt	Div. 3 Sec. 5BM
TELEPHONE NUMBER FORM	5109-1/2/3	line	Div. 3 Sec. 1I
TERMINAL GROUP AND STATION RESTRICTION LINE (MLHG/TERM) PARAMETER FORM	5607-4	tgsrmpa	Div. 4 Sec. 8C
TERMINAL GROUP AND STATION RESTRICTION LINE (TN) PARAMETER FORM	5607-3	tgslpa	Div. 4 Sec. 8B
TERMINAL GROUP AND STATION RESTRICTION TRUNK PARAMETER FORM	5607-5	tgstrpa	Div. 4 Sec. 8D
TERMINAL GROUP AND STATION RESTRICTION PARAMETER FORM	5607-1/2	tgserfd	Div. 4 Sec. 8A
TERMINAL GROUP ATTENDANT FORM	5611	tgattd	Div. 4 Sec. 12A
TERMINATING CODE SCREENING AND PCC FOR COUNTRY CODE FORM	5438	tcsc	Div. 3 Sec. 4AM
TERMINATING CODE SCREENING FOR NPA-NXX FORM	5437	tcsnpa	Div. 3 Sec. 4AL
TERMINATING CODE SCREENING TEXT AND RESTRICTIONS FORM	5436	tcstext	Div. 3 Sec. 4AK
TEST BUS CONTROL UNIT EQUIPMENT RECORD	5811	eqtbcu	Div. 8 Sec. 3I
TGN TO LEC INDEX FORM	5443	tgntlec	Div. 3 Sec. 4AR
THRESHOLD ALARM LEVEL FORM	5769	alrmlvl	Div. 3 Sec. 5CD
TIME DEPENDENT ROUTING	5571	tdr	Div. 3 Sec. 5BL
TIME OF DAY CODE LIST DEFINITION FORM	5610-2	todcl	Div. 4 Sec. 11B
TIME OF DAY FEATURE DEFINITION FORM	5610-1	todfd	Div. 4 Sec. 11A
TIME OF DAY LINE PARAMETER FORM	5610-3	todlpa	Div. 4 Sec. 11C
TIME OF DAY MLHG TERMINAL PARAMETER FORM	5610-4	todmpa	Div. 4 Sec. 11D
TIME OF DAY TRUNK (TGN/MEMB) PARAMETER FORM	5610-5	todtpa	Div. 4 Sec. 11E
TIME SLOT INTERCHANGE EQUIPAGE (SM-2000 MODULES)	5850	egtsi	Div. 8 Sec. 52
TMS LINK EQUIPAGE	5851	eqtmslink	Div. 8 Sec. 53
TOE TIME FORM	5504	tntyp	Div. 3 Sec. 5D
TOPAS CLLI CODE IDENTIFICATION FORM	5521	clli	Div. 3 Sec. 5U
TOPAS TERMINAL EQUIPMENT DSX ASSIGNMENT FORM	5721	egdsx	Div. 8 Sec. 14
TRAFFIC SEPARATIONS CELL GROUPING FORM	5308	trfsep	Div. 3 Sec. 3U
TRANSIT NETWORK IDENTIFICATION CODE FORM	5928	tniclist	Div. 5 Sec. 3I
TRANSMISSION RATE CONVERTER UNIT EQUIPAGE FORM	5812	eqcmtrcu	Div. 8 Sec. 32
TRFO ECHO CANCELLATION PARAMETERS FORM	5593	trfoparm	Div. 3 Sec. 5CI
TRUE TRUNK GROUP NPA FORM	5413	pronxx	Div. 3 Sec. 4N
TRUNK AND LINE WORK STATION FORM	5511	tlws	Div. 3 Sec. 5K
TRUNK FEATURES AND ASSIGNMENTS FORM	5204	trunk	Div. 3 Sec. 2C
TRUNK GROUP FORM	5202	tkgrp	Div. 3 Sec. 2A
TRUNK PACKET SWITCHING PVC LCN ASSIGNMENT FORM	5926	x75pvc	Div. 5 Sec. 3G
TRUNK TRANSMISSION CLASS FORM	5203	trkcl	Div. 3 Sec. 2B
TRUNK UNIT EQUIPAGE FORM (EQTU) TRUNK UNIT PACK EQUIPAGE FORM (EQTUP)	5720	eqtu eqtup	Div. 8 Sec. 13
TSM MONITORING TO MONITORED FORM	5932-1/2/3/4	telmon	Div. 5 Sec. 3M
TSTHD	5747	tsstd	Div. 8 Sec. 93
UDP PATH DEFINITION	5891	udppath	Div. 5 Sec. 3AN
USERS VIEW DESCRIPTORS (VIEW 15.5)	5015	NA	Div. 9 Sec. 2E
UTILITY TELEMETRY TRUNK GROUP FORM	5215	uttkgrp	Div. 3 Sec. 2R
VOICE AND DATA CHANNELS	5918	vdchn	Div. 5 Sec. 3W
VOICE MESSAGING SERVICE INTERFACE	5472	espinfo	Div. 3 Sec. 4BX
X.25 PACKET SWITCHING CHANNEL ASSIGNMENT FORM	5909-1/2/3	xat	Div. 5 Sec. 1J
X75 CLOSED USER GROUP FORM	5930	x75cug	Div. 5 Sec. 3K

DIV. 20: Change History

Appendix A:

TRANSLATION GUIDE
TG-5

DIV. 20, SEC. 0
August, 1999

UPDATE HISTORY

Division 20 of the 5ESS-2000 Switch Translation Guide provides listings of monthly updates made to the TG-5. These monthly listings are issued to highlight the modifications made to guide each month.

The monthly updates provide:

1. the Divisions and Sections modified
2. the Forms and Records affected
3. a brief description of the modifications made.

The monthly update sections within Division 20 are numbered 1 through 12 to correspond to a calendar month. For example, the January update is Section 1, the June update is Section 6, the October update is Section 10, etc.

It is the intent that each monthly update be maintained in the TG-5 for one year, thus providing a 12-month history of modifications made to the guide.

