TITLE: 4ESS™ Input Manual Quarterly Update Package
User's Instructions

This package contains the input message changes for Issue 1.8 Generic 4E27 Base Release. This is an update package. These messages should be incorporated into the main 4ESS™ Input Message Manual (IM-4B000-01).

The table below lists input messages and other manual items that have changed since the last issue of this manual. Each volume of the manual is listed with the accompanying changed messages for that volume.

Both feature specific as well as other changed messages are included in this update. Check for a "Yes" in the Feature Specific column in the table to determine if the message is feature related.

If you need to see how to use these messages, please refer to the User Guidelines section in the main Input Message Manual.

If you notice any errors in this manual, please contact us by using the Error Reporting Form included in this package.

Thank you.

The following messages should be added, deleted, or replaced in the IM-4B000-01 Input Manual:

Description or Message ID	Add, Delete, Replace	Feature Specific
VOLUME 1		
Title Page	Replace	
TAB **Overview and Supplementary Information**		
Overview and Supplementary Information	Replace	
TAB **Introduction**		
Introduction	Replace	

Description or Message ID	Add, Delete, Replace	Feature Specific
TAB **USER GUIDELINES**		
User Guidelines	Replace	
TAB **Indexes**		
Indexes	Replace	
TAB **Input Messages**		
TAB **ALW**		
ALW:TAPEXLAT	Delete	
ALW:TUC	Delete	
TAB **ANALY-CFR**		
TAB **CLR-COPY**		
CLR:ADSFUNC	Delete	
COPY:GEN-TAPE	Delete	
COPY:NWM	Delete	
COPY:ODA	Delete	
COPY:TAPE	Delete	
COPY:TPM	Delete	
TAB **DGN**		
DGN:DUS	Delete	
DGN:SFI	Delete	
DGN:TUC	Delete	
TAB **DUMP (a-l)**		
TAB **DUMP (m-z)**		
DUMP:TAPE	Delete	
Error Reporting Form	Replace	
Feedback Form	Replace	

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Description or Message ID	Add, Delete, Replace	Feature Specific
VOLUME 2		
Title Page	Replace	
Index	Replace	
TAB **Input Messages (Continued)**		
TAB **ELSE - EX**		
EX:DUS	Delete	
EX:SFI	Delete	
EX:TUC	Delete	
TAB **EXC - INH (a-l)**		
TAB **INH (m-z) - INIT**		
INH:TAPEXLAT	Delete	
INH:TUC	Delete	
TAB **LOAD (a-u)**		
TAB **LOAD (v-z)**		
TAB **MON - OP (a-l)**		
OP:DUSTATUS	Delete	
Error Reporting Form	Replace	
Feedback Form	Replace	
VOLUME 3		
Title Page	Replace	
Index	Replace	
TAB **Input Messages (Continued)**		

Description or Message ID	Add, Delete, Replace	Feature Specific
TAB **OP (m-z)**		
OP:SDLST	Replace	Yes
OP:SFISTAT	Delete	
TAB **ORD - RMV**		
RMV:DUS	Delete	
RMV:SFI	Delete	
RMV:TUC	Delete	
TAB **RST - SCHED**		
RST:DUS	Delete	
RST:SFI	Delete	
RST:TUC	Delete	
TAB **SET - STOP**		
SET:SDSTAT	Replace	Yes
SET:TUC	Delete	
TAB **SW - UPD**		
TEST:DUS	Delete	
TEST:SF	Delete	
TAB **VER - WHEN**		
VER:MISC	Replace	
VER:TSGLIST	Replace	
Error Reporting Form	Replace	
Feedback Form	Replace	

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Lucent Technologies
Bell Labs Innovations

4ESS™ Switch
1B Processor

Input Messages

Volume 1

ALW - DUMP

IM-4B000-01
Issue 1.8
September 2001

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4ESS™
1B PROCESSOR
INPUT MESSAGE DOCUMENT

Part 1

Overview and Supplementary Information

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SECTION 1

INTRODUCTION

1.1 PURPOSE

The 4ESS™ Input Message Document describes the input messages available for use on the 4ESS™ input channels. It is designed, together with the 4ESS™ Output Message Document (OM-4B000-01), as a reference for work center personnel and support groups who interact with the 4ESS™ switch by sending and receiving messages.

The messages included in Issue 1.8 of this document represent complete documentation for the current generic issues, 4E19 and later. Only certain "recent change" messages associated with updating the generic program are not included. The attached processor system (APS) was incorporated with Generic 4E7. A companion document, the 4ESS™ / APS Input Message Document (IM-4A001-01), describes the messages available for use on the APS input channels. The 4ESS™ / APS Input Message Document and the 4ESS™ / APS Output Message Document (OM-4A001-01) serve as a reference for work center personnel and support groups maintaining the APS of a 4ESS™ switch.

1.2 LUCENT TECHNOLOGIES

As a result of the AT&T divestiture, the AT&T Network Systems division becomes Lucent Technologies, a separate and independent corporation. The 4ESS™ switch, and many other network and transmission products become products of Lucent Technologies. The marketing, sales, engineering, delivery, installation, support, and future development of these products will be provided by Lucent Technologies.

Therefore, the corporate name and logo on this document are being changed from the AT&T brand to the new Lucent Technologies brand. The AT&T name is being removed from the cover, spine, title page, content (where appropriate) as well as the 9-digit document order number.

All modules of this document are not being reissued to make these changes. Instead, the pages will be reissued over a period of time as technical and other changes are required. Customers on standing order for this document, as of this publication, will see references to the AT&T name on previous-issue pages. Customers receiving new orders for this document will see the references changed to the Lucent Technologies name throughout the document as appropriate. Exceptions may exist in software-driven elements such as Input / Output messages, recent change screens, Master Control Complex (MCC) screens, etc.. These elements will not be changed in this document until such time as they are changed in the software code.

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Document updates will not be made specifically to remove historical references to AT&T, especially in cases where the Network Systems division of AT&T, now Lucent Technologies, provided the product or service in question.

1.3 ORGANIZATION

The Input Message Document is a three-volume document organized into two parts, Overview and Supplementary Information and Input Messages, with each part containing several sections. A tab divider marks each part and section. Part 1, Overview and Supplementary Information, contains the following sections:

- The *Introduction* explains the purpose of the document and the organization of material presented. It also contains a brief overview of input message applications and discusses the documentation management system used to produce this document.
- The *User Guidelines* of the *Input Message Document* contains instructional information for guiding the user in interpreting message formats and descriptions. It discusses the structure of input messages, the string format used to present them, and the organization and content of the message descriptions.
- The *Indexes* includes topical and functional indexes that categorize the input messages according to unit or function, as well as an alphabetical listing of all input messages. The indexes may be used as a guide for selecting specific message descriptions in Part 2.

Part 2, Input Messages, contains the actual message descriptions presented in alphabetical order by message ID. Part 2 divides the message descriptions into eighteen sections (spread over three volumes), each marked by a tab divider showing the first and last message verb included in that section. Each message description begins on a righthand page.

1.4 INPUT MESSAGE APPLICATIONS

The input messages in this document concern the control, maintenance, and administration of the switching system. In particular, they provide for variable data inputs for requesting functions that may require a series of actions to be taken or reported on, often with many variables or options. Examples of functions that can be requested by input messages include the following:

- Executing diagnostic and exercise programs and reporting the results
- Testing and reporting the results
- Reporting the status of various subsystems
- Reporting traffic information
- Entering translation information into memory
- Restoring units to service or removing units from service.

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Because there are many variables or options inherent to requesting these functions, the input messages can be complex, with several valid forms or executable paths. In addition, some messages can disable service. Such messages should be used both with extreme caution and with the knowledge of how to terminate the message quickly; in addition, they should only be used at times of light traffic. Therefore, the user should be thoroughly familiar with the rules of structure and format discussed in the User Guidelines of the *Input Message Document*.

1.5 DOCUMENTATION MANAGEMENT

This document and its related output message document represent the first phase of a computer-aided system for managing the documentation of input and output messages. The system consists of a data base containing the message documentation, and software to help maintain and update the information in the data base. Six categories of key block data (see Section 2) are used to link each message to the processing software for selective retrieval.

Several interrelated goals have been established for the documentation management system:

- Increase the accuracy of message documentation
- Speed the availability of updates
- Improve the readability of the message descriptions
- Facilitate output of all or selected message documents (such as retrieval by application or generic).

Currently, the message data base is accessed only by documentation specialists responsible for the production, correction, and update of the message documents. A later goal is to provide direct user-access to the data base for retrieving selected message parts or fully formatted printouts of completed message texts.

1.6 ERROR REPORTING PROCEDURES

User-reporting of documentation errors is important to the effectiveness of the documentation management system. Users are encouraged to report any errors encountered, and to suggest changes or additions that would make the documentation more useful or more complete.

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SECTION 2

USER GUIDELINES

2.1 INTRODUCTION

When using 4ESS™ input messages, certain rules of message structure and format are important to remember. In this document, *message structure* refers to the way messages are designed to meet the requirements of the processing software; *message format* refers to the way messages are presented for documentation purposes. These rules, together with the organization and content of the message descriptions, are discussed in this section.

2.2 INPUT MESSAGE STRUCTURE

The messages input to the 4ESS™ switch follow the structure defined in the Program Documentation Standards (PDS) manual. This structure is summarized following and in Table 2-1.

2.2.1 Message Fields

Messages consists of either two or three *fields*, separated by colons, semicolons, or sometimes commas, and messages are terminated by an exclamation point (!) or a slash (/). These fields are input in the order shown following.

Action Field (Verb): Identification Field; Data Field!

The action and identification fields are required for all messages. The use of the data field is dependent on the structure of each message.

The action field is a keyword that identifies a function. It is a verb, such as COPY, LOAD, or STOP, or a verb abbreviation, such as ALW (allow), DGN (diagnose), or INH (inhibit). The identification field may be divided into two or three *subfields*, separated by semicolons or commas. The data field consists of one or more keyword units, separated by commas.

Example 2-1 shows some valid message structures.

STOP:MSG!	2 fields, no subfields
COPY:ODA;TAPE!	2 fields, 2 subfields
ALW:VCNT:ALL!	3 fields, no subfields
OP:ERAPDATA b**;ITEM** e**:MFNUM** c**!**	3 fields, 2 subfields

Example 2-1. Valid Message Structures

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2.2.2 Keywords and Keyword Units

A *keyword*, shown in uppercase constant width and boldface type in the message documentation, is a mnemonic identifier of a unit, function, or condition. Keywords are shown in constant width boldface type in input message formats to indicate constant information; keywords should be input exactly as given.

A *keyword unit* may consist of either a solitary keyword or a keyword with one or more variables, which are called *arguments*. Arguments shown in lowercase constant width type represent variable information to be supplied by the user. A space or a left parenthesis separates an argument from its keyword.

Fields and keyword units are demonstrated in Example 2-2.

RMV:EST a,**CONTR** b! — This format has two keyword units in the identification field.

COPY:GEN,ODA;TAPE! — This format has two keyword units in the first identification subfield, and one keyword unit in the second identification subfield.

SET:CLK:DAY a,**DATE** b,**TIME** c! — This format has one keyword unit in the identification field, and three keyword units in the data field.

Example 2-2. Fields and Keyword Units

A keyword unit may have a single argument, a list, or a range of arguments. Arguments in a list are separated by commas and enclosed in parentheses. There may be up to 15 arguments in a list. Two arguments showing a range are separated by a hyphen. Example 2-3 shows examples of keyword arguments.

OP:ERAPDATA:MRNUM a! — Variable a represents a maintenance record number. It may be a single argument, a list, or a range (see following).

OP:ERAPDATA:MRNUM 6! — Specifies record number 6.

OP:ERAPDATA:MRNUM (2,4,6)! — Specifies record numbers 2, 4, and 6.

OP:ERAPDATA:MRNUM 2-6! — Specifies record numbers 2, 3, 4, 5, and 6.

Example 2-3. Keyword Arguments

A list of arguments may also be non-numeric, or alpha-numeric, as in the following message.

STOP:CFR;ALMGRP,MC(MOC,TEC2,TEC3)!

2.2.3 Input Rules

In input messages, the following rules must be observed.

- An entered message may consist of up to 96 characters, but no more than a single line of input. The 96-character limit includes spaces as well as characters.
- The final character of a message is ! or / as shown in the message description. The 96-character limit includes this character. (An EOT ends the message.)
- One or more spaces are required to separate an argument from its keyword. The exception is a list of arguments within parentheses; the left parenthesis serves as a separator, and the space is optional.

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- Spaces are optional anywhere else in the message, except within a keyword, where they are not permitted.

2.3 INPUT MESSAGE FORMAT

Most messages can be input in more than one form. For example, different forms of the ALW:TGR input message are used to unpest a controller, a terminal, or a MCODE pest. A message format devised for documentation purposes shows the choices available. It is described here and summarized in Table 2-1.

2.3.1 Format Notation

The message formats shown in this manual include, where necessary, three types of notation that are not part of the message itself. The purpose of this notation is to show the choices the user has in constructing the message. The notation is for documentation purposes only; it is not input.

[ ] Brackets enclose optional entries. Optional entries may be included in the message or omitted.

{ } Braces enclose two or more entries where one entry, but only one, must be included in the message.

| An OR bar separates entries within braces or brackets.

Example 2-4 demonstrates how brackets, braces, and OR bars are used.

[**ENTRY1**][**ENTRY2**] — ENTRY1 may be included in the message or omitted. ENTRY2 may be included in the message or omitted.

{**ENTRY1**|**ENTRY2**} — Either ENTRY1 or ENTRY2, but not both, must be included in the message.

[**ENTRY1**|**ENTRY2**] — Either ENTRY1 or ENTRY2, but not both, may be included in the message, or both ENTRYs may be omitted altogether.

Example 2-4. Brackets, Braces, and Vertical Bars

The constant width boldface type is used in the input message format to indicate literal entries; that is, punctuation, alpha characters, and numerals that may be entered exactly as shown in the message format. Optional fields as well as required fields are shown in constant width boldface type. Generally, items shown in constant width boldface type are keywords, colons, semicolons, commas, and exclamation points. Variables, brackets, braces, and OR bars are not shown in boldface type.

2.3.2 Format Examples

Example 2-5 through 2-9 show the difference between the message as it is documented and the message as it is input.

Message format: **AUD:NWM;**{**CORR**|**NCG**|**UCL**}**!**

Valid forms:
AUD:NWM;CORR!
AUD:NWM;NCG!
AUD:NWM;UCL!

Example 2-5. Entries Within Braces

Message format: **AUD:ODA;**{**CORR**|**NCG**[**,NORC**]}**!**

Valid forms:
```
AUD:ODA;CORR!
AUD:ODA;NCG!
AUD:ODA;CORR,NORC!
AUD:ODA;NCG,NORC!
```

Example 2-6. Braced Entries With and Without a Bracketed Entry

Message format: **RMV:IOUS** a[,{**IOUC** b|**IPUB** c|**IOMP** d}]**!**

Valid forms:
```
RMV:IOUS a!
RMV:IOUS a,IOUC b!
RMV:IOUS a,IPUB c!
RMV:IOUS a,IOMP d!
```

Example 2-7. Braced Entries Within Brackets

Message format: **RST:VIF** a,{**CONTR** b|**IPUB** c|**VIU** d}[**;UCL**]**!**

Valid forms:
```
RST:VIF a,CONTR b!
RST:VIF a,CONTR b;UCL!
RST:VIF a,IPUB c!
RST:VIF a,IPUB c;UCL!
RST:VIF a,VIU d!
RST:VIF a,VIU d;UCL!
```

Example 2-8. Braced and Bracketed Entries

Message format: **OP:CHAN** [:[**RTE**][**,MON**][**,SCC**]]**!**

Valid forms:
```
OP:CHAN!
OP:CHAN:RTE!
OP:CHAN:RTE,MON!
OP:CHAN:RTE,SCC!
OP:CHAN:RTE,MON,SCC!
OP:CHAN:MON!
OP:CHAN:MON,SCC!
OP:CHAN:SCC!
```

Example 2-9. Bracketed Entries Within Brackets

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Table 2-1
Summary of Message Structure and Format Terms

Term or Item	Definition
Field	Basic structural unit of message. No more than three fields per message. Variable length. Separated by colons, semicolons, or sometimes commas. Action field containing verb required first. Identification field required second; contains keyword unit(s). Data field optional; follows identification field and may contain keyword unit(s).
Subfield	Optional breakdown of identification field. No more than three subfields allowed. Separated by semicolons or commas. Contains keyword unit(s).
Keyword	Mnemonic identifier of a unit, function, or condition. Shown as an uppercase, constant width, boldface entry in message documentation. May have argument(s) associated with it. Input as shown.
Argument	Represents variable information to be supplied by the user. Shown as constant width lowercase entry in the message documentation and is separated from keyword by a space or left parenthesis. Can be input as a single entry, as a list of up to 15 entries in the form (a,b,c...), or as a range in the form x-y.
Keyword Unit	Keyword and its associated argument(s), if any. Two or more keyword units within a field or subfield are separated by commas.
Message Length	Up to 96 characters, including spaces and ! or / final character. Cannot exceed one line.
Uppercase Entry	Keyword (constant). Shown in constant width boldface. Input as given.
Lowercase Entry	Argument (variable). Replace with user-supplied information. Shown in constant width.
Constant Width Boldface Entry	Keywords and literal punctuation are shown in constant width boldface. Part of message. Input as shown.
Space	Optional throughout message, except required between keyword and its argument, and not permitted within keyword.

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Table 2-1
Summary of Message Structure and Format Terms (Continued)

Term or Item	Definition
! Exclamation point	Causes the command to be executed as an immediate action.
/ Slash	Causes the command to be executed at an appropriate breakpoint.
Brackets []	Enclose optional entries. Can also be used with OR bars, of which the user must input one, but only one. Not input.
Braces {}	Enclose two or more entries, separated by OR bars, of which the user must input one, but only one. Not input.
OR bar |	Separates entries within braces or brackets. One entry, but only one, must be input. Not input.
All other punctuation	Part of message. Input as shown.

2.4 ORGANIZATION AND CONTENT

Each message description begins with a block of key data *(key block)* identifying the message and its applications, followed by descriptive material that presents and explains the message format and how the system responds.

2.4.1 Key Block Data

The entries in the key block are used as index keys for accessing the computerized data base developed for message documentation. They also provide such application information such as the appropriate work center, generic, and screening class.

Six index keys are given for each input message:

- *ID* - Uniquely identifies the message and is used to access the data base. It may or may not be the same as the message name. The message name and ID will be different if the message name, including punctuation, exceeds 12 characters, or several messages share the same message name, or versions of the messages are limited to particular releases. The following examples show message IDs that differ from the message name.

Message Name	ID
`DUMP:TSI`	`DUMP:TSI-CREG`
`DUMP:TSI`	`DUMP:TSI-IREG`
`ALW:`	`ALW:0`

  Note: The zero in the preceding example (`ALW:0`) is used for reference only. It means that the user has several options from which to choose, following the action field. The options are depicted in the message.

  The message name, not the ID, appears as part of the message format. It also appears at the upper right corner of each message page. The ID is used for accessing message documentation from the data base, and is also used as a page-numbered prefix.

- *Work Center* - Specifies the work center(s) at which the message is entered or output. One or more of the following is given:

  MAC — Machine Administration Center

  MOC — Maintenance Operations Center

  NMOC — Network Management Center

  TEC — Terminal Equipment Center

  TOC — Trunk Operations Center

- *Generic* - Gives the earliest active generic to which the message applies. Generics 4E19 and later are currently considered active. The generic key block entry may also give the earliest generic in which the message did not apply. For example:

  4E19 and later — The message applies to 4E19 and all later generics.

  4E19 only — The message applies to 4E19 only and was deleted as of 4E20.

  There are cases in which a message applies to more than one generic, but has been modified so that all information about the message does not apply to all its generics. In these cases, the restricted information is identified by either a heading, a bracketed notation, or a phrase in parentheses. For example:

  Begins with 4E19 — The information under this heading applies to generics beginning with 4E19.

  (for 4E19 and later) — The information associated with this phrase applies to generics 4E19 and later.

  Deleted in 4E19 — The information under this heading does not apply to generics 4E19 and later.

  (deleted in 4E19) — The information associated with this phrase does not apply to generics 4E19 and later.

- *Class* - Identifies the input message screening class assigned to the message. The screening class determines the channels on which the message can be input. Classes and their valid channels are given in Table 2-2. Channel names are defined in Table 2-3.

- *Application* - Specifies the processors (1B,APS) or switching system (4ESS™) for which the message is used. Application codes used in the key blocks of 4ESS™ messages are:

  4E — The message applies to the 4ESS™ switch.

  4E,1B — The message applies to the 1B processor of the 4ESS™ switch and the 4ESS™ switch.

  4E,1A-APS — The message applies to the 4ESS™ attached processor system (APS) and the 4ESS™ switch.

  4E,1B,1A-APS — The message applies to the 4ESS™/APS, the 1B processor of the 4ESS™ switch, and the 4ESS™ switch.

- *Type* - Specifies that the message is an input message.

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Table 2-2
Input Message Screening Classes
and Their Valid I/O Channels

ALL	PMTC	TMTC	PUMTC	NMGT	PLTM	VER	RC	TRFM	IATRAP
BELT1	BELT1	BELT1	BELT1	BELT1	BELT1	BELT1	MAC1	MTC	BELT1
BELT2	BELT2	BELT2	BELT2	BELT2	BELT2	BELT2	MAC2	NMPR1	BELT2
CMS1	MTC	CMS1	MTC	MTC	ISCC	ISCC	MAC3	NMPR2	CMS1
CMS2	SCC1	CMS2	SCC1	NMPR1	MTC	MAC1	MTC	RCDT1	CMS2
CMS3	SCC2	CMS3	SCC2	NMPR2	SCC1	MAC2	RCDT1	RCDT2	CMS3
CMS4	SREC1	CMS4	SREC1	SCC1	SCC2	MAC3	RCDT2	RCMOC	CMS4
CMSH1	SREC2	CMSH1	SREC2	SCC2	SREC1	MTC	RCDT3	RCREC	CMSH1
CMSH2		CMSH2	TEC1	SREC1	SREC2	NMPR1	RCMOC	RCRRT2	CMSH2
ISCC		MAC1	TEC2	SREC2		NMPR2	RCREC	SCC1	ISCC
MAC1		MAC2	TEC3			RCDT1	RCRRT1	SCC2	MTC
MAC2		MAC3	TEC4			RCDT2	RCRRT2	SREC1	NMDT1
MAC3		MTC	TEC5			RCDT3	RC1A3B	SREC2	NMDT2
MTC		RCDT1				RCMOC	SCC1	TRF1	NMDT3
NMDT1		RCDT2				RCREC	SCC2	TRF2	NMPR1
NMDT2		RCRRT2				RCRRT1	SREC1		NMPR2
NMDT3		SCC1				RCRRT2	SREC2		NSCS
NMPR1		SCC2				RC1A3B			RCDT1
NMPR2		SREC1				SCC1			RCDT2
RCDT1		SREC2				SCC2			RCDT3
RCDT2		TCA1				SREC1			RCMOC
RCDT3		TCA2				SREC2			RCREC
RCMOC		TCA3				TCA1			RCRRT1
RCREC		TCA4				TCA2			RCRRT2
RCRRT1		TCA5				TCA3			RC1A3B
RCRRT2		TCA6				TCA4			SCC1
RC1A3B		TCA7				TCA5			SSC2
SCC1		TCA8				TCA6			SREC1
SCC2		TCA9				TCA7			SREC2
SREC1		TCA10				TCA8			TCA1
SREC2		TEC1				TCA9			TCA2
TCA1		TEC2				TCA10			TCA3
TCA2		TEC3				TEC1			TCA4
TCA3		TEC4				TEC2			TCA5
TCA4		TEC5				TEC3			TCA6
TCA5						TEC4			TCA7
TCA6						TEC5			TCA8
TCA7						TOC1			TCA9
TCA8						TOC2			TCA10
TCA9						TRF1			TEC1
TCA10						TRF2			TEC2
TEC1									TEC3

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Table 2-2
Input Message Screening Classes
and Their Valid I/O Channels (Continued)

ALL	PMTC	TMTC	PUMTC	NMGT	PLTM	VER	RC	TRFM	IATRAP
TEC2									TEC4
TEC3									TEC5
TEC4									TRF1
TEC5									TRF2
TRF1									
TRF2									

Table 2-3
I/O Channel Names and Definitions

Channel Name	Definition
BELT1	Beltline maintenance channel 1
BELT2	Beltline maintenance channel 2
CMS1	Circuit maintenance system interface
CMS2	Circuit maintenance system interface
CMS3	Circuit maintenance system interface
CMS4	Circuit maintenance system interface
CMSH1	High speed CMS
CMSH2	High speed CMS
DUP1	Dial up port
DUP2	Dial up port
DUP3	Dial up port
DUP4	Dial up port
DUP5	Dial up port
DUP6	Dial up port
EADASH1	High speed EADAS
EADASH2	High speed EADAS
ISCC	International service coordination channel
MAC1	3B-1A interface for MAC/OSS
MAC2	3B-1A interface for MAC/OSS
MAC3	3B-1A interface for MAC/OSS
MTC	Switching machine maintenance
NMDT1	Network management display 1
NMDT2	Network management display 2
NMDT3	Network management display 3
NMNOC1	Network management national operations control terminal
NMPR1	Network management printer 1
NMPR2	Network management printer 2
NSCS	Network service center system

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Table 2-3
I/O Channel Names and Definitions (Continued)

Channel Name	Definition
RCDT1	Recent change display 1
RCDT2	Recent change display 2
RCDT3	Recent change display 3 (Used exclusively by AT&T ITN for testing)
RCMOC	Recent change MOC monitor
RCREC	Recent change record
RCRRT1	Recent change remote routing 1
RCRRT2	Recent change remote routing 2 (Used exclusively by AT&T ITN for testing)
RC1A3B	HDLC channel for IRAS
RMT1	Remote dial up terminal 1
SCC1	Switching control center 1
SCC2	Switching control center 2 (Used exclusively by AT&T ITN for testing)
SREC1	Secondary record 1
SREC2	Secondary record 2
SVOBS	Service observing
TCA1	Test control area 1
TEC1	Terminal equipment center 1
TEC2	Terminal equipment center 2
TEC3	Terminal equipment center 3
TEC4	Terminal equipment center 4
TEC5	Terminal equipment center 5
TCA2	Test control area 2
TCA3	Test control area 3
TCA4	Test control area 4
TCA5	Test control area 5
TCA6	Test control area 6
TCA7	Test control area 7
TCA8	Test control area 8
TCA9	Test control area 9
TCA10	Test control area 10
TRF1	Traffic measurements 1
TRF2	Traffic measurements 2
TTS1	Contingency trunk test plan
TTS2	Contingency trunk test plan
TTS3	Contingency trunk test plan
TTS4	Contingency trunk test plan
TTS5	Contingency trunk test plan
TTS6	Contingency trunk test plan

2.4.2 Descriptive Material

In general, the descriptive material following the key block data is presented under five discrete headings.

1. *Purpose* - Gives a statement of the message's purpose.
2. *Format* - Presents the message format(s). See Section 2-3 and Table 2-1 for a summary of the rules.

3. *Explanation of Message* - Defines the variables and optional entries used in the message format. It may also define keywords. It includes any additional explanatory text, notes, tables, figures, or examples needed to clarify message use.
4. *System Response* - Explains the system response to each input message. This section of the message documentation describes responses that are not self-explanatory. Responses are based on the system acknowledgements and error codes discussed in Section 2.5.1.
5. *References* - A PIDENT reference is given for each message. Additional references that may be given include related input and/or output messages, Practices, and Task Oriented Practices (TOPs) documents.

Three additional items of information are included in the message descriptions where applicable.

- *Service-Affecting Messages* - Input messages that may be service-affecting are flagged with a caution statement adjacent to the key block on the first page. An explanation of the conditions under which the message may be service-affecting is included at the end of the message description.
- *Restricted-Use Messages* - Input messages that may be entered only with the permission of Lucent Technologies Product Engineering Control Center (PECC) are flagged with a caution statement adjacent to the key block on the first page.
- *Messages Not Currently Implemented* - Messages that are part of the system software but are not currently implemented in any generic are documented and flagged with a note adjacent to the key block.

2.5 ADDITIONAL INFORMATION

To aid in message entry and interpretation, additional information on system responses, error codes, number conversion, and acronyms follows.

2.5.1 System Response

The system responds to each input message with an acknowledgment and possibly one or more output messages. Detailed information on acknowledgements for a particular message can be found under the System Response section of that message. The acknowledgement is always printed immediately. Output messages may occur following the output of other messages and data.

The format of all acknowledgements is:

aa[,{CODE xxx | t}]

where	`aa` =	Two characters indicating the status of the requested input message. Table 2.4 is a list of possible characters and their definitions.
	`xxx` =	Decimal number (001-999), which represents a specific reason for the two character status. The System Response section lists definitions of all applicable numbers. Table 2.5 lists the definition of the numbers used by the general utility program (GULP), a frequently used program.
	`t` =	Explanatory text for the two character status. (9 characters or less). The System Response section of an input message lists definitions of explanatory text.

Table 2-4
System Acknowledgements of Input Message Requests

Acknowledgment	Meaning
?A	Action field contains an error. An error is in the fist field of the message.
?C	Channel is not valid for this message. Check valid channels for the message screening class.
?D	Data field contains an error. An error is in the last field of the message (usually to the right of the second colon).
?E	Syntax error exists in the message but cannot be resolved to the proper field.
?I	Identification field contains an error. An error is in the second field of the message (to the right of the first colon).
?R	Insufficient system resources are available to determine the validity of the message.
?T	Time-out has occurred on the channel. Input has not been received in the allotted time, and processing of the message has been aborted.
IP	In Progress. Request received and initiated. Further output will follow.
NA	No Acknowledgment. Normally, the system acknowledges an input request within 5 to 10 seconds. If control of the message processing has been lost, NA is output to indicate an acknowledgment failure.
NG	No Good. Message syntax is valid, but request conflicts with current system or equipment status; for example, an attempt was made to restore an in-service unit.
OK	Request accepted and completed.
PF	Printout Follows. An output message will follow.
RL	Retry Later. Request cannot be executed now due to unavailable system resources; for example, action was requested for a unit that is being diagnosed.

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Table 2-5
GULP Response Codes

Response Code Number	Reason for Output/Action to be Taken
000	Success response, or no error code available.
001	No argument for keyword LINE. Reenter message.
002	No argument for keyword UTILDS. Reenter message.
003	Value of argument for keyword WAIT is too big. Current maximum is O'3777 (D'2047) seconds. Reenter message.
004	Unused.
005	Unused.
006	Data set created has no lines, i.e., data set is null. The name has not been cataloged.
007	Internal error. Size of data block is larger than size of buffer. Indicates software bug or program mutilation. Run SAWS in hash/match mode. If error free, run SAST using latest generic tape.
008	No more room for insertions. Enter the message **STOP:UPD;UTILDS** to terminate the ADD mode. Renumber the data set using **UPD:UTILDS**. If additional lines are to be added, locate point of insert using **OP:UTILDS** and continue.
009	No data set execution mode is active.
010	No data set input mode is in progress.
011	Partitioned print (**OP:UTILDS**) request denied. Retry.
012	Data set name is not in data set reference table. Use **OP:UTLDSTAB** to see names of data sets currently cataloged.
013	No data set WAIT mode is active.
014	Store specified to be frozen is not duplicated. Reenter message with MCODE of duplicated store (can be verified on MCC store status display).
015	Data set WAIT mode timeout. Data set execution mode is terminated.
016	Message is too long for inclusion in a data set. The maximum number of characters allowed is 93, including rubout and delete characters.

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Table 2-5
GULP Response Codes (Continued)

Response Code Number	Reason for Output/Action to be Taken
017	Internal errors are detected in data set reference table.
018	Internal error. Parser is busy during data set execution. Indicates software bug or program mutilation. Run SAWS in match/hash mode. If error free, run SAST using latest generic tape.
019	Specified line number was not found in given data set. Use **OP:UTILDS** to view line numbers. Recheck message and reenter.
020	File system request queue is full. Reenter message.
021	Data set reference table is full (five entries). Use **OP:UTLDSTAB** to see names of data sets currently cataloged. To enter current data set, one must be cleared.
022	Loop table is full (three entries). One of current loops must be cleared using either **CLR:UTIL** (which clears all utility functions) or **CLR:UTILFLG**.
023	Internal error. Break required during processor execution. Reenter request.
024	File system save area for data sets is full. Current data set input mode has been terminated. One or more data sets must be cleared. Data set area may be saved by copying data set area to tape. Use address of UTIUTLDSETS, for start address, size of UTIUTLDSETS for length.
025	Utility work table is full. This indicates that the table which stores data for all utility flags can accept no more entries. Reenter message. If overflow occurs again (after repack), clear all unnecessary flags using **CLR:UTILFLG**. **CLR:UTIL** will clear all system entries.
026	Central control (CC) matchers are busy. No more utility flags using CC matcher can be accepted. Flags using execution flag (UEX) may be input.
027	Data set is in progress on a processor maintenance channel. Wait until function is complete, then reenter message.
028	Unused.
029	A utility **EXC** instruction is on a relative address that is not allowed. Choose another address and re-enter the message.
030	Unused.