Figure 1 Update History Overview

TRANSLATION GUIDE
TG-5

DIV. 20, SEC. 2
February, 2005

February Updates for the TG-5

Division	Section	Form/Record	Summary
2	1DB	Multi-channel Signaling Link Nailup Connection in 5ESS DCS	Modify feature description.
2	1DC	CFDA After CW for DSN Subscribers	New special feature section for 5E16(2) and later.
2	1DD	SIP Enhancements to PSTN Gateway	New feature section for 5E16(2) FR 6.
2	1DE	UDP Transport Layer for SIP	Moved from Division 2, Section 4A700.
2	1DF	Support for SIP without Preconditions	Moved from Division 2, Section 4A766.
2	4A0	Secured Feature Descriptions	Added SFID 764 to the table. Removed SFIDs 700 and 766.
2	4A700	UDP Transport Layer for SIP	Move to Division 2, Section 1DE.
2	4A764	RLU Secondary Control Facilities	New feature section for 5E16(2) FR4 and later.
2	4A766	Support for SIP without Preconditions	Move to Division 2, Section 1DF.
2	4A769	SIP without Encapsulated ISUP	Modified FEATURE DESCRIPTION section.
2	4B1008	On-Hook Data Transmission without Power Ring	Removed change bars.
2	4B1012	Inhibit CGA (Carrier Group Alarms) feature is a Transparency	Removed change bars.
2	7CH	SIP Trunking Support for Inter-Carrier Calls	New feature section for 5E16(2) FR 6.
2	7CI	SM-XC	New feature section for 5E16(2) FR6 and later.
2	7CJ	IRAP	New feature section for 5E16(2) FR 6 and later.
2	8AK	PCF Function) on PHE2 Standards Enhancements	Modified the release date.
2	8AQ	PCF OA&M Enhancements	New feature section for 5E19(1) and later.
2	8AR	PCF PHE2 Initiated Reactivation Retry Enhancements	New feature section for 5E18(1) FR 1 and later.
2	9O	Remote AIU	Replaced the word "Expanded" with "Expansion".
2	9U	Support Both TAP and MTB	Replaced the word "Expanded" with "Expansion".

		Connections on EAIU	
3	1I	LINE(5109)	Modified data rules under the LNEQ, OE TYPE, and TN fields.
3	1K	MLHLN(5111)	Modified data rules under the ASSOC OE TYPE field..
3	2A	TKGRP (5202)	Added note to the PSAP RERTE TN field per IMR 809330. Also added the INTGI field and data rules to the PKT GRP field.
3	2T	CICDIST (5217)	Modified a data rule under the (CICDIST) SM2K MODULE field.
3	3P	RTIDX (5303)	Added data rules to the TRUNK GROUP NUMBER.
3	3Q	MCRTIDX (5304)	Added data rules to the TRUNK GROUP NUMBER.
3	5I	OFCOPT (5509)	Added the TSI CNT, TSI LIMIT, and NATIONAL CIRCUIT CODE fields. Added the IMT INHIBIT and IMT RESIST fields.6
3	5J	IMINFO (5510)	Added the ALIT IMT RESIST field.
3	5Y	NCLKREF (5725)	Moved section to Division 8, Section 94 and modified office record number.
3	5AR	SFSYS (5713-1)	Added SFID 764 to the table. Removed SFIDs 700 and 766.
3	5BG	MEASSUM (5563)	Added data rule to the SECTION NAME field.
4	15A	CFWFD (5614-1/2)	Added and modified data rules for the CFDA AFTER CW field and added a note before the Preconstructed Features table.
4	15B	CFWLPA (5614-3)	Added and modified data rules for the CFDA AFTER CW field.
4	15C	CFWMPA (5614-4)	Modified a data rule for the CFDA AFTER CW field.
5	3P	IPROUT (5989)	Minor editing changes.
5	3T	PCFOPT (5996-1)	Modified information in the MAX OPEN SESSIONS field. Also added the REVERSE BUFFERING, AUTO PING ENABLE, BYTES PING MSG, TIMEOUT REPLY, and REPEAT MESSAGE fields.
5	3U	PCFPDSN (5996-2)	Added the SELECTION GROUP and PDSN OOS INTRVL fields.
5	3V	PDSNCFG (5997)	Added the ORDER NUMBER field.
5	3Z	PKTGRP (5219)	Added the SIP PSTN SET NAME and the ENABLE LOCAL fields. Also added a data rule to the SIP-T PRECOND field and changed the TGN field to a no display field.
5	3AB	SIPGSM (5880)	Added a data rule to the GSM field.
5	3AC	SIPTSMS (5881)	Added a data rule to the SM2K MODULE field.
5	3AD	SIPTPARM (5882)	Added the AUTOMATIC ACM TMR, WAIT FOR PRACK, ISUP ENCAPSULATION, LIMITED 302 INDICATOR, and PRACK ENABLED fields.
5	3AP	PCFSG (6924)	New section for 5E19(1) and later.
5	3AQ	SIPPSTN (5893)	New section for 5E16(2) FR 6 and later.
5	3AR	INTGI (5894)	New section for 5E16(2) FR 6 and later.
8	1	Equipment Assignments	Added a new SM2000 core pack number under the EQIM form.
8	2	EQIM (5700)	Added data rules to the UNIT TYPE, SM USAGE, IMPU, EQSTATUS and PI SG 0 EQSTATUS fields.
8	3	EQCORE (5701)	Added data rules to the VCDX OFFICE, DRM, and CM VINTAGE fields.
8	22	EQPSU (5741)	Added data rule to the General Section.
8	32	EQCMTRCU (5812)	Modified data rules under the TRCU NUMBER and TRCU TYPE fields. Also modified a data rule under the SM field.
8	57	EQDNUS (5855)	Added a data rule to the SM field.
8	65	EQAIUP (5746)	Added the AICSP and AIEFI pack types to the TYPE table.
8	70	QPHPIPE (5828)	Modified data rules under the GLOBAL SM field.
8	93	TSTHD (5747)	New section for 5E16(2) FR6 and later.
8	94	NCLKREF (5725)	Moved section from Division 3, Section 5Y per USW04055.

Figure 2 February 2005 Changes

July Updates for the TG-5			
Division	Section	Form/Record	Summary
2	1DB	Multi-channel Signaling Link Nailup Connection in 5ESS DCS	Minor editing changes.
2	1DD	SIP Enhancements to PSTN Gateway	Removed references to SFIDs.
2	1DE	UDP Transport Layer for SIP	Removed references to SFIDs.
2	4A0	Secured Feature Descriptions	Added SFIDs 762 and 776 to the table.
2	4A762	IP Backhaul	New feature section for 5E19(1) FR1 and later.
2	4A776	Enhanced 5E Traffic Measurement Interface	New feature section for 5E20(1) and later.
2	4B0	Transparency Features Descriptions	Added OFID 1022 to the table.
2	4B1022	OCN Sending with no Redirection Information	New feature section for 5E20(1) and later.
2	7CK	PSU2H	New feature section for 5E20(1) and later.
2	8AQ	PCF OA&M Enhancements	Added the PCF PHE MEID on FPS feature.
3	2A	TKGRP (5202)	Added paragraph to CPN SCRNR field per IMR 799964.
3	3P	RTIDX (5303)	Modified data rules under the TRUNK GROUP NUMBER field.
3	5I	OFCOPT (5509)	Added the ENHANCED BUFF field.
3	5AR	SFSYS (5713-1)	Added SFIDs 762 and 776 to the table.
3	5AS	FOSYS (5713-2)	Added OFID 1022 to the table.
3	5BG	MEASSUM (5563)	Added the COLLECT field and added the IPBH and IPBHSUP values to the SECTION NAME, START1COMP, and START2COMP fields..
5	3J	PSUGP (5949)	Added the AVAILABLE PHE3 field and new values to the PH TYPE table field. Added data rules to the SM field.
5	3N	IPPROC (5987)	Modified a data rule under the PROCESSOR TYPE field and added a data rule to the PROCESSOR ID field.
5	3P	IPROUT (5989)	Added data rules to the DEST IP ADDRESS field.
5	3S	ETHIP (5995)	Modified data rules to the SM, PHE LINK, GATEWAY IP ADDR 2, MTU SIZE, and RATE fields.
5	3U	PCFPDSN (5996-2)	Added a data rule to the IP ADDRESS field.
5	3V	PDSNCFG (5997)	Added the MEID ENABLE and SEND MEID DEFAULT fields.
5	3AO	PHGRP (5892)	New section for 5E19(1) FR1 and later.
8	1	Equipment Assignment	Added Circuit Pack CLI information for the EQAIUP form.
8	22	EQPSU (5741)	Modified data rules under the EQUIPMENT BAY and SG 0 TYPE fields. Added the SG 0 CF TYPE, SG 1 CF TYPE, SG 0 CF SHELF, SG 1 CF SHELF and SHLF SIDE 0/1 PF fields. Added or modified data rules to the SHLF SIDE 0 CLI, SG 0 TYPE, PSU, and SG 0 COMMON CONTROL CLI field. Added a new enum value (IPS) to the SG 0 and 1 TYPE fields.
8	23	EQPSUPH (5742)	Added new enumeration value and a data rule to the PH CLI field.
8	66	ENETPIPE (5826)	Added data rules to the SERV TYPE field.
8	67	ENETLINK (5827)	Added data rules to the SERV TYPE GATEWAY IP ADDR SIDE 0/1, GATEWAY NET MASK SIDE 0/1, and REMOTE LOGIN fields.