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Table 2-5
GULP Response Codes (Continued)

Response Code Number	Reason for Output/Action to be Taken
031	UMEM number is invalid. Reenter message with UMEM 0, 1, 2, 3, 4, 5, 6, or 7 specified.
032	No good. It is invalid to clear matchers on G-Level execution because too much time is required.
033	Data set name is already in data set reference table. Choose a new name and reenter; or enter **CLR:UTILDS** to erase current version and reenter **IN:UTILDS** message unchanged.
034	Execution flag (UEX) has been requested for an address which is not resident generic code. Check address for missing or transposed digits and reenter.
035	Length exceeds maximum allowed. Reenter message after checking maximum allowed.
036	Message involving 1B file or tape follows a WHEN message. File store and tape operations require too much time to be performed on G-level interrupt.
037	Match mode options are not the same for the two CC matchers. If one utility flag using matchers is triggering on reads (option R), the second cannot be used to trigger on writes or both (options W or RW). Either clear the first and reenter the second or delay the second until the first has collected desired data.
038	INDIR number exceeds maximum (current maximum is 7). Reenter message with INDIR specified as 7 or less. XSINDIR maximum is 2.
039	Address of utility flag already has a utility flag placed on it. To enter current message (to change functions associated with the flag, for example), enter **CLR:UTILFLG** and reenter.
040	Table initialization error. This code indicates either a software bug or program mutilation. Run writable store audit (44). If error free, run tape audit (SAST) using most recent generic tape to see if error is detected.
041	Unused.
042	Attempt has been made to write to active system CC registers. It is permitted to write CC register in an 1B file configuration only.
043	Address increment exceeds maximum allowed. Reenter message with INC specified as ±O’17777 or less.

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Table 2-5
GULP Response Codes (Continued)

Response Code Number	Reason for Output/Action to be Taken
044	Mask specified by SIZE and DISP is invalid. SIZE plus DISP must be equal to or less than 32 (decimal) to result in contiguous mask.
045	Too much time is required to execute this function on G-level interrupt. A time estimate is made to verify that any single flag will require less than 1.5 ms using the following estimates (decimal) for number of cycles used on G-level:

COPY	350	(indirectness, length additional)
DUMP	425	(indirectness, length additional)
LOAD	225	(indirectness, length additional)
IF	150	(indirectness additional)
CLR:UTILFLG	200	
CLR:UTIL	500	
INH:UTIL	50	
ALW:UTILMSG	40	
INH:UTILMSG	40	
RMV	500	
All Peripheral	750	
G-Level Overhead	185	
Each Level of Indirectness	8	
Each Word (length)	8	

The maximum number of cycles allowed for any single flag is 2010.

The number of words or number of functions must be reduced. Reenter all messages associated with the flag.

046 MCC option used incorrectly. MCC option may be used only if DUMP is included as part of a WHEN statement.

047 Retry Later. Exceeded maximum utility executes placed on long or short instructions.

048 Unused.

049 Tape file name contains too many characters. Choose a file name of 17 characters or less (first must be a letter).

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Table 2-5
GULP Response Codes (Continued)

Response Code Number	Reason for Output/Action to be Taken
050	Conditional printout may follow. The 1B file are duplex failed. GULP is being paged from tape to parse the input message, and the parsing process may require several passes through the tape. If the input message is syntactically and logically correct, GULP will process the request and print the result. Incorrect messages will not be further acknowledged.
051	Unused.
052	Unused.
053	Unused.
054	Unused.
055	Unused.
056	Unused.
057	MACP class (GUTL) canceled by request.
058	MUPs duplex failed or Utility disabled (Poke 610).
059	Unused.
060	Unused.
061	Secure tape request rejected. Enter **CLR:ADSFUNC** and reenter **SET:TUC**, **ALW:TUC**, and **COPY** messages.
062	Secure tape request failed. Enter **CLR:ADSFUNC** and reenter **SET:TUC**, **ALW:TUC**, and **COPY** messages.
063	Write file header request rejected. Enter **CLR:ADSFUNC** and reenter **SET:TUC**, **ALW:TUC**, and **COPY** messages.
064	End of tape marker passed. An incomplete file has been written. Amount of unused tape is insufficient for amount of data to be written. A new tape must be mounted and message reentered.
065	Write file header request failed. Enter **CLR:ADSFUNC** and reenter **SET:TUC**, **ALW:TUC**, and **COPY** messages.

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Table 2-5
GULP Response Codes (Continued)

Response Code Number	Reason for Output/Action to be Taken
066	Write request rejected. An incomplete file has been written.
067	Write request failed. An incomplete file has been written.
068	Write end of file request rejected. An incomplete file has been written.
069	Write end of file request failed. An incomplete file has been written.
070	Locate file read header request rejected. Enter **CLR:ADSFUNC** and reenter **SET:TUC**, **ALW:TUC**, and **GULP** messages.
071	Locate file and read header request failed. Reenter message. If repeated failure, diagnose TUC. Retry on another TUC.
072	Forward space request failed. Reenter message. If repeated failure, diagnose TUC. Retry on another TUC.
073	Read request rejected. Enter **CLR:ADSFUNC** and reenter **SET:TUC**, **ALW:TUC**, and **GULP** messages.
074	Read request failed. Reenter message and watch tape. If tape oscillates, the tape has a bad area and cannot be read. Switch tape to another TUC and retry.
075	End of file mark detected. End of data in current file has been reached.
076	Read termination request rejected. Enter **CLR:ADSFUNC** to release TUC. All data have been read.
077	Read termination request failed. Enter **CLR:ADSFUNC** to release TUC. All data have been read.
078	Forward space request rejected. Reenter message.
079	Designated file name not located on tape.
080	File system read request rejected. Indicates software bug or program mutilation. Run SAWS or SAST with generic tape.
081	File system read queue full. Reenter message.

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Table 2-5
GULP Response Codes (Continued)

Response Code Number	Reason for Output/Action to be Taken
082	File system write request rejected. Indicates software bug or program mutilation. Run SAWS or SAST with generic tape.
083	File system write queue full. Reenter message.
084	Designated file name is already on tape. Either change ADD option to OW (destroys all data after file) or select a new file name.
085	Illegal source/destination on COPY. Recheck message prototypes.
086	Data table mutilation. COPY work table contains inconsistent data.
087	Rewind request rejected. Enter **CLR:ADSFUNC** and reenter **SET:TUC**, **ALW:TUC**, and **COPY** messages.
088	Rewind request failed. Enter **CLR:ADSFUNC** and reenter **SET:TUC**, **ALW:TUC**, and **COPY** messages.
089	Unused.
090	Requested action complete.
091	Conditional printout follows. If the function is immediate and not part of a data set, printout will follow. If part of a data set, printout will follow when data set is executed. If function is part of a WHEN state, printout will follow if flag is activated and flag is encountered.
092	Line has been placed in data set.
093	Data set name successfully cataloged.
094	Activation of utility flags is temporarily inhibited. Indicates that tape writing program is active. Wait until tape is completed, then reenter message.
095	Data set execute wait mode is in progress.
096	Data set execute wait mode has been terminated.
097	Unused.

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Table 2-5
GULP Response Codes (Continued)

Response Code Number	Reason for Output/Action to be Taken
098	Data set line input mode in progress. Awaiting line.
099	Data set lines have been renumbered.
100	Invalid syntax. Check input message to verify that no extra keywords have been input.
101	No argument found for ID keyword. Enter corrected message.
102	No argument found for PKG keyword. Enter corrected message.
103	No argument found for FPKG keyword. Enter corrected message.
104	No argument found for ADR keyword. Enter corrected message.
105	No argument found for DATA keyword. Enter corrected message.
106	Number of arguments of OLDDATA is different from number of arguments of DATA. Enter corrected message.
107	Unused.
108	No argument found for HASHSUM keyword. Enter corrected message.
109	Unused.
110	Overwrites of system merge ID tag cannot be mixed with overwrites of other ID tags. MERGE overwrites must be entered separately.
111	Overwrite overlaps two ID tags. Recheck address and range and reenter.
112	Wrong ID tag specified for a library file system only overwrite. Check ID tag mnemonic or address range to be overwritten.
113	Unused.
114	Invalid ID tag mnemonic. Mnemonic does not match a valid ID tag which may be overwritten. Check message and reenter.
115	Incorrect ID tag specified for a file system only overwrite. Check address to be sure it falls in specified ID tag and ID mnemonic.

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Table 2-5
GULP Response Codes (Continued)

Response Code Number	Reason for Output/Action to be Taken
116	MCODE less than 1770.
117	Unused.
118	Unused.
119	Keyword INDIR is invalid for accessing extended store.
120	Part of non-library main memory overwrite is not backed up on file system. Check address to be overwritten and reenter.
121	File system backup range is not contiguous. Overwrite must be split on main memory store boundary. Reenter two messages.
122	PKG, ADR conversion failed. This is due to either invalid or unknown PKG name, relative address larger than size of PKG, or library package not loaded. Make corrections and reenter message.
123	FPKG, ADR conversion failed. Invalid FPKG name.
124	Library overwrite outside of package range. Make corrections and reenter message.
125	ID tag input and offset are invalid for the memory accessed. (As it pertains to the XSINDIR and ID tag options.)
126	No good. A generic utility flag does not exist at the input address.
127	Input address is invalid for address type specified, or address is not defined.
128	It is invalid to COPY/LOAD to BUFFER BUS, BOOTROM, or IFB memory.
129	Attempt to access an extended store (XS) window address at G-LEVEL interrupt, but window was not enabled.
130	SAWS lockout. Another MERGE changing client (tape writing program RC, tape audit, etc.) is in progress. Wait for program to finish, then reenter message.
131	Overwrite in progress from another channel. Wait for procedure to complete, then reenter message.

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Table 2-5
GULP Response Codes (Continued)

Response Code Number	Reason for Output/Action to be Taken
132	Previously input COPY:OWBUF request has not yet completed. Enter **STOP:OVRWRT**.
133	Hash mismatch on COPY:OWBUF. Enter **STOP:OVRWRT**.
134	Previously input UPD:HDATA request has not yet completed. Enter **STOP:OVRWRT**.
135	No overwrite in progress.
136	UPD:HDATA may be input only from the maintenance channel (or its backup if the maintenance channel is out of service) or the SCC channel. Before entering message, check for audit printouts or interrupts to assure overwrite is correct.
137	A **COPY:OWBUF** message must be input.
138	Core only overwrite backed out. Need **STOP:OVRWRT** message.
139	**COPY:OWBUF** entered without hashsum.
140	Overwrite buffer full. Either clear buffer (using **STOP:OVRWRT**) or do the update.
141	Library program not loaded in library KCODE. Load library program and reenter message.
142	Unused.
143	Input overwrite overlaps with overwrite currently in buffer. Check address and number of words in data list and reenter.
144	Old data specified in message does not match data in system. Recheck address and old data. Note that system data in overwrite buffer has been read from corresponding file system backup address.
145	Library system in transition state. Wait a few seconds and reenter the message.
146	Interrupt occurred while dumping memory.
147	Unused.
148	Unused.
149	Unused.

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Table 2-5
GULP Response Codes (Continued)

Response Code Number	Reason for Output/Action to be Taken
150	Library program is not currently loaded in library KCODE. The overwrite has been bypassed.
151	Unused.
152	Hashsum input on `COPY:OWBUF` does not match computed hash. This indicates that some data is different in the buffer than what was expected when input hash was generated. Enter **`STOP:OVRWRT`** and check printout.
153	Hash update by SAWS failed. Enter **`STOP:OVRWRT`**. Tape audit (SAST) must be run to correct hash errors.
154	Input failure from SAWS hash update.
155	Unused.
156	Unused.
157	Unused.
158	Unused.
159	Unused.
160	File system queue full.
161	1B file system reject. Core address is out of range. This may indicate mutilation. Run SAWS or SAST.
162	1B file system reject. File system address mismatches ID tag. Runs SAWS or SAST.
163	1B file system reject. Write request not multiple of 32 or not on sector boundary. Run SAWS or SAST.
164	1B file system reject. Size too big. Run SAWS or SAST.
165	1B file system reject. Run SAWS or SAST.
166	1B file system reject. Blocked. Run SAWS or SAST.

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Table 2-5
GULP Response Codes (Continued)

Response Code Number	Reason for Output/Action to be Taken
167	1B file system reject. Write (trouble) to in-service file. Run SAWS or SAST.
168	1B file system reject. Queue invalid for GULP. Run SAWS or SAST.
169	1B file system reject. Mutilated queue. Reenter. If repeated, run SAWS or SAST.
170	1B file system reject. No queue specified. Run SAWS or SAST.
171	Unused.
172	Unused.
173	Unused.
174	Unused.
175	Unused.
176	Unused.
177	Unused.
178	Unused.
179	Unused.
180	GULP function execution is in progress. Wait until it completes (usually a tape function), then reenter message.
181	Message processing in progress. Wait until it completes (may be a flag waiting for additional input), then reenter message.
182	Data set input mode in progress on another channel. Wait until it completes, then reenter message.
183	Data set execution mode in progress. Wait until it completes, then reenter message.
184	Unused.
185	General buffer table (GBT) not available to save input message for GULP or GULP cannot be paged from 1B file.

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Table 2-5
GULP Response Codes (Continued)

Response Code Number	Reason for Output/Action to be Taken
186	Most data set control messages cannot be performed while data set execution is in progress.
187	Unused.
188	Address specified is not equipped.

2.5.2 Binary-Octal-Decimal Conversions

Both input and output messages use values in decimal (base 10), octal (base 8), and binary (base 2). To convert binary to octal, the following procedure may be used:

- Separate the binary number into groups of three, starting with the rightmost number.
- Convert each group of three into its octal equivalent. (See Table 2-6).
- For example:

001000011110	Binary number
001 000 011 110	Binary number in groups of three
1 0 3 6	Octal equivalent

- To convert an octal number to binary, simply perform the preceding procedure in reverse order.

Table 2-6
Binary-Octal Conversion

Binary	Octal
000	0
001	1
010	2
011	3
100	4
101	5
110	6
111	7

To convert a number from octal to decimal or vice-versa, refer to the matrix in Table 2-7. The top row contains octal numbers in the 8^0 position, and the far left column contains octal numbers from the 8^1 to 8^3 positions (read from right to left). To find a decimal equivalent, locate where the octal numbers intersect on the matrix. For example, octal *146* equals *102* in decimal:

146
(*1* x 8) + *4* = 12
(12 x 8) + *6* = 102

Table 2-7
Octal-Decimal Conversion

OCTAL	0	1	2	3	4	5	6	7
000	0000	0001	0002	0003	0004	0005	0006	0007
001	0008	0009	0010	0011	0012	0013	0014	0015
002	0016	0017	0018	0019	0020	0021	0022	0023
003	0024	0025	0026	0027	0028	0029	0030	0031
004	0032	0033	0034	0035	0036	0037	0038	0039
005	0040	0041	0042	0043	0044	0045	0046	0047
006	0048	0049	0050	0051	0052	0053	0054	0055
007	0056	0057	0058	0059	0060	0061	0062	0063
010	0064	0065	0066	0067	0068	0069	0070	0071
011	0072	0073	0074	0075	0076	0077	0078	0079
012	0080	0081	0082	0083	0084	0085	0086	0087
013	0088	0089	0090	0091	0092	0093	0094	0095
014	0096	0097	0098	0099	0100	0101	0102	0103
015	0104	0105	0106	0107	0108	0109	0110	0111
016	0112	0113	0114	0115	0116	0117	0118	0119
017	0120	0121	0122	0123	0124	0125	0126	0127
020	0128	0129	0130	0131	0132	0133	0134	0135
021	0136	0137	0138	0139	0140	0141	0142	0143
022	0144	0145	0146	0147	0148	0149	0150	0151
023	0152	0153	0154	0155	0156	0157	0158	0159
024	0160	0161	0162	0163	0164	0165	0166	0167
025	0168	0169	0170	0171	0172	0173	0174	0175
026	0176	0177	0178	0179	0180	0181	0182	0183
027	0184	0185	0186	0187	0188	0189	0190	0191
030	0192	0193	0194	0195	0196	0197	0198	0199
031	0200	0201	0202	0203	0204	0205	0206	0207
032	0208	0209	0210	0211	0212	0213	0214	0215
033	0216	0217	0218	0219	0220	0221	0222	0223
034	0224	0225	0226	0227	0228	0229	0230	0231
035	0232	0233	0234	0235	0236	0237	0238	0239
036	0240	0241	0242	0243	0244	0245	0246	0247
037	0248	0249	0250	0251	0252	0253	0254	0255

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Table 2-7
Octal-Decimal Conversion (Continued)

OCTAL	0	1	2	3	4	5	6	7
040	0256	0257	0258	0259	0260	0261	0262	0263
041	0264	0265	0266	0267	0268	0269	0270	0271
042	0272	0273	0274	0275	0276	0277	0278	0279
043	0280	0281	0282	0283	0284	0285	0286	0287
044	0288	0289	0290	0291	0292	0293	0294	0295
045	0296	0297	0298	0299	0300	0301	0302	0303
046	0304	0305	0306	0307	0308	0309	0310	0311
047	0312	0313	0314	0315	0316	0317	0318	0319
050	0320	0321	0322	0323	0324	0325	0326	0327
051	0328	0329	0330	0331	0332	0333	0334	0335
052	0336	0337	0338	0339	0340	0341	0342	0343
053	0344	0345	0346	0347	0348	0349	0350	0351
054	0352	0353	0354	0355	0356	0357	0358	0359
055	0360	0361	0362	0363	0364	0365	0366	0367
056	0368	0369	0370	0371	0372	0373	0374	0375
057	0376	0377	0378	0379	0380	0381	0382	0383
060	0384	0385	0386	0387	0388	0389	0390	0391
061	0392	0393	0394	0395	0396	0397	0398	0399
062	0400	0401	0402	0403	0404	0405	0406	0407
063	0408	0409	0410	0411	0412	0413	0414	0415
064	0416	0417	0418	0419	0420	0421	0422	0423
065	0424	0425	0426	0427	0428	0429	0430	0431
066	0432	0433	0434	0435	0436	0437	0438	0439
067	0440	0441	0442	0443	0444	0445	0446	0447
070	0448	0449	0450	0451	0452	0453	0454	0455
071	0456	0457	0458	0459	0460	0461	0462	0463
072	0464	0465	0466	0467	0468	0469	0470	0471
073	0472	0473	0474	0475	0476	0477	0478	0479
074	0480	0481	0482	0483	0484	0485	0486	0487
075	0488	0489	0490	0491	0492	0493	0494	0495
076	0496	0497	0498	0499	0500	0501	0502	0503
077	0504	0505	0506	0507	0508	0509	0510	0511

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Table 2-7
Octal-Decimal Conversion (Continued)

OCTAL	0	1	2	3	4	5	6	7
100	0512	0513	0514	0515	0516	0517	0518	0519
101	0520	0521	0522	0523	0524	0525	0526	0527
102	0528	0529	0530	0531	0532	0533	0534	0535
103	0536	0537	0538	0539	0540	0541	0542	0543
104	0544	0545	0546	0547	0548	0549	0550	0551
105	0552	0553	0554	0555	0556	0557	0558	0559
106	0560	0561	0562	0563	0564	0565	0566	0567
107	0568	0569	0570	0571	0572	0573	0574	0575
110	0576	0577	0578	0579	0580	0581	0582	0583
111	0584	0585	0586	0587	0588	0589	0590	0591
112	0592	0593	0594	0595	0596	0597	0598	0599
113	0600	0601	0602	0603	0604	0605	0606	0607
114	0608	0609	0610	0611	0612	0613	0614	0615
115	0616	0617	0618	0619	0620	0621	0622	0623
116	0624	0625	0626	0627	0628	0629	0630	0631
117	0632	0633	0634	0635	0636	0637	0638	0639
120	0640	0641	0642	0643	0644	0645	0646	0647
121	0648	0649	0650	0651	0652	0653	0654	0655
122	0656	0657	0658	0659	0660	0661	0662	0663
123	0664	0665	0666	0667	0668	0669	0670	0671
124	0672	0673	0674	0675	0676	0677	0678	0679
125	0680	0681	0682	0683	0684	0685	0686	0687
126	0688	0689	0690	0691	0692	0693	0694	0695
127	0696	0697	0698	0699	0700	0701	0702	0703
130	0704	0705	0706	0707	0708	0709	0710	0711
131	0712	0713	0714	0715	0716	0717	0718	0719
132	0720	0721	0722	0723	0724	0725	0726	0727
133	0728	0729	0730	0731	0732	0733	0734	0735
134	0736	0737	0738	0739	0740	0741	0742	0743
135	0744	0745	0746	0747	0748	0749	0750	0751
136	0752	0753	0754	0755	0756	0757	0758	0759
137	0760	0761	0762	0763	0764	0765	0766	0767

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Table 2-7
Octal-Decimal Conversion (Continued)

OCTAL	0	1	2	3	4	5	6	7
140	0768	0769	0770	0771	0772	0773	0774	0775
141	0776	0777	0778	0779	0780	0781	0782	0783
142	0784	0785	0786	0787	0788	0789	0790	0791
143	0792	0793	0794	0795	0796	0797	0798	0799
144	0800	0801	0802	0803	0804	0805	0806	0807
145	0808	0809	0810	0811	0812	0813	0814	0815
146	0816	0817	0818	0819	0820	0821	0822	0823
147	0824	0825	0826	0827	0828	0829	0830	0831
150	0832	0833	0834	0835	0836	0837	0838	0839
151	0840	0841	0842	0843	0844	0845	0846	0847
152	0848	0849	0850	0851	0852	0853	0854	0855
153	0856	0857	0858	0859	0860	0861	0862	0863
154	0864	0865	0866	0867	0868	0869	0870	0871
155	0872	0873	0874	0875	0876	0877	0878	0879
156	0880	0881	0882	0883	0884	0885	0886	0887
157	0888	0889	0890	0891	0892	0893	0894	0895
160	0896	0897	0898	0899	0900	0901	0902	0903
161	0904	0905	0906	0907	0908	0909	0910	0911
162	0912	0913	0914	0915	0916	0917	0918	0919
163	0920	0921	0922	0923	0924	0925	0926	0927
164	0928	0929	0930	0931	0932	0933	0934	0935
165	0936	0937	0938	0939	0940	0941	0942	0943
166	0944	0945	0946	0947	0948	0949	0950	0951
167	0952	0953	0954	0955	0956	0957	0958	0959
170	0960	0961	0962	0963	0964	0965	0966	0967
171	0968	0969	0970	0971	0972	0973	0974	0975
172	0976	0977	0978	0979	0980	0981	0982	0983
173	0984	0985	0986	0987	0988	0989	0990	0991
174	0992	0993	0994	0995	0996	0997	0998	0999
175	1000	1001	1002	1003	1004	1005	1006	1007
176	1008	1009	1010	1011	1012	1013	1014	1015
177	1016	1017	1018	1019	1020	1021	1022	1023

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Table 2-7
Octal-Decimal Conversion (Continued)

OCTAL	0	1	2	3	4	5	6	7
200	1024	1025	1026	1027	1028	1029	1030	1031
201	1032	1033	1034	1035	1036	1037	1038	1039
202	1040	1041	1042	1043	1044	1045	1046	1047
203	1048	1049	1050	1051	1052	1053	1054	1055
204	1056	1057	1058	1059	1060	1061	1062	1063
205	1064	1065	1066	1067	1068	1069	1070	1071
206	1072	1073	1074	1075	1076	1077	1078	1079
207	1080	1081	1082	1083	1084	1085	1086	1087
210	1088	1089	1090	1091	1092	1093	1094	1095
211	1096	1097	1098	1099	1100	1101	1102	1103
212	1104	1105	1106	1107	1108	1109	1110	1111
213	1112	1113	1114	1115	1116	1117	1118	1119
214	1120	1121	1122	1123	1124	1125	1126	1127
215	1128	1129	1130	1131	1132	1133	1134	1135
216	1136	1137	1138	1139	1140	1141	1142	1143
217	1144	1145	1146	1147	1148	1149	1150	1151
220	1152	1153	1154	1155	1156	1157	1158	1159
221	1160	1161	1162	1163	1164	1165	1166	1167
222	1168	1169	1170	1171	1172	1173	1174	1175
223	1176	1177	1178	1179	1180	1181	1182	1183
224	1184	1185	1186	1187	1188	1189	1190	1191
225	1192	1193	1194	1195	1196	1197	1198	1199
226	1200	1201	1202	1203	1204	1205	1206	1207
227	1208	1209	1210	1211	1212	1213	1214	1215
230	1216	1217	1218	1219	1220	1221	1222	1223
231	1224	1225	1226	1227	1228	1229	1230	1231
232	1232	1233	1234	1235	1236	1237	1238	1239
233	1240	1241	1242	1243	1244	1245	1246	1247
234	1248	1249	1250	1251	1252	1253	1254	1255
235	1256	1257	1258	1259	1260	1261	1262	1263
236	1264	1265	1266	1267	1268	1269	1270	1271
237	1272	1273	1274	1275	1276	1277	1278	1279

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Table 2-7
Octal-Decimal Conversion (Continued)

OCTAL	0	1	2	3	4	5	6	7
240	1280	1281	1282	1283	1284	1285	1286	1287
241	1288	1289	1290	1291	1292	1293	1294	1295
242	1296	1297	1298	1299	1300	1301	1302	1303
243	1304	1305	1306	1307	1308	1309	1310	1311
244	1312	1313	1314	1315	1316	1317	1318	1319
245	1320	1321	1322	1323	1324	1325	1326	1327
246	1328	1329	1330	1331	1332	1333	1334	1335
247	1336	1337	1338	1339	1340	1341	1342	1343
250	1344	1345	1346	1347	1348	1349	1350	1351
251	1352	1353	1354	1355	1356	1357	1358	1359
252	1360	1361	1362	1363	1364	1365	1366	1367
253	1368	1369	1370	1371	1372	1373	1374	1375
254	1376	1377	1378	1379	1380	1381	1382	1383
255	1384	1385	1386	1387	1388	1389	1390	1391
256	1392	1393	1394	1395	1396	1397	1398	1399
257	1400	1401	1402	1403	1404	1405	1406	1407
260	1408	1409	1410	1411	1412	1413	1414	1415
261	1416	1417	1418	1419	1420	1421	1422	1423
262	1424	1425	1426	1427	1428	1429	1430	1431
263	1432	1433	1434	1435	1436	1437	1438	1439
264	1440	1441	1442	1443	1444	1445	1446	1447
265	1448	1449	1450	1451	1452	1453	1454	1455
266	1456	1457	1458	1459	1460	1461	1462	1463
267	1464	1465	1466	1467	1468	1469	1470	1471
270	1472	1473	1474	1475	1476	1477	1478	1479
271	1480	1481	1482	1483	1484	1485	1486	1487
272	1488	1489	1490	1491	1492	1493	1494	1495
273	1496	1497	1498	1499	1500	1501	1502	1503
274	1504	1505	1506	1507	1508	1509	1510	1511
275	1512	1513	1514	1515	1516	1517	1518	1519
276	1520	1521	1522	1523	1524	1525	1526	1527
277	1528	1529	1530	1531	1532	1533	1534	1535

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Table 2-7
Octal-Decimal Conversion (Continued)

OCTAL	0	1	2	3	4	5	6	7
300	1536	1537	1538	1539	1540	1541	1542	1543
301	1544	1545	1546	1547	1548	1549	1550	1551
302	1552	1553	1554	1555	1556	1557	1558	1559
303	1560	1561	1562	1563	1564	1565	1566	1567
304	1568	1569	1570	1571	1572	1573	1574	1575
305	1576	1577	1578	1579	1580	1581	1582	1583
306	1584	1585	1586	1587	1588	1589	1590	1591
307	1592	1593	1594	1595	1596	1597	1598	1599
310	1600	1601	1602	1603	1604	1605	1606	1607
311	1608	1609	1610	1611	1612	1613	1614	1615
312	1616	1617	1618	1619	1620	1621	1622	1623
313	1624	1625	1626	1627	1628	1629	1630	1631
314	1632	1633	1634	1635	1636	1637	1638	1639
315	1640	1641	1642	1643	1644	1645	1646	1647
316	1648	1649	1650	1651	1652	1653	1654	1655
317	1656	1657	1658	1659	1660	1661	1662	1663
320	1664	1665	1666	1667	1668	1669	1670	1671
321	1672	1673	1674	1675	1676	1677	1678	1679
322	1680	1681	1682	1683	1684	1685	1686	1687
323	1688	1689	1690	1691	1692	1693	1694	1695
324	1696	1697	1698	1699	1700	1701	1702	1703
325	1704	1705	1706	1707	1708	1709	1710	1711
326	1712	1713	1714	1715	1716	1717	1718	1719
327	1720	1721	1722	1723	1724	1725	1726	1727
330	1728	1729	1730	1731	1732	1733	1734	1735
331	1736	1737	1738	1739	1740	1741	1742	1743
332	1744	1745	1746	1747	1748	1749	1750	1751
333	1752	1753	1754	1755	1756	1757	1758	1759
334	1760	1761	1762	1763	1764	1765	1766	1767
335	1768	1769	1770	1771	1772	1773	1774	1775
336	1776	1777	1778	1779	1780	1781	1782	1783
337	1784	1785	1786	1787	1788	1789	1790	1791

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Table 2-7
Octal-Decimal Conversion (Continued)

OCTAL	0	1	2	3	4	5	6	7
340	1792	1793	1794	1795	1796	1797	1798	1799
341	1800	1801	1802	1803	1804	1805	1806	1807
342	1808	1809	1810	1811	1812	1813	1814	1815
343	1816	1817	1818	1819	1820	1821	1822	1823
344	1824	1825	1826	1827	1828	1829	1830	1831
345	1832	1833	1834	1835	1836	1837	1838	1839
346	1840	1841	1842	1843	1844	1845	1846	1847
347	1848	1849	1850	1851	1852	1853	1854	1855
350	1856	1857	1858	1859	1860	1861	1862	1863
351	1864	1865	1866	1867	1868	1869	1870	1871
352	1872	1873	1874	1875	1876	1877	1878	1879
353	1880	1881	1882	1883	1884	1885	1886	1887
354	1888	1889	1890	1891	1892	1893	1894	1895
355	1896	1897	1898	1899	1900	1901	1902	1903
356	1904	1905	1906	1907	1908	1909	1910	1911
357	1912	1913	1914	1915	1916	1917	1918	1919
360	1920	1921	1922	1923	1924	1925	1926	1927
361	1928	1929	1930	1931	1932	1933	1934	1935
362	1936	1937	1938	1939	1940	1941	1942	1943
363	1944	1945	1946	1947	1948	1949	1950	1951
364	1952	1953	1954	1955	1956	1957	1958	1959
365	1960	1961	1962	1963	1964	1965	1966	1967
366	1968	1969	1970	1971	1972	1973	1974	1975
367	1976	1977	1978	1979	1980	1981	1982	1983
370	1984	1985	1986	1987	1988	1989	1990	1991
371	1992	1993	1994	1995	1996	1997	1998	1999
372	2000	2001	2002	2003	2004	2005	2006	2007
373	2008	2009	2010	2011	2012	2013	2014	2015
374	2016	2017	2018	2019	2020	2021	2022	2023
375	2024	2025	2026	2027	2028	2029	2030	2031
376	2032	2033	2034	2035	2036	2037	2038	2039
377	2040	2041	2042	2043	2044	2045	2046	2047

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Table 2-7
Octal-Decimal Conversion (Continued)

OCTAL	0	1	2	3	4	5	6	7
400	2048	2049	2050	2051	2052	2053	2054	2055
401	2056	2057	2058	2059	2060	2061	2062	2063
402	2064	2065	2066	2067	2068	2069	2070	2071
403	2072	2073	2074	2075	2076	2077	2078	2079
404	2080	2081	2082	2083	2084	2085	2086	2087
405	2088	2089	2090	2091	2092	2093	2094	2095
406	2096	2097	2098	2099	2100	2101	2102	2103
407	2104	2105	2106	2107	2108	2109	2110	2111
410	2112	2113	2114	2115	2116	2117	2118	2119
411	2120	2121	2122	2123	2124	2125	2126	2127
412	2128	2129	2130	2131	2132	2133	2134	2135
413	2136	2137	2138	2139	2140	2141	2142	2143
414	2144	2145	2146	2147	2148	2149	2150	2151
415	2152	2153	2154	2155	2156	2157	2158	2159
416	2160	2161	2162	2163	2164	2165	2166	2167
417	2168	2169	2170	2171	2172	2173	2174	2175
420	2176	2177	2178	2179	2180	2181	2182	2183
421	2184	2185	2186	2187	2188	2189	2190	2191
422	2192	2193	2194	2195	2196	2197	2198	2199
423	2200	2201	2202	2203	2204	2205	2206	2207
424	2208	2209	2210	2211	2212	2213	2214	2215
425	2216	2217	2218	2219	2220	2221	2222	2223
426	2224	2225	2226	2227	2228	2229	2230	2231
427	2232	2233	2234	2235	2236	2237	2238	2239
430	2240	2241	2242	2243	2244	2245	2246	2247
431	2248	2249	2250	2251	2252	2253	2254	2255
432	2256	2257	2258	2259	2260	2261	2262	2263
433	2264	2265	2266	2267	2268	2269	2270	2271
434	2272	2273	2274	2275	2276	2277	2278	2279
435	2280	2281	2282	2283	2284	2285	2286	2287
436	2288	2289	2290	2291	2292	2293	2294	2295
437	2296	2297	2298	2299	2300	2301	2302	2303

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Table 2-7
Octal-Decimal Conversion (Continued)

OCTAL	0	1	2	3	4	5	6	7
440	2304	2305	2306	2307	2308	2309	2310	2311
441	2312	2313	2314	2315	2316	2317	2318	2319
442	2320	2321	2322	2323	2324	2325	2326	2327
443	2328	2329	2330	2331	2332	2333	2334	2335
444	2336	2337	2338	2339	2340	2341	2342	2343
445	2344	2345	2346	2347	2348	2349	2350	2351
446	2352	2353	2354	2355	2356	2357	2358	2359
447	2360	2361	2362	2363	2364	2365	2366	2367
450	2368	2369	2370	2371	2372	2373	2374	2375
451	2376	2377	2378	2379	2380	2381	2382	2383
452	2384	2385	2386	2387	2388	2389	2390	2391
453	2392	2393	2394	2395	2396	2397	2398	2399
454	2400	2401	2402	2403	2404	2405	2406	2407
455	2408	2409	2410	2411	2412	2413	2414	2415
456	2416	2417	2418	2419	2420	2421	2422	2423
457	2424	2425	2426	2427	2428	2429	2430	2431
460	2432	2433	2434	2435	2436	2437	2438	2439
461	2440	2441	2442	2443	2444	2445	2446	2447
462	2448	2449	2450	2451	2452	2453	2454	2455
463	2456	2457	2458	2459	2460	2461	2462	2463
464	2464	2465	2466	2467	2468	2469	2470	2471
465	2472	2473	2474	2475	2476	2477	2478	2479
466	2480	2481	2482	2483	2484	2485	2486	2487
467	2488	2489	2490	2491	2492	2493	2494	2495
470	2496	2497	2498	2499	2500	2501	2502	2503
471	2504	2505	2506	2507	2508	2509	2510	2511
472	2512	2513	2514	2515	2516	2517	2518	2519
473	2520	2521	2522	2523	2524	2525	2526	2527
474	2528	2529	2530	2531	2532	2533	2534	2535
475	2536	2537	2538	2539	2540	2541	2542	2543
476	2544	2545	2546	2547	2548	2549	2550	2551
477	2552	2553	2554	2555	2556	2557	2558	2559

DECIMAL

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Table 2-7
Octal-Decimal Conversion (Continued)

OCTAL	0	1	2	3	4	5	6	7
500	2560	2561	2562	2563	2564	2565	2566	2567
501	2568	2569	2570	2571	2572	2573	2574	2575
502	2576	2577	2578	2579	2580	2581	2582	2583
503	2584	2585	2586	2587	2588	2589	2590	2591
504	2592	2593	2594	2595	2596	2597	2598	2599
505	2600	2601	2602	2603	2604	2605	2606	2607
506	2608	2609	2610	2611	2612	2613	2614	2615
507	2616	2617	2618	2619	2620	2621	2622	2623
510	2624	2625	2626	2627	2628	2629	2630	2631
511	2632	2633	2634	2635	2636	2637	2638	2639
512	2640	2641	2642	2643	2644	2645	2646	2647
513	2648	2649	2650	2651	2652	2653	2654	2655
514	2656	2657	2658	2659	2660	2661	2662	2663
515	2664	2665	2666	2667	2668	2669	2670	2671
516	2672	2673	2674	2675	2676	2677	2678	2679
517	2680	2681	2682	2683	2684	2685	2686	2687
520	2688	2689	2690	2691	2692	2693	2694	2695
521	2696	2697	2698	2699	2700	2701	2702	2703
522	2704	2705	2706	2707	2708	2709	2710	2711
523	2712	2713	2714	2715	2716	2717	2718	2719
524	2720	2721	2722	2723	2724	2725	2726	2727
525	2728	2729	2730	2731	2732	2733	2734	2735
526	2736	2737	2738	2739	2740	2741	2742	2743
527	2744	2745	2746	2747	2748	2749	2750	2751
530	2752	2753	2754	2755	2756	2757	2758	2759
531	2760	2761	2762	2763	2764	2765	2766	2767
532	2768	2769	2770	2771	2772	2773	2774	2775
533	2776	2777	2778	2779	2780	2781	2782	2783
534	2784	2785	2786	2787	2788	2789	2790	2791
535	2792	2793	2794	2795	2796	2797	2798	2799
536	2800	2801	2802	2803	2804	2805	2806	2807
537	2808	2809	2810	2811	2812	2813	2814	2815

DECIMAL

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Table 2-7
Octal-Decimal Conversion (Continued)

OCTAL	0	1	2	3	4	5	6	7
540	2816	2817	2818	2819	2820	2821	2822	2823
541	2824	2825	2826	2827	2828	2829	2830	2831
542	2832	2833	2834	2835	2836	2837	2838	2839
543	2840	2841	2842	2843	2844	2845	2846	2847
544	2848	2849	2850	2851	2852	2853	2854	2855
545	2856	2857	2858	2859	2860	2861	2862	2863
546	2864	2865	2866	2867	2868	2869	2870	2871
547	2872	2873	2874	2875	2876	2877	2878	2879
550	2880	2881	2882	2883	2884	2885	2886	2887
551	2888	2889	2890	2891	2892	2893	2894	2895
552	2896	2897	2898	2899	2900	2901	2902	2903
553	2904	2905	2906	2907	2908	2909	2910	2911
554	2912	2913	2914	2915	2916	2917	2918	2919
555	2920	2921	2922	2923	2924	2925	2926	2927
556	2928	2929	2930	2931	2932	2933	2934	2935
557	2936	2937	2938	2939	2940	2941	2942	2943
560	2944	2945	2946	2947	2948	2949	2950	2951
561	2952	2953	2954	2955	2956	2957	2958	2959
562	2960	2961	2962	2963	2964	2965	2966	2967
563	2968	2969	2970	2971	2972	2973	2974	2975
564	2976	2977	2978	2979	2980	2981	2982	2983
565	2984	2985	2986	2987	2988	2989	2990	2991
566	2992	2993	2994	2995	2996	2997	2998	2999
567	3000	3001	3002	3003	3004	3005	3006	3007
570	3008	3009	3010	3011	3012	3013	3014	3015
571	3016	3017	3018	3019	3020	3021	3022	3023
572	3024	3025	3026	3027	3028	3029	3030	3031
573	3032	3033	3034	3035	3036	3037	3038	3039
574	3040	3041	3042	3043	3044	3045	3046	3047
575	3048	3049	3050	3051	3052	3053	3054	3055
576	3056	3057	3058	3059	3060	3061	3062	3063
577	3064	3065	3066	3067	3068	3069	3070	3071

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Table 2-7
Octal-Decimal Conversion (Continued)

OCTAL	0	1	2	3	4	5	6	7
600	3072	3073	3074	3075	3076	3077	3078	3079
601	3080	3081	3082	3083	3084	3085	3086	3087
602	3088	3089	3090	3091	3092	3093	3094	3095
603	3096	3097	3098	3099	3100	3101	3102	3103
604	3104	3105	3106	3107	3108	3109	3110	3111
605	3112	3113	3114	3115	3116	3117	3118	3119
606	3120	3121	3122	3123	3124	3125	3126	3127
607	3128	3129	3130	3131	3132	3133	3134	3135
610	3136	3137	3138	3139	3140	3141	3142	3143
611	3144	3145	3146	3147	3148	3149	3150	3151
612	3152	3153	3154	3155	3156	3157	3158	3159
613	3160	3161	3162	3163	3164	3165	3166	3167
614	3168	3169	3170	3171	3172	3173	3174	3175
615	3176	3177	3178	3179	3180	3181	3182	3183
616	3184	3185	3186	3187	3188	3189	3190	3191
617	3192	3193	3194	3195	3196	3197	3198	3199
620	3200	3201	3202	3203	3204	3205	3206	3207
621	3208	3209	3210	3211	3212	3213	3214	3215
622	3216	3217	3218	3219	3220	3221	3222	3223
623	3224	3225	3226	3227	3228	3229	3230	3231
624	3232	3233	3234	3235	3236	3237	3238	3239
625	3240	3241	3242	3243	3244	3245	3246	3247
626	3248	3249	3250	3251	3252	3253	3254	3255
627	3256	3257	3258	3259	3260	3261	3262	3263
630	3264	3265	3266	3267	3268	3269	3270	3271
631	3272	3273	3274	3275	3276	3277	3278	3279
632	3280	3281	3282	3283	3284	3285	3286	3287
633	3288	3289	3290	3291	3292	3293	3294	3295
634	3296	3297	3298	3299	3300	3301	3302	3303
635	3304	3305	3306	3307	3308	3309	3310	3311
636	3312	3313	3314	3315	3316	3317	3318	3319
637	3320	3321	3322	3323	3324	3325	3326	3327

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Table 2-7
Octal-Decimal Conversion (Continued)

OCTAL	0	1	2	3	4	5	6	7
640	3328	3329	3330	3331	3332	3333	3334	3335
641	3336	3337	3338	3339	3340	3341	3342	3343
642	3344	3345	3346	3347	3348	3349	3350	3351
643	3352	3353	3354	3355	3356	3357	3358	3359
644	3360	3361	3362	3363	3364	3365	3366	3367
645	3368	3369	3370	3371	3372	3373	3374	3375
646	3376	3377	3378	3379	3380	3381	3382	3383
647	3384	3385	3386	3387	3388	3389	3390	3391
650	3392	3393	3394	3395	3396	3397	3398	3399
651	3400	3401	3402	3403	3404	3405	3406	3407
652	3408	3409	3410	3411	3412	3413	3414	3415
653	3416	3417	3418	3419	3420	3421	3422	3423
654	3424	3425	3426	3427	3428	3429	3430	3431
655	3432	3433	3434	3435	3436	3437	3438	3439
656	3440	3441	3442	3443	3444	3445	3446	3447
657	3448	3449	3450	3451	3452	3453	3454	3455
660	3456	3457	3458	3459	3460	3461	3462	3463
661	3464	3465	3466	3467	3468	3469	3470	3471
662	3472	3473	3474	3475	3476	3477	3478	3479
663	3480	3481	3482	3483	3484	3485	3486	3487
664	3488	3489	3490	3491	3492	3493	3494	3495
665	3496	3497	3498	3499	3500	3501	3502	3503
666	3504	3505	3506	3507	3508	3509	3510	3511
667	3512	3513	3514	3515	3516	3517	3518	3519
670	3520	3521	3522	3523	3524	3525	3526	3527
671	3528	3529	3530	3531	3532	3533	3534	3535
672	3536	3537	3538	3539	3540	3541	3542	3543
673	3544	3545	3546	3547	3548	3549	3550	3551
674	3552	3553	3554	3555	3556	3557	3558	3559
675	3560	3561	3562	3563	3564	3565	3566	3567
676	3568	3569	3570	3571	3572	3573	3574	3575
677	3576	3577	3578	3579	3580	3581	3582	3583

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Table 2-7
Octal-Decimal Conversion (Continued)

OCTAL	0	1	2	3	4	5	6	7
700	3584	3585	3586	3587	3588	3589	3590	3591
701	3592	3593	3594	3595	3596	3597	3598	3599
702	3600	3601	3602	3603	3604	3605	3606	3607
703	3608	3609	3610	3611	3612	3613	3614	3615
704	3616	3617	3618	3619	3620	3621	3622	3623
705	3624	3625	3626	3627	3628	3629	3630	3631
706	3632	3633	3634	3635	3636	3637	3638	3639
707	3640	3641	3642	3643	3644	3645	3646	3647
710	3648	3649	3650	3651	3652	3653	3654	3655
711	3656	3657	3658	3659	3660	3661	3662	3663
712	3664	3665	3666	3667	3668	3669	3670	3671
713	3672	3673	3674	3675	3676	3677	3678	3679
714	3680	3681	3682	3683	3684	3685	3686	3687
715	3688	3689	3690	3691	3692	3693	3694	3695
716	3696	3697	3698	3699	3700	3701	3702	3703
717	3704	3705	3706	3707	3708	3709	3710	3711
720	3712	3713	3714	3715	3716	3717	3718	3719
721	3720	3721	3722	3723	3724	3725	3726	3727
722	3728	3729	3730	3731	3732	3733	3734	3735
723	3736	3737	3738	3739	3740	3741	3742	3743
724	3744	3745	3746	3747	3748	3749	3750	3751
725	3752	3753	3754	3755	3756	3757	3758	3759
726	3760	3761	3762	3763	3764	3765	3766	3767
727	3768	3769	3770	3771	3772	3773	3774	3775
730	3776	3777	3778	3779	3780	3781	3782	3783
731	3784	3785	3786	3787	3788	3789	3790	3791
732	3792	3793	3794	3795	3796	3797	3798	3799
733	3800	3801	3802	3803	3804	3805	3806	3807
734	3808	3809	3810	3811	3812	3813	3814	3815
735	3816	3817	3818	3819	3820	3821	3822	3823
736	3824	3825	3826	3827	3828	3829	3830	3831
737	3832	3833	3834	3835	3836	3837	3838	3839

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Table 2-7
Octal-Decimal Conversion (Continued)

OCTAL	0	1	2	3	4	5	6	7
740	3840	3841	3842	3843	3844	3845	3846	3847
741	3848	3849	3850	3851	3852	3853	3854	3855
742	3856	3857	3858	3859	3860	3861	3862	3863
743	3864	3865	3866	3867	3868	3869	3870	3871
744	3872	3873	3874	3875	3876	3877	3878	3879
745	3880	3881	3882	3883	3884	3885	3886	3887
746	3888	3889	3890	3891	3892	3893	3894	3895
747	3896	3897	3898	3899	3900	3901	3902	3903
750	3904	3905	3906	3907	3908	3909	3910	3911
751	3912	3913	3914	3915	3916	3917	3918	3919
752	3920	3921	3922	3923	3924	3925	3926	3927
753	3928	3929	3930	3931	3932	3933	3934	3935
754	3936	3937	3938	3939	3940	3941	3942	3943
755	3944	3945	3946	3947	3948	3949	3950	3951
756	3952	3953	3954	3955	3956	3957	3958	3959
757	3960	3961	3962	3963	3964	3965	3966	3967
760	3968	3969	3970	3971	3972	3973	3974	3975
761	3976	3977	3978	3979	3980	3981	3982	3983
762	3984	3985	3986	3987	3988	3989	3990	3991
763	3992	3993	3994	3995	3996	3997	3998	3999
764	4000	4001	4002	4003	4004	4005	4006	4007
765	4008	4009	4010	4011	4012	4013	4014	4015
766	4016	4017	4018	4019	4020	4021	4022	4023
767	4024	4025	4026	4027	4028	4029	4030	4031
770	4032	4033	4034	4035	4036	4037	4038	4039
771	4040	4041	4042	4043	4044	4045	4046	4047
772	4048	4049	4050	4051	4052	4053	4054	4055
773	4056	4057	4058	4059	4060	4061	4062	4063
774	4064	4065	4066	4067	4068	4069	4070	4071
775	4072	4073	4074	4075	4076	4077	4078	4079
776	4080	4081	4082	4083	4084	4085	4086	4087
777	4088	4089	4090	4091	4092	4093	4094	4095

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2.5.3 Binary-Octal-Decimal-Hexadecimal Conversions

Both input and output messages use values in binary (base 2), octal (base 8), decimal (base 10) and hexadecimal (base 16). Please use the following table to help convert numbers to the needed base type.

Table 2-8
Binary-Octal-Decimal-Hexadecimal Conversion

BINARY Base 2	OCTAL Base 8	DECIMAL Base 10	HEXA-DECIMAL Base 16	BINARY Base 2	OCTAL Base 8	DECIMAL Base 10	HEXA-DECIMAL Base 16
00000000	0	0	0	00100000	40	32	20
00000001	1	1	1	00100001	41	33	21
00000010	2	2	2	00100010	42	34	22
00000011	3	3	3	00100011	43	35	23
00000100	4	4	4	00100100	44	36	24
00000101	5	5	5	00100101	45	37	25
00000110	6	6	6	00100110	46	38	26
00000111	7	7	7	00100111	47	39	27
00001000	10	8	8	00101000	50	40	28
00001001	11	9	9	00101001	51	41	29
00001010	12	10	A	00101010	52	42	2A
00001011	13	11	B	00101011	53	43	2B
00001100	14	12	C	00101100	54	44	2C
00001101	15	13	D	00101101	55	45	2D
00001110	16	14	E	00101110	56	46	2E
00001111	17	15	F	00101111	57	47	2F
00010000	20	16	10	00110000	60	48	30
00010001	21	17	11	00110001	61	49	31
00010010	22	18	12	00110010	62	50	32
00010011	23	19	13	00110011	63	51	33
00010100	24	20	14	00110100	64	52	34
00010101	25	21	15	00110101	65	53	35
00010110	26	22	16	00110110	66	54	36
00010111	27	23	17	00110111	67	55	37
00011000	30	24	18	00111000	70	56	38
00011001	31	25	19	00111001	71	57	39
00011010	32	26	1A	00111010	72	58	3A
00011011	33	27	1B	00111011	73	59	3B
00011100	34	28	1C	00111100	74	60	3C
00011101	35	29	1D	00111101	75	61	3D
00011110	36	30	1E	00111110	76	62	3E
00011111	37	31	1F	00111111	77	63	3F

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Table 2-8
Binary-Octal-Decimal-Hexadecimal Conversion (continued)

BINARY Base 2	OCTAL Base 8	DECIMAL Base 10	HEXA-DECIMAL Base 16	BINARY Base 2	OCTAL Base 8	DECIMAL Base 10	HEXA-DECIMAL Base 16
01000000	100	64	40	01100000	140	96	60
01000001	101	65	41	01100001	141	97	61
01000010	102	66	42	01100010	142	98	62
01000011	103	67	43	01100011	143	99	63
01000100	104	68	44	01100100	144	100	64
01000101	105	69	45	01100101	145	101	65
01000110	106	70	46	01100110	146	102	66
01000111	107	71	47	01100111	147	103	67
01001000	110	72	48	01101000	150	104	68
01001001	111	73	49	01101001	151	105	69
01001010	112	74	4A	01101010	152	106	6A
01001011	113	75	4B	01101011	153	107	6B
01001100	114	76	4C	01101100	154	108	6C
01001101	115	77	4D	01101101	155	109	6D
01001110	116	78	4E	01101110	156	110	6E
01001111	117	79	4F	01101111	157	111	6F
01010000	120	80	50	01110000	160	112	70
01010001	121	81	51	01110001	161	113	71
01010010	122	82	52	01110010	162	114	72
01010011	123	83	53	01110011	163	115	73
01010100	124	84	54	01110100	164	116	74
01010101	125	85	55	01110101	165	117	75
01010110	126	86	56	01110110	166	118	76
01010111	127	87	57	01110111	167	119	77
01011000	130	88	58	01111000	170	120	78
01011001	131	89	59	01111001	171	121	79
01011010	132	90	5A	01111010	172	122	7A
01011011	133	91	5B	01111011	173	123	7B
01011100	134	92	5C	01111100	174	124	7C
01011101	135	93	5D	01111101	175	125	7D
01011110	136	94	5E	01111110	176	126	7E
01011111	137	95	5F	01111111	177	127	7F

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Table 2-8
Binary-Octal-Decimal-Hexadecimal Conversion (continued)

BINARY Base 2	OCTAL Base 8	DECIMAL Base 10	HEXA-DECIMAL Base 16	BINARY Base 2	OCTAL Base 8	DECIMAL Base 10	HEXA-DECIMAL Base 16
10000000	200	128	80	10100000	240	160	A0
10000001	201	129	81	10100001	241	161	A1
10000010	202	130	82	10100010	242	162	A2
10000011	203	131	83	10100011	243	163	A3
10000100	204	132	84	10100100	244	164	A4
10000101	205	133	85	10100101	245	165	A5
10000110	206	134	86	10100110	246	166	A6
10000111	207	135	87	10100111	247	167	A7
10001000	210	136	88	10101000	250	168	A8
10001001	211	137	89	10101001	251	169	A9
10001010	212	138	8A	10101010	252	170	AA
10001011	213	139	8B	10101011	253	171	AB
10001100	214	140	8C	10101100	254	172	AC
10001101	215	141	8D	10101101	255	173	AD
10001110	216	142	8E	10101110	256	174	AE
10001111	217	143	8F	10101111	257	175	AF
10010000	220	144	90	10110000	260	176	B0
10010001	221	145	91	10110001	261	177	B1
10010010	222	146	92	10110010	262	178	B2
10010011	223	147	93	10110011	263	179	B3
10010100	224	148	94	10110100	264	180	B4
10010101	225	149	95	10110101	265	181	B5
10010110	226	150	96	10110110	266	182	B6
10010111	227	151	97	10110111	267	183	B7
10011000	230	152	98	10111000	270	184	B8
10011001	231	153	99	10111001	271	185	B9
10011010	232	154	9A	10111010	272	186	BA
10011011	233	155	9B	10111011	273	187	BB
10011100	234	156	9C	10111100	274	188	BC
10011101	235	157	9D	10111101	275	189	BD
10011110	236	158	9E	10111110	276	190	BE
10011111	237	159	9F	10111111	277	191	BF

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Table 2-8
Binary-Octal-Decimal-Hexadecimal Conversion (continued)

BINARY Base 2	OCTAL Base 8	DECIMAL Base 10	HEXA-DECIMAL Base 16	BINARY Base 2	OCTAL Base 8	DECIMAL Base 10	HEXA-DECIMAL Base 16
11000000	300	192	C0	11100000	340	224	E0
11000001	301	193	C1	11100001	341	225	E1
11000010	302	194	C2	11100010	342	226	E2
11000011	303	195	C3	11100011	343	227	E3
11000100	304	196	C4	11100100	344	228	E4
11000101	305	197	C5	11100101	345	229	E5
11000110	306	198	C6	11100110	346	230	E6
11000111	307	199	C7	11100111	347	231	E7
11001000	310	200	C8	11101000	350	232	E8
11001001	311	201	C9	11101001	351	233	E9
11001010	312	202	CA	11101010	352	234	EA
11001011	313	203	CB	11101011	353	235	EB
11001100	314	204	CC	11101100	354	236	EC
11001101	315	205	CD	11101101	355	237	ED
11001110	316	206	CE	11101110	356	238	EE
11001111	317	207	CF	11101111	357	239	EF
11010000	320	208	D0	11110000	360	240	F0
11010001	321	209	D1	11110001	361	241	F1
11010010	322	210	D2	11110010	362	242	F2
11010011	323	211	D3	11110011	363	243	F3
11010100	324	212	D4	11110100	364	244	F4
11010101	325	213	D5	11110101	365	245	F5
11010110	326	214	D6	11110110	366	246	F6
11010111	327	215	D7	11110111	367	247	F7
11011000	330	216	D8	11111000	370	248	F8
11011001	331	217	D9	11111001	371	249	F9
11011010	332	218	DA	11111010	372	250	FA
11011011	333	219	DB	11111011	373	251	FB
11011100	334	220	DC	11111100	374	252	FC
11011101	335	221	DD	11111101	375	253	FD
11011110	336	222	DE	11111110	376	254	FE
11011111	337	223	DF	11111111	377	255	FF

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2.5.4 Acronyms and Mnemonics

Acronyms and mnemonics are used throughout the input and output manuals. Some commonly used acronyms and mnemonics are defined in Table 2-9.

Table 2-9
Acronyms and Mnemonics

2DSA	-	2 direct services automatic number identification base
2LAC	-	2 line number application for consumers
A1B	-	any 1B core memory
AAP	-	announcement administration processor
AB	-	accounting block
ABDN	-	abandon
ABM	-	accounting block matcher
ABR	-	auxiliary buffer register
ABS	-	alarm battery supply
AC	-	alternating current
ACCESA	-	access tandem
ACD	-	automatic call distributor
ACG	-	automatic call gap
ACI	-	AT&T communications interface
ACI	-	AT&T customer interface
ACI	-	account code information
ACK	-	acknowledge
ACP	-	action control point
ACR	-	auxiliary call register
ACT	-	active
ACT	-	automatic test control
ACUERR	-	automatic call unit failure
ACV	-	access charge verification
AD1	-	additional data field 1
AD2	-	additional data field 2
AD3	-	additional data field 3
AD	-	additional data
ADA	-	AT&T network connection dial-around
ADC	-	acceptable digit count
ADCOMM	-	common auxiliary unit data
ADCR	-	alternate destination call redirection
ADDR	-	address
ADG	-	automatic distribution group
ADL	-	AT&T digital link
ADR	-	(Virtual) address
ADS	-	automatic number identification delivery service
ADS	-	auxiliary data system
ADSI	-	automatic number identification delivery service index

Table 2-9
Acronyms and Mnemonics

AG	-	alarm grouping
AID	-	alarm indication signals daily
AIN	-	advanced intelligent network
AINT	-	autonomous interrupt
AIS	-	alarm indication signal
ALA	-	adjunct logical address
ALA/OSN	-	adjunct logical address / operations support network
ALC	-	A-link controller
ALEV	-	A-level
ALFEXR0	-	A-link formatter exercise register 0
ALFEXR1	-	A-link formatter exercise register 1
ALIT	-	automatic line insulation test
AMA	-	automatic message accounting
ANC	-	AT&T network connection
ANCR	-	AT&T network call redirection
ANFHT	-	automatic number identification failure action final handling treatment
ANI	-	automatic number identification
ANN	-	announcement
ANNUM	-	announcement number
ANS	-	answer
ANSI	-	American National Standards Institute
ANSR	-	answer
ANT	-	alternate number translations
AOOC	-	automatic out of chain
AORL	-	alternate and/or overflow
APDMI	-	attached processor diagnostic message interface
API	-	attached processor interface
APMH	-	attached processor message handler
APMHCNI	-	attached processor message handler common network interface
APMSG	-	attached processor message
APN	-	action point numbering
APN	-	action point numbering plan
APS	-	ACCUNET® packet service
APS	-	attached processor system
APUB	-	autonomous peripheral unit bus
APUF	-	autonomous peripheral unit failure
APUT	-	autonomous peripheral unit trouble
AR	-	audible ringing
ARDB	-	auxiliary routing data block
ASCII	-	American standard code for information interchange
ASCIT	-	AT&T service / call identification type
ASM	-	announcement systems manager
ASN	-	AT&T switched network
ASR	-	automatic speech recognition

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Table 2-9
Acronyms and Mnemonics (Continued)

ASTN	-	alternate signaling transport network
ASTN	-	individual alternate signaling transport network
ASW	-	all seems well
ASWEPU	-	peripheral unit all seems well error summary
ASWF	-	all seems well failure
AT	-	alarm transfer
ATA	-	activate trunk audit
ATAP	-	access tandem area plain old telephone service
ATC	-	all tests completed
ATC	-	automatic test control
ATD	-	automatic test dispatcher
ATME	-	automatic trunk maintenance equipment
ATP	-	AT&T trigger platform
ATP	-	access transport
ATP	-	all tests pass
ATS	-	alarm transfer system
ATSGHC	-	adjunct trunk subgroup head cell
AU	-	auxiliary unit
AUB	-	auxiliary unit bus
AUDR	-	arithmetic unit data register
AUDS	-	audit system program
AUDST	-	audit state
AUI	-	auxiliary unit interface
AUT	-	automatic
AUX	-	auxiliary
AVD	-	application variable data
AVL	-	availability
B	-	buffer
B/I	-	block / integrity
BB	-	billing block
BBC	-	broadband capability
BBDIG	-	blue box digits
BCD	-	binary coded decimal
BCIC	-	basic carrier ID code
BEF	-	band elimination filter
BFTIS	-	backward failure treatment integrated services digital network user part
BFTN	-	base traffic number
BFTNI	-	backward failure treatment not integrated services digital network user part
BIMM	-	busy idle memory map
BIN	-	binary format
BINK	-	binary K
BL	-	base level
BL	-	building

Table 2-9
Acronyms and Mnemonics (Continued)

BLEN	-	byte length
BLEV	-	B-level
BLK	-	block
BLM	-	base level maintenance
BMAM	-	buffer memory address map
BMP	-	base miscellaneous point
BN	-	billing number
BOC	-	Bell Operating Company
BOF	-	buffer overflow
BOS	-	bit oriented signaling
BPS	-	bits per second
BRKREC	-	break received
BRL	-	billing record length
BRRT	-	backup round-robin routing table
BSTN	-	base traffic number
BTFN	-	base traffic number
BTL	-	Bell Telephone Laboratories
BTLP	-	behavioral trouble locating procedures
BV	-	billing validation
BV	-	bipolar violation
BVR	-	bipolar violation rate
CAD	-	circuit administration
CAD	-	circuit administration disabled
CAD	-	circuit assigned digital
CAI	-	call assembly index
CALLDATA	-	call data
CALLTYP	-	call type
CALM	-	common alarm
CAMA	-	centralized automatic message accounting
CAMA-ONI	-	centralized automatic message accounting - operation number identification
CANI	-	customer automatic number identification
CAPPN	-	cut through application number
CAR	-	carrier
CAR	-	current address register
CARD	-	credit card digits
CAREA	-	control area
CAROT	-	centralized automatic reporting on trunks
CARRF	-	carrier failure
CATLAS	-	centralized automatic trouble locating and analysis system
CATP	-	conditional all tests passed
CB	-	control bus
CBC	-	call by call service selection
CBNPR	-	calling party number / billing default presentation restriction indicator

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Table 2-9
Acronyms and Mnemonics (Continued)

CC	-	central control
CC	-	central controller
CC	-	country code
CCD	-	country code
CCD	-	country code digits
CCF	-	concentrated calling feature
CCFR	-	central control failure results
CCFR	-	central control fault recovery
CCFR	-	central control fault recognition
CCIS	-	common channel interoffice signaling
CCIS2WRE	-	common channel interoffice signaling 2Wire
CCIS6	-	common channel interoffice signaling 6
CCISCR	-	common channel interoffice signaling critical register
CCITT	-	common channel signaling system
CCITT	-	consultative committee on international telephone & telegraph
CCITT5	-	CCITT common channel signaling system number 5
CCITT6	-	CCITT common channel signaling system number 6
CCITT7	-	CCITT common channel signaling system number 7
CCK	-	continuity check
CCRF	-	carrier completion rate feature
CCS	-	central control standby
CCS	-	common channel signaling
CCS7	-	common channel signaling system 7
CCS7	-	common channel signaling version 7
CCT	-	continuity check transceiver
CCU	-	central control unit
CD	-	continuation data
CD	-	continue data
CDB	-	customer data block
CDBI	-	customer data block index
CDR	-	call detail recording
CDR	-	channel data register
CDR	-	customer data response
CDSU	-	custom data services unit
CEB	-	coded enable bus
CESR	-	control error source register
CESR	-	controller error source register
CF	-	carrier failure
CFA	-	carrier failure alarm
CGA	-	carrier group alarm
CHI	-	call handling instruction
CHNEG	-	channel negotiation
CHOVRN	-	character overrun
CI	-	caller interaction

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Table 2-9
Acronyms and Mnemonics (Continued)

CI	-	carrier interconnect
CI	-	clock interrogate
CIA	-	control bus and image administration
CIC	-	caller identification code
CIC	-	carrier identification code
CIC	-	circuit identification code
CID	-	carrier identification
CIN	-	change in network
CIN	-	circuit identification name
CIN	-	circuit identification number
CINC	-	circuit identification name code
CINC	-	circuit identification number code
CINLEN	-	circuit identification number length
CIP	-	carrier identification parameter
CKT	-	circuit
CLE	-	clock error
CLEV	-	C-level
CLEVAC	-	active central control register
CLEVST	-	standby central control register
CLF	-	clear forward
CLID	-	calling line identification
CLIDS	-	controller or client d source
CLIP	-	calling line identification presentation
CLLI	-	common language location identifier
CMS	-	change management
CMS	-	change management system
CMS	-	circuit maintenance
CMS	-	circuit maintenance system
CMS	-	circuit multiplication system
CNFGSTAT	-	configuration status
CNI	-	common network interface
CNIBLM	-	common network interface base level error word
CNIEWD	-	common network interface error information word
CNT	-	called number trigger
CNTL	-	control
CODSC	-	customer provided equipment outgoing disconnect
COMMLEV	-	common level data
CONT	-	controller
CONTR	-	controller
CONV	-	Conversant®
CONV	-	conversion
CORR	-	correcting
COS	-	class of service
CP	-	central processor