Figure 3 July 2005 Changes

TRANSLATION GUIDE
TG-5DIV. 20, SEC. 1
January, 2006

January Updates for the TG-5			
Division	Section	Form/Record	Summary
2	1DG	Quantified Feature ID	New feature section for 5E20(1) and later.

2	4A0	Secured Feature Descriptions	Added SFIDs 614 and 616 to the table.
2	4A614	FAT Numbering	New feature section for 5E16(2) and later.
2	4A616	FAT Conflict	New feature section for 5E16(2) and later.
2	7CK	IPS	Changed name of feature from PSU2H to IPS.
2	8AS	IP SOFT HAND-OFF	New feature section for 5E20(1) and later.
2	8AT	TRFO/RTO	New feature section for 5E20(1) and later.
2	8AU	4th Generation Vocoder	New feature section for 5E20(1) and later.
2	8AV	CSCP-SAS Replacement	New feature for 5E16(2) and later.
2	8AW	PF3 One Gig Packet Bridge Replacement	New feature section for 5E20(1) and later.
2	9L	SS7-PSU on SM/EXM-2000	Modified and added information under the TRANSLATION REQUIREMENTS section.
3	1I	LINE (5109)	Modified information on data rule for the TN field . Added a data rule to the OE NUMBER field.
3	2A	TKGRP (5202)	Added the CV, PV, and PFS values to the TRKCLS table. Added data rules to the TRKCLS field. Added the CV, PV, and PFS values to the SERV TYPE table. Added data rules to the SERV TYPE field. Added a data rule each to the PKT GRP and TRK DIR fields. Added the 4GV, 4GVEV, and 4GVCV values to the SERV TYPE table.
3	2C	TRUNK (5204)	Added data rule to TRKOE field.
3	3C	LDIT (5300)	Added the FAT LDIT field and associated data rules.
3	5E	AUTO (5505)	Added the PVELBK value to the AUTOMATIC PROGRESSION TEST TYPE field. Modified data rule under the AUTOMATIC PROGRESSION TEST TYPE field.
3	5I	OFCOPT (5509)	Added the 4GV and 4GVEV values to the SEC VOC ALG table.
3	5AR	SFSYS (5713-1)	Added SFIDs 614 and 616 to the table. Change the FEATURE NAME field name to RESOURCE NAME and change the FEATURE PASSWD field name to RESOURCE PASSWD. Also added a new table named "RESOURCE HISTORY INFORMATION". The new table contains 16 entries and each entry contains three elements: "DATE", "TIME", "NUM PURCHASED", and "MAX LIMIT".
3	5BG	MEASSUM (5563)	Added the IPSHO, IHSOSUP, IPSHOCA, and SHTG values to the SECTION NAME table and added data rules to these values under the SECTION NAME field. Added values to the START1COMP, START2COMP, and STARTCOMP fields and reorganized the tables for these fields. Added values (NPH, NPHSUP, RTP, PVTGTT, CVTGTT, PFSTGTT, and BNID) to the SECTION NAMES and added data rules to these values.
3	5CI	TRFOPARM (5593)	New section for 5E20(1) and later.
5	3J	PSUGP (5949)	Added the AVAILABLE PHE4 field and added some values to the PH TYPE table that had inadvertently been left out. Modified a data rule under the SM field.
5	3N	IPPROC(5987)	Added information to the "GENERAL" section. Modified data rule under the PROCESSOR TYPE field.
5	3P	IPROUT (5989)	Added and modified data rules under the DEST IP ADDRESS field.
5	3S	ETHIP (5995)	Added a data rule to the PHE LINK field. Modified a data rule under the SM field.
5	3T	PCFOPT (5996)	Changed the HHO ENABLE field to a no_display field.
5	3V	PDSNCNFG (5997)	Removed the NVSE ENABLE and ANID CAPABLE fields

			(no display fields).
5	3X	PSUNWK (5992)	Added a data rule to the SM field.
5	3Z	PKTGRP (5219)	Added the TONE field. Added data rule to the BEARER NET ID field
5	3AM	BEARER NET (5935)	Added the BEARER TYPE and SUPPORTED CODEC LIST fields. Added data rules to the CODEC and SILENCE SUP fields.
5	3AN	UDPPATH (5891)	Changed the Valid Values for the key field (UDP PATH).
5	3AO	PHGRP (5892)	Added feature information to the "GENERAL" section. Added the PHGRP, APP TYPE, PH TYPE, L1 OVRLD THRESHOLD, L2 OVRLD THRESHOLD, CONN CHK INTRVL HIGH, CONN CHK INTRVL LOW, ICMP THRESHOLD, EXT L1/L2 OVRLD THRESHOLD, HIGH DSCP, LOW DSCP, DAM DSCP, AVG DELAY, 95 PCT DELAY, ENABLE HEART BEAT, HEART BEAT FREQ, and HEART BEAT LDI fields. Added data rules to the PROTOCOL HANDLER list, SM, and APP TYPE fields. Added the PVA and IPSHO values to the APP TYPE field. Added data rules to the APP TYPE field. Added data rule to the UDP START PORT field.
5	3AS	IPADRMG (5895)	New section for 5E20(1) and later.
5	3AT	IPATMRTG (5896)	New section for 5E20(1) and later.
5	3AU	CA2IPMAP (5897)	New section for 5E20(1) and later.
5	3AV	IPSHOPT (5898)	New section for 5E20(1) and later.
5	3AW	CLSIDX (5899)	New section for 5E20(1) and later.
7	1C	ATSDATA (5052)	Added the PVEBLK ALGOR field and associated data rule..
7	2A	PSULNK (5057)	Added data rule to the NEAR COM ADDR field.
8	22	EQPSU (5741)	Added two data rules to the SWITCHING MODULE field. Modified data rules under the SG 0 TYPE field. Added data rule to the PSU field.
8	23	EQPSUPH (5742)	Added a new value and a data rule to the PH CLI field.
8	35	EQRA (5821)	Added data rules to the UNIT TYPE field.
8	54	EQDSC3 (5892)	Added a note to the VERTPOS field. Added data rules to the SM and UNIT OFFSET fields.
8	61	EQSASP (5859)	Added data rules to the CLI field.
8	66	ENETPIPE (5826)	Added data rules to the SERV TYPE field and modified a data rule under the MANAGED HUB field.
8	67	ENETLINK(5827)	Added data rules to the SERV TYPE field.
8	80	CDMAOPT(5599)	Added a data rule to the SUBNET ID field. Added the PFS OVERRIDE, PFS REV LEN ON, PFS REV LEN OFF, PHVDATA WARNING THRESHOLD, and PHVVOICE WARNING THRESHOLD fields.
8	86	EQOIUP(5761)	Added a data rule to the BNID field.

Figure 4 January 2006 Changes

TRANSLATION GUIDE
TG-5DIV. 20, SEC. 12
December, 2006

December Updates for the TG-5

Division	Section	Form/Record	Summary
2	1BD	Enhanced 911 Emergency Service	Modified the TRANSLATION REQUIREMENTS description for the ABND field on the TKGRP form.
2	4A0	Secured Feature Descriptions	Added descriptive note to SFID 762 in the table.
2	4A762	IP Backhaul	Moved this section to Division 2, Section 7CN.
2	4B0	Transparency Features Descriptions	Added OFID 1027 to the table.
2	4B1027	TrFo Path Minimization	New feature section for 5E21(1) and later.
2	7CK	IPS	Modified the Feature Description, Feature Assignment, and

			EQPSU Form description.
2	7CL	Protocol Handler for Voice - Version 7	New feature section for 5E20(1) and later.
2	7CM	Gigabit IP Backhaul	New feature section for 5E21(1) and later.
2	7CN	IP Backhaul	New feature section replacing Division 2, Section 4A762.
2	7CO	DRM IP Trunking	New feature section for 5E16(2) FR 9 and later.
2	7CP	High Capacity DRM	New feature section for 5E16(2) FR 9 and later.
2	8AS	IP Soft Handoff	Modified Feature Assignment section, Tranlation' Requirements table, and EQPSUPH form description.
2	8AU	Enhanced Variable Rate Coder - Version B	Changed feature name from 4th Generation Vocoder.
2	8AX	TrFO/RTO Support for EVRC-B	New feature section for 5E20(1) FR1 and later.
3	2A	TKGRP (5202)	Added the SVS values to the TRKCLS table. Added data rules to the TRKCLS field for SV. Added data rule for X75. Added the EVEVB and EVRCB values to the SERV TYPE table. Added data rules to the SERV TYPE field. Added a data rule each to the FEAT GRP field. Added the ALARM PRECEDENCE PARM field. Modified the description for the ABND TIMER field. Added Sample Form for 5E21(1) and later. Added and modified data rules for the TKCLS of CV, PFS, and PV.
3	2C	TRUNK (5204)	Added valid entry and data rules for TRKOE NUMBER "U".
3	5I	OFCOPT (5509)	Changed 4GV and 4GVEV values under the SEC VOC ALG field to EVRC-B and EVEVB, respectively.
3	5AR	SFSYS (5713-1)	Added NPH and CPVP to valid entires for RESOURCE NAME Added to description of FEATURE NAME field. Added information for SFID 762 which moved to Division 2, Section 7CN.
3	5AS	FOSYS (5713-2)	Added OFID 1027 to the table.
3	5BG	MEASSUM (5563)	Added the GBIPBH value to the SECTION NAME table and added data rules to this value under the SECTION NAME field. Added values to the START1COMP, and START2COMP fields. Change value name (4GVEV) to EVEVB in data
3	5CI	TRFOPARM (5593)	Added the DEFAULT COP, DEPLOY EVRC-B, ORIG MOBILE SOC, EVRCB0 SILENCE SUP TH, and EVRCB0 SILENCE SUP INTERVAL fields with associated data rules.
5	3J	PSUGP (5949)	Added data rule for PSU field. Added information for AVAILABLE PHE3 field. Added PH7A and PH7AT fields. Added PHE, PHE4, PH7A, and PH7AT to valid PH TYPE table. Added data rule for PHE4 and GRP TYPE Modified data rule under the SM field..
5	3N	IPPROC (5987)	Modified reference information to IP (Internet Protocol) Processor Assignment. Added data rule to QUALIFIER 3 field. Modified reference information for ARP PARAMETER ASSIGNMENT. Modified data rule for IP FRAGMENT field.
5	3S	ETHIP (5995)	Modified data rule for the PHE LINK field.

			Modified a data rule under the SM field.
5	3AC	SIPTSMS (5881)	Modified a data rule under the SM2K MODULE field.
5	3AD	SIPTPARM (5882)	Added the REFRESHER, SESSION EXP, and MIN SE fields.
5	3AM	BEARERNET (5935)	Added the LUEVRCB0 value to the CODEC field.
5	3AO	PHGRP (5892)	Modified the GENERAL section. Added data rules for APP TYPE field. Added data rules to PH TYPE field. Modified description for DEBUGFLAGS, INHIBIT CALL PROC, UDPMUX BUNDLE SZ, UDPMUX BUNDLE TMR 1, and UDPMUX BUNDLE TMR 2 fields.
5	3AS	IPADRMG (5895)	Added data rules to the OFFICE NAME field.
5	3AT	IPATMRTG (5896)	Added data rules to the PSU field.
7	1C	ATSDATA (5053)	Change value name (4GV) to EVRC-B for the PVELBK ALGOR. Added a data rule to the PVELBK ALGOR field..
7	1D	ATSPARM (5053)	Added the PVELBK value to the TEST TYPE field.
8	3	EQCORE (5701)	Added a data rule to the VCDX OFFICE field.
8	22	EQPSU (5741)	Added information to the GENERAL section. Modified Recent Change View information. Added data rules to the PSU field. Added data rule to the CRIT PSU field. Added CSU field and data rule. Added data rules to the INTF UNIT field. Added valid EQUIPMENT BAY entries table for 5E20(1) and later. Added data rules for EQUIPMENT AISLE field. Added data rules for PSU TYPE "IPS". Modified valid entries for SG 0 COMMON CONTROL CLI and SG 1 COMMON CONTROL CLI. Added data rule for the SG 1 TYPE field. Added the SG 0 DI, SG 0 PIDB, SG 0 PIDB EQSTAT, SG 1 DI, SG 1 PIDB, and SG 1 PIDB EQSTAT fields and data rules. Added data rules for SHLF SIDE 0 CLI and SHLF SIDE 1 CLI fields. Added descriptive information to the DI/TSIS field. Added 5E21(1) sample forms for EQPSU.
8	23	EQPSUPH (5742)	Added information to the GENERAL section. Modified Recent Change View information. Added data rules to the PSU field. Added description information, valid entries and data rules to the PH CLI field. Added the PCTLINK1, TSIS, SLOT, LNK1EQST, PCTLINK2, TSIS, SLOT, LNK2EQST, PCTLINK3, TSIS, SLOT, LNK3EQST, PCTLINK4, TSIS, SLOT, LNK4EQST fields. Added data rules to the PH31 MIN SPARE field. Added 5E20(1) and later sample forms for EQPSUPH.
8	64	EQAIU (5745)	Changed the valid entries for the COMDAC CLI field. Added data rules to the AIU TYPE field for the "AIU", "EAIU", and "XAIU" values.
8	65	EQAIUP (5746)	Changed valid entries for the CLI and added data rules to TYPE field.
8	72	EQPDXU (5868)	Changed the valid entries for the PCTDX0 and the PCTDX1 CLI values.
8	86	EQOIUP (5761)	Added a data rule to the PACK TYPE field.