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Table 2-9
Acronyms and Mnemonics (Continued)

CPA	-	common platform adjunct
CPA	-	calling party address
CPBS	-	control parity b source
CPD	-	central pulse distributor
CPD	-	control pulse distributor
CPDB	-	central pulse distributor bus
CPDIG	-	calling party digits
CPE	-	customer provided equipment
CPF	-	character parity failure
CPFLEV	-	central - pulse distributor f-level
CPN	-	calling party number
CPOS	-	control position
CPPA	-	calling party pays airtime
CR	-	call register
CR	-	cluster region
CR	-	critical
CRAM	-	control-bus random access memory
CRB	-	customer routing block
CRBI	-	customer routing block index
CRC	-	cyclic redundancy check
CRC-6	-	cyclic redundancy check
CREG	-	critical register
CRM	-	clear request message
CRT	-	cathode ray tube
CRTSI	-	cost reduced time slot interchange
CS	-	call store
CS	-	nonsecure call store
CSB	-	call store bus
CSB	-	clock select and buffer
CSC	-	circuit selection capabilities
CSC	-	circuit selection capability
CSCI	-	circuit selection capability index
CSD	-	controlled slip seconds daily
CSDC	-	circuit switched digital capability
CSFRID	-	call store identification data
CSFRPG	-	D-level software failure results
CSFRTR	-	call store test results
CSI	-	carrier selection information
CSMS	-	consumer services business service management system
CSP	-	controller signal processor
CSR	-	carrier specific routing
CSRAF	-	common systems recorded announcement frame
CSRSDX	-	carrier screening subsequent digit index
CSS	-	call store semi conductor

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Table 2-9
Acronyms and Mnemonics (Continued)

CSS	-	call store secure
CSS	-	controlled slip second
CT	-	center tape
CT	-	cluster type
CTLP	-	connectivity trouble location procedure
CTRA	-	connected to recorded announcement
CTS	-	clear to send
CTS	-	common tone supply
CTX2	-	centrex 2
CTYPE	-	client type
CU	-	control unit
CVD	-	coding violations daily
D3U	-	digital signal 3 unit
D3U	-	digital signal level 3 unit
D3U	-	digital signal level 3 interface unit
D3UCTL	-	digital signal level 3 contoller
D3UESR	-	digital signal level 3 error source register
D3UEXR	-	digital signal level 3 exercise register
D3USTAT	-	digital signal level 3 hardware status
D3USTATUS	-	digital signal level 3 software status
DADC	-	direct access data channel
DANI	-	direct access data channel automatic number identification
DARN	-	dial around
DAT	-	demand analysis
DATS	-	demand analysis state
DB	-	database
DBI	-	data block indexes
DBOV	-	digital buffer overflow pest
DBT	-	diagnostic buffer table
DC	-	direct connect
DCIC	-	domestic carrier ID code
DCIS	-	destination common channel signaling system
DCNT	-	digit count
DDB	-	disk descriptor block
DDD	-	direct distance dialing
DDI	-	direct data insert
DDI	-	direct dial in
DDT	-	digital data trunk
DEAC	-	deactive
DEC	-	decimal format
DESEP	-	destination separation
DEST	-	destination
DETL	-	detailed

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Table 2-9
Acronyms and Mnemonics (Continued)

DEV	-	dedicated egress voice
DF	-	disk file
DF	-	duplex fail
DFN	-	destination file number
DG	-	digroup
DGALM	-	digroup alarm
DGN	-	diagnose or diagnostic
DGO	-	digroup out of service
DGRF	-	digroup report function data
DGSTAT	-	digroup status
DHL	-	depth heavily loaded
DIAL	-	diagnostic language
DIC	-	digital interface controller
DIF	-	digital interface frame
DIF-E1	-	digital interface frame export 1
DIF-E1(D)	-	digital interface domestic frame
DIG	-	digit
DIG	-	digits
DIGTYP	-	digit types
DIU	-	digital interface unit
DKAD	-	disk address
DKAD	-	disk administration
DKADI	-	disk administration interface program
DLC	-	data link controller
DLC	-	dynamic load control
DLEV	-	D-level
DLN	-	data link node
DLN	-	data link number
DLN	-	direct link node
DMA	-	direct memory access
DMI	-	3B DMERT interface
DN	-	dialed number
DNHR	-	dynamic non hierarchical routing
DNHRICM	-	dynamic non hierarchical routing incoming class mark
DNHROCM	-	dynamic non hierarchical routing outgoing class mark
DNP	-	dialed number preferred
DNST	-	dialed number service type
DNUM	-	destination number
DNUP	-	duplex no-outpulse
DOC	-	dynamic overload control
DOCRN	-	dynamic overload control receive number
DOCT	-	dynamic overload control transmitter
DOFP	-	disable outgoing fraud prevention
DOM	-	domain

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Table 2-9
Acronyms and Mnemonics (Continued)

DOMI	-	domain incoming
DOWNC	-	down chain
DP	-	dial pulse
DPC	-	destination point code
DPF	-	data parity failure
DPSTOP	-	dial pulse stop
DRAR	-	digital radio avoidance routing
DRB	-	disk request block
DRCC	-	default routing control code
DRO	-	delay reduction option
DRSV	-	depth reserved
DRTC	-	data rate transport capability
DS1	-	digital signal level 1
DS3	-	digital signal 3
DS3	-	digital signal level 3
DSA	-	disabled
DSD	-	direct services dialing
DSDC	-	direct services dialing capability
DST	-	diagnostic strategy
DSTAT	-	domestic status
DSTT	-	direct signaling translation test
DT	-	digroup terminal
DTAC	-	direct test access connection
DTAT	-	digital test access trunk
DTCR	-	dedicated time slot interchange connection register
DTMF	-	dual tone multifrequency
DTSE	-	disables the time slot exchange
DTTU	-	digital trunk test unit
DTU	-	digroup terminal unit
DU	-	data unit
DUART	-	dual asynchronous receiver transmitter
DUC	-	data unit controller
DUFR	-	data unit fault recovery
DUPT	-	dial up port
DUS	-	data unit selector
DUSREG	-	data unit selector registers
E	-	enable
E&M	-	ear and mouth
E1	-	export 1
EA	-	equal access
EAC	-	error analysis control
EAC	-	expanded authorization code
EAEO	-	equal access end office

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Table 2-9
Acronyms and Mnemonics (Continued)

EAI	-	emergency action interface
EAR	-	emergency alternate routing
EAS	-	equal access signaling
EAS	-	equal access signaling state
ECD	-	equipment configuration data
ECDL	-	enhanced common channel interoffice signaling data link
ECLI	-	echo canceller line interface
ECOS	-	end-to-end class of service
ECS	-	extended call store
ED	-	engineered data
ELEV	-	E-level
ELS	-	electronic loop segregation
ELT	-	emergency load transfer
EOF	-	end of file
EOLN	-	end office local nodal
EOS	-	extended operating system
EOT	-	end of tape
EPEC	-	emergency program environment control
EPEC	-	emergency program environmental configuration
EPH	-	execution pipeline history
EPLX	-	ESS™ programming language extended
EPS	-	enables the protection switch
EQL	-	equipment location
EQPTLOC	-	equipment location
EQT	-	enables quiet tone
ER	-	emergency restart
ERAP	-	error analysis program
ERAT	-	error analysis
ERI	-	egress route indicator
ERPI	-	extended routing pattern identity
ERPISET	-	extended routing pattern identity set
ERRC	-	error counter
ERSP	-	error stop
ERSTP	-	error stop
ES	-	echo suppressor
ES	-	end switch
ES	-	errored seconds
ESCR	-	enhancements for special CIC routing
ESD	-	errored seconds daily
ESF	-	extended superframing
ESI	-	echo suppressor index
ESI	-	egress switch indicator
ESM	-	enables the select mode
ESM	-	external sanity monitor

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Table 2-9
Acronyms and Mnemonics (Continued)

ESN	-	E-store number
ESN	-	echo suppressor number
ESR	-	error source register
ESR	-	error summary register
EST	-	echo suppressor terminal
ESU	-	echo suppressor unit
ESU	-	error source unit
ET	-	error threshold
EXC	-	execute
EXCRAM	-	executive buffer random access memory
EXEC	-	execute
EXSMM	-	cross-connect SYNDROBUS mismatch
EXUMM	-	cross-connect update bus mismatch
FA	-	flash A
FAI	-	foreign administration identity
FAX	-	facsimile
FB	-	flash B
FBH	-	framing bit high
FBICTL	-	FBI status and control
FBL	-	framing bit low
FBS	-	far building subdivision
FC	-	fan controller
FCHAN	-	far end channel
FCIC	-	first circuit identification code
FD	-	forced data
FD	-	forced digit
FDPLX	-	full duplex
FE	-	far end
FEALN	-	far end AT&T local network
FEHIGH	-	frame error high
FEHIGH	-	frame error high count
FELATA	-	far end local access transport area
FELOW	-	frame error low
FELOW	-	frame error low count
FEN	-	far end network
FENCLASS	-	far end network class
FENID	-	far end network identification
FENN	-	far end network
FENPA	-	far end numbering plan area
FEOFC	-	far end office
FERA	-	failure error analysis
FERA	-	fault error analysis
FESC6	-	far end 6-Digit screening

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Table 2-9
Acronyms and Mnemonics (Continued)

FETL	-	far end test line
FHANN	-	final handling announcement
FHC	-	final handling code
FHCODE	-	final handling code
FHI	-	final handling announcement
FHT	-	final handling treatment
FIA	-	feature indicator all
FIR	-	feature indicator request
FLEV	-	F-level
FLN	-	floor location number
FLN	-	frame location number
FMI	-	file manager interface
FNCTSUBS	-	functional subroutines
FNS	-	fan system
FNUM	-	file number
FPDT	-	feature processing data type
FPR	-	facsimile preferred routing
FPWRF	-	force power failure
FR	-	fault recovery
FRDATA	-	full rate data
FRDI	-	frame request and diagnostic interface
FRZ	-	frozen state
FS	-	file store
FS	-	file system
FS	-	functional schematic
FSCPY0	-	file system copy 0
FSCPY1	-	file system copy 1
FSECD	-	file system error correction data
FSIT	-	foreign subscriber identifying telephone
FSP	-	four state pass
FSSTAT	-	file system status
FSSTAT	-	file system status failure report data
FSUNIQUE	-	unique file system
FTFN	-	first traffic number
FTS	-	first time slot
FVSR	-	forced via switch routing
GAF	-	gate all toward the facility
GAS	-	gate all toward switch
GBT	-	general buffer table
GCP	-	gate control pulse
GCP	-	generate control pulse
GCP	-	generated control pulse
GEN	-	general registers

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Table 2-9
Acronyms and Mnemonics (Continued)

GEN	-	generic
GEOSEP	-	geographical traffic separation class
GETS	-	government emergency telecommunications service
GI	-	group interrogate
GLEV	-	G-level
GNS	-	go / no go screening
GNSC	-	go / no go screening class
GP	-	group
GRAM	-	global random access memory
GRESR	-	global random access memory error source register
GRP	-	group
GSDN	-	global software defined network
GSDNPHSE	-	global software defined network phase
GTH	-	growth
GTT	-	global title translation
GULP	-	general utility program
GULP	-	generic utility program
GW	-	gateway
H	-	high
HAW	-	high and wet
HBDG	-	head block diode group
HICAP	-	high capacity calling
HIST	-	trouble history
HLD	-	hold
HNPA	-	home numbering plan area
HTR	-	hard to reach
HT	-	headtable
HWL	-	high and wet list
HWT	-	high and wet timing
I	-	inbound
I	-	input
I/O	-	input / output
IA	-	ineffective attempt
IADC	-	integrated access direct connect
IAID	-	internal (4ESS™) announcement identity
IAM	-	initial address message
IAOFC	-	ineffective attempt office
IAOFCNT	-	ineffective attempt office counting
IATRAP	-	ineffective attempt trap
IATSG	-	ineffective attempt trunk subgroup
IB	-	inward wide area telecommunications service billing
IBNS	-	international billed number screening

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Table 2-9
Acronyms and Mnemonics (Continued)

IBO	-	input buffer overflow
IBU	-	in-band unit
IBUCTL	-	in-band unit control
IBUCTL	-	in-band unit controller
IBUESR	-	in-band unit error source register
IBUEXR	-	in-band unit exercise register
IBUSTAT	-	in-band unit hardware status register
IBUSTAT	-	in-band unit hardware status
IBUSTATUS	-	in-band unit software status
IC	-	instruction control
IC	-	inter local access transport area carrier
IC	-	interexchange carrier
IC	-	international carrier
ICB	-	input control block
ICD	-	international call data
ICDR	-	international call detailed recording
ICIC	-	international carrier ID code
ICT	-	incoming trunk
ID	-	identification
IDB	-	inward wide area telecommunications service data base
IDDD	-	international direct distance dialing
IDMM	-	identification tag mismatch
IDTS	-	incoming dial tone start
IFB	-	interface bus
IFFR	-	interface bus fault recovery
IFHCODE	-	input final handling code
IGFET	-	insulated gate field effect transistor
IGN	-	ignore
II	-	information digit
IM	-	input message
IMR	-	inhibit maintenance request
INC	-	international carrier
INDX	-	index
INFO-1	-	information-1
INH	-	inhibit
INI	-	inhibit normal interrupt
INIT	-	initialization
INS	-	in service
INSEP	-	incoming separation
INSEP	-	incoming traffic separation class
INSEPR	-	input service provider
INTL	-	international
INTO	-	international originating call
INTT	-	international transit

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Table 2-9
Acronyms and Mnemonics (Continued)

INUP	-	international integrated services digital network user part
INVCCD	-	invalid channel command
INVINT	-	invalid interrupt
INVINT	-	invalid interrupt internal register
INVK	-	invoke
INWATS	-	inward wide area telecommunications service
IO	-	input / output
IO	-	inter-office
IOC	-	international operator center
IOCP	-	input / output control program
IOF	-	input / output frame
IOMP	-	input / output microprocessor
IOMP	-	input / output unit microprocessor communities
IOOFD	-	input / output operational failure data
IOP	-	input / output processor
IOPF	-	input / output processor frame
IOSTAT	-	input / output status
IOUC	-	input / output unit channel
IOUC	-	input / output unit controller
IOUCS	-	input/ output controller / selector
IOUS	-	input / output unit selector
IP	-	in progress
IP	-	initialization processor
IP	-	internal protocol
IPCC	-	individual per call control
IPD	-	interprocessor data
IPM	-	impulses per minute
IPM	-	interruptions per minute
IPUB	-	interface peripheral unit bus
IREG	-	internal register
ISC	-	incoming signaling characteristics
ISC	-	intelligent serial controller
ISC	-	international switching center
ISDN	-	integrated services digital network
ISL	-	intermediate switch list
ISTAT	-	international status
ISTP	-	international signal transfer point
ISTP	-	international traffic point
ISUP	-	integrated services digital network user part
ITC	-	incoming traffic counter
ITC	-	incoming trunk class
ITC	-	incoming trunk subgroup class
ITUP	-	international telephone user part
IW	-	input word

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Table 2-9
Acronyms and Mnemonics (Continued)

IWZ1	-	international world zone 1
IXC	-	interexchange carrier
JCB	-	job control buffer
JLEV	-	J-level
KBPS	-	kilobits per second
KLEV	-	K-level
KRPI	-	key routing pattern index
L	-	low
LA	-	load adjust
LACID	-	link access circuit identifier
LACID	-	link access identifier
LACID1	-	link 1 access identifier
LACID2	-	link 2 access identifier
LAF	-	loop all toward the facility
LAM	-	leave-a-message
LAN	-	local area network
LANI	-	local automatic number identification
LAS	-	loop all toward the switch
LATA	-	local access transport area
LBS	-	unloop bit stream
LCA	-	local alarm
LCA	-	local carrier alarm
LCI	-	local call intercept
LD	-	language digit
LDI	-	logical device identification
LDS	-	long distance service
LEC	-	local exchange carrier
LEC	-	local exchange company
LFCN	-	low frequency exerciser controller
LIB	-	library program
LIBSYS	-	library system
LIM	-	link integrity monitor
LINKTYPE	-	type of link
LIU	-	line interface unit
LKO	-	lockout
LLHC	-	link list head cell
LLRAM	-	last look store random access memory
LLSADR	-	last look store address
LLSADR	-	write last look address
LNP	-	local number portability
LODBUF	-	load buffer

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Table 2-9
Acronyms and Mnemonics (Continued)

LOM	-	listen only mode
LPA	-	low paper alarm
LRAM	-	local random access memory
LRGN	-	local exchange routing guide number
LRN	-	local routing number
LSA	-	local subframing alarm
LSFHT	-	local access transport area final handling treatment
LSMTX	-	local access transport area state screening matrix
LSNC	-	large scale nailup
LSP	-	link state packet
LSP	-	load set period
LSST	-	local access transport area / state screening state
LTF	-	loop trunk toward facility
LTS	-	loop trunk toward switch
LV	-	level
LVL	-	level
LVS	-	local variable stack
LVS	-	local variable stock
MAC	-	machine administration center
MAC	-	memory administration center
MACCM	-	machine administration center control memory
MACP	-	maintenance control program
MAINT	-	maintenance
MAN	-	manual
MAPN	-	master application number
MAPRT	-	map rate table
MAR	-	mass announcement register
MAR	-	mass announcement system register
MARG	-	margin
MARP	-	maintenance restart program
MAS	-	mass announcement service
MAS	-	mass announcement service frame
MAS	-	mass announcement system
MAU	-	mass announcement unit
MB	-	maintenance buffer
MB	-	maintenance busy
MBPS	-	megabits per second
MBPTR	-	maintenance buffer pointers
MC	-	maintenance center
MC	-	maintenance console
MC	-	measurement class
MCC	-	master control complex
MCFR	-	master control complex fault recovery

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Table 2-9
Acronyms and Mnemonics (Continued)

MCFR	-	master control complex and utility processor fault recovery
MCG	-	major category
MCT	-	multiple carrier treatment
MDN	-	miscellaneous distribution number
MDR	-	message detail recording
MEGC	-	MEGACOM® service
MEM	-	member
MEMN	-	member number
MF	-	multifrequency
MFC	-	multifrequency code / compeller
MFC	-	multifrequency compelled
MFN	-	maintenance file number
MFNUM	-	maintenance file number
MGC	-	magic number control
MHD	-	moving head disk
MI	-	maintenance interject
MI	-	member interrogate
MI	-	modular interface
MICON	-	maintenance control
MICON	-	maintenance interrupt control
MIP	-	multifunctional interface processor
MJ	-	major
ML	-	maintenance load
MM	-	maintenance matcher
MML	-	man machine language
MML	-	matrix maintenance limit
MN	-	minor
MNC	-	magic number control
MOC	-	maintenance operations center
MOC	-	master operations center
MOCC	-	master operations center control
MOIA	-	modified interrupt address
MORR	-	multiple or redundant request
MP	-	main program
MP	-	maintenance processor
MP	-	monitor
MPE	-	messages per entry
MPESR	-	maintenance processor error source register
MPF	-	memory parity failure
MPI	-	miscellaneous program index
MR	-	maintenance request
MRA	-	modify recovery action
MRAM	-	micro-store instruction random access memory
MRII	-	matched restriction information indicator

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Table 2-9
Acronyms and Mnemonics (Continued)

MRNUM	-	maintenance record number
MRT	-	multiple routing
MRT	-	multiple routing treatment
MRTI	-	multiple routing treatment index
MSC	-	measurement sub class
MSI	-	market segment index
MSK	-	mask
MSN	-	M-store number
MSN	-	miscellaneous scan point number
MSN	-	miscellaneous scanner number
MSP	-	multifaceted signal processor
MSTAT	-	mass announcement system status table
MT	-	maintenance
MTC	-	maintenance
MTC	-	maintenance channel
MTCE	-	maintenance
MTHG	-	member type hardware generation
MTP	-	message transfer part
MTP	-	message transfer point
MTS	-	multiple treatment screening
MTSC	-	multiple treatment screening class
MTSCI	-	multiple treatment screening class index
MTX	-	matrix
MUI	-	master control complex utility interface
MULTACT	-	multiple activate
MUP	-	master control complex and utility processor
MUPAUD	-	master control complex and utility processor audit
MUPOS	-	master control complex and utility processor operating system
MW	-	milliwatt
N/A	-	not applicable
NAC	-	non call associated temporary signaling connection anomaly code
NACC	-	non call associated temporary signaling connection anomaly code category
NAI	-	network access interruption
NAIA	-	node attempted illegal access
NANP	-	North American numbering plan
NBS	-	internal building subdivision
NBS	-	near building subdivision
NC	-	network clock
NC	-	not communicating
NCA	-	no circuit available
NCA	-	non-call associated
NCA-TSC	-	non call associated temporary signaling connection
NCAT	-	non call associated temporary signaling connection

Table 2-9
Acronyms and Mnemonics (Continued)

NCATANOM	-	non call associated temporary signaling connection anomaly
NCATSC	-	non call associated temporary signaling connection
NCD	-	network call denial
NCG	-	noncorrecting
NCLK	-	network clock
NCP	-	network control point
NCSU	-	network clock synchronization unit
NDB	-	number services routing data block
NE	-	near end
NEIPAV	-	non-emergency initial address message (IAM) message transfer part (MTP) American National Standards Institute (ANSI) priority level value
NEMOS	-	network management operations support system
NEOTR	-	near operational test
NESAC	-	national electronic switching assistance center
NET	-	network
NETCLK	-	network clock
NI	-	network interconnect
NIS	-	network implementation services
NIU	-	network interface unit
NLK	-	unlinked
NM	-	network management
NMC	-	network management center
NMOC	-	network management center
NMSG	-	number of messages
NN1	-	national number part 1
NN1	-	national number, first part
NN2	-	national number part 2
NN2	-	national number, second part
NNDR	-	node to node data register
NOC	-	network operation center
NOCTS	-	no clear to send
NORM	-	normal
NP	-	non preferred
NPA	-	numbering plan area
NPAG	-	numbering plan area announcement group
NPANXX	-	numbering plan area and exchange number
NPARINH	-	numbering plan area reconstruction inhibit
NPT	-	numbering plan type
NPTA	-	number pooling target architecture
NRN	-	network routing number
NRNDB	-	network routing and numbering database
NS800	-	number services 800
NSCX	-	network services complex
NSD	-	no start dial

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Table 2-9
Acronyms and Mnemonics (Continued)

NSN	-	national switch number
NSN	-	network switch number
NSNAME	-	network switch name
NTC	-	national trunk congestion
NTPI	-	non trunk program index
NTR	-	no tests run
NTR	-	number of trunks reserved
NUMPL	-	numbering plan
NVID	-	national vendor identification
NVIDN	-	national vendor identification number
NWDS	-	number of words
NWM	-	network management
NX	-	exchange
NXX	-	exchange number
NXX	-	office code
O	-	output
O/S	-	out of service
OA	-	office alarm
OA & M	-	operations administration & maintenance
OAS	-	originating AT&T switch
OBAT	-	operator bridge access interoffice trunk circuit
OBO	-	output buffer overflow
OC	-	on condition
OCTCP	-	originating carrier and terminating country pair
ODA	-	office data
ODA	-	office data(base) assembler
OFC	-	office
OGT	-	outgoing trunk
OLCIG	-	originating local call intercept group
OLCIGI	-	originating local call intercept group index
OLI	-	originating line identity
OLI	-	originating line information
OLIN	-	off line program
OLIN	-	off line status
OM	-	output message
OMR	-	output message register
ONAC	-	operational network administration center
ONI	-	operator number identification
ONPA	-	originating numbering plan area
OOC	-	out of chain
OOF	-	out of frame
OOFC	-	originating office code
OOS	-	out of service

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Table 2-9
Acronyms and Mnemonics (Continued)

OOSI	-	out of service ignore
OP	-	operator
OPC	-	originating point code
OPER	-	operational
OPER	-	operator
OPR	-	operational
ORIG	-	origination
ORNU	-	order number
OS	-	out of service
OSC	-	outgoing signaling characteristic
OSCSI	-	overflow circuit selection capability index
OSDATA	-	on site data
OSDNK	-	global software defined network key customer
OSN	-	operations support network
OSOR	-	on site operations report
OSPS	-	operator service position system
OSPSID	-	operator service position system identification
OSS	-	operating support system
OTAN	-	octal trunk appearance number
OTC	-	outgoing traffic counter
OTMTN	-	operational terminating test number
OTMTT	-	operational terminating test type
OTSTN	-	operational through switch test number
OTSTT	-	operational through switch test type
OUTWATS	-	outward wide area telephone service
OVLD	-	overload
OVRD	-	override
OW	-	output word
OWATS	-	outgoing wide area telephone service
P	-	preferred
PABORT	-	protocol abort
PALL	-	print all
PAS	-	public announcement
PAS	-	public announcement service
PAS	-	public announcement system
PATLP	-	pattern analysis trouble location procedure
PAV	-	preassigned account value
PBC	-	peripheral bus computer
PBFR	-	peripheral bus fault recognition
PBX	-	private branch exchange
PBXAW	-	private branch exchange answer withheld
PBXESGD	-	private branch exchange expect station group
PC	-	peripheral controller

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Table 2-9
Acronyms and Mnemonics (Continued)

PC	-	processor configuration
PC	-	program control
PCC	-	per call control
PCCD	-	pseudo country code
PCD	-	power control distribution
PCD	-	power conversion and distributing
PCF	-	point code format
PCM	-	pulse code modulation
PCP	-	positive call processing
PCRV	-	processor configuration recovery
PCS	-	power control switch
PC	-	point code
PDA	-	parameter data
PDG	-	poll digit
PDS	-	page descriptor shell
PDS	-	program documentation standard
PECC	-	program engineering control center
PEST	-	programmable error source trigger
PGM	-	program
PHF	-	path hunt failure
PHP	-	poll high priority
PIC	-	peripheral interface controller
PIC	-	priority interrupt controller
PID	-	processor identification
PIR	-	port isolation register
PKG	-	package
PLP	-	poll low priority
PLS	-	pulsed line signaling
PLU	-	positive look up
PM	-	performance monitoring
PMD	-	point of maximum definition
PMJ	-	power major
PMN	-	power minor
PMOS	-	peripheral maintenance operating system
PMOSTBLE	-	peripheral maintenance operating system stack tables
PNLCT	-	prohibit no-loopback continuity check test
PNT	-	print
PNT	-	print no test
POTS	-	plain old telephone service
PP	-	port processor
PP	-	processor peripheral
PPI	-	processor peripheral interface
PPM	-	periodic pulse metering
PREF	-	preference

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Table 2-9
Acronyms and Mnemonics (Continued)

PRI	-	presentation restriction indicator
PRI	-	primary rate interface
PRIM	-	prime
PRL	-	P-register - lower
PRM	-	P-register - upper
PROTOERROR	-	protocol error
PRRT	-	primary round-robin routing table
PRT	-	proportional routing
PRT	-	proportional routing type
PRTI	-	partition
PS	-	program store
PS	-	protection switch
PSATP	-	prohibit sending all tests pass information
PSB	-	program store bus
PSBN	-	prohibit sending billing number
PSC	-	protection switch client
PSCCBCO	-	protection switch client control bus cutoff
PSCPCMCO	-	protection switch client pulse code modulated cutoff
PSCPCMCO	-	protection switch client pulse code modulation cutoff
PSCPEST	-	protection switch client error pest
PSCPN	-	prohibit sending calling party number
PSES	-	prohibit service evaluation
PSFRID	-	program store identification
PSFRTR	-	program store test results
PSMO	-	permanent segmentation directory mode of operation
PSN	-	previously stored number
PSN	-	protection switch
PSOLI	-	prohibit sending originating line identity information
PSPC	-	primary signaling point code
PSS	-	program store secure
PSS	-	program store semi conductor
PSS	-	program support system
PSTN	-	public switched telephone network
PSUUI	-	prohibit sending user to user information
PSW	-	processor status word
PSW	-	protection switch
PSZ	-	poll seizure
PTSRPS	-	P-bit trunk status rate pointer store
PTSS	-	P-bit trunk status store
PU	-	peripheral unit
PUAB	-	peripheral unit answer bus
PUB	-	peripheral unit bus
PUC	-	peripheral unit controller
PUCF	-	peripheral unit controller frame

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Table 2-9
Acronyms and Mnemonics (Continued)

PUEX	-	peripheral unit exercise
PUF	-	peripheral unit failure
PULP	-	peripheral utility program
PWR	-	power
PWRMON	-	power monitor
QPF	-	query processing function
QRDS	-	quantum routing data system
QRYTYPE	-	question being asked
QTFN	-	quantity of traffic numbers
QTFN	-	quantity traffic numbers
QTRK	-	quantity of consecutive trunks
RA	-	recorded announcement
RA	-	route advance
RACF	-	recorded announcement channel frame
RACHAN	-	recorded announcement channel
RAM	-	random access memory
RBA	-	recent change rollback
RC	-	recent change
RCAS	-	recent change administration system
RCFORM	-	recent change form
RCMA	-	recent change memory administration
RCMP	-	recent change message processing
RCMU	-	recent change message update
RCNHIST	-	recent history
RCRB	-	recent change rollback
RCS	-	routine class schedule
RCUERR	-	automatic call unit failure
RCV	-	receiver
RCV	-	recent change verify
RCVD	-	received
RCVR	-	receiver
RDB	-	routing data block
RDBFHT	-	routing data block final handling treatment
RDBI	-	routing data block index
RDC	-	red special circuit
REACH	-	remote adjunct call handling
REC	-	receive
REG	-	register
REG	-	regular
RES	-	reserved
REV	-	reverse
REX	-	routine exercise

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Table 2-9
Acronyms and Mnemonics (Continued)

RFA	-	ring forward allowed
RFE	-	removed far end
RFMP	-	ring forward miscellaneous
RLG	-	release guard
RLS	-	release
RMA	-	remote
RMA	-	remote alarm
RMSD	-	remote measurement system digital
RMRT	-	round trip delay time
RMT	-	remote terminal output
RNE	-	removed near end
RNSN	-	routing network switch number
RO	-	read only
ROM	-	read only memory
ROP	-	read only printer
ROS	-	request out of service
ROTL	-	remote office test line
RPI	-	routing pattern identity
RPI	-	routing pattern index
RR	-	recording register
RRM	-	routing request message
RSA	-	remote subframe alarm
RSF	-	ring service failure
RSFHT	-	route selection index final handling treatment
RSI	-	route selection index
RSIDF	-	route selection index default
RSM	-	reset status memory
RST	-	restore
RSW	-	receiver seems well
RT	-	ringing and tone
RT	-	ringing and tone plant
RTNG	-	routing
RTNR	-	real time network routing
RTSI	-	receive time slot interchange
RTSM	-	receive time slot memory
RUAS	-	remote utility active system
RW	-	read / write
SA	-	switched access
SADC	-	service access data channel
SADC	-	special access data channel
SADC	-	system audit of disks
SADK	-	system audit disk
SAFER	-	split access flexible egress routing

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Table 2-9
Acronyms and Mnemonics (Continued)

SAMCNT	-	sample count
SAPN	-	slave application number
SAS	-	stop and switch
SAST	-	system audit of stores from tape system audit of stores using tape
SAST	-	system audit of stores using tape
SAST	-	tape audit
SAT	-	satellite
SAWS	-	system audit of writable stores
SAWS	-	writable store audit program
SAWSFILE	-	system audit and writable stores audit file
SBY	-	stand by
SC	-	system clock
SCA	-	save current address register
SCA	-	see current address
SCAB	-	scanner answer bus
SCAR	-	stable call accumulation register
SCC	-	service circuit center
SCC	-	service circuit controller
SCC	-	switching control center
SCCP	-	signaling connection control part
SCCS	-	source code control system
SCCS	-	switching control center system
SCFR	-	system clock critical register
SCG	-	sub-category
SCGA	-	software carrier group alarm
SCINS	-	selective clear interrupt source register
SCLK	-	system clock
SCP	-	scan matrix pack
SCP	-	service circuit pack
SCP	-	service control point
SCP	-	signaling control point
SCS	-	service circuit system
SCU	-	service circuit unit
SCUFS	-	scanner control unit failure summary
SD	-	scan and signal distributor
SD	-	schematic drawing
SD	-	segmentation directory
SD	-	signal distributor
SDA	-	saved data address
SDC	-	service degrading condition
SDF	-	shared directory function
SDFR	-	scan and signal distributor fault recovery
SDI	-	switched digital international
SDINDEX	-	subsequent digit routing index