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Figure 1 : SAMPLE SCRIDXPA FORM
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Figure 2 : SAMPLE SCRIDXPA FORM
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Figure 3 : SAMPLE SCRDXPA FORM
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Figure 1 : SECURED FEATURE ID NUMBERS AND CORRESPONDING FEATURE NAMES

Figure 2 : SAMPLE SFSYS FORM
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Figure 3 : SAMPLE SFSYS FORM
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5E20(1) AND LATER SOFTWARE RELEASES

Figure 1 : ID NUMBERS FOR TRANSPARENCY FEATURES

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Figure 1 : SAMPLE EQPIPE FORM
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Figure 1 : SAMPLE LOCSCRN FORM
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Figure 2 : SAMPLE LOCSCRN FORM
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Figure 3 : SAMPLE LOCSCRN FORM
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Figure 1 : SAMPLE NPASPLIT FORM
5E6 AND 5E7 SOFTWARE RELEASES

Figure 2 : SAMPLE NPASPLIT FORM
5E8 SOFTWARE RELEASE

Figure 1 : SAMPLE SREINCR FORM
5E9(2) AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE SLEN FORM
5E10 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE SLTSET FORM
5E10 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE SLTHRS FORM
5E10 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE SLJOB FORM
5E10 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE SLSESS FORM
5E10 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE MTBCOMP FORM
5E10 SOFTWARE RELEASE

Figure 2 : SAMPLE MTBCOMP FORM
5E12 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE ANIMOD FORM
5E10 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE ANITBL FORM
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Figure 2 : SAMPLE ANITBL FORM
5E12 SOFTWARE RELEASE

Figure 3 : SAMPLE ANITBL FORM
5E13 SOFTWARE RELEASE

Figure 1 : SAMPLE LONG DISTANCE PLATFORM CARRIER TABLE FORM
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Figure 2 : SAMPLE LONG DISTANCE PLATFORM
CARRIER TABLE FORM
5E13 - 5E14 SOFTWARE RELEASES

Figure 3 : SAMPLE LONG DISTANCE PLATFORM
CARRIER TABLE FORM
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Figure 4 : SAMPLE LONG DISTANCE PLATFORM
CARRIER TABLE FORM
5E16(2) AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE MEASSUM FORM
5E12 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE CCSTCAP FORM
5E12 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE LDPTNSC FORM
5E15 THROUGH 5E16(1) AND LATER SOFTWARE RELEASES

Figure 2 : SAMPLE LDPTNSC FORM
5E16(2) AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE TGNTNSC FORM
5E12 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE RORLST FORM
5E12 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE TDR FORM
5E12 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE TDMAOPT FORM
5E12 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE IIDIGTBL FORM
5E15 THROUGH 5E16(1) SOFTWARE RELEASES

Figure 2 : SAMPLE IIDIGTBL FORM
5E16(2) AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE RTLST FORM 5E13 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE ANITABLE FORM
5E13 AND LATER SOFTWARE RELEASE

Figure 1 : SAMPLE LDPINDEX FORM
5E14 AND EARLIER SOFTWARE RELEASE

Figure 2 : SAMPLE LDPINDEX FORM
5E15 THROUGH 5E16(1) SOFTWARE RELEASES

Figure 3 : SAMPLE LDPINDEX FORM
5E16(2) AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE MEASRET FORM
5E16(1) AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE TFANI FORM
5E11 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE NPANXX FORM
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Figure 1 : SAMPLE NTT (NO TEST TRUNK) UNIT
5E16(2) AND LATER SOFTWARE RELEASES

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5E15 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE CGATIME FORM
5E16(2) AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE OIUPM FORM
5E16(2) AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE ALRMLVLS FORM
5E16(2) AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE UNI2BCAU FORM
5E15 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE TRFOPARM FORM
5E20(1) AND LATER SOFTWARE RELEASES

Figure 2 : SAMPLE TRFOPARM FORM
5E21(1) AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE MTNDR FORM
5E11 AND EARLIER SOFTWARE RELEASES

Figure 2 : SAMPLE MTNDR FORM
5E12 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE CARSCR FORM
5E9(2) THROUGH 5E11 SOFTWARE RELEASES

Figure 2 : SAMPLE CARSCR FORM
5E12 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE SACSCR FORM
5E5 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE CLUSTR FORM
5E5 AND LATER SOFTWARE RELEASES

Figure 1 : INDIVIDUALIZED DIALING FORM FLOW
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Figure 1 : IDP ACTIONS AND THEIR FEATURE DEFINITION FORM DEPENDENCIES

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Figure 1 : SAMPLE IDPACT FORM
5E5 AND LATER SOFTWARE RELEASES

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

Figure 2 : SAMPLE IDPGP FORM
5E12 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE IDPICM FORM
5E5 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE IDPLPA FORM
5E11 AND EARLIER SOFTWARE RELEASES

Figure 2 : SAMPLE IDPLPA FORM
5E12 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE IDPMPA FORM
5E5 SOFTWARE RELEASE

Figure 2 : SAMPLE IDPMPA FORM

5E6 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE IDPTPA FORM
5E6 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE ADLIST FORM
5E5 SOFTWARE RELEASE

Figure 1 : SAMPLE IDPRDCA FORM
5E5 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE IDPRICM FORM
5E5 AND LATER SOFTWARE RELEASES

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

Figure 2 : PRECONSTRUCTED MULTI-WAY FEATURES (5602-2)
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Figure 3 : SAMPLE MWFD FORM
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Figure 1 : SAMPLE MWLPA FORM
5E11 AND EARLIER SOFTWARE RELEASES

Figure 2 : SAMPLE MWLPA FORM
5E12 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE MWMPA FORM
5E5 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE MWTPA FORM
5E5 AND LATER SOFTWARE RELEASES

Figure 1 : 5E9(1) AND LATER PRECONSTRUCTED CALL WAITING FEATURE LIST

Figure 2 : 5E9(1) AND LATER PRECONSTRUCTED CALL WAITING FEATURE LIST

Figure 3 : SAMPLE CWTFD FORM
5E12 AND 5E13 SOFTWARE RELEASES

Figure 4 : SAMPLE CWTFD FORM
5E14 SOFTWARE RELEASES

Figure 5 : SAMPLE CWTFD FORM
5E15 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE CWTLPA FORM
5E12 AND 5E13 SOFTWARE RELEASES

Figure 2 : SAMPLE CWTLPA FORM
5E14 SOFTWARE RELEASES

Figure 3 : SAMPLE CWTLPA FORM

5E15 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE CWTMPA FORM
5E12 THROUGH 5E13 SOFTWARE RELEASES

Figure 2 : SAMPLE CWTMPA FORM
5E14 SOFTWARE RELEASES

Figure 3 : SAMPLE CWTMPA FORM
5E15 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE CWTTPA FORM
5E5 AND LATER SOFTWARE RELEASES

Figure 1 : PRECONSTRUCTED MLHG FEATURES
5E4(2) AND LATER SOFTWARE RELEASES

Figure 2 : SAMPLE MLHGFD FORM
5E4(2) AND LATER SOFTWARE RELEASES

Figure 1 : PRECONSTRUCTED CALL PICKUP ORIGINATING FEATURES -
5E9(1) AND LATER SOFTWARE RELEASES

Figure 2 : SAMPLE PUOFD FORM
5E11 AND EARLIER SOFTWARE RELEASE

Figure 3 : SAMPLE PUOFD FORM
5E12 AND LATER SOFTWARE RELEASES

Figure 1 : PRECONSTRUCTED CALL PICK-UP TERMINATING FEATURES
5E9(1) AND LATER SOFTWARE RELEASES

Figure 2 : SAMPLE PUTFD FORM
5E6 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE PULPA FORM
5E12 THROUGH 5E14 SOFTWARE RELEASES

Figure 2 : SAMPLE PULPA FORM
5E15 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE PUMPA FORM
5E12 THROUGH 5E14 SOFTWARE RELEASES

Figure 2 : SAMPLE PUMPA FORM
5E15 AND LATER SOFTWARE RELEASES

Figure 1 : PRECONSTRUCTED DR FEATURES
5E9(2) AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE DRLPA FORM
5E11 AND EARLIER SOFTWARE RELEASES

Figure 2 : SAMPLE DRLPA FORM
5E12 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE DRMPA FORM
5E5 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE TGSRFD FORM
5E10 THROUGH 5E16(1) SOFTWARE RELEASE

Figure 2 : SAMPLE TGSRFD FORM
5E16(2) AND LATER SOFTWARE RELEASE

Figure 3 : PRECONSTRUCTED TGSR FEATURES

Figure 4 : SEMI-STATION RESTRICTION OPTION INTERACTIONS

Figure 5 : FULLY STATION RESTRICTION OPTION INTERACTIONS

Figure 1 : SAMPLE TGSRLPA FORM
5E12 THROUGH 5E16(1) SOFTWARE RELEASES

Figure 2 : SAMPLE TGSRLPA FORM
5E16(2) AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE TGSRMPA FORM
5E14 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE TGSRTPA FORM
5E10 AND LATER SOFTWARE RELEASES

Figure 1 : PRECONSTRUCTED ARS FEATURES (OPTIONS)
5E6 AND LATER SOFTWARE RELEASES

Figure 2 : PRECONSTRUCTED ARS FEATURES (DEFAULT PARAMETERS)
5E6 AND LATER SOFTWARE RELEASES

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5E11 AND EARLIER SOFTWARE RELEASES

Figure 4 : SAMPLE ARSFD FORM
5E12 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE ARSGPA FORM
5E6 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE ARSLPA FORM
5E11 AND EARLIER SOFTWARE RELEASES

Figure 2 : SAMPLE ARSLPA FORM
5E12 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE ARSMPA FORM
5E11 AND EARLIER SOFTWARE RELEASES

Figure 2 : SAMPLE ARSMPA FORM
5E12 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE ARSTPA FORM
5E11 AND EARLIER SOFTWARE RELEASES

Figure 2 : SAMPLE ARSTPA FORM
5E12 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE ARSSCRN FORM
5E11 AND EARLIER SOFTWARE RELEASES

Figure 2 : SAMPLE ARSSCRN FORM
5E12 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE ARSFRL FORM
5E6 AND EARLIER SOFTWARE RELEASES

Figure 2 : SAMPLE ARSFRL FORM
5E7 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE ARSTCM FORM
5E3 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE ARSSIG FORM
5E5 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE PNDP FORM
5E11 AND EARLIER SOFTWARE RELEASES

Figure 2 : SAMPLE PNDP FORM
5E12 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE PNINFO FORM
5E3 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE PNOFFON FORM
5E3 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE PNONOFF FORM
5E3 AND LATER SOFTWARE RELEASES

Figure 1 : PRECONSTRUCTED PFA FEATURE
5E6 AND LATER SOFTWARE RELEASES

Figure 2 : SAMPLE PFAFD FORM
5E6 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE PFATG FORM
5E12 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE PFASFG FORM
5E15 THROUGH 5E16(1) SOFTWARE RELEASES

Figure 2 : SAMPLE PFASFG FORM
5E16(2) AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE PFAINWT FORM

5E12 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE PFAGPA FORM
5E6 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE PFALPA FORM
5E11 AND EARLIER SOFTWARE RELEASES

Figure 2 : SAMPLE PFALPA FORM
5E12 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE PFAMPA FORM
5E2 SOFTWARE RELEASE

Figure 2 : SAMPLE PFAMPA FORM
5E6 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE PFATPA FORM
5E6 AND LATER SOFTWARE RELEASES

Figure 1 : PRECONSTRUCTED TIME OF DAY FEATURE LIST
5E7 SOFTWARE RELEASE

Figure 2 : SAMPLE TODFD FORM
5E7 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE TODCL FORM
5E11 AND EARLIER SOFTWARE RELEASES

Figure 2 : SAMPLE TODCL FORM
5E12 - 5E14 SOFTWARE RELEASES

Figure 3 : SAMPLE TODCL FORM
5E15 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE TODLPA FORM
5E11 AND EARLIER SOFTWARE RELEASES

Figure 2 : SAMPLE TODLPA FORM
5E12 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE TODMPA FORM
5E11 AND EARLIER SOFTWARE RELEASES

Figure 2 : SAMPLE TODMPA FORM
5E12 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE TODTPA FORM
5E11 AND EARLIER SOFTWARE RELEASES

Figure 2 : SAMPLE TODTPA FORM
5E12 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE TGATTD FORM
5E12 - 5E13 SOFTWARE RELEASES

Figure 2 : SAMPLE TGATTD FORM
5E14 SOFTWARE RELEASE

Figure 3 : SAMPLE TGATTD FORM
5E15 THROUGH 5E16(1) SOFTWARE RELEASES

Figure 4 : SAMPLE TGATTD FORM
5E16(2) AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE MUPHKEY FORM
5E5 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE FTRKEY FORM
5E11 AND EARLIER SOFTWARE RELEASES