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Table 2-9
Acronyms and Mnemonics (Continued)

SDM	-	signal distributor matrix
SDM	-	space division module
SDN	-	software defined network
SDN	-	switched digital network
SDNA	-	software defined network access
SDNK	-	software defined network key customer
SDP	-	signal distributor applique pack
SDS	-	switch digital service
SDS	-	switched digital services
SDX	-	subsequent digit
SDX	-	subsequent digit index
SEC	-	services echo canceller
SED	-	severely errored seconds daily
SEF	-	severely errored frame
SEGINIT	-	segment initialization
SERPF	-	serial parity failure
SES	-	severely errored second
SF	-	superframing
SFI	-	switch fabric interface
SFN	-	source file number
SGD	-	semi global data
SHDWMBPTR	-	shadow maintenance buffer pointer
SI	-	screening indicator
SI	-	service identity
SIAQ	-	send info analyzed query
SIC	-	service indicator code
SIC	-	software integrity control
SICO	-	software integrity control program
SICO	-	switch / system integrity controller
SICQ	-	send info collected query
SID	-	service identification
SIGLK	-	signaling link
SII	-	service identity index
SIINAME	-	service identity index name
SIM	-	system integrity monitor
SIMB	-	system integrity monitor on base level
SIMRTSTS	-	software integrity monitor program tests
SINDEX	-	access charge verification sampling rate index
SINT	-	supplementary interrupt
SKPBY	-	skip busy
SKPBY	-	skip, busy
SL	-	signaling link
SLC	-	signaling link complement
SLK	-	signaling link

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Table 2-9
Acronyms and Mnemonics (Continued)

SLKN	-	signaling link number
SMCC	-	switching maintenance control complex
SMO	-	segmentation directory mode of operation
SO	-	switching office
SOI	-	start of input
SP	-	scan point
SP	-	service processor
SP	-	signal processor
SP	-	signaling processor
SP	-	summary process
SPA	-	spare A
SPB	-	spare B
SPC	-	signal processor echo canceler
SPC	-	signaling and permuting circuit
SPC	-	signaling point code
SPC	-	switching and permuting controller
SPC	-	switching and permuting circuit
SPC0	-	signal processing controller 0
SPCS	-	stored program control system
SPESR	-	signal processor error source register
SPF	-	signal processor failure
SPIR	-	signaling processor internal register
SPR	-	spare EasyReach®
SPS	-	signal processing system
SPSI	-	service processor service identity
SPSTS	-	signal processor state translator store
SPTSS	-	signal processor trunk status store
SPU	-	signal processor unit
SPU	-	signal processing unit
SPUCTL	-	signal processing unit controller
SPUESR	-	signal processing unit error source register
SPUEXR	-	signal processing unit exercise register
SPUSTAT	-	signal processing unit hardware status
SPUSTATUS	-	signal processing unit software status
SR	-	system recovery
SR	-	system reinitialization
SREC	-	secondary record
SREC1	-	secondary record channel
SRES	-	search results
SRES	-	search results number
SRI	-	supplemental routing information
SRVC	-	service
SSD	-	scan and signal distributor
SSN	-	subsystem network

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Table 2-9
Acronyms and Mnemonics (Continued)

SSN	-	subsystem number
SSN	-	survivable signaling network
SSP	-	service switch point
SSP	-	service switching point
SSPC	-	secondary signaling point code
SSS	-	switch identification
SSSG	-	action point numbering plan announcement group
SST	-	signaling service type
SSTS	-	service test system
ST	-	service test
ST	-	state
ST1	-	subsequent digit index type
ST2	-	subsequent digit index type
STAT	-	status
STATR	-	status register
STC	-	single trunk customer
STD	-	standard
STDP	-	standard plus
STF	-	some tests failed
STF-BOF	-	some test failed and buffer overflowed
STP	-	signaling transfer point
STP	-	some tests passed
STS	-	service test system
SU	-	signal unit
SU	-	switch unit
SUAP	-	system not attached processor system
SUB HT	-	sub-headtable
SUBT	-	synchronized unsupervised burst tone
SUPL	-	system update library program
SUTMN	-	subunit type & member number
SVC	-	service circuit
SVCT	-	service circuit test
SVCT	-	service circuit type
SVOGT	-	outgoing trunk state vector
SVR	-	select verify
SW	-	switch
SXS	-	step by step
SYM	-	symbol
SYN	-	synchronous
SYNC	-	synchronous
SYSRCONT	-	system recovery control
SYSRCSPS	-	system recovery call store program store
SYUP	-	system update
SYUP	-	system update program

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Table 2-9
Acronyms and Mnemonics (Continued)

T&L	-	terminate and leave
TAC	-	terminal access circuit
TAC	-	terminal access controller
TAG	-	trunk assignment generation
TAN	-	trunk appearance number
TANTOTAN	-	trunk appearance number to trunk appearance number
TAR	-	transition address register
TAS	-	tape administration system
TASI	-	time assignment speech interpolation
TASI-E-DLC	-	time assigned speech interpolation - E - dynamic load control
TASKID	-	task identification
TAT	-	test access trunk
TAT	-	trunk access test
TB	-	traffic buffer
TB	-	transaction block
TB	-	trouble bit
TBMN	-	trunk block member number
TBN	-	trunk block number
TBN	-	true billing number
TBS	-	trunk block status
TC	-	transport capability
TCA	-	telephone company administration
TCA	-	test control area
TCA	-	trunk control area
TCAP	-	transaction capability application part
TCB	-	task control block
TCM	-	traveling class mark
TDA	-	translation data
TDA	-	translation data assembler
TDAS	-	traffic data administration system
TDASMC	-	traffic data administration system measurement class
TDCU	-	traffic data collection unit
TDCU	-	traffic data concentrator unit
TDEST	-	type of destination
TDIU	-	type of digital interface unit
TDN	-	time division network
TDN	-	trunk distributor number
TEC	-	terminal equipment center
TEC	-	test equipment control terminal process
TER	-	terminal
TER	-	terminal echo receiver
TERA	-	trunk error analysis
TERAWTSG	-	trunk error analysis worst trunk subgroup
TERM	-	terminal

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Table 2-9
Acronyms and Mnemonics (Continued)

TESTNO	-	test number
TFA	-	traffic allowed
TFAI	-	termination foreign administration identity
TFG	-	type of feature group
TFN	-	traffic number
TFNB	-	traffic number block
TFP	-	transfer prohibited
TFREE	-	tollfree
TG	-	trunk group
TGR	-	terminal grouping
TGRF	-	terminal grouping frame
TIC	-	translation integrity check
TID	-	transaction identification
TKMTC	-	trunk maintenance
TL	-	terminate and leave
TLCIG	-	terminating local call intercept group
TLDB	-	trouble location data base
TLP	-	trouble location procedure
TLPFILE	-	trouble location procedure file
TLPQUEUE	-	trouble location procedure disk queue
TLPSUM	-	trouble location procedure summary
TLTP	-	trunk and line test position
TMR	-	trunk maintenance register
TMS	-	time multiplexed switch
TMSCR	-	time multiplex switch critical register
TMSP	-	time multiplexed switch pair
TN	-	terminating notification
TNPA	-	terminating numbering plan area
TNR	-	transmit negative rail
TNR	-	transmitted noise reduction
TM	-	trunk maintenance
TNS	-	transit network selection
TNUP	-	trunk used for large scale nailup
TOB	-	total office blocking
TOB1	-	total office blocking rate 1
TOB2	-	total office blocking rate 2
TOC	-	trunk operations center
TOC	-	trunk order code
TOD	-	time of day
TOFC	-	terminating office code
TOP	-	task oriented practices
TOPAS	-	testing operations provisioning administrative system
TOPIC	-	toll peripheral configuration program
TORIG	-	type of origin

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Table 2-9
Acronyms and Mnemonics (Continued)

TOS	-	trunk out of service
TOS	-	type of service
TOT	-	type of trunk
TP	-	test position
TPAD	-	tape paging administration
TPC	-	transport capability
TPI	-	trunk program index
TPM	-	traffic and plant measurement
TPM	-	traffic plant measurement
TPOS	-	test position
TPT	-	test progress tone
TQU	-	trunk query
TR	-	trunk register
TRAM	-	table random access memory
TRANS	-	file system transient data
TRANSP	-	transparent
TRAPN	-	trap number
TRC	-	timed routine coordinator
TRF	-	traffic
TRIDX	-	trunk reservation index
TRK	-	trunk
TRNUM	-	trouble report number
TRPF	-	transmit parity failure
TSAA	-	terminating switch access arrangement
TSC	-	technical service capability
TSF	-	total signal failure
TSG	-	trunk subgroup
TSGBBC	-	trunk subgroup broadband capability
TSGHC	-	trunk subgroup head call
TSGHC	-	trunk subgroup head cell
TSGHS	-	trunk subgroup headcell trunk status
TSGN	-	trunk subgroup number
TSGSTAT	-	trunk subgroup status
TSI	-	time slot interchange
TSICR	-	time slot interchange frame critical registers
TSICR	-	time slot interchange register
TSICTL	-	time slot interchange control
TSIEXR0	-	time slot interchange exercise register 0
TSIEXR1	-	time slot interchange exercise register 1
TSIF	-	time slot interchange frame
TSIMEMN	-	time slot interchange member number
TSM	-	time slot memory
TSMEM	-	trunk status memory
TSN	-	trunk scanner number

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Table 2-9
Acronyms and Mnemonics (Continued)

TSN-TBN	-	trunk scanner number - trunk block number
TWRP	-	tape write / read program
TSPS	-	traffic service position system
TSS	-	trunk status store
TST	-	test (verb)
TST	-	timed strategy
TST	-	trunk scanner tag
TSTADR	-	test address
TSTPAT	-	test pattern
TSW	-	transmitter seems well
TSW	-	trunk scanner word
TSW	-	trunk status word
TTF	-	toll terminal frame
TTF	-	toll termination frame
TTS	-	terminating toll switch
TTSI	-	terminating toll switch index
TTSI	-	transit time slot interchange
TTSM	-	transmit time slot memory
TTSNAME	-	terminating toll switch name
TTY	-	teletypewriter
TU	-	tape unit
TU	-	trunk unit
TUC	-	tape unit controller
TUP	-	telephone user part
TURNUPC	-	turn up for control office trunk
TURNUPN	-	turn up for noncontrol office trunk
TUT	-	trunk under test
TV	-	AT&T TrueVoice®
TVMASTR	-	televote master
TWRP	-	tape writing program
U	-	union
UABORT	-	user abort
UAD	-	unavailable seconds daily
UAS	-	unavailable second
UAS	-	utility active system
UAV	-	unavailable
UCB	-	unit control block
UCL	-	unconditional
UDS	-	unit data service
UFH	-	use final handling
UGTT	-	universal global title translation
UIFN	-	universal international freephone number
UMEM	-	utility memory

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Table 2-9
Acronyms and Mnemonics (Continued)

UMEM	-	utility scratch memory
UMEM	-	utility scratch memory indicator
UNA	-	unassigned
UNAS	-	unassigned
UNITNO	-	unit number
UNLBUF	-	unload buffer
UPA	-	upper protect address
UPAD	-	utility paging administration
UPD	-	update
UPRG	-	update disk address progress word
US	-	utility system
USDS	-	universal subscriber data structure
USDST	-	universal subscriber data structure timer
USEC	-	universal services echo canceller
USN	-	U-Store number
USN	-	universal scanner number
USTATUS	-	unit status
USTATUS	-	unit status register
UT	-	unit type
UTILDS	-	utility data set
UTL	-	utilities
UTMN	-	unit type and member number
UTMEM	-	unit type member number
UTYN	-	unit type name
UTYP	-	unit type
UUD	-	user to user data message
UUI	-	user to user information
VALKEY	-	validation key
VCA	-	vacant code announcement
VCFR	-	voiceband interface fault recovery
VCNT	-	vacant code analysis
VCR	-	voice path assurance cancellation rate
VDCAP	-	voice / data capability
VF	-	voice frequency
VFL	-	voice frequency link
VIC	-	voice interface controller
VIC	-	voiceband interface controller
VIF	-	voiceband interface frame
VIFCR	-	voiceband interface frame critical register
VIU	-	voiceband interface unit
VMOC	-	voice message operations center
VPA	-	voice path assurance
VSN	-	volume serial number

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Table 2-9
Acronyms and Mnemonics (Continued)

VSS	-	voice storage system
VSSID	-	voice storage system identification
VT	-	virtual terminal
VT	-	virtual trunk
VTENG	-	virtual terminal engineered
VTP	-	virtual terminal protocol
W	-	write
WANISID	-	wide area telephone service automatic number identification / service identification
WATS	-	wide area telecommunications service
WATS	-	wide area telephone service
WATSBN	-	wide area telephone service billing number
WPS	-	words per second
WTT	-	work task table
WZ1	-	world zone
XA	-	extended access
XADR	-	extended address
XAPP	-	access and print program
XC	-	transceiver
XCPA	-	transceiver pad adjustment
XCVR	-	transceiver
XL4DRTC	-	data rate transport capability
XM	-	expanded memory
XMT	-	transmit
XMTR	-	transmitter
XPFR	-	auxiliary processor fault recovery
XPWR	-	miscellaneous power
XS	-	extended non-secure call store
XSINDIR	-	extended non-secure call store indirectness
XTC	-	expanded time slot interchange controller
XTMTN	-	transmission terminating test number
XTMTT	-	transmission terminating test type
XTSI	-	expanded time slot interchange
XTSTN	-	transmission through switch test number
XTSTT	-	transmission through switch test type
ZZ	-	equal access digits

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SECTION 3

INPUT MESSAGE INDEXES

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SECTION 3

INDEXES

3.1 INTRODUCTION

This section contains three types of indexes: topical, functional, and alphabetical. The topical index groups the 4ESS™ input message IDs in terms of the units and functions to which they apply. The functional index has a parallel structure, with the addition of a brief description of the message function. Both may be used as a guide in selecting message descriptions from the alphabetized sequence of messages in *Part 2*. The alphabetical index lists the message names in alphabetical order and gives release information.

A list of the units and functions by which the messages are indexed follows.

Advanced Intelligent Network (AIN)
Alarms
Alternate Signaling Transport Network (ASTN)
Attached Processor System (APS)
Audits
Auxiliary Data System (ADS)
Auxiliary Unit Interface (AUI)
Buses
Call Irregularities (TRAPs)
Call Processing
Call Store (CS)
CAMA / AMA
Central Control (CC)
Centralized Automatic Trouble Locating and Analysis System (CATLAS)
Circuit Maintenance System 1A (CMS1A)
Common Channel Interoffice Signaling (CCIS)
Common Network Interface Ring
Common Platform Adjunct (CPA)
Digital Interface Frame (DIF)
Digroup Terminal (DT) and Digroup Terminal Unit (DTU)
Duplex Fail (DF)
Echo Suppressor Terminal (EST)
End-To-End Class of Service (ECOS)
Error Analysis Program (ERAP)
Fan System (FNS)
File System (FS)
Generic Utility Program (GULP)
Government Emergency Telecommunications Service (GETS)
Individual Per Call Control (IPCC)
Input / Output (I / O) Devices
Input / Output (I / O) Frame
Interface Bus (IFB)
International Call Detailed Recording (ICDR)
Interrupts / Interjects
Library System (LIBSYS)
Maintenance Control
Maintenance Control Complex (MCC), Processor-Peripheral Interface (PPI)
Mass Announcement System (MAS)
Master Control Complex and Utility Processor (MUP)
Measurements (Plant, Traffic, Usage)
Miscellaneous Power (XPWR)
Network Clock (NCLK), System Clock (SCLK), Clock (CLK)
Network Management (NWM)
Office Data (ODA)
Peripheral Maintenance Operating System (PMOS)

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Peripheral Utility Program
(PULP)
Pests
Phases and System Recovery (SR)
Power, Ringing and Tone (RT)
Program Store (PS), Program
Store Bus (PSB)
Recent Change (RC)
Recorded Announcement (RA)
Scan and Signal Distributor
(SSD) Points
Segmentation Directory (SD)
Service Circuit System (SCS)
Signal Processor (SP)
Stream Exerciser (STRMEX)
Survivable Signaling Network (SSN)
Switch Fabric Interface (SFI)
Tape Administration System (TAS)
Test Calls
Test Position (TP)
Time Assignment Speech
Interpolation (TASI) Frame
Time Multiplexed Switch Pair (TMSP)
Time Slot Interchange (TSI)
Trouble Locating Procedure (TLP)
Trunks (TRKs)
Update
Vacant Code Analysis (VCNT)
Voiceband Interface Frame (VIF)
Non-Secure Call Store (XS)
Expanded Time Slot Interchange (XTSI)

The messages are presented in alphabetical order within each topic.

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3.2 TOPICAL INDEX

Unit or Function	Input Message IDs
ADVANCED INTELLIGENT NETWORK (AIN)	VER:AIN-LIST
ALARMS	CFR:ALMGRP IN:CGALIST INIT:ALM OP:ALMSTAT OP:CGASTAT OP:OA RTE:ALM RTR:ALM SET:CGACNTL STOP:CFR-ALMGR STOP:RTE-ALM
ATTACHED PROCESSOR SYSTEM (APS)	ALW:APMSG ALW:APS APMSG:0 CLR:APS DGN:API EX:API INH:APMSG INH:APS OP:APSTATUS RMV:API RST:API SW:APS TEST:API UPD:COMMIT
AUDITS	ALW:AUD ALW:AUDMSG ALW:ERAP AUD:ERAPDATA AUD:GEN AUD:NUM AUD:NWM

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Unit or Function	Input Message IDs
AUDITS	AUD:ODA AUD:PUSTAT AUD:TPM CLR:SAWSLOCK INH:AUD INH:AUDMSG OP:AUDSTAT SET:AUD SET:SAWSLOCK STOP:AUD STOP:OVRWRT
AUXILIARY DATA SYSTEM (ADS)	ALW:TDAS ALW:TUC CLR:ADSFUNC DGN:AUB DUMP:TAPE EX:AUB INH:TUC OP:DUSTATUS RMV:AUB RST:AUB SET:TUC TEST:AUB TEST:DUS
AUXILIARY UNIT INTERFACE (AUI)	DGN:AUI EX:AUI RMV:AUI RST:AUI SW:AUI TEST:AUI
BUSES	DGN:AUB DGN:CSB DGN:PUB-RPT EX:AUB EX:CSB EX:PSB EX:PUB RMV:AUB RMV:CSB

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Unit or Function	Input Message IDs
	RMV:PSB
	RMV:PUB
	RST:AUB
	RST:CSB
	RST:PSB
	RST:PUB
	STOP:EX
	SW:PUB
	TEST:PUB
CALL IRREGULARITIES (TRAPs)	ALW:IAOFC
	ALW:IATSG
	ALW:IATSGCNT
	ALW:NCATANOM
	CLR:IAOFC
	INH:IAOFC
	INH:IATSG
	INH:IATSGCNT
	INH:NCATANOM
	MON:CCISTRAP
	MON:IAOFC
	MON:IAOFCNT
	MON:IATSG
	MON:IATSGCNT
	MON:NCATANOM
	OP:FHCSTAT
	OP:IAOFC
	OP:IAOFCNT
	OP:IATSG
	OP:IATSGCNT
	OP:NCATANOM
	STOP:MON-CCIST
	STOP:MON-IAOFC
CALL IRREGULARITIES (TRAPs)	STOP:MON-IAOFCNT
	STOP:MON-IATSG
	STOP:MON-IATS
	STOP:MON-NCATANOM
CALL PROCESSING	OP:BANDSTAT
	OP:DCONN
	OP:SCRN
	OP:SDEXMLST

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Unit or Function	Input Message IDs
	OP:SDLST
	SET:BANDSTAT
	SET:SDSTAT
	STOP:OP-SCRN
	VER:CCDADC
	VER:CCDCONV
	VER:CODEGRP
	VER:CODEGRP-EAR
	VER:CODEGRP-MCTI
	VER:CODEGRP-MRTI
	VER:CODEGRP-TYPE
	VER:CODELIST
	VER:DNHRMISC
	VER:EA-SII
	VER:MEMORY
	VER:NAILUP
	VER:PCP-NPASPLIT
	VER:PCP-SCTABLE
	VER:PCP-TTSII
	VER:RDB
	VER:RDBLIST
	VER:RTGLIST
	VER:RTNR-CIN
	VER:RTNR-ISW
	VER:RTNR-MSI
	VER:RTNR-NSN
	VER:RTNR-RNSN
	VER:RTNR-RPI
	VER:RTNR-SII
	VER:RTNR-SIILIST
	VER:RTNR-TORIG
	VER:TRK
	VER:TRK-LACID-SR
CALL PROCESSING	VER:TRKNAME
	VER:TSG
	VER:TSGLIST
	VER:VFUNC
	VER:VFUNC-STAT

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Unit or Function	Input Message IDs
CALL STORE (CS)	ALW:WPAD COPY:CS COPY:CSS COPY:PSS DGN:CS DGN:CSB DUMP:CS DUMP:CSS DUMP:FS DUMP:PSS EX:CS EX:CSB INH:WPAD INIT:PUEXINIT LOAD:CS LOAD:CSS LOAD:PSS OP:CSSTATUS RMV:CS RMV:CS-MCODE RMV:CSB RST:CS RST:CSB SET:CS SET:SOAK STOP:EX
CAMA/AMA	ALW:CAMAONI INH:CAMAONI SET:CAMATRFS SW:AMA VER:AMA VER:CAMASCRN
CENTRAL CONTROL (CC)	CLR:CCECTRS DGN:CC
CENTRAL CONTROL (CC)	DUMP:CC DUMP:REG EX:CC LOAD:REG OP:CCSTATUS

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Unit or Function	Input Message IDs
	OP:SOAK RMV:CC RST:CC SET:SOAK STOP:EX SW:CC TEST:CC
CENTRALIZED AUTOMATIC TROUBLE LOCATING AND ANALYSIS SYSTEM (CATLAS)	ALW:CATLAS INH:CATLAS
CIRCUIT MAINTENANCE SYSTEM 1A (CMS1A)	EX:CMSLINK
COMMON CHANNEL INTEROFFICE SIGNALING (CCIS)	ALW:TGR CFR:SIGLK DGN:TGR DUMP:TGR-CREG DUMP:TGR-IREG DUMP:TGR-MEM EX:TGR MON:SUTRAP OP:BANDSTAT OP:SLCSTAT OP:SLKSTAT OP:SVCSTAT RMV:SIGLK RMV:TGR RST:SIGLK RST:TGR STOP:MON-SUTRA SW:TGR TEST:DSIG TEST:SIGLK TEST:TCAPAIN

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Unit or Function	Input Message IDs
COMMON NETWORK INTERFACE RING	ALW:RINGOVLD INH:RINGOVLD OP:RINGMNTR
COMMON PLATFORM ADJUNCT (CPA)	VER:CPA-ALA VER:CPA-C-OR VER:CPA-DATA VER:CPA-DNUM VER:CPA-RDBLIST
DIGITAL INTERFACE FRAME (DIF)	ALW:DIF ALW:SDUREPT DGN:DIF DUMP:DIF DUMP:DIF-BUF DUMP:DIF-CREG DUMP:DIF-DIU DUMP:DIF-EXCRAM DUMP:DIF-IREG DUMP:DIF-MAPRT DUMP:DIF-MEM DUMP:DIF-PTSRPS DUMP:DIF-PTSS DUMP:DIF-SPSTS DUMP:DIF-SPTSS DUMP:DIF-TBIT EX:DIF INH:DIF INH:SDUREPT LOAD:DIF-BUF LOAD:DIF-CREG LOAD:DIF-EXCRAM LOAD:DIF-IREG LOAD:DIF-MAPRT LOAD:DIF-MEM LOAD:DIF-PTSRPS LOAD:DIF-PTSS LOAD:DIF-SPSTS LOAD:DIF-SPTSS LOAD:DIF-TBIT LOAD:DIF-USN

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Unit or Function	Input Message IDs
DIGITAL INTERFACE FRAME (DIF)	RMV:DIF RST:DIF STOP:EX SW:DIF
DIGROUP TERMINAL (DT) AND DIGROUP TERMINAL UNIT (DTU)	ALW:DGRPT ALW:DGSTAT ALW:DT ALW:SDUREPT ANALY:DIGROUP DGN:DT DUMP:DT-CREG DUMP:DT-IREG EX:DT INH:DGRPT INH:DGSTAT INH:DT INH:SDUREPT INIT:DGSTAT MON:DGSTAT OP:DGSTAT OP:SYNCLIST RMV:DT RST:DT SET:DIGROUP STOP:ANALY-DIG STOP:EX STOP:MON-DGSTT STOP:OP-DGSTA
DUPLEX FAIL (DF)	ALW:TAPEXLAT INH:TAPEXLAT INIT:DFSTAT
ECHO SUPPRESSOR TERMINAL (EST)	ALW:EST ALW:SDUREPT DGN:EST DUMP:EST-CREG DUMP:EST-ESU DUMP:EST-MEM DUMP:EST-TSMEM

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Unit or Function	Input Message IDs
ECHO SUPPRESSOR TERMINAL (EST)	EX:EST INH:EST INH:SDUREPT LOAD:EST-CREG LOAD:EST-ESU LOAD:EST-LLMEM ORD:ES RMV:EST RST:EST STOP:EX
END-TO-END CLASS OF SERVICE (ECOS)	RMV:ECOSCTLS VER:ECOS
ERROR ANALYSIS PROGRAM (ERAP)	ALW:ERAP AUD:ERAPDATA CLR:ERAPCOND CLR:ERAPDATA CLR:ERAPSRES IN:ERAPCOND IN:ERAPDATA INH:ERAP INIT:FERAOVRD OP:ERAPCOND OP:ERAPDATA OP:ERAPSRES OP:ERAPSUM OP:TERAWTSG SET:TSGEAC STOP:OP-ERAP UPD:ERAP
FAN SYSTEM (FNS)	ALW:FNS CLR:FNS INH:FNS TEST:FNS
FILE SYSTEM (FS)	COPY:A1B COPY:FS DUMP:A1B DUMP:FS-ACT IF:A1B

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Unit or Function	Input Message IDs
FILE SYSTEM (FS)	LOAD:A1B STOP:EX UPD:FS-GEN
GENERIC UTILITY PROGRAM (GULP)	ALW:UTIL ALW:UTILMSG CLR:IDUMP CLR:UTIL CLR:UTILDS CLR:UTILFLG COPY:GEN-TAPE COPY:OWBUF COPY:TAPE DUMP:REG DUMP:TAPE DUMP:UMEM ELSE:0 EXC:UTILDS IF:CC IF:CS IF:CSS IF:PSS IF:REG IF:UMEM IN:OWBUF IN:UTILDS INH:UTIL INH:UTILMSG LOAD:REG LOAD:UMEM OP:UTILDS OP:UTILDS-LINE OP:UTILMTCH OP:UTLDSTAB STOP:IN-UTILDS STOP:OVRWRT UPD:HDATA UPD:UTILDS WHEN:ADR WHEN:XADR

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Unit or Function	Input Message IDs
GOVERNMENT EMERGENCY TELECOMMUNICATIONS SERVICE (GETS)	VER:MISC
INPUT/OUTPUT (I/O) DEVICES	ALW:LCHAN CLR:CHAN CLR:MSGRCD INH:LCHAN INIT:MSGCLS INIT:SCHAN MON:CHAN OP:CHAN OP:IODSC OP:LCHAN OP:MSGRCD OP:SCHAN RTE:CHAN RTE:MSGCLS STOP:MON-CHAN STOP:MSG STOP:OP-MSGRCD STOP:RTE-CHAN
INPUT/OUTPUT (I/O) FRAME	ALW:IOUS DGN:IOUS DUMP:IOUS EX:CMSLINK EX:IOUS INH:IOUS RMV:IOUS RST:IOUS STOP:EX
INTERFACE BUS (IFB)	CLR:IFBECTRS DGN:IFB EX:IFB OP:IFBSTAT RMV:IFB RST:IFB TEST:AUI TEST:IFB

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Unit or Function	Input Message IDs
INTERNATIONAL CALL DETAILED RECORDING (ICDR)	ALW:SDYGRP CLR:SDYGRP IN:SDYGRP INH:SDYGRP OP:SDYGRP UPD:CMAP VER:INTLCODE
INTERRUPTS/INTERJECTS	ALW:0 CLR:IDUMP INH:0 OP:INHINT
LIBRARY SYSTEM (LIBSYS)	ALW:LIBMSG AUD:LIBSYS DUMP:LIBSYS EX:LIBSYS IN:LIBSYS INH:LIBMSG INIT:LIBSYS LOAD:LIBSYS OP:LIBSTAT SET:LIBSYS STOP:EX STOP:LIBSYS UPD:LIBSYS
MAINTENANCE CONTROL	ALW:MACLI CLR:MACLI INH:MACLI OP:MACLI OP:OOSUNITS STOP:MACLI STOP:TEST-PUSY TEST:PUSYS
MAINTENANCE CONTROL COMPLEX (MCC), PROCESSOR-PERIPHERAL INTERFACE (PPI)	ALW:MCC OP:SDC ORD:MCCKEY SET:POKE STOP:EX STOP:MON-MCCRE

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Unit or Function	Input Message IDs
MASS ANNOUNCEMENT SYSTEM (MAS)	ALW:VSSID INH:VSSID INIT:TVMASTR OP:ANNSTAT OP:SECTORS ORD:VSS-RETRY RMV:TVMASTR RMV:VSSID SET:ANNSTAT SET:CONN STOP:EX VER:ANINDEX VER:DIALUP VER:PASANN VER:PASCTHRU VER:PASTVOTE VER:TFNB
MAINTENANCE CONTROL COMPLEX AND UTILITY PROCESSOR (MUP)	ALW:MUPAUD DGN:MUP DUMP:MUP EX:MUP INH:MUPAUD LOAD:MUP OP:MUPAUD OP:MUPSTAT RMV:MUP RST:MUP SET:SOAK STOP:MUPAUD SW:MUP TEST:MUP TEST:MUPAUD
MEASUREMENTS (PLANT, TRAFFIC, USAGE)	ALW:USGMEAS ALW:VERMSG AUD:TPM COPY:TAPE COPY:TPM INH:USGMEAS-TS INH:VERMSG OP:MEASREPT

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Unit or Function	Input Message IDs
MEASUREMENTS (PLANT, TRAFFIC, USAGE)	OP:MEASTSI SCHED:MEASREPT SCHED:TDASMC SCHED:TRKTEST STOP:VERMSG VER:MEASREPT
MISCELLANEOUS POWER (XPWR)	DGN:XPWR EX:XPWR OP:XPWRSTAT RMV:XPWR RST:XPWR
NETWORK CLOCK (NCLK), SYSTEM CLOCK (SCLK), CLOCK (CLK)	ALW:NCLK ALW:SCLK DGN:NCLK DGN:SCLK-NCSU DUMP:NCLK DUMP:SCLK DUMP:SCLK-NCSU EX:NCLK EX:SCLK INH:NCLK INH:SCLK LOAD:NCLK LOAD:SCLK-NCSU OP:CLK RMV:NCLK RMV:SCLK RST:NCLK RST:SCLK SET:CLK STOP:EX SW:SCLK
NETWORK MANAGEMENT (NWM)	AUD:NWM COPY:NWM COPY:TAPE INIT:NMDSYS
OFFICE DATA (ODA)	AUD:GEN AUD:NWM

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Unit or Function	Input Message IDs
OFFICE DATA (ODA)	AUD:ODA AUD:TPM COPY:GEN-TAPE COPY:NWM COPY:ODA COPY:TAPE UPD:ODA VER:ABSOLUTE VER:ADSLINK VER:AMACODE VER:CODEGRP VER:CODEGRP-EAR VER:CODEGRP-MCTI VER:CODEGRP-MRTI VER:CODEGRP-PRTI VER:CODEGRP-SDX VER:CODEGRP-SDXM VER:CODEGRP-SDXU VER:CODEGRP-TYPE VER:CODELIST VER:DESPLIST VER:DNHRMISC VER:DPC VER:EA-CID VER:EA-CONV-IIDI VER:EA-CONV-OLI VER:EA-FUNC VER:EA-IPPD VER:EA-NX VER:EA-OPPD VER:EA-SII VER:EA-ZZ VER:FEN VER:IDAM VER:IDAMLIST VER:INSPLIST VER:LATASTAT-ARE VER:LATASTAT-MAT VER:MEASREPT VER:MISC-FHTEASY VER:MISC-FHTIBNS VER:MEMORY