Figure 2 : SAMPLE FTRKEY FORM
5E12 AND LATER SOFTWARE RELEASES

Figure 1 : PRECONSTRUCTED CF FEATURES
5E9(1) AND LATER SOFTWARE RELEASES

Figure 2 : SAMPLE CFWFD FORM
5E14 SOFTWARE RELEASES

Figure 3 : SAMPLE CFWFD FORM
5E15 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE CFWLPA FORM
5E12 THROUGH 5E13 SOFTWARE RELEASES

Figure 2 : SAMPLE CFWLPA FORM
5E14 SOFTWARE RELEASES

Figure 3 : SAMPLE CFWLPA FORM
5E15 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE CFWMPA FORM
5E12 AND 5E13 SOFTWARE RELEASES

Figure 2 : SAMPLE CFWMPA FORM
5E14 SOFTWARE RELEASES

Figure 3 : SAMPLE CFWMPA FORM
5E15 - 5E16 SOFTWARE RELEASES

Figure 1 : SAMPLE MEASPDF FORM
5E5 AND LATER SOFTWARE RELEASES

Figure 1 : PRECONSTRUCTED ACB FEATURES
5E5 AND LATER SOFTWARE RELEASES

Figure 2 : SAMPLE ACBFD FORM
5E5 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE ACBLPA FORM
5E11 AND EARLIER SOFTWARE RELEASES

Figure 2 : SAMPLE ACBLPA FORM
5E12 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE ACBMPA FORM
5E5 AND LATER SOFTWARE RELEASES

Figure 1 : PRECONSTRUCTED MODULAR QUEUING FEATURES
5E6 AND LATER SOFTWARE RELEASES

Figure 2 : PRECONSTRUCTED MODULAR QUEUING FEATURES
5E6 AND LATER SOFTWARE RELEASES

Figure 3 : PRECONSTRUCTED MODULAR QUEUING FEATURES
5E6 AND LATER SOFTWARE RELEASES

Figure 4 : SAMPLE QUFD FORM
5E8 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE QUGPA FORM
5E8 THROUGH 5E14 SOFTWARE RELEASES

Figure 2 : SAMPLE QUGPA FORM
5E15 AND LATER SOFTWARE RELEASES

Figure 1 : PRECONSTRUCTED PRECEDENCE AND PREEMPTION FEATURE

Figure 2 : SAMPLE PPFDF FORM
5E3 AND LATER
SOFTWARE RELEASES

Figure 1 : REQUIREMENTS FOR ROUTE TYPE
5E3 AND LATER SOFTWARE RELEASES

Figure 2 : SAMPLE PPSCRN FORM
5E11 AND EARLIER SOFTWARE RELEASES

Figure 3 : SAMPLE PPSCRN FORM
5E12 THROUGH 5E16(1) SOFTWARE RELEASES

Figure 4 : SAMPLE PPSCRN FORM
5E16(2) AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE PPLPA FORM
5E11 AND EARLIER SOFTWARE RELEASES

Figure 2 : SAMPLE PPLPA FORM
5E12 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE PPMPA FORM
5E5 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE PPTPA FORM

5E5 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE PPCOI FORM
5E5 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE PPPOLY FORM
5E3 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE DSNCO FORM
5E5 AND LATER SOFTWARE RELEASES

Figure 1 : PRECONSTRUCTED ATH FEATURES
5E3 - 5E5 SOFTWARE RELEASES

Figure 2 : PRECONSTRUCTED ATH FEATURES
5E6 AND LATER SOFTWARE RELEASES

Figure 3 : SAMPLE ATHFD FORM
5E6 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE ATHGP FORM
5E3 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE ATHAC FORM
5E3 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE ATHFCOS FORM
5E16(1) AND EARLIER SOFTWARE
RELEASES

Figure 2 : SAMPLE ATHFCOS FORM
5E16(2) AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE ATHLPA FORM
5E11 AND EARLIER SOFTWARE RELEASES

Figure 2 : SAMPLE ATHLPA FORM
5E12 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE ATHMPA FORM
5E3 - 5E5 SOFTWARE RELEASES

Figure 2 : SAMPLE ATHMPA FORM
5E6 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE ATHTPA FORM
5E6 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE APCA FORM
5E5 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE APGFP FORM
5E11 AND EARLIER SOFTWARE RELEASES

Figure 2 : SAMPLE APGFP FORM

5E12 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE APFMA FORM
5E5 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE APHSS FORM
5E5 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE MBG FORM
5E9(2) AND LATER SOFTWARE RELEASES

Figure 1 : PRECONSTRUCTED ACCT FEATURES

Figure 2 : ACCOUNT CODE DIALING SEQUENCE

Figure 3 : SAMPLE ACCTFD FORM
5E3 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE ACCTGP FORM
5E16(1) AND EARLIER SOFTWARE RELEASES

Figure 2 : SAMPLE ACCTGP FORM
5E16(2) AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE ACCTRTP FORM
5E3 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE ACCTLPA FORM
5E11 AND EARLIER SOFTWARE RELEASES

Figure 2 : SAMPLE ACCTLPA FORM
5E12 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE ACCTMPA FORM
5E7 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE ACCTTPA FORM
5E3 AND LATER SOFTWARE RELEASES

Figure 1 : PRECONSTRUCTED MESSAGE DETAIL RECODING FEATURE

Figure 2 : SAMPLE MDRFD FORM
5E3 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE MDRGP FORM
5E4(2) SOFTWARE RELEASE

Figure 2 : SAMPLE MDRGP FORM
5E5 SOFTWARE RELEASE

Figure 3 : SAMPLE MDRGP FORM
5E6 SOFTWARE RELEASE

Figure 4 : SAMPLE MDRGP FORM
5E7 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE MDRCNT FORM
5E5 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE MDRLPA FORM
5E11 AND EARLIER SOFTWARE RELEASES

Figure 2 : SAMPLE MDRLPA FORM
5E12 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE MDRMPA FORM
5E5 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE MDRTPA FORM
5E5 AND LATER SOFTWARE RELEASES

Figure 1 : BFG PARAMETER TYPES

Figure 2 : SAMPLE BFG FORM
5E13 SOFTWARE RELEASE

Figure 3 : SAMPLE BFG FORM
5E14 SOFTWARE RELEASE

Figure 4 : SAMPLE BFG FORM
5E15 THROUGH 5E16(1) SOFTWARE RELEASES

Figure 5 : SAMPLE BFG FORM
5E16(2) AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE 5626 RECORD

Figure 1 : PRECONSTRUCTED AND CONSTRUCTED FEATURE
ASSIGNMENT CONVERSION TABLE

Figure 2 : PRECONSTRUCTED SPEED CALLING FEATURES
5E6 AND LATER SOFTWARE RELEASES

Figure 3 : SAMPLE SCFD FORM
5E11 AND EARLIER SOFTWARE RELEASES

Figure 4 : SAMPLE SCFD FORM
5E12 AND LATER SOFTWARE RELEASES

Figure 5 : SPEED CALLING FORM FLOW DIAGRAM 5E6 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE SCLPA FORM
5E11 AND EARLIER SOFTWARE RELEASES

Figure 2 : SAMPLE SCLPA FORM
5E12 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE SCMPA FORM
5E11 AND EARLIER SOFTWARE RELEASES