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Unit or Function	Input Message IDs
OFFICE DATA (ODA)	VER:NAILUP VER:NDB-NDBI VER:NDB-NDBLIST VER:NPADPC VER:OFFICE VER:PCP-NPASPLIT VER:PCP-SCTABLE VER:PCP-TTSII VER:RDB VER:RDBLIST VER:RTGLIST VER:RTNR-CIN VER:RTNR-ISW VER:RTNR-MSI VER:RTNR-NSN VER:RTNR-RNSN VER:RTNR-RPI VER:RTNR-SII VER:RTNR-SIILIST VER:RTNR-TORIG VER:SDLIST VER:SERVICE VER:TERMLIST VER:TOS VER:TRK VER:TRK-LACID-SR VER:TRKNAME VER:TSG VER:TSGLIST VER:TTS-TTSI VER:TTSLIST VER:UTYPE VER:VFUNC VER:VFUNC-STAT
PERIPHERAL MAINTENANCE OPERATING SYSTEM (PMOS)	INIT:PMOS INIT:PMOS-UTIL OP:PMOS

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Unit or Function	Input Message IDs
PERIPHERAL UTILITY PROGRAM (PULP)	DUMP:DT-CREG DUMP:DT-IREG DUMP:IOUS DUMP:NCLK DUMP:SP DUMP:SP-BUF DUMP:SP-CREG DUMP:SP-IREG DUMP:SP-MEM DUMP:TGR-CREG DUMP:TGR-IREG DUMP:TGR-MEM DUMP:TMSP-CONT DUMP:TMSP-CREG DUMP:TMSP-IREG DUMP:TSI-CREG DUMP:TSI-MEM DUMP:TSI-MEME DUMP:TSI-SPC DUMP:TSIMEM DUMP:VIF-CONTR DUMP:VIF-CREG DUMP:VIF-IREG LOAD:NCLK LOAD:SP-IREG LOAD:SP-MEM LOAD:TMSP-CREG LOAD:TMSP-MEM LOAD:TSI-CREG LOAD:TSI-MEM LOAD:VIF-ATA LOAD:VIF-DLFC0 LOAD:VIF-DLFC1 LOAD:VIF-DLFC2 LOAD:VIF-DMVIU LOAD:VIF-DTSE LOAD:VIF-EMVIU LOAD:VIF-ENICF LOAD:VIF-EPS LOAD:VIF-EQT LOAD:VIF-ESM

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Unit or Function	Input Message IDs
PERIPHERAL UTILITY PROGRAM (PULP)	LOAD:VIF-ETA
	LOAD:VIF-ETSE
	LOAD:VIF-EVICS
	LOAD:VIF-EVIUS
	LOAD:VIF-EX
	LOAD:VIF-EXOOF
	LOAD:VIF-EXSIM
	LOAD:VIF-EXVIC
	LOAD:VIF-FA
	LOAD:VIF-FB
	LOAD:VIF-GAF
	LOAD:VIF-GAS
	LOAD:VIF-GTF
	LOAD:VIF-GTS
	LOAD:VIF-INHIC
	LOAD:VIF-IPS
	LOAD:VIF-ISM
	LOAD:VIF-LAF
	LOAD:VIF-LAI
	LOAD:VIF-LAS
	LOAD:VIF-LBS
	LOAD:VIF-LFC0
	LOAD:VIF-LFC1
	LOAD:VIF-LFC2
	LOAD:VIF-LR
	LOAD:VIF-LRSM
	LOAD:VIF-LTF
	LOAD:VIF-LTI
	LOAD:VIF-LTS
	LOAD:VIF-RC
	LOAD:VIF-REFF
	LOAD:VIF-RESM
	LOAD:VIF-RESR
	LOAD:VIF-RMW
	LOAD:VIF-RSIEX
	LOAD:VIF-RSM
	LOAD:VIF-RTA
	LOAD:VIF-RVICX
	LOAD:VIF-SAF
	LOAD:VIF-SAS
	LOAD:VIF-SEFF0

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Unit or Function	Input Message IDs
PERIPHERAL UTILITY PROGRAM (PULP)	LOAD:VIF-SEFF1 LOAD:VIF-STF LOAD:VIF-STS LOAD:VIF-SVF0 LOAD:VIF-SVF1 LOAD:VIF-UFA LOAD:VIF-UFB LOAD:VIF-UGAF LOAD:VIF-UGAS LOAD:VIF-ULAF LOAD:VIF-ULAI LOAD:VIF-ULAS LOAD:VIF-ULBS LOAD:VIF-ULCSB LOAD:VIF-ULTF LOAD:VIF-ULTS LOAD:VIF-UPSW LOAD:VIF-URSM LOAD:VIF-USAF LOAD:VIF-USAS LOAD:VIF-UUSCB LOAD:VIF-VI LOAD:VIF-WRSM VER:GT
PESTS	ALW:DT ALW:EST ALW:SCLK ALW:SP ALW:TGR ALW:TMSP ALW:TSI ALW:VIF INH:DT INH:EST INH:SP INH:TGR INH:TMSP INH:TSI INH:VIF INIT:PERIFINH

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Unit or Function	Input Message IDs
PESTS	OP:INHINT OP:PERIFINH
PHASES AND SYSTEM RECOVERY (SR)	CLR:MSGRCD OP:MSGRCD OP:PHSEHST
POWER, RINGING AND TONE (RT)	DGN:PCD EX:PCD OP:RTSTAT OP:TONESTAT ORD:MW RMV:PCD RMV:TONE-MWF RST:PCD RST:TONE-MWF
PROGRAM STORE (PS), PROGRAM STORE BUS (PSB)	COPY:CS COPY:CSS COPY:PSS DGN:PS DGN:PSB DUMP:CS DUMP:CSS DUMP:FS DUMP:PSS EX:PS EX:PSB LOAD:CS LOAD:CSS LOAD:PSS OP:PSSTATUS RMV:PS RMV:PSB RMV:PS-MCODE RST:PS RST:PSB SET:PS STOP:EX

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Unit or Function	Input Message IDs
RECENT CHANGE (RC)	CLR:RCB OP:ORNU OP:RCBMSG OP:RCBORNU OP:RCBSPACE OP:RCFORM OP:RCRORNU RCACT:ORNU RCCNL:RCBORNU RCCNL:ROLLBACK RCTST:ORNU STOP:RCACT VER:ABSOLUTE VER:PCP VER:RCFORM
RECORDED ANNOUNCEMENT (RA)	OP:RASTAT RMV:RA RST:RA
SCAN AND SIGNAL DISTRIBUTOR (SSD) POINTS	DGN:SSD EX:SSD ORD:RF ORD:SCAN ORD:SD ORD:TBITS RMV:SSD RST:SSD TEST:SSD
SEGMENTATION DIRECTORY (SD)	RMV:SDNMOVDS
SERVICE CIRCUIT SYSTEM (SCS)	ALW:SCS CLR:BP-SCS COPY:SCS DGN:SCS DUMP:DISK-SCS DUMP:MEMORY-SCS DUMP:SCS EX:SCS INH:SCS

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Unit or Function	Input Message IDs
SERVICE CIRCUIT SYSTEM (SCS)	INIT:PMOS-UTIL INIT:SCS LOAD:DISK-SCS LOAD:MEMORY-SCS LOAD:SCS OP:BP-SCS OP:OOSUNITS RMV:SCS RST:SCS SET:BP-SCS STOP:COPY STOP:INIT SW:SCS UPD:SCS VER:PASANN VER:SCS-FHT VER:VFUNC-SCSDAT VER:UTYPE
SIGNAL PROCESSOR (SP)	ALW:SP ALW:SDUREPT DGN:SP DUMP:SP DUMP:SP-BUF DUMP:SP-CREG DUMP:SP-IREG DUMP:SP-MEM EX:SP INH:SDUREPT INH:SP LOAD:SP-ABORT LOAD:SP-CYCLE LOAD:SP-IREG LOAD:SP-MEM LOAD:SP-TDN RMV:SP RST:SP STOP:EX VER:0 VER:MDN VER:MSN VER:SPMTXPK

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Unit or Function	Input Message IDs
STREAM EXERCISER (STRMEX)	ALW:STRMEX INH:STRMEX SET:STRMEX
SURVIVABLE SIGNALING NETWORK (SSN)	OP:SSN-LINKSTAT OP:SSN-MAN OP:SSN-RT OP:SSN-SLKSTAT OP:SSN-STAT OP:SSN-TST VER:SSN-NSN
SWITCH FABRIC INTERFACE (SFI)	OP:SFISTAT TEST:SFI
TAPE ADMINISTRATION SYSTEM (TAS)	CLR:TASP
TEST CALLS	OP:DTAC SET:DTAC
TEST POSITION (TP)	INIT:TPDT OP:MONTAB RTE:TP
TIME ASSIGNMENT SPEECH INTERPOLATION (TASI) FRAME	VER:TASI
TIME MULTIPLEXED SWITCH PAIR (TMSP)	ALW:TMSP DGN:TMSP DUMP:TMSP-CONT DUMP:TMSP-CREG DUMP:TMSP-IREG EX:TMSP INH:TMSP LOAD:TMSP-CREG LOAD:TMSP-MEM
TIME MULTIPLEXED SWITCH PAIR (TMSP)	RMV:TMSP RST:TMSP STOP:EX

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Unit or Function	Input Message IDs
TIME SLOT INTERCHANGE (TSI)	ALW:TSI ALW:SDUREPT ALW:USGMEAS DGN:TSI DUMP:TSI-CREG DUMP:TSI-MEM DUMP:TSI-MEME DUMP:TSI-SPC DUMP:TSIMEM EX:TSI INH:SDUREPT INH:TSI LOAD:TSI-CREG LOAD:TSI-MEM RMV:TSI RST:TSI SET:NETROUT STOP:EX VER:TSI-WIDEBAND
TROUBLE LOCATING PROCEDURE (TLP)	ALW:TLP ANALY:TLPFILE CLR:TLPQUEUE INH:TLP INIT:TLP OP:TLPQUEUE
TRUNKS (TRKs)	CLR:TRKSTAT IN:CGALIST OP:CGASTAT OP:NTWKTAB OP:TANTOTAN OP:TONESTAT OP:TRKHOLD OP:TRKSTAT OP:TSGHC OP:TSGSTAT
TRUNKS (TRKs)	ORD:ALTIDMWF ORD:ALTIVU ORD:DLOOP ORD:DMWTF

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Unit or Function	Input Message IDs
	ORD:MW ORD:MW10 ORD:TANTOTAN ORD:TL ORD:TRPTCDAT RMV:TONE-MWF RST:TONE-MWF SCHED:TRKTEST SET:CAMATRFS SET:CGACNTL SET:CONN SET:DCONN SET:TRKSTAT SET:TSGATC SET:TSGEAC STOP:CLR-TRKSTAT STOP:OP-TRKSTA STOP:OP-TSGSTA STOP:SET-TRKST STOP:TEST-CORE STOP:TEST-PUSY STOP:TEST-TRK TEST:TRK TRC:TRK VER:CDB-ANI VER:CDB-CDBI VER:CRB-CRBI VER:CRBLIST VER:DNHRMISC VER:CODEGRP VER:CODELIST VER:INSPLIST VER:MEMORY VER:NAILUP VER:RDB VER:RDBLIST VER:TRK
TRUNKS (TRKs)	VER:TRK-LACID VER:TRKNAME VER:TRK-COOB VER:TRK-PTAN

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Unit or Function	Input Message IDs
	VER:TSG VER:TSGLIST
UPDATE	STOP:TEST-CORE STOP:UPD STOP:UPD-CORE STOP:UPD-FS STOP:UPD-UTL UPD:CORE UPD:FS-GEN UPD:GEN
VACANT CODE ANALYSIS (VCNT)	ALW:VCNT INH:VCNT OP:VCNT SET:VCNT
VOICEBAND INTERFACE FRAME (VIF)	ALW:VIF ALW:SDUREPT DGN:VIF DUMP:VIF-CONTR DUMP:VIF-CREG DUMP:VIF-IREG EX:VIF INH:SDUREPT LOAD:VIF-ATA LOAD:VIF-CMS LOAD:VIF-DLFC0 LOAD:VIF-DLFC1 LOAD:VIF-DLFC2 LOAD:VIF-DMVIU LOAD:VIF-DTSE LOAD:VIF-EMVIU LOAD:VIF-ENICF LOAD:VIF-EPS LOAD:VIF-EQT LOAD:VIF-ESM
VOICEBAND INTERFACE FRAME (VIF)	LOAD:VIF-ETA LOAD:VIF-ETSE LOAD:VIF-EVICS LOAD:VIF-EVIUS LOAD:VIF-EX

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Unit or Function	Input Message IDs
	LOAD:VIF-EXOOF
	LOAD:VIF-EXSIM
	LOAD:VIF-EXVIC
	LOAD:VIF-FA
	LOAD:VIF-FB
	LOAD:VIF-GAF
	LOAD:VIF-GAS
	LOAD:VIF-GTF
	LOAD:VIF-GTS
	LOAD:VIF-INHIC
	LOAD:VIF-IPS
	LOAD:VIF-ISM
	LOAD:VIF-LAF
	LOAD:VIF-LAI
	LOAD:VIF-LAS
	LOAD:VIF-LBS
	LOAD:VIF-LFC0
	LOAD:VIF-LFC1
	LOAD:VIF-LFC2
	LOAD:VIF-LR
	LOAD:VIF-LRSM
	LOAD:VIF-LTF
	LOAD:VIF-LTI
	LOAD:VIF-LTS
	LOAD:VIF-RC
	LOAD:VIF-REFF
	LOAD:VIF-RESM
	LOAD:VIF-RESR
	LOAD:VIF-RMW
	LOAD:VIF-RSIEX
	LOAD:VIF-RSM
	LOAD:VIF-RTA
	LOAD:VIF-RVICX
	LOAD:VIF-SAF
	LOAD:VIF-SAS
	LOAD:VIF-SEFF0
VOICEBAND INTERFACE FRAME (VIF)	LOAD:VIF-SEFF1
	LOAD:VIF-STF
	LOAD:VIF-STS
	LOAD:VIF-SVF0
	LOAD:VIF-SVF1

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Unit or Function	Input Message IDs
	LOAD:VIF-UFA LOAD:VIF-UFB LOAD:VIF-UGAF LOAD:VIF-UGAS LOAD:VIF-ULAF LOAD:VIF-ULAI LOAD:VIF-ULAS LOAD:VIF-ULBS LOAD:VIF-ULCSB LOAD:VIF-ULTF LOAD:VIF-ULTS LOAD:VIF-UPSW LOAD:VIF-URSM LOAD:VIF-USAF LOAD:VIF-USAS LOAD:VIF-UUSCB LOAD:VIF-VI LOAD:VIF-WRSM RMV:VIF RST:VIF STOP:EX SW:VIF VER:GT
NON-SECURE CALL STORE (XS)	COPY:XS DUMP:XS IF:XS LOAD:XS
EXPANDED TIME SLOT INTERCHANGE (XTSI)	ALW:XTSI CLR:TSIBP COPY:TSIFILE DGN:XTSI DUMP:TSIFILE DUMP:XTSI-CREG DUMP:XTSI-D3U DUMP:XTSI-IBU
EXPANDED TIME SLOT INTERCHANGE (XTSI)	DUMP:XTSI-IREG DUMP:XTSI-SPU EX:XTSI INH:XTSI INIT:PMSTAT

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Unit or Function	Input Message IDs
	LOAD:TSIFILE LOAD:XTSI-D3U LOAD:XTSI-IBU LOAD:XTSI-IREG OP:PMSTAT OP:TSIBP RMV:XTSI RST:XTSI RST:XTSI-ALL SET:TSIBP STOP:OP-PMSTAT SW:XTSI UPD:XTSI VER:MISC-AINTRIG VER:VFUNC-XTSIIB

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3.3 FUNCTIONAL INDEX

Unit or Function	Purpose	Message ID
ADVANCED INTELLIGENT NETWORK (AIN)	To display the code group domain, area code indicator, and type of service index associated with the Advanced Intelligent Network (AIN) trigger.	VER:AIN-LIST
ALARMS	Configures a set of maintenance centers into an alarm grouping arrangement.	CFR:ALMGRP
	Adds or deletes a carrier group to or from the carrier group alarm test list.	IN:CGALIST
	Initializes the alarm system.	INIT:ALM
	Outputs the status of the office alarm system.	OP:ALMSTAT
	Outputs the status of all carrier groups on the CGA test line, carrier groups with MSNs set to ignore, and CCIS carrier groups, protected by the software carrier group algorithm, whose alarms state has been set to ignore.	OP:CGASTAT
	Displays the office-dependent alarms which are active.	OP:OA
	Routes the alarms and corresponding output messages from one maintenance center to another.	RTE:ALM
	Retires any software alarms presently active in the specified maintenance center and in any applicable centers grouped or routed to the specified center.	RTR:ALM
	Sets MSN of a hardware type Carrier Group Alarm (CGA) to ACCEPT or IGNORE.	SET:CGACNTL

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Unit or Function	Purpose	Message ID
ALARMS	Terminates any alarm grouping between the maintenance centers specified.	STOP:CFR-ALMGR
	Terminates any alarm routing from given maintenance center.	STOP:RTE-ALM
ATTACHED PROCESSOR SYSTEM (APS)	Enables the APS to send and receive I/O messages through 1A ESS switch I/O channels.	ALW:APMSG
	Allows automatic recovery to begin if APS link is duplex failed.	ALW:APS
	Delivers a 3B APS input message from a 1A processor I/O channel to the APS.	APMSG:0
	Allows software access to the 1A file after a duplex failure of the APS.	CLR:APS
	Diagnoses the specified Attached Processor Interface (API).	DGN:API
	Exercises the specified API diagnostic mode.	EX:API
	Disables the sending and receiving of 3B processor I/O messages at 1A processor I/O channels.	INH:APMSG
	Stops the automatic recovery process for the APS link to the 3B computer	INH:APS
	Outputs to the 1A processor the current status of all known APSs.	OP:APSTATUS
	Removes the specified API from service.	RMV:API

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Unit or Function	Purpose	Message ID
ATTACHED PROCESSOR SYSTEM (APS)	Restores the API to service.	RST:API
	Switches the APIs within the specified APS.	SW:APS
	Tests the specified API by executing the API-deferred fault-recognition program.	TEST:API
	Requests to commit the system to the UPDFILE version (new generic) or NORMFILE version (old generic) of the 1A file following an APS system update.	UPD:COMMIT
AUDITS	Allows the audit program or programs specified to execute.	ALW:AUD
	Allows the specified class of audit messages to print in their entirety.	ALW:AUDMSG
	Turns-on the collection of traffic/plant measurement report and allows specified error analysis functions.	ALW:ERAP
	Audits the error analysis data base for errors and performs any necessary corrections.	AUD:ERAPDATA
	Audits the generic data from the generic data tape file to the generic data in core and file store or corrects the system data based upon the audit.	AUD:GEN
	Runs the audit or audits specified.	AUD:NUM

Unit or Function	Purpose	Message ID
AUDITS	Audits the NWM data from the NWM tape file to the NWM data in core and FS, or corrects the system data base upon the audit results or writes the tape data to FS in the area specified by the system maps.	AUD:NWM
	Audits the office data by using a tape mounted on the specified tape unit, or corrects data that has already been audited.	AUD:ODA
	Audits the peripheral hardware and software status, correcting status lamps and updating the duplex failure table.	AUD:PUSTAT
	Audits the TPM data from the TPM tape file to the TPM data in core and FS, or corrects the system data based upon the audit results, or writes the tape data to FS in the area specified by the system maps.	AUD:TPM
	Clears lockout of the System Audit Of Writable Stores (SAWS) caused by input message `SET:SAWSLOCK`.	CLR:SAWSLOCK
	Inhibits the audit program or programs specified from executing.	INH:AUD
	Inhibits or truncates the printing of certain classes of audit messages.	INH:AUDMSG
	Requests a status report for the audit system.	OP:AUDSTAT

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Unit or Function	Purpose	Message ID
AUDITS	Reinitializes and suspends the audit system, and allows only manually demanded audits to run or put the audit system back in normal mode, allowing routine, programmed scheduled audits to run.	SET:AUD
	Sets a lockout of SAWS for certain disk ID tags.	SET:SAWSLOCK
	Stops a tape at any time after the initial request has been made.	STOP:AUD
	Causes all overwrites in the test mode, see `COPY:OWBUF`, to be replaced with the original data.	STOP:OVRWRT
AUXILIARY DATA SYSTEMS (ADS)	Relinks the current traffic tape into the system.	ALW:TDAS
	Allows the tape on the specified TUC to be processed.	ALW:TUC
	Clear the specified ADS function by unlinking all data units currently assigned to the function.	CLR:ADSFUNC
	Diagnoses the specified auxiliary unit bus.	DGN:AUB
	Causes the specified number of words from the block sequence number of the specified tape file to be printed on the TTY.	DUMP:TAPE
AUXILIARY DATA SYSTEMS (ADS)	Exercises the specified Auxiliary Unit Bus (AUB) in an interactive diagnostic mode.	EX:AUB
	Inhibits the processing of the tape on the specified TUC.	INH:TUC
	Outputs the current status of the data units.	OP:DUSTATUS

Unit or Function	Purpose	Message ID
	Removes the specified auxiliary unit bus from service.	RMV:AUB
	Restores the specified auxiliary unit bus to service.	RST:AUB
	Sets a Tape Unit Controller (TUC) to a particular function.	SET:TUC
	Tests all in-service auxiliary units (FS,DUS) by executing the auxiliary unit deferred fault recognition program.	TEST:AUB
AUXILIARY DATA SYSTEMS (ADS)	Tests the specified Data Unit Selector (DUS) by executing the Auxiliary Data System (ADS) deferred fault recognition tests.	TEST:DUS
AUXILIARY UNIT INTERFACE (AUI)	Diagnoses the specified Auxiliary Unit Interface (AUI).	DGN:AUI
	Exercises the specified Auxiliary Unit Interface (AUI).	EX:AUI
	Removes the specified Auxiliary Unit Interface (AUI) from service.	RMV:AUI
	Restores the specified Auxiliary Unit Interface (AUI) to service, either conditionally or unconditionally.	RST:AUI
	Switch the Auxiliary Unit Interfaces (AUIs).	SW:AUI
	Tests the Auxiliary Unit Interface (AUI) by executing the IFB controller tests, the AUI client access tests, the AUI client Direct Memory Access (DMA) tests and the AUI client specific tests.	TEST:AUI

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Unit or Function	Purpose	Message ID
BUSES	Diagnoses the specified auxiliary unit bus.	DGN:AUB
	Diagnoses the specified call store bus.	DGN:CSB
	Diagnoses the specified peripheral unit bus.	DGN:PUB-RPT
	Exercises the specified Auxiliary Unit Bus (AUB) in an interactive diagnostic mode.	EX:AUB
BUSES	Exercises the specified Call Store Bus (CSB) in an interactive diagnostic mode.	EX:CSB
	Exercises the specified Program Store Bus (PSB) in an interactive diagnostic mode.	EX:PSB
	Exercises the specified Peripheral Unit Bus (PUB) in an interactive diagnostic mode.	EX:PUB
	Removes the specified auxiliary unit bus from service.	RMV:AUB
	Removes the specified call store bus from service.	RMV:CSB
	Removes the specified program store bus from service.	RMV:PSB
	Removes the specified Peripheral Unit Bus (PUB) from service.	RMV:PUB
	Restores the specified auxiliary unit bus to service.	RST:AUB
	Restores the specified call store bus to service.	RST:CSB
	Restores the specified program store bus to service.	RST:PSB

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Unit or Function	Purpose	Message ID
	Restores the specified PUB to service.	RST:PUB
	Breaks the interactive diagnostic mode for the unit specified.	STOP:EX
	Switches PUB activity when both PUBs are in-service.	SW:PUB
BUSES	Tests for source of babbling onto the peripheral unit bus.	TEST:PUB
CALL IRREGULARITIES (TRAPs)	Allows a previously defined call irregularity office trap to output data based on its schedule.	ALW:IAOFC
	Allows a previously defined call irregularity trunk subgroup trap to output data based on its schedule.	ALW:IATSG
	Allows a previously defined call irregularity trunk subgroup counting trap to collect and output data based on its schedule.	ALW:IATSGCNT
	Allows a previously defined Non-Call Associated Temporary Signaling Connection anomaly trap to output data based on its schedule.	ALW:NCATANOM
	This message submits a request to clear the office call irregularity traps which are queued to be printed.	CLR:IAOFC
	Inhibits a previously defined call irregularity office trap to prevent it from outputting data according to its defined schedule.	INH:IAOFC
	Inhibits a previously defined call irregularity trunk subgroup trap to prevent it from outputting data according to its defined schedule.	INH:IATSG

Unit or Function	Purpose	Message ID
	Inhibits a previously defined call irregularity trunk subgroup counting trap to prevent it from collecting or outputting data according to its defined schedule.	INH:IATSGCNT
CALL IRREGULARITIES (TRAPs)	Inhibits a previously defined Non-Call Associated Temporary Signaling Connection anomaly trap to prevent it from outputting data according to its defined schedule.	INH:NCATANOM
	Prints the direct signaling messages received by the office which do not contain the proper office address.	MON:CCISTRAP
	Sets up or modifies a total office call irregularity trap.	MON:IAOFC
	Sets up or modifies a total office Final Handling Code (FHC) trap.	MON:IAOFCNT
	Sets up or modifies a trunk subgroup call irregularity trap.	MON:IATSG
	Sets up a trunk subgroup call irregularity counting trap.	MON:IATSGCNT
	Sets up or modifies a Non-Call Associated Temporary Signaling Connection (NCA-TSC) office anomaly trap.	MON:NCATANOM
	Dumps out Final Handling Code (FHC) counters that have accumulated on an office wide basis by use of the office FHC counting trap.	OP:FHCSTAT
	Dumps the parameters of a specific call irregularity ineffective attempt office trap or of all IATRAPS.	OP:IAOFC

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Unit or Function	Purpose	Message ID
	Dumps the parameters of an IAOFC counting trap.	OP:IAOFCNT
	Dumps the parameters of a specific TSG ineffective attempt office trap or of all IATRAPS.	OP:IATSG
CALL IRREGULARITIES (TRAPs)	Dumps the parameters of a specific Ineffective Attempt Trunk Subgroup (IATSG) counting trap or all IATSG counting traps.	OP:IATSGCNT
	Dumps the parameters of a specified Non-Call Associated Temporary Signaling Connection anomaly trap or of all NCA-TSC anomaly traps.	OP:NCATANOM
	Stops the trap of misrouted direct signaling started by the `MON:CCISTRAP` input message.	STOP:MON-CCIST
	Stops the specified Ineffective Attempt Office (IAOFC) trap from collecting more data, and releases the trap block for future use.	STOP:MON-IAOFC
	Stops the specified Ineffective Attempt Office Counting (IAOFCNT) trap from collecting more Final Handling Code (FHC) counts.	STOP:MON-IAOFCNT
	Stops the specified trunk subgroup trap from collecting any more data.	STOP:MON-IATSG
	Stops specified trunk subgroup counting trap from collecting more data.	STOP:MON-IATS
	Stops the specified Non-Call Associated Temporary Signaling Connection anomaly trap from collecting more data, and releases the trap block for future use.	STOP:MON-NCATANOM

Unit or Function	Purpose	Message ID
CALL PROCESSING	Outputs the status of the bands for a given terminal.	OP:BANDSTAT
CALL PROCESSING	Provides digital information on a per trunk subgroup basis. The data consists of total seizures, percentage, digital preferred information, and glare data per TSG.	OP:DCONN
	Requests the output of data relating to the Express Connect® feature.	OP:SCRN
	Requests the printing of the contents of the Reduction of 800 Double Dip Exemption List. The printing shows the 800 numbers which are considered invalid for the cache table.	OP:SDEXMLST
	Requests the printing of the contents of the Reduction of 800 Double Dip Cache Table. The printout shows the 800 numbers and their associated Network Routing Numbers (195 numbers). The Cache Table can contain up to 511 entries.	OP:SDLST
	Alters the band status received from a distant CCITT6 Signaling Transfer Point (STP).	SET:BANDSTAT
	Requests that the cache table associated with the Reduction of Double Dip feature be activated or deactivated. The specification of activate when the cache table is active will flush the cache table. The cache table will refill itself as 800 numbers come into the switch.	SET:SDSTAT

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Unit or Function	Purpose	Message ID
	Outputs and/or audits the contents of the HICAP data tables.	STOP:OP-SCRN
	To display the acceptable digit count for the input country code digit.	VER:CCDADC
CALL PROCESSING	Lists the entries in table HTCCCONV that are indexed by the specified ABC digits.	VER:CCDCONV
	Verifies a code group by displaying routing treatment and, optionally, the RDB associated with the requested code, or by displaying the screening block.	VER:CODEGRP
	To request verification of the Emergency Alternate Routings (EARs) information contained in the translators.	VER:CODEGRP-EAR
	Requests information on the MCTI contained in the CODEGRP database.	VER:CODEGRP-MCTI
	Requests verification of multiple routing treatment block.	VER:CODEGRP-MRTI
	To request verification of the domain type information.	VER:CODEGRP-TYPE
	Requests the verification of the list of codes or Positive Look Up (PLU) numbers that point to a particular call type.	VER:CODELIST
	Requests verification of Dynamic Non-Hierarchical Routing (DNHR) parameters, including the forecast period change date and time, and load-set periods.	VER:DNHRMISC
	Verifies service identity index information.	VER:EA-SII
	Verifies all remaining trunk block status and trunk subgroup head cell	VER:MEMORY

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Unit or Function	Purpose	Message ID
	engineered memory.	
CALL PROCESSING	Lists the Trunk Appearance Number (TAN) nailups required.	VER:NAILUP
	Requests that the NPA-split information that is stored in the PCP be displayed.	VER:PCP-NPASPLIT
	Requests that all service code to redirect destination number mappings be displayed.	VER:PCP-SCTABLE
	Requests that all redirect service identities and access indicators be output for all combinations of type of access and type of service.	VER:PCP-TTSII
	Verifies Routing Data Block (RDB) or automatic out-of-chain RDB characteristics, and prints a list of all TSGs (including auxiliary RDBs).	VER:RDB
	Displays all the Routing Data Blocks (RDBs) that contain the input Trunk Subgroup (TSG).	VER:RDBLIST
	Used to request verify to list the indexes of a given type of routing table that contains specific calltype and calldata (optional) information.	VER:RTGLIST
	Verifies NSN characteristics of a TSG in the RTNR network.	VER:RTNR-CIN
	Verifies intermediate switch list for a specified destination NSN.	VER:RTNR-ISW
	To display the service signaling types assigned for each Market Segment Index (MSI).	VER:RTNR-MSI
	Verifies the NSNAME and destination point code for a specified NSN.	VER:RTNR-NSN

Unit or Function	Purpose	Message ID
CALL PROCESSING	Requests the number of channels engineered and the depth factor for heavily loaded and reserved routes used in determining path selection for RTNR.	VER:RTNR-RNSN
	Requests the routing pattern identity information used for Real Time Network Routing (RTNR).	VER:RTNR-RPI
	Verifies SII and TPC used for RTNR.	VER:RTNR-SII
	Lists all assignments for input Service Identity Index (SII).	VER:RTNR-SIILIST
	Requests the Service Identity Index (SII) for the specified Type Of Origin (TORIG), Type Of Destination (TDEST), Signaling Service Type (SST), and Dialed Number Service Type (DNST) used for Real Time Network Routing (RTNR).	VER:RTNR-TORIG
	Verifies a message trunk by listing the TSG, TOC, ES (if any), MDN (if any), STATUS, and optionally, the TSN associated with the trunk.	VER:TRK
	Requests ISDN service data for a specified LACID.	VER:TRK-LACID-SR
	Lists the identifiers (parameters) of a specified trunk.	VER:TRKNAME
	Verifies a trunk subgroup by displaying the trunk block characteristics and disk TSG characteristics with a list of trunks by traffic number, trunk appearance number, and status.	VER:TSG
	Lists all trunk subgroups with a specified set of characteristics.	VER:TSGLIST

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Unit or Function	Purpose	Message ID
CALL PROCESSING	Requests the verification of miscellaneous data and specific information based upon the input VFUNC keyword.	VER:VFUNC
	Requests the verification of miscellaneous data and specific information based upon the input VFUNC keyword.	VER:VFUNC-STAT
CALL STORE (CS)	Allows write protect on all -265K program store and call store communities.	ALW:WPAD
	Copies the data at designated locations of main memory to the specified destination in main memory, File System (FS), or tape.	COPY:CS
	Copies the data at designated locations of main memory to the specified destination in main memory, File System (FS), or tape.	COPY:CSS
	Copies the data at designated locations of main memory to the specified destination in main memory, File System (FS), or tape.	COPY:PSS
	Diagnoses the specified call store.	DGN:CS
	Diagnoses the specified call store bus.	DGN:CSB
	Causes the specified number of words from main memory to be printed on the Teletypewriter (TTY). Output format default will be octal.	DUMP:CS

Unit or Function	Purpose	Message ID
CALL STORE (CS)	Causes the specified number of words from main memory to be printed on the Teletypewriter (TTY). Output format default will be octal.	DUMP:CSS
	Causes the specified number of words from File System (FS) to be printed on the Teletypewriter (TTY).	DUMP:FS
	Causes the specified number of words from main memory to be printed on the Teletypewriter (TTY).	DUMP:PSS
	Exercises the call store in an interactive diagnostic mode.	EX:CS
	Exercises the call store bus in an interactive diagnostic mode.	EX:CSB
	Inhibits write protect on program store and call store communities.	INH:WPAD
	Zeros all call stores in PUEX.	INIT:PUEXINIT
	Causes the data given in the data field to be written into the designated location(s) of main memory.	LOAD:CS
	Causes the data given in the data field to be written into the designated location(s) of main memory.	LOAD:CSS
	Causes the data given in the data field to be written into the designated location(s) of main memory.	LOAD:PSS
	Outputs the current CS status of the system.	OP:CSSTATUS
	Removes the specified call store from service.	RMV:CS

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Unit or Function	Purpose	Message ID
CALL STORE (CS)	Performs freeze operations on data in a duplicated call store by placing the standby store in the maintenance mode.	RMV:CS-MCODE
	Removes the specified call store bus from service.	RMV:CSB
	Restores the specified call store to service.	RST:CS
	Restores the specified call store bus to service.	RST:CSB
	Sets the specified CS to a particular K-code or speed mode.	SET:CS
	Modifies the soak list by doing one of the following: — A unit is added to the soak list for a specified number of days. — A unit is removed from the soak list by setting the number of days to 0. — The number of soak days for a unit on the soak list is modified. The unit may be a Central Control (CC), Call Store (CS) or the Master Control Complex And Utility Processor (MUP).	SET:SOAK
	Breaks the interactive diagnostic mode for the unit specified.	STOP:EX
CAMA/AMA	Allows CAMA ONI.	ALW:CAMAONI
	Puts CAMA ONI suspension into effect, allowing all calls on the COP queue to complete free.	INH:CAMAONI
	Sets the traffic sampling rate to the specified value.	SET:CAMATRFS
	Switches AMA units.	SW:AMA

Unit or Function	Purpose	Message ID
CAMA/AMA	Verifies Automatic Message Accounting (AMA) information, and prints call code and structure code mapping information.	VER:AMA
	Displays CAMASCRN data.	VER:CAMASCRN
CENTRAL CONTROL (CC)	Clears error counters in the Central Control (CC) subsystem.	CLR:CCECTRS
	Diagnoses the specified central control.	DGN:CC
	Causes data resident in certain Central Control (CC) buffer bus locations to be saved in a buffer and later printed on the TTY or displayed on the MCC.	DUMP:CC
	Prints the contents of one or more CC registers.	DUMP:REG
	Exercises the specified central control.	EX:CC
	Enables data to be placed directly in a CC register of an on-line CC; also allows data to be incremented.	LOAD:REG
	Outputs the current status of the Central Controllers (CCs), including soak status.	OP:CCSTATUS
	Outputs the number of days a Central Controller (CC) has left to soak.	OP:SOAK
	Removes the specified central control from service.	RMV:CC
	Restores the specified central control to service, either conditionally or unconditionally.	RST:CC

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Unit or Function	Purpose	Message ID
CENTRAL CONTROL (CC)	Modifies the soak list by doing one of the following: — A unit is added to the soak list for a specified number of days. — A unit is removed from the soak list by setting the number of days to 0. — The number of soak days for a unit on the soak list is modified.	SET:SOAK
	Breaks the interactive diagnostic mode for the unit specified.	STOP:EX
	Switches central controls, i.e., makes the current standby CC active, and the current active CC standby.	SW:CC
	Tests the active CC or the active and standby CCs by executing the deferred CC fault recognition program.	TEST:CC
CENTRALIZED AUTOMATIC TROUBLE LOCATING AND ANALYSIS SYSTEM (CATLAS)	Allows the Centralized Automatic Trouble Locating and Analysis System (CATLAS-2) feature to operate in the normal mode.	ALW:CATLAS
	Inhibits the Centralized Automatic Trouble Locating and Analysis System (CATLAS-2) feature to operate in the normal mode.	INH:CATLAS
CIRCUIT MAINTENANCE SYSTEM 1A (CMS1A)	Exercises the I/O link between 4ESS™ and CMS1A.	EX:CMSLINK

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Unit or Function	Purpose	Message ID
COMMON CHANNEL INTEROFFICE SIGNALING (CCIS)	Performs three types of unpesting operations, unpests K-code at the CC, unpests a controller or unpests terminals.	ALW:TGR
	Configures the specified Voice Frequency Link (VFL) with the indicated signaling link.	CFR:SIGLK
	Diagnoses the specified Terminal Access Circuit (TGR) or terminal.	DGN:TGR
	Prints the contents of the critical registers for the specified TAC.	DUMP:TGR-CREG
	Prints the contents of the internal registers for the specified TAC.	DUMP:TGR-IREG
	Prints the contents of the terminal memory for the specified TAC.	DUMP:TGR-MEM
	Exercises the specified Terminal Access Circuit (TGR) in an interactive diagnostic mode.	EX:TGR
	Turns the CCITT6 utility trap on.	MON:SUTRAP
	Outputs the status of the bands for a given terminal.	OP:BANDSTAT
	Outputs the status of one or all of the signaling link complements, for international terminals only, in an office.	OP:SLCSTAT
	Outputs the status of the specified signaling link, its terminal, and associated VFL and mate signaling link status.	OP:SLKSTAT

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Unit or Function	Purpose	Message ID
COMMON CHANNEL INTEROFFICE SIGNALING (CCIS)	Requests a summary of the service status for MF receivers, MF transmitters, and CCIS transceivers, if the office is so equipped.	OP:SVCSTAT
	Removes the specified signaling link from service.	RMV:SIGLK
	Removes the specified terminal grouping submember from service.	RMV:TGR
	Restores the specified signaling link to service.	RST:SIGLK
	Restores the specified terminal grouping subunit to service.	RST:TGR
	Turns the CCITT6 utility trap off (international only).	STOP:MON-SUTRA
	Switches controllers within the specified terminal grouping frame.	SW:TGR
	Requests a test of Common Channel Interoffice Signaling (CCIS) direct signaling network.	TEST:DSIG
	Tests the specified standby Voice Frequency Links (VFL) assigned to the specified signaling link (not used for international terminals).	TEST:SIGLK
	Requests a test query to be sent to the Service Control Point (SCP) from the 4ESS™ Switch serving as a Service Switching Point (SSP).	TEST:TCAPAIN

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Unit or Function	Purpose	Message ID
COMMON NETWORK INTERFACE RING	Enables the sending and receiving of messages between the 1A and the DLNs. These messages are used to detect when the CNI ring is in overload and implement controls while there is an overload condition.	ALW:RINGOVLD
	Disables the sending and receiving of messages between the 1A and the DLNs. Since these messages are used to determine if the CNI ring is in overload, no ring overload controls will be implemented.	INH:RINGOVLD
	Outputs ring traffic handling capabilities as well as the status of the ring. These conditions are monitored once per second.	OP:RINGMNTR
COMMON PLATFORM ADJUNCT (CPA)	To request the verification of a Network Switch Number (NSN) and Routing Data Block index (RDBI) for each Adjunct Logical Address (ALA).	VER:CPA-ALA
	Request information on the Customer Automatic Number Identifications (CANIs) that are contained in the Common Platform Adjunct (CPA) database.	VER:CPA-C-OR
	Request adjunct common data.	VER:CPA-DATA
	Request information on the Destination Numbers (DNUMs) contained in the CPA database.	VER:CPA-DNUM
	To request the verification of a Network Switch Number (NSN) and Adjunct Logical Address (ALA) for the Routing Data Block Index (RDBI).	VER:CPA-RDBLIST

Unit or Function	Purpose	Message ID
DIGITAL INTERFACE FRAME (DIF)	Resets Digital Interface Frame (DIF) buffers and pests.	ALW:DIF
	Allows printing of `REPT:SDU` output messages.	ALW:SDUREPT
	Diagnoses the specified digital interface frame: DIF, domestic frame DIF-E1(D), or DIF-E1.	DGN:DIF
	Dumps a range of E-store, M-store, or U-store of a DIF.	DUMP:DIF
	Dumps the Digital Interface Frame (DIF) buffer.	DUMP:DIF-BUF
	Dumps the Digital Interface Frame (DIF) critical registers.	DUMP:DIF-CREG
	Dumps the maintenance data for the particular Digital Interface Unit (DIU).	DUMP:DIF-DIU
	Dumps a range of Executive Buffer Random Access Memory (EXCRAM) from the domestic digital interface frame, DIF-E1(D), or from the digital interface frame-export 1, DIF-E1.	DUMP:DIF-EXCRAM
	Dumps the internal registers of the specified Digital Interface Frame (DIF).	DUMP:DIF-IREG
	Dumps a range of the Map Rate Table (MAPRT) memory from the domestic digital interface frame, DIF-E1(D), or from the digital interface frame-export 1, DIF-E1.	DUMP:DIF-MAPRT

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Unit or Function	Purpose	Message ID
DIGITAL INTERFACE FRAME (DIF)	Dumps a range of memory from the Digital Interface Frame (DIF) memory.	DUMP:DIF-MEM
	Dumps a range of P-Bit Trunk Status Rate Pointer Store (PTSRPS) memory from the domestic digital interface frame, DIF-E1(D), or from the digital interface frame-export 1, DIF-E1.	DUMP:DIF-PTSRPS
	Dumps a range of P-Bit Trunk Status Store (PTSS) memory from the domestic digital interface frame, DIF-E1(D), or from the digital interface frame-export 1, DIF-E1.	DUMP:DIF-PTSS
	Dumps a range of Signal Processor State Translator Store (SPSTS) memory from the domestic digital interface frame, DIF-E1(D), or from the digital interface frame-export 1, DIF-E1.	DUMP:DIF-SPSTS
	Dumps a range of Signal Processor Trunk Status Store (SPTSS) memory from the domestic digital interface frame, DIF-E1(D), or from the digital interface frame-export 1, DIF-E1.	DUMP:DIF-SPTSS
	Dumps a range of TBITS for a Digital Interface Frame (DIF).	DUMP:DIF-TBIT
	Exercises in an interactive diagnostic mode the specified digital interface frame: DIF, domestic frame DIF-E1(D), or DIF-E1.	EX:DIF
	Resets Digital Interface Frame (DIF) buffers and pests.	INH:DIF
	Inhibits the printing of `REPT:SDU` output messages.	INH:SDUREPT

Unit or Function	Purpose	Message ID
DIGITAL INTERFACE FRAME (DIF)	Loads a range of a specified buffer.	LOAD:DIF-BUF
	Loads a Digital Interface Frame (DIF) critical register with the data specified through a mask.	LOAD:DIF-CREG
	Loads a range of Executive Buffer Random Access Memory (EXCRAM) into the domestic digital interface frame, DIF-E1(D), or into the digital interface frame-export 1, DIF-E1.	LOAD:DIF-EXCRAM
	Loads the internal registers associated with a particular digital interface unit.	LOAD:DIF-IREG
	Loads a range of the Map Rate Table (MAPRT) into the Domestic Digital Interface Frame (DIF-E1[D]), or into the Digital Interface Frame-Export 1 (DIF-E1).	LOAD:DIF-MAPRT
	Loads the Digital Interface Frame (DIF) memory.	LOAD:DIF-MEM
	Load a range of P-Bit Trunk Status Rate Pointer Store (PTSRPS) for the domestic digital interface frame, DIF-E1(D), or for the digital interface frame-export 1, DIF-E1.	LOAD:DIF-PTSRPS
	Loads a range of P-Bit Trunk Status Store (PTSS) into the domestic digital interface frame, DIF-E1(D), or into the digital interface frame-export 1, DIF-E1, memory.	LOAD:DIF-PTSS
	Loads a range of Signal Processor State Translator Store (SPSTS) memory for the domestic digital interface frame, DIF-E1(D), or for the digital interface frame-export, DIF-E1.	LOAD:DIF-SPSTS

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Unit or Function	Purpose	Message ID
DIGITAL INTERFACE FRAME (DIF)	Loads a range of Signaling Processor Trunk Status Store (SPTSS) memory into the Domestic Digital Interface Frame (DIF-E1[D]), or into the Digital Interface Frame-Export 1 (DIF-E1).	LOAD:DIF-SPTSS
	Loads the specified Digital Interface Frame (DIF) TBITS.	LOAD:DIF-TBIT
	Sets or resets a range of ESN, MSN, or USN.	LOAD:DIF-USN
	Removes the specified Digital Interface Frame (DIF) submember from service.	RMV:DIF
	Restores the specified Digital Interface Frame (DIF) to service.	RST:DIF
	Breaks the interactive diagnostic mode for the unit specified.	STOP:EX
	Switches controllers, IPUBS, or submembers within the specified Digital Interface Frame (DIF).	SW:DIF
DIGROUP TERMINAL (DT) AND DIGROUP TERMINAL UNIT (DTU)	Allows a daily (20 minutes past midnight) output of all digroups (DT and DIF) which have out-of-frame or slip counts that have reached threshold limits (maintenance and out-of-service thresholds).	ALW:DGRPT
	Allows steps to be reported on a specific digroup.	ALW:DGSTAT
	Unpests either all DTs or specified DTUs.	ALW:DT

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Unit or Function	Purpose	Message ID
DIGROUP TERMINAL (DT) AND DIGROUP TERMINAL UNIT (DTU)	Allows printing of REPT:SDU output messages.	ALW:SDUREPT
	Initiates a manual camp-on for the specified digroup.	ANALY:DIGROUP
	Diagnoses the specified Digroup Terminal (DT).	DGN:DT
	Prints the contents of the critical registers for the specified DT.	DUMP:DT-CREG
	Dumps the contents of the internal registers for the specified DT.	DUMP:DT-IREG
	Exercises the specified Digroup Terminal (DT) in an interactive diagnostic mode.	EX:DT
	Inhibits the daily (20 minutes past midnight) output of all digroups (DT and DIF) which have out-of-frame or slip counts that have reached threshold limits (maintenance and out-of-service thresholds).	INH:DGRPT
	Inhibits steps from being reported on the specified digroup.	INH:DGSTAT
	Pests either all DTs or specified DTUs.	INH:DT
	Inhibits the printing of REPT:SDU output messages.	INH:SDUREPT
	Initializes digroup status memory for the specified digroup.	INIT:DGSTAT
	Places a digroup on the step monitor list.	MON:DGSTAT

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Unit or Function	Purpose	Message ID
DIGROUP TERMINAL (DT) AND DIGROUP TERMINAL UNIT (DTU)	Outputs the current status of the specified digroup. Data is obtained from the digroup status memory.	OP:DGSTAT
	Prints a list that indicates the number of digroups currently monitored for slips.	OP:SYNCLIST
	Removes the specified digroup terminal submember from service.	RMV:DT
	Restores the specified digroup terminal and all of its Digroup Terminal Units (DTUs) to service from duplex failure.	RST:DT
	Sets the digroup submembers to either an ACCEPT or IGNORE.	SET:DIGROUP
	Stops a manual or autonomous camp-on in progress on the specified digroup.	STOP:ANALY-DIG
	Breaks the interactive diagnostic mode for the unit specified.	STOP:EX
	Removes a digroup from the slip monitor list.	STOP:MON-DGSTT
	Stops all group-type `OP:DGSTAT` output which was requested from the same TTY channel as `STOP:OP-DGSTA` was entered.	STOP:OP-DGSTA
DUPLEX FAIL (DF)	Allows output message translations using generic tape.	ALW:TAPEXLAT
	Inhibits output message translations using generic tape.	INH:TAPEXLAT
	Initializes the Duplex Fail Status (DFS) of the specified unit and subunit.	INIT:DFSTAT

Unit or Function	Purpose	Message ID
ECHO SUPPRESSOR TERMINAL (EST)	Causes the specified pest of the Echo Suppressor Terminal (EST) to be reset.	ALW:EST
	Allows printing of REPT:SDU output messages.	ALW:SDUREPT
	Diagnoses the specified echo suppressor frame.	DGN:EST
	Dumps a predetermined group of registers from both controllers of an Echo Suppressor Terminal (EST).	DUMP:EST-CREG
	Dumps the specified range of a trunk status store word on a specified Echo Suppressor Unit (ESU).	DUMP:EST-ESU
	Dumps both error source registers associated with each of the 16 Echo Suppressor Units (ESUs).	DUMP:EST-MEM
	Dumps the specified trunk status store words.	DUMP:EST-TSMEM
	Exercises the specified Echo Suppressor Terminal (EST) in an interactive diagnostic mode.	EX:EST
	Sets specified pests for the echo suppressor.	INH:EST
	Inhibits the printing of REPT:SDU output messages.	INH:SDUREPT
	Loads the specified critical register with data through a mask.	LOAD:EST-CREG
	Loads the trunk status store.	LOAD:EST-ESU
	Loads the last look store RAM with the specified function.	LOAD:EST-LLMEM

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Unit or Function	Purpose	Message ID
ECHO SUPPRESSOR TERMINAL (EST)	Operates, releases, or reads an echo suppressor for a specified trunk.	ORD:ES
	Removes the specified Echo Suppressor Terminal (EST) submember from service.	RMV:EST
	Restores the specified echo suppressor submember to service.	RST:EST
	Breaks the interactive diagnostic mode for the unit specified.	STOP:EX
END-TO-END CLASS OF SERVICE (ECOS)	Allows the office maintenance personnel to globally remove all active Extended Operating System (EOS) Network Management (NM) controls such as EOS route list override, ECOS area cancel, ECOS route skip / cancel control.	RMV:ECOSCTLS
	Request the verification of End-To-End Class Of Service (ECOS) data.	VER:ECOS
ERROR ANALYSIS PROGRAM (ERAP)	Turns on the collections of traffic / plant measurement report and allows specified error analysis functions.	ALW:ERAP
	Audits the error analysis data base for errors and performs any necessary corrections.	AUD:ERAPDATA
	Turns on the collections of traffic / plant Deletes the indicated error analysis conditions, unconditionally clears the indicated error analysis conditions, or unconditionally clears all stored search conditions.	CLR:ERAPCOND
	Clears the specified error analysis data by tagging error analysis records for deletion.	CLR:ERAPDATA

Unit or Function	Purpose	Message ID
ERROR ANALYSIS PROGRAM (ERAP)	Deletes error analysis search result sets from disk storage.	CLR:ERAPSRES
	Specifies a condition on an individual item of an error analysis record for a subsequent retrieval/search operation.	IN:ERAPCOND
	Makes a record of a frame repair and links the frame repair to some previous system action such as an interrupt, a diagnostic, or a Trouble Location Procedure (TLP) search.	IN:ERAPDATA
	Turns off the collection of traffic/plant measurement report or inhibits specified error analysis functions.	INH:ERAP
	Controls the flow of the CONSULT FERA function.	INIT:FERAOVRD
	Outputs error analysis conditions currently in disk storage.	OP:ERAPCOND
	Outputs the specified error analysis data.	OP:ERAPDATA
	Performs a search through the error analysis data base, or outputs specified error analysis search results.	OP:ERAPSRES
	Summarizes the contents of the error analysis data base.	OP:ERAPSUM
	Outputs data collected by trunk error analysis for TSGs on the worst trunk subgroup list.	OP:TERAWTSG
	Sets the trunk subgroup trunk error analysis control for the TSGs.	SET:TSGEAC

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Unit or Function	Purpose	Message ID
ERROR ANALYSIS PROGRAM (ERAP)	Stops the error analysis partitioned output messages currently in progress.	STOP:OP-ERAP
	Updates portions of the error analysis file store data base.	UPD:ERAP
FAN SYSTEM (FNS)	Initializes the Fan System (FNS) within the specified 1B frame.	ALW:FNS
	Clears the fan air filter error from the Fan System (FNS) error stack.	CLR:FNS
	Inhibits the specified Fan System (FNS) within the specified 1B Processor frame and causes the fans to go to full speed.	INH:FNS
	Tests the Fan System (FNS) within the specified 1B Processor frame and reports any existing defective FNS component(s).	TEST:FNS
FILE SYSTEM (FS)	Copies the data at designated locations of main memory to the specified destination in main memory, File System (FS), or tape.	COPY:A1B
	Copies the data in designated locations of the file store to the specified destination in main memory, file store, or tape.	COPY:FS
	Causes the specified number of words from main memory to be printed on the Teletypewriter (TTY).	DUMP:A1B
	Causes the specified number of words from file store to be printed on the TTY.	DUMP:FS-ACT
	Allows specification of a condition that must be met in order for the generic utility functions following the `IF` clause to be executed.	IF:A1B

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Unit or Function	Purpose	Message ID
FILE SYSTEM (FS)	Causes the data given in the data field to be written into the designated location(s) of main memory.	LOAD:A1B
	Breaks the interactive diagnostic mode for the unit specified.	STOP:EX
	Initiates the request to the SYUP program to process a generic tape for either a full system update or a partial system update, and places the data on a previously selected set of file stores.	UPD:FS-GEN
GENERIC UTILITY PROGRAM (GULP)	Activates all generic utility flags previously input (see WHEN:ADR or WHEN:XADR).	ALW:UTIL
	Prints optional generic utility messages.	ALW:UTILMSG
	Clears a generic utility dump on interrupt request.	CLR:IDUMP
	Erases all generic utility flags.	CLR:UTIL
	Clears the specified utility data set from the system.	CLR:UTILDS
	Clears the generic utility flag located at the given address.	CLR:UTILFLG
	Copies system data onto tape.	COPY:GEN-TAPE
	Places previously input overwrites into the system in the test mode and locks out any client that may alter hashed data or hash sums (e.g., recent change, traffic measurements, tape writing program).	COPY:OWBUF

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Unit or Function	Purpose	Message ID
GENERIC UTILITY PROGRAM (GULP)	Copies the data contained in the designated tape file (or if BLK is specified, tape block in designated file) of a standard label tape to the specified designation in core or disk.	COPY:TAPE
	Prints the contents of one or more CC registers.	DUMP:REG
	Prints the specified number of words from the block sequence number of the specified tape file on the TTY.	DUMP:TAPE
	Prints the contents of generic utility scratch memory locations.	DUMP:UMEM
	Causes a list of utility functions following the ELSE to be performed only when the IF expression of a nonperipheral flag message is evaluated as false.	ELSE:0
	Controls execution of utility data base.	EXC:UTILDS
	Allows specification of a condition that must be met in order for the generic utility functions following the `IF` clause to be executed.	IF:CC
	Allows specification of a condition that must be met in order for the generic utility functions following the `IF` clause to be executed.	IF:CS
	Allows specification of a condition that must be met in order for the generic utility functions following the `IF` clause to be executed.	IF:CSS

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Unit or Function	Purpose	Message ID
GENERIC UTILITY PROGRAM (GULP)	Allows specification of a condition that must be met in order for the generic utility functions following the `IF` clause to be executed.	IF:PSS
	Allows specification of a condition that must be met in order for the generic utility functions following the `IF` clause to be executed.	IF:REG
	Allows specification of a condition that must be met in order for the generic utility functions following the`IF` clause to be executed.	IF:UMEM
	Initiates step 1 of permanent overwrite procedure.	IN:OWBUF
	Places the generic utility system in a mode to save all utility messages that follow on file store.	IN:UTILDS
	Deactivates all generic utility flags temporarily.	INH:UTIL
	Suppresses printing of optional generic utility messages (successful address calculation confirmation message and the utility flag encountered message).	INH:UTILMSG
	Enables data to be placed directly into a CC register of an on-line CC; also allows data to be incremented.	LOAD:REG
	Enables the user of the generic utilities to save or increment data saved in a utility scratch memory location.	LOAD:UMEM
	Provides the means to view part or all of the contents of a previously defined data set.	OP:UTILDS

Unit or Function	Purpose	Message ID
GENERIC UTILITY PROGRAM (GULP)	Provides the means to view part or all of the contents of a previously defined data set.	OP:UTILDS-LINE
	Output the status of Generic Utility Program (GULP) match conditions set up using GULP input messages of the form: `WHEN:ADR x;{R|W|RW}` or `WHEN:XADR x;{R|W|RW}`.	OP:UTILMTCH
	Outputs the utility data set table.	OP:UTLDSTAB
	Terminates the utility data set input mode.	STOP:IN-UTILDS
	Causes all overwrites in the test mode, to be replaced with the original data.	STOP:OVRWRT
	Initiates step 3 of permanent overwrite procedure.	UPD:HDATA
	Edits an existing utility data set.	UPD:UTILDS
	Provides the capability to "flag" generic utilities.	WHEN:ADR
	Provides the capability to "flag" generic utilities.	WHEN:XADR
GOVERNMENT EMERGENCY TELECOMMUNICATIONS SERVICE (GETS)	This is a general purpose input message which requests specific information based upon the input to the MISC keyword.	VER:MISC
INPUT/OUTPUT (I/O) DEVICES	Allows a previously defined channel for logical channel operation.	ALW:LCHAN
	Clears the screen of the input channel and leaves the cursor one space to the right of the home position.	CLR:CHAN

Unit or Function	Purpose	Message ID
INPUT/OUTPUT (I/O) DEVICES	Clears the last set of output messages recorded on disk during a phase so that new messages can be saved if another phase occurs.	CLR:MSGRCD
	Inhibits processing on the given logical channel or channels. If the channel was previously in an active state, the external user's session will be aborted and any queued output messages for the channel discarded.	INH:LCHAN
	Initializes an output message class or classes to the predefined set of channels.	INIT:MSGCLS
	This message is used to initialize Input/Output (I/O) signaling system data structures for the specified client.	INIT:SCHAN
	Monitors all output messages being printed on a specified channel from another specified channel.	MON:CHAN
	Outputs a list of the channel monitoring or routing taking place in the system.	OP:CHAN
	Prints a list of I/O channels that are in the disconnect state.	OP:IODSC
	Requests an output message showing the identity and status of all eligible logical channels.	OP:LCHAN
	Outputs messages recorded on disk from the last phase that saved output message.	OP:MSGRCD
	Outputs the specified Input/Output (I/O) signaling system data structure or information.	OP:SCHAN

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Unit or Function	Purpose	Message ID
INPUT/OUTPUT (I/O) DEVICES	Routes all messages destined for channel ´a' to channel 'b'.	RTE:CHAN
	Makes a change in the routing of an output message class or classes.	RTE:MSGCLS
	Stops monitoring output messages on a specified channel.	STOP:MON-CHAN
	Stops an output message, interrupted while printing by a break, from restarting and printing.	STOP:MSG
	Stops outputting the messages in the output message save area or disk.	STOP:OP-MSGRCD
	Stops the routing of output messages from one channel to another.	STOP:RTE-CHAN
INPUT/OUTPUT (I/O) FRAME	Causes ASW and parity pest for the specified IOUS to be released at the CC.	ALW:IOUS
	Diagnoses the specified input/output unit selector.	DGN:IOUS
	Prints the contents of the critical register for the specified I/O unit.	DUMP:IOUS
	Exercises the I/O link between 4ESS™ and CMS1A.	EX:CMSLINK
	Exercises the specified input/output unit selector.	EX:IOUS
	Causes the ASW and parity pests for the specified IOUS to be applied at the CC.	INH:IOUS
	Removes specified I/O unit/subunit from service, if only the Input/Output Unit Selector (IOUS) is specified.	RMV:IOUS

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Unit or Function	Purpose	Message ID
INPUT/OUTPUT (I/O) FRAME	Restores the specified I/O unit/subunit to service, if only the Input/Output Unit Selector (IOUS) is specified.	RST:IOUS
	Breaks the interactive diagnostic mode for the IOUS or CMSLINK.	STOP:EX
INTERFACE BUS (IFB)	Clears error counters in the Interface Bus (IFB) subsystem.	CLR:IFBECTRS
	Diagnoses the specified Interface Bus (IFB).	DGN:IFB
	Exercises the specified Interface Bus (IFB).	EX:IFB
	To report on the status of the Interface Bus (IFB) subsystem.	OP:IFBSTAT
	Removes the specified Interface Bus (IFB) from service.	RMV:IFB
	Restores the specified Interface Bus (IFB) to service, either conditionally or unconditionally.	RST:IFB
	Tests the Auxiliary Unit Interface (AUI) by executing the IFB controller tests, the AUI client access tests, the AUI client Direct Memory Access (DMA) tests and the AUI client specific tests.	TEST:AUI
	Tests the Interface Bus (IFB) controller and clients by executing the IFB controller tests, the IFB client access tests, the IFB client Direct Memory Access (DMA) tests and the IFB client specific tests.	TEST:IFB

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Unit or Function	Purpose	Message ID
INTERNATIONAL CALL DETAILED RECORDING (ICDR)	Allows call detail recording to begin on trunk subgroups that are assigned to the international trunk subgroup study list.	ALW:SDYGRP
	Removes all trunk subgroups that have been assigned to the international trunk subgroups study list; inhibits the list before removing the trunk subgroups.	CLR:SDYGRP
	Adds or deletes an international trunk subgroup to or from the international trunk subgroup study list.	IN:SDYGRP
	Inhibits call detail recording on trunk subgroups that are assigned to the international trunk subgroup study list.	INH:SDYGRP
	Displays the trunk subgroups on the study list in the format of circuit identification names.	OP:SDYGRP
	Starts the CINMAP function.	UPD:CMAP
	Lists all international codes that point to a specific routing treatment.	VER:INTLCODE
INTERRUPTS/ INTERJECTS	Allows the occurrence of specified maintenance interrupts or maintenance interject actions in the CC.	ALW:0
	Clears a generic utility dump on interrupt request.	CLR:IDUMP
	Inhibits the occurrence of the specified maintenance interrupt or maintenance interject actions in the CC.	INH:0
	Outputs a list of the CC maintenance interrupt and maintenance interject sources that are inhibited, and indicates whether or not write protect has been inhibited.	OP:INHINT

Unit or Function	Purpose	Message ID
LIBRARY SYSTEM (LIBSYS)	Requests activation of the auxiliary input message facility for a specified client over selected input channels.	ALW:LIBMSG
	Performs any one of three functions using the library data from the library tape file.	AUD:LIBSYS
	Dumps the library client input control block and auxiliary input control block if a client number is specified, or dumps the input control blocks of all client numbers if a client is not specified.	DUMP:LIBSYS
	Starts execution of a library program, or inputs data to a library program that is currently active.	EX:LIBSYS
	Inputs data to the Input Control Block (ICB) associated with library client ´a'.	IN:LIBSYS
	Deactivates the auxiliary input facility for a specified client.	INH:LIBMSG
	Initializes the file store library program area by removing the specified packages.	INIT:LIBSYS
	Loads the core (PS 36) or file store library area from a library tape or from file store.	LOAD:LIBSYS
	Outputs the PS 36 and paged library program status, the library package names loaded on a tape, or the library file store directory table.	OP:LIBSTAT
	Sets up or clears a default package name to be used with `EX:LIBSYS` and `STOP:LIBSYS` input messages.	SET:LIBSYS
	Breaks the interactive diagnostic mode for the unit specified.	STOP:EX

Unit or Function	Purpose	Message ID
LIBRARY SYSTEM (LIBSYS)	Stops the execution of a presently active library program.	STOP:LIBSYS
	Updates the library program file store area by repacking the library packages to eliminate fragmentation.	UPD:LIBSYS
MAINTENANCE CONTROL	Terminates the manually-requested inhibit mode of the MACP.	ALW:MACLI
	Gives an active client in the specified class an entry to its abort routine.	CLR:MACLI
	Inhibits either the routine exercises or all automatically scheduled jobs in the maintenance class.	INH:MACLI
	Outputs information about current client(s) of the Maintenance Control Program (MACP).	OP:MACLI
	Outputs a list of units that are out-of-service.	OP:OOSUNITS
	Stops the currently active Maintenance Control Program (MACP) client in the specified class and subclass.	STOP:MACLI
	Terminates scheduling of routine maintenance tests for peripheral system.	STOP:TEST-PUSY
	Tests the peripheral system by scheduling routine maintenance tests.	TEST:PUSYS
MAINTENANCE CONTROL CENTER (MCC), PROCESSOR-PERIPHERAL INTERFACE (PPI)	Resets ASW and parity pests at the CC for the MCC.	ALW:MCC
	Operates the specified MCC key(s) by toggling the associated point(s) on the PPI.	ORD:MCCKEY

Unit or Function	Purpose	Message ID
MAINTENANCE CONTROL CENTER (MCC), PROCESSOR-PERIPHERAL INTERFACE (PPI)	Simulates POKING a subset of the POKES on the Master Control Complex (MCC) page 108. The specified MCC POKE will be sent to the Master Control Complex Utility Processor (MUP) toggling or executing the related function of that POKE.	SET:POKE
	Breaks the interactive diagnostic mode for the unit specified.	STOP:EX
	Stops reporting the MCC application panel data to the Switching Control Center (SCC) via the SCC I/O channel.	STOP:MON-MCCRE
MASS ANNOUNCEMENT SYSTEM (MAS)	Removes an inhibit on the specified announcement.	ALW:VSSID
	Inhibits an announcement from allowing one of the following functions to be applied to the announcement: EXTUPD, STBYACT, or UPDREPT.	INH:VSSID
	Starts the initialization process for the televote master with MAPN a.	INIT:TVMASTR
	Prints the status of one announcement, all announcements per Mass Announcement Service (MAS) frame member number, or all announcements in the office.	OP:ANNSTAT
	Prints the current number of sectors busy for the specified MAS frame member number or for all MAS members in the office.	OP:SECTORS
	Results in a callback to the Voice Storage System (VSS) to request that VSS send a record update for the specified announcement.	ORD:VSS-RETRY

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Unit or Function	Purpose	Message ID
MASS ANNOUNCEMENT SYSTEM (MAS)	Starts the termination process for the telephone voting master.	RMV:TVMASTR
	Removes the audio for a standby or active version of the specified VSS, direct producer, or manual recording type of announcement.	RMV:VSSID
	Unconditionally overrides trouble conditions for the specified announcement.	SET:ANNSTAT
	Either sets up one of six different connection modes between a designated TAT on a test position and a designated trunk, or sets up a test call from TEC with no associated TAT.	SET:CONN
	Breaks the interactive diagnostic mode for the unit specified.	STOP:EX
	To verify the requested Announcement (ANN) index with the announcement treatment.	VER:ANINDEX
	Requests verification of a dial-up port client.	VER:DIALUP
	Verifies the PAS announcement data associated with the VSSID/SID, the MEMN announcement, the barge-in announcement, or all.	VER:PASANN
	Requests verification of the PAS with the cut-through function.	VER:PASCTHRU
	Requests the verification of a public announcement service with the televote application.	VER:PASTVOTE

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Unit or Function	Purpose	Message ID
MASS ANNOUNCEMENT SYSTEM (MAS)	Lists the traffic number blocks associated with each trunk subgroup in a trunk group.	VER:TFNB
MAINTENANCE CONTROL COMPLEX AND UTILITY PROCESSOR (MUP)	Uninhibit the specified Master Control Complex (MCC) And Utility Processor (MUP) automatic audit(s).	ALW:MUPAUD
	Outputs a list of service degrading conditions (failures in the network which cause loss of call handling capacity).	OP:SDC
	Diagnoses the specified Master Control Complex (MCC) And Utility Processor (MUP).	DGN:MUP
	Causes the specified number of words from Master Control Complex (MCC) And Utility Processor (MUP) memory to be printed on the Teletypewriter (TTY).	DUMP:MUP
	Exercises the specified Master Control Complex (MCC) And Utility Processor (MUP).	EX:MUP
	Inhibit the specified Master Control Complex (MCC) And Utility Processor (MUP) automatic audits.	INH:MUPAUD
	Causes the data given in the data field to be written into the designated location(s) of the Master Control Complex (MCC) And Utility Processor (MUP) memory.	LOAD:MUP
	Causes the Master Control Complex (MCC) And Utility Processor (MUP) audit inhibit status of both MUP 0 and MUP 1 to be printed on the Teletypewriter (TTY).	OP:MUPAUD

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Unit or Function	Purpose	Message ID
MAINTENANCE CONTROL COMPLEX AND UTILITY PROCESSOR (MUP)	Outputs the current status of the Master Control Complex (MCC) And Utility Processors (MUPs).	OP:MUPSTAT
	Removes the specified Master Control Complex (MCC) And Utility Processor (MUP) from service.	RMV:MUP
	Restores the specified Master Control Complex (MCC) And Utility Processor (MUP) to service, either conditionally or unconditionally.	RST:MUP
	Modifies the soak list by doing one of the following: — A unit is added to the soak list for a specified number of days. — A unit is removed from the soak list by setting the number of days to 0. — The number of soak days for a unit on the soak list is modified.	SET:SOAK
	Cancel the `TEST:MUPAUD` input request.	STOP:MUPAUD
	Switch the Master Control Complex (MCC) And Utility Processors (MUPs).	SW:MUP
	Tests the Master Control Complex (MCC) And Utility Processor (MUP) controller and clients by executing the Interface Bus (IFB) controller tests, the MUP client access tests, the MUP client Direct Memory Access (DMA) tests and the MUP client specific tests.	TEST:MUP
	Directs the Master Control Complex (MCC) And Utility Processor (MUP) to run the specified MUP audit(s).	TEST:MUPAUD

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Unit or Function	Purpose	Message ID
MEASUREMENTS (PLANT, TRAFFIC, USAGE)	Allows usage measurements to be collected on a specified TSI.	ALW:USGMEAS
	Cancels the effects of an INH:VERMSG and allows data to be output for verify messages.	ALW:VERMSG
	Audits the TPM data from the TPM tape file to the TPM data in core and FS, or corrects the system data based upon the audit results, or writes the tape data to FS in the area specified by the system maps.	AUD:TPM
	Copies the designated tape file data of a standard label tape to the specified designation in core or disk.	COPY:TAPE
	Requests that TPM data be copied onto tape.	COPY:TPM
	Inhibits usage measurements from being collected on the specified TSI.	INH:USGMEAS-TS
	Suppresses all verify output on the input channel except for error message.	INH:VERMSG
	Outputs the measurement subclasses, output measurement sets, and/or the trunk subgroups and their sizes appearing on a measurement report, the TDA system measurement classes appearing on schedule 0, the traffic schedule time tables, or the amount of spare engineer memory for traffic structures.	OP:MEASREPT
	Outputs the list of TSIs scanned for usage by traffic measurements.	OP:MEASTSI

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Unit or Function	Purpose	Message ID
MEASUREMENTS (PLANT, TRAFFIC USAGE)	Adds, deletes, or changes a TPM report.	SCHED:MEASREPT
	Adds and deletes Measurement Subclasses (MSCs) to Traffic Data Administration System (TDAS) measurement classes.	SCHED:TDASMC
	Schedules start and stop times of routine testing of trunks or service circuits.	SCHED:TRKTEST
	Cancels any verify message currently being processed on the channel on which the message is input, and optionally cancels any verify request waiting to be processed for the channel.	STOP:VERMSG
	Requests the output of the parameters defining a traffic measurement report.	VER:MEASREPT
MISCELLANEOUS POWER (XPWR)	Diagnoses the specified Miscellaneous Power (XPWR) unit.	DGN:XPWR
	Exercises the specified Miscellaneous Power (XPWR) unit.	EX:XPWR
	To print out the status of both Miscellaneous Power (XPWR) units.	OP:XPWRSTAT
	Remove the specified Miscellaneous Power (XPWR) unit from service.	RMV:XPWR
	Restores the specified Miscellaneous Power (XPWR) unit to service, either conditionally or unconditionally.	RST:XPWR

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Unit or Function	Purpose	Message ID
NETWORK CLOCK (NCLK), SYSTEM CLOCK (SCLK), CLOCK (CLK)	Causes the specified chain in the NCLK to be unpested internally.	ALW:NCLK
	Resets the specified pest of the SCLK.	ALW:SCLK
	Diagnoses the specified NCLK chain.	DGN:NCLK
	Diagnoses the specified SCLK circuitry, including NCSU.	DGN:SCLK-NCSU
	Prints the contents of the critical register of the NCLK.	DUMP:NCLK
	Prints the contents of the critical registers for the SCLK.	DUMP:SCLK
	Dumps a range of memory from NCSU through the SCLK controller.	DUMP:SCLK-NCSU
	Exercises the specified NCLK in an interactive diagnostic mode.	EX:NCLK
	Exercises the specified SCLK in an interactive diagnostic mode.	EX:SCLK
	Causes the specified chain in the NCLK to be pested internally.	INH:NCLK
	Sets the specified pest of the SCLK.	INH:SCLK
	Loads the specified critical register in the NCLK.	LOAD:NCLK
	Loads the NCSU memory through the SCLK.	LOAD:SCLK-NCSU
	Outputs the current contents of the SCLK.	OP:CLK

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Unit or Function	Purpose	Message ID
NETWORK CLOCK (NCLK), SYSTEM CLOCK (SCLK), CLOCK (CLK)	Removes the specified NCLK chain or oscillator from service.	RMV:NCLK
	Removes the specified SCLK subunit from service.	RMV:SCLK
	Restores the specified NCLK chain or oscillator to service.	RST:NCLK
	Restores the specified SCLK subunit to service.	RST:SCLK
	Sets the clock to the specified time and/or date and day of the week.	SET:CLK
	Breaks the interactive diagnostic mode for either the NCLK or the SCLK.	STOP:EX
	Switches the controllers within the specified SCLK frame.	SW:SCLK
NETWORK MANAGEMENT (NWM)	Audits the NWM data from the NWM tape file to the NWM data in core and FS, or corrects the system data based upon the audit results, or writes the tape data to FS in the area specified by the system maps.	AUD:NWM
	Copies the NWM display data onto tape, with the option of rewinding the tape and verifying the tape data with the disk data.	COPY:NWM
	Copies the designated tape file data of a standard label tape to the specified designation in core or disk.	COPY:TAPE
	Initializes the NWM display system.	INIT:NMDSYS

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Unit or Function	Purpose	Message ID
OFFICE DATA (ODA)	Audits the generic data from the generic tape file to the generic data in core and file store, or corrects the data in the system based upon the audit.	AUD:GEN
	Audits the NWM data from the NWM tape file to the NWM data in core and FS, or corrects the system data based upon the audit results, or writes the tape data to FS in the area specified by the system maps.	AUD:NWM
	Audits the ODA by using a mounted tape, or corrects data that has already been audited.	AUD:ODA
	Audits the TPM data from the TPM tape file to the TPM data in core and FS, or corrects the system data based upon the audit results, or writes the tape data to FS in the area specified by the system maps.	AUD:TPM
	Copies system data loaded from the generic tape onto tape, with an optional verify.	COPY:GEN-TAPE
	Copies the NWM display data onto tape, with the option of rewinding the tape and verifying the tape data with the disk data.	COPY:NWM
	Copies the system ODA onto tape.	COPY:ODA
	Copies the designated tape file data of a standard label tape to the specified designation in core or disk.	COPY:TAPE
	Loads the ODA by using a tape mounted on a previously specified TUC.	UPD:ODA

Unit or Function	Purpose	Message ID
OFFICE DATA (ODA)	Displays the current and/or pending RC contents of an address or range of addresses in the ODA data base.	VER:ABSOLUTE
	Requests data pertaining to the ANI Delivery Service (ADS) feature.	VER:ADSLINK
	Verifies Automatic Message Accounting (AMA) information, and prints call code and structure code mapping information.	VER:AMACODE
	Verifies a code group by displaying routing treatment and, optionally, the RDB associated with the requested code, or by displaying the screening block.	VER:CODEGRP
	To request verification of the Emergency Alternate Routings (EARs) information contained in the translators.	VER:CODEGRP-EAR
	Requests information on the MCTI contained in the CODEGRP database.	VER:CODEGRP-MCTI
	Requests verification of multiple routing treatment block.	VER:CODEGRP-MRTI
	Allows the user to verify the proportional routing translator.	VER:CODEGRP-PRTI
	Requests data pertaining to call type information referenced by SDINDEX and/or INDEX values.	VER:CODEGRP-SDX
	Requests verification of subsequent digit indexes which were manually created.	VER:CODEGRP-SDXM
	Requests a list of unassigned subsequent digit entries.	VER:CODEGRP-SDXU

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Unit or Function	Purpose	Message ID
OFFICE DATA (ODA)	To request verification of the domain type information.	VER:CODEGRP-TYPE
	Requests the verification of the list of codes or Positive Look Up (PLU) numbers that point to a particular call type.	VER:CODELIST
	Displays all codes associated to a given Destination Separation (DESEP) class.	VER:DESPLIST
	Requests verification of Dynamic Non-Hierarchical Routing (DNHR) parameters, including the forecast period change date and time, and load-set periods.	VER:DNHRMISC
	Outputs the input destination point code in all possible formats (ATT, ANSI®, ISPC, Binary and Hex), to provide the identity of the first associated TSG.	VER:DPC
	Verifies the TNS types for a specified currier code.	VER:EA-CID
	Verifies the Originating Line Identity (OLI) value conversion translator for the requested Information Digit (II) digits.	VER:EA-CONV-IIDI
	Verifies the II digit conversion translation for the specified OLI value.	VER:EA-CONV-OLI
	Requests verification of the II digits translator or OLI translator.	VER:EA-FUNC
	To request verification of the Information Digits (IIs) payphone designations.	VER:EA-IPPD
	Requests verification of NX to TNS translator.	VER:EA-NX

Unit or Function	Purpose	Message ID
OFFICE DATA (ODA)	To request verification of the Originating Line Identity (OLI) payphone designations.	VER:EA-OPPD
	Verifies service identity index information.	VER:EA-SII
	Requests verification of ZZ to TNS translator.	VER:EA-ZZ
	Requests the verification of information pertaining to far end networks.	VER:FEN
	Requests verification of the Incoming and Destination Separations Matrix.	VER:IDAM
	Requests verification of the Incoming and Destination Separations classes for the Cell Group requested.	VER:IDAMLIST
	Verifies Trunk Subgroups (TSGs) that have the given Incoming Separation (INSEP) classes.	VER:INSPLIST
	Requests display of LATA / state areas where traffic must be screened.	VER:LATASTAT-ARE
	Requests the display of the LATA / state screening matrixes.	VER:LATASTAT-MAT
	Requests the output of the parameters defining a traffic measurement report.	VER:MEASREPT
	To output point codes and subsystem numbers and feature interaction status indicators for the EasyReach capability.	VER:MISC-FHTEASY
	To output the ABC-WXYZ routing number for the International Billed Number Screening (IBNS) capability.	VER:MISC-FHTIBNS

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Unit or Function	Purpose	Message ID
OFFICE DATA (ODA)	Verifies all remaining TBS and TSGHC engineered memory, and optionally displays remaining FS or core spare space in 1024 word blocks plus the starting address.	VER:MEMORY
	Lists the Trunk Appearance Number (TAN) nailups requested.	VER:NAILUP
	Allows the user to display the data contained in the Number Services Routing Data Blocks (NDB).	VER:NDB-NDBI
	Allows the user to display all Number Service Routing Data Blocks (NDBs) which contain a specified Routing Data Block Index (RDBI).	VER:NDB-NDBLIST
	Requests the output of the Destination Point Code and Subsystem Number use to route NCD queries to the NCD Network Control Point.	VER:NPADPC
	Verifies an office generic and CLLI code.	VER:OFFICE
	Requests that the NPA-split information that is stored in the PCP be displayed.	VER:PCP-NPASPLIT
	Requests that all service code to redirect destination number mappings be displayed.	VER:PCP-SCTABLE
	Requests that all redirect service identities and access indicators be output for all combinations of the type of access and type of service.	VER:PCP-TTSII
	Verifies RDB or automatic out-of-chain RDB characteristics, and prints a list of all TSGs (including auxiliary RDBs).	VER:RDB

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Unit or Function	Purpose	Message ID
OFFICE DATA (ODA)	Displays all the RDBs that contain the input TSG, and the TSG position in the routing sequence.	VER:RDBLIST
	Used to request verify to list the indexes of a given type of routing table that contains specific calltype and calldata (optional) information.	VER:RTGLIST
	Verifies NSN characteristics of a TSG in the RTNR network.	VER:RTNR-CIN
	To verify intermediate switch list for a specified destination Network Switch Number (NSN).	VER:RTNR-ISW
	To display the service signaling types assigned for each Market Segment Index (MSI).	VER:RTNR-MSI
	Verifies the NSNAME and destination point code for a specified NSN.	VER:RTNR-NSN
	Requests the number of channels engineered and the depth factor for heavily loaded and reserved routes used in determining path selection for RTNR.	VER:RTNR-RNSN
	Requests the routing pattern identity information used for Real Time Network Routing (RTNR).	VER:RTNR-RPI
	Verifies SII and TPC used for RTNR.	VER:RTNR-SII
	Lists all assignments for input Service Identity Index (SII).	VER:RTNR-SIILIST

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Unit or Function	Purpose	Message ID
OFFICE DATA (ODA)	Requests the Service Identity Index (SII) for the specified Type Of Origin (TORIG), Type Of Destination (TDEST), Signaling Service Type (SST), and Dialed Number Service Type (DNST) used for Real Time Network Routing (RTNR).	VER:RTNR-TORIG
	Requests the output of subsequent digit indexes that contain a specified treatment.	VER:SDLIST
	Requests data specific to certain switching services.	VER:SERVICE
	Produces a list of all dangling terminals if any exist.	VER:TERMLIST
	Verifies the requested Bell Operating Company's Service Switching Point (BOC SSP) type of service information.	VER:TOS
	Verifies a message trunk by listing the TSG, TOC, ES (if any), MDN (if any), STATUS, and optionally, the TSN associated with the trunk.	VER:TRK
	Requests ISDN service data for a specified LACID.	VER:TRK-LACID-SR
	Lists the identifiers (parameters) of a specified trunk.	VER:TRKNAME
	Verifies a TSG by displaying the trunk block characteristics and disk TSG characteristics with a list of trunks by traffic number, trunk appearance number, and status.	VER:TSG
	Lists all trunk subgroups with a specified set of characteristics.	VER:TSGLIST

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Unit or Function	Purpose	Message ID
OFFICE DATA (ODA)	Displays Load Set Periods (LSPs) 0-15 in two blocks (Block A and Block B) and the associated TTSNAME to a Terminating Toll Switch Index (TTSI).	VER:TTS-TTSI
	Displays all Terminating Toll Switch Indexes (TTSIs) associated to a given Routing Data Block Index (RDBI).	VER:TTSLIST
	Verifies the UTYPE member equipage, submember equipage, or an octal dump of the specified unit type translator.	VER:UTYPE
	Requests the verification of miscellaneous data and specific information based upon the input VFUNC keyword.	VER:VFUNC
	Requests the verification of miscellaneous data and specific information based upon the input VFUNC keyword.	VER:VFUNC-STAT
PERIPHERAL MAINTENANCE OPERATING SYSTEMS (PMOS)	Starts or stops the specified task(s) executing under the PMOS.	INIT:PMOS
	Enables or disables certain utility functions.	INIT:PMOS-UTIL
	Outputs task information stored in the TCB or TRC.	OP:PMOS
PERIPHERAL UTILITY PROGRAM (PULP)	Prints the contents of the critical registers for the specified DT.	DUMP:DT-CREG
	Dumps the contents of the internal registers for the specified DT.	DUMP:DT-IREG
	Prints the contents of the critical register for the specified I/O unit.	DUMP:IOUS

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Unit or Function	Purpose	Message ID
PERIPHERAL UTILITY PROGRAM (PULP)	Prints the contents of the critical register for the NCLK.	DUMP:NCLK
	Dumps the specified matrix range in the specified SP.	DUMP:SP
	Prints the buffer for the specified SP.	DUMP:SP-BUF
	Prints the critical registers for the specified SP.	DUMP:SP-CREG
	Prints the internal registers for the specified SP.	DUMP:SP-IREG
	Dumps the specified memory range for the specified SP.	DUMP:SP-MEM
	Prints the contents of the critical register for the specified TAC.	DUMP:TGR-CREG
	Prints the contents of the internal registers for the specified TAC.	DUMP:TGR-IREG
	Prints the contents of the terminal memory for the specified TAC.	DUMP:TGR-MEM
	Prints the memory for the specified TMSP.	DUMP:TMSP-CONT
	Prints the critical registers for the specified TMSP.	DUMP:TMSP-CREG
	Prints the internal register for the specified TMSP.	DUMP:TMSP-IREG
	Prints the critical registers for the specified TSI.	DUMP:TSI-CREG
	Prints the buffer memory D for the specified TSI.	DUMP:TSI-MEM
	Prints the time-slot memory for the specified TSI.	DUMP:TSI-MEME

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Unit or Function	Purpose	Message ID
PERIPHERAL UTILITY PROGRAM (PULP)	Prints the busy-idle map memory for the specified TSI.	DUMP:TSI-SPC
	This command dumps (reads) the specified memory in either the Expanded Time Slot Interchange (XTSI) controller, Digital Signal Level 3 Unit (D3U) or Signal Processing Unit (SPU).	DUMP:TSIMEM
	Prints the memory for the specified VIF.	DUMP:VIF-CONTR
	Prints the critical registers for the specified VIF.	DUMP:VIF-CREG
	Prints the internal register for the specified VIF.	DUMP:VIF-IREG
	Loads the specified CREG in the NCLK.	LOAD:NCLK
	Loads the SP internal register.	LOAD:SP-IREG
	Loads the SP memory.	LOAD:SP-MEM
	Loads the TMSP CREG.	LOAD:TMSP-CREG
	Loads the specified TMSP memory.	LOAD:TMSP-MEM
	Loads the specified TSI CREG.	LOAD:TSI-CREG
	Loads the specified TSI memory.	LOAD:TSI-MEM
	Loads the VIF and activates the trunk audit.	LOAD:VIF-ATA
	Loads the VIF, and disables low frequency exerciser controller 0.	LOAD:VIF-DLFC0
	Loads the VIF, and disables the low frequency exerciser controller 1.	LOAD:VIF-DLFC1

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Unit or Function	Purpose	Message ID
PERIPHERAL UTILITY PROGRAM (PULP)	Loads the VIF and disables the low frequency exerciser controller 2.	LOAD:VIF-DLFC2
	Loads the VIF and disables the multiple VIU failure alarm on the spare unit.	LOAD:VIF-DMVIU
	Loads the VIF and disables the time slot exchange function.	LOAD:VIF-DTSE
	Loads the VIF and enables the multiple VIU alarm on the spare unit.	LOAD:VIF-EMVIU
	Loads the VIF and enables the indicator check frame.	LOAD:VIF-ENICF
	Loads the VIF and enables the protection switch.	LOAD:VIF-EPS
	Loads the VIF and enables quiet tone.	LOAD:VIF-EQT
	Loads the VIF and enables the select mode.	LOAD:VIF-ESM
	Loads the VIF and enables the trunk audit.	LOAD:VIF-ETA
	Loads the VIF and enables the time slot exchange functions.	LOAD:VIF-ETSE
	Loads the VIF and enables VIC steering flip-flop on ESR, connecting the error source register to the VIC error sources.	LOAD:VIF-EVICS
	Loads the VIF and enables VIU steering flip-flop on ESR, connecting the error source register to the IGFET status memory.	LOAD:VIF-EVIUS
	Loads and executes the VIF function.	LOAD:VIF-EX

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Unit or Function	Purpose	Message ID
PERIPHERAL UTILITY PROGRAM (PULP)	Loads the VIF and exercises out-of-frame indicator, forcing a reframe in the timing receiver digital.	LOAD:VIF-EXOOF
	Loads the VIF and exercises the status indicator multiplier.	LOAD:VIF-EXSIM
	Loads the VIF and exercises VIC error indicators.	LOAD:VIF-EXVIC
	Loads the VIF and flashes to the A side (CONT0) of the timing bus.	LOAD:VIF-FA
	Loads the VIF and flashes to the B side (CONT1) of the timing bus.	LOAD:VIF-FB
	Loads the VIF and gates all the time slots toward facility.	LOAD:VIF-GAF
	Loads the VIF and gates all time slots toward the switch.	LOAD:VIF-GAS
	Loads the VIF and gates a time slot toward the facility.	LOAD:VIF-GTF
	Loads the VIF and gates a time slot toward the switch.	LOAD:VIF-GTS
	Loads the VIF and inhibits the indicator check frame.	LOAD:VIF-INHIC
	Loads the VIF and inhibits the protection switch.	LOAD:VIF-IPS
	Loads the VIF and inhibits the select mode.	LOAD:VIF-ISM
	Loads the VIF and loops all of the time slots towards the facility.	LOAD:VIF-LAF

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Unit or Function	Purpose	Message ID
PERIPHERAL UTILITY PROGRAM (PULP)	Loads the VIF and loops all trunks at the VF input.	LOAD:VIF-LAI
	Loads the VIF and loops all of the time slots toward the switch.	LOAD:VIF-LAS
	Loads the VIF and loops the bit stream.	LOAD:VIF-LBS
	Loads the VIF and low frequency control 0.	LOAD:VIF-LFC0
	Loads the VIF and low frequency control 1.	LOAD:VIF-LFC1
	Loads the VIF and low frequency control 2.	LOAD:VIF-LFC2
	Loads the VIF and the VIC register.	LOAD:VIF-LR
	Loads the VIF and load register from status.	LOAD:VIF-LRSM
	Loads the VIF and loops a single time slot toward the facility.	LOAD:VIF-LTF
	Loads the VIF and loops a trunk at the VIF input.	LOAD:VIF-LTI
	Loads the VIF and loops a single time slot toward the facility.	LOAD:VIF-LTS
	Loads the VIF and resets the low frequency clock.	LOAD:VIF-RC
	Loads the VIF and resets the control bus flip-flops.	LOAD:VIF-REFF
	Loads the VIF and reads status memory word.	LOAD:VIF-RESM
	Loads the VIF and resets the error source register steering flip-flops.	LOAD:VIF-RESR

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Unit or Function	Purpose	Message ID
PERIPHERAL UTILITY PROGRAM (PULP)	Loads the VIF and re-enables the signal generator.	LOAD:VIF-RMW
	Loads the VIF and resets status indicator multiplexor exerciser.	LOAD:VIF-RSIEX
	Loads the VIF and resets status memory.	LOAD:VIF-RSM
	Loads the VIF and resets trunk audit.	LOAD:VIF-RTA
	Loads the VIF and resets VIC exercisers.	LOAD:VIF-RVICX
	Loads the VIF and applies digital signal generator on all time slots toward facility.	LOAD:VIF-SAF
	Loads the VIF and applies digital signal on all time slots toward the switch.	LOAD:VIF-SAS
	Loads the VIF and selects flip-flop 0 for VIU control bus.	LOAD:VIF-SEFF0
	Loads the VIF and selects flip-flop 1 for the VIU control bus.	LOAD:VIF-SEFF1
	Loads the VIF and applies the digital signal generator on a time slot toward the facility.	LOAD:VIF-STF
	Loads the VIF and applies a digital signal on a time slot toward the switch.	LOAD:VIF-STS
	Loads the VIF and selects voice frequency tone generator from VIC0.	LOAD:VIF-SVF0
	Loads the VIF and selects voice frequency tone generator from VIC1.	LOAD:VIF-SVF1
	Loads the VIF and undoes flash A.	LOAD:VIF-UFA
	Loads the VIF and undoes flash B.	LOAD:VIF-UFB

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Unit or Function	Purpose	Message ID
PERIPHERAL UTILITY PROGRAM (PULP)	Loads the VIF and undoes the gate all toward the facility.	LOAD:VIF-UGAF
	Loads the VIF and undoes the gate all toward switch.	LOAD:VIF-UGAS
	Loads the VIF and undoes the loop all toward the facility.	LOAD:VIF-ULAF
	Loads the VIF and unloops all trunks at the VF input.	LOAD:VIF-ULAI
	Loads the VIF and undoes the loop all toward the switch.	LOAD:VIF-ULAS
	Loads the VIF and unloops bit stream.	LOAD:VIF-ULBS
	Loads the VIF and unlocks the clock select and buffer.	LOAD:VIF-ULCSB
	Loads the VIF and undoes loop trunk toward facility.	LOAD:VIF-ULTF
	Loads the VIF and undoes loop trunk toward switch.	LOAD:VIF-ULTS
	Loads the VIF and undoes the protection switch.	LOAD:VIF-UPSW
	Loads the VIF and undoes the reset status memory.	LOAD:VIF-URSM
	Loads the VIF and undoes the digital signal generator function.	LOAD:VIF-USAF
	Loads the VIF and undoes the digital signal generator from time slot.	LOAD:VIF-USAS
	Loads the VIF and undoes the unlock clock select and buffer.	LOAD:VIF-UUSCB
	Loads and initializes the VIF.	LOAD:VIF-VI

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Unit or Function	Purpose	Message ID
PERIPHERAL UTILITY PROGRAM (PULP)	Loads the VIF and writes the status memory word.	LOAD:VIF-WRSM
	Request a list of Universal Global Title Translation (UGTT) data base for specific Numbering Plan Areas (NPAs) and Numbering Plans (NUMPLs).	VER:GT
PESTS	Unpests either all DTs or specified DTUs.	ALW:DT
	Causes the specified pest of the EST to be reset.	ALW:EST
	Resets the specified pest of the SCLK.	ALW:SCLK
	Causes the specified SP pest to be reset.	ALW:SP
	Unpests the K-code pest at the CC, unpests a controller, or unpests terminals.	ALW:TGR
	Causes the specified TMSP controller to be unpested.	ALW:TMSP
	Resets the ASW and parity pest at the CC for the specified TSI, unpests the specified TSI, or unpests the specified ports.	ALW:TSI
	Resets the specified pest(s) in a VIF.	ALW:VIF
	Pests either all DTs or specified DTUs.	INH:DT
	Sets the specified pests for the echo suppressor.	INH:EST
	Sets SP, ASW, SP controller internal pest, and parity pests at the CC.	INH:SP

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Unit or Function	Purpose	Message ID
PESTS	Pests K-code pests of ASW and pest errors at the CC, pests a controller or pests terminals.	INH:TGR
	Pests the specified TMS controller internally.	INH:TMSP
	Sets the ASW and parity pest for the specified TSI at the CC, pests the specified TSI internally or pests the specified ports.	INH:TSI
	Sets the specified pest(s) in a VIF.	INH:VIF
	Initializes peripheral pest table, including all peripheral pest records, MCODE pests, and APUF, PUF, APUT, ASW, and parity.	INIT:PERIFINH
	Outputs a list of the CC maintenance interrupt and maintenance interject sources that are inhibited, and indicates whether or not write project has been inhibited.	OP:INHINT
	Requests a printout of K-code and peripheral unit pests that are set.	OP:PERIFINH
PHASES AND SYSTEM RECOVERY (SR)	Clears the last set of output messages recorded on disk during a phase so that new messages can be saved if another phase occurs.	CLR:MSGRCD
	Outputs messages recorded on disk from the last phase that saved output messages.	OP:MSGRCD
	Outputs SIC0s phase error history.	OP:PHSEHST

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Unit or Function	Purpose	Message ID
POWER, RINGING AND TONE (RT)	Diagnoses the specified power control distribution frame.	DGN:PCD
	Exercises the specified PCD frame in an interactive diagnostic mode.	EX:PCD
	Requests the status of each side of the RT plant.	OP:RTSTAT
	Outputs the state of one of the duplicated tone trunks distributed by the dedicated TSI from the RT plant or milliwatt supply.	OP:TONESTAT
	Establishes or removes a connection between the milliwatt supply and a specified trunk.	ORD:MW
	Removes the specified PCD converter or distribution circuit from service.	RMV:PCD
	Removes from service the specified tone trunk distributed by the dedicated TSI.	RMV:TONE-MWF
	Restores the specified PCD converter or distribution circuit to service.	RST:PCD
	Restores to service a duplicated tone trunk distributed by the dedicated TSI.	RST:TONE-MWF
PROGRAM STORE (PS), PROGRAM STORE BUS (PSB)	Copies the data at designated locations of main memory to the specified destination in main memory, File System (FS), or tape.	COPY:CS
	Copies the data at designated locations of main memory to the specified destination in main memory, File System (FS), or tape.	COPY:CSS

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Unit or Function	Purpose	Message ID
PROGRAM STORE (PS), PROGRAM STORE BUS (PSB)	Copies the data at designated locations of main memory to the specified destination in main memory, File System (FS), or tape.	COPY:PSS
	Diagnoses the specified PS.	DGN:PS
	Diagnoses the specified PSB.	DGN:PSB
	Causes the specified number of words from main memory to be printed on the Teletypewriter (TTY). Output format default will be octal.	DUMP:CS
	Causes the specified number of words from main memory to be printed on the Teletypewriter (TTY). Output format default will be octal.	DUMP:CSS
	Causes the specified number of words from File System (FS) to be printed on the Teletypewriter (TTY).	DUMP:FS
	Causes the specified number of words from main memory to be printed on the Teletypewriter (TTY).	DUMP:PSS
	Exercises the PS in an interactive diagnostic mode.	EX:PS
	Exercises the PSB in an interactive diagnostic mode.	EX:PSB
	Causes the data given in the data field to be written into the designated location(s) of main memory.	LOAD:CS
	Causes the data given in the data field to be written into the designated location(s) of main memory.	LOAD:CSS

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Unit or Function	Purpose	Message ID
PROGRAM STORE (PS), PROGRAM STORE BUS (PSB)	Causes the data given in the data field to be written into the designated location(s) of main memory.	LOAD:PSS
	Outputs