Figure 2 : SAMPLE SCMPA FORM
5E12 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE SCTPA FORM
5E11 AND EARLIER SOFTWARE RELEASES

Figure 2 : SAMPLE SCTPA FORM
5E12 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE SCLIST FORM
5E11 AND EARLIER SOFTWARE RELEASES

Figure 2 : SAMPLE SCLIST FORM
5E12 AND LATER SOFTWARE RELEASES

Figure 1 : PRECONSTRUCTED HOME INTERCOM FEATURES
5E6 AND LATER SOFTWARE RELEASES

Figure 2 : SAMPLE HIFD FORM
5E6 AND LATER SOFTWARE RELEASES

Figure 1 : PRECONSTRUCTED BCLID FEATURES -
5E8 AND LATER SOFTWARE RELEASES

Figure 2 : SAMPLE 5629-1 RECORD

Figure 3 : SAMPLE BCLIDFD FORM
5E8 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE 5629-2 RECORD

Figure 2 : SAMPLE BCLIDGP FORM
5E11 AND EARLIER SOFTWARE RELEASES

Figure 3 : SAMPLE BCLIDGP FORM
5E12 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE 5629-3 RECORD

Figure 2 : SAMPLE BCLIDLPA FORM
5E11 AND EARLIER SOFTWARE RELEASES

Figure 3 : SAMPLE BCLIDLPA FORM
5E12 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE 5629-4 RECORD

Figure 2 : SAMPLE BCLIDMPA FORM
5E8 AND LATER SOFTWARE RELEASES

Figure 1 : PRECONSTRUCTED ASI FEATURES -
5E8 AND LATER SOFTWARE RELEASES

Figure 2 : SAMPLE 5630-1 RECORD

Figure 3 : SAMPLE ASIFD FORM
5E8 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE 5630-2 RECORD

Figure 2 : SAMPLE ASILPA FORM
5E11 AND EARLIERR SOFTWARE RELEASES

Figure 3 : SAMPLE ASILPA FORM
5E12 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE 5630-3 RECORD

Figure 2 : SAMPLE ASIMPA FORM
5E8 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE 5630-4 RECORD

Figure 2 : SAMPLE ASIGP FORM
5E8 AND LATER SOFTWARE RELEASES

Figure 1 : PRECONSTRUCTED ASP FEATURES
5E10 AND LATER SOFTWARE RELEASES

Figure 2 : SAMPLE ASPFD FORM
5E12 - 5E13 SOFTWARE RELEASES

Figure 3 : SAMPLE ASPFD FORM
5E14 SOFTWARE RELEASES

Figure 4 : SAMPLE ASPFD FORM
5E15 AND SOFTWARE RELEASES

Figure 1 : SAMPLE ASPLPA FORM
5E12 -5E13 SOFTWARE RELEASES

Figure 2 : SAMPLE ASPLPA FORM
5E14 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE ASPMPA FORM
5E12 - 5E13 SOFTWARE RELEASES

Figure 2 : SAMPLE ASPMPA FORM
5E14 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE ASPTPA FORM
5E9(1) - 5E13 SOFTWARE RELEASES

Figure 2 : SAMPLE ASPTPA FORM
5E14 SOFTWARE RELEASES

Figure 3 : SAMPLE ASPTPA FORM
5E15 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE ASPDP FORM

5E9(1) SOFTWARE RELEASE

Figure 1 : SAMPLE ASPGRP FORM
5E9(2) SOFTWARE RELEASE AND LATER

Figure 1 : SAMPLE ASPOPT FORM
5E13 SOFTWARE RELEASE

Figure 2 : SAMPLE ASPOPT FORM
5E14 SOFTWARE RELEASE

Figure 3 : SAMPLE ASPOPT FORM
5E15 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE LNBLKCOD FORM
5E15 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE SRFD FORM
5E16 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE SRDN FORM
5E16 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE ACDTN FORM
5E12 - 5E14 SOFTWARE RELEASES

Figure 2 : SAMPLE ACDTN FORM
5E15 SOFTWARE RELEASE

Figure 3 : SAMPLE ACDTN FORM
5E16(2) AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE MISLINK FORM
5E9(1) - 5E10 SOFTWARE RELEASES

Figure 2 : SAMPLE MISLINK FORM
5E11 SOFTWARE RELEASE

Figure 3 : SAMPLE MISLINK FORM
5E12 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE STPARAM FORM
5E11 AND LATER SOFTWARE RELEASES

Figure 1 : SAMPLE AGNTID FORM
5E11 AND LATER SOFTWARE RELEASES

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Figure 5 : SAMPLE EQMSP FORM
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5E13 AND EARLIER SOFTWARE RELEASES

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Figure 1 : SAMPLE EQFIU FORM
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Figure 2 : SAMPLE EQAIU FORM
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Figure 2 : SAMPLE EQPCTT FORM
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Figure 1 : SAMPLE EQPIPE FORM
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Figure 1 : SAMPLE CDMAOPT FORM
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Figure 1 : SAMPLE EQAPCX FORM
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Figure 1 : SAMPLE EQOIU FORM
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Figure 1 : SAMPLE EQAIP FORM
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Figure 1 : SAMPLE QGCON FORM
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Figure 1 : SAMPLE TSTHD FORM
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Figure 3 : SAMPLE CC7PR FORM
5E14 AND LATER SOFTWARE RELEASES

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Figure 2 : SAMPLE LNKSET FORM
5E14 SOFTWARE RELEASE

Figure 3 : SAMPLE LNKSET FORM
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Figure 4 : SAMPLE LNKSET FORM
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Figure 1 : SAMPLE CCLNK FORM
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Figure 1 : SAMPLE CLKSET FORM
5E11 THROUGH 5E14 SOFTWARE RELEASES

Figure 2 : SAMPLE CLKSET FORM
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Figure 1 : SAMPLE PC FORM
5E11 SOFTWARE RELEASE

Figure 2 : SAMPLE PC FORM
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Figure 3 : SAMPLE PC FORM
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Figure 1 : SAMPLE CHGRPM FORM
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Figure 1 : SAMPLE CCGSM FORM
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5E15 SOFTWARE RELEASE

Figure 3 : SAMPLE CCGSM FORM
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Figure 1 : SAMPLE CCNET FORM
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Figure 1 : SAMPLE CCSPR FORM
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Figure 2 : SAMPLE CCSPR FORM
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Figure 3 : SAMPLE CCSPR FORM
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Figure 1 : SAMPLE CCPBD FORM
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Figure 2 : SAMPLE CCPBD FORM
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Figure 1 : SAMPLE CCSGT FORM
5E11 THROUGH 5E14 SOFTWARE RELEASE

Figure 2 : SAMPLE CCSGT FORM
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Figure 1 : SAMPLE CCTT FORM
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Figure 1 : SAMPLE NID FORM
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Figure 2 : SAMPLE NID FORM
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Figure 1 : SAMPLE CLU FORM
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Figure 2 : SAMPLE CLU FORM
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Figure 3 : July 2005 Changes

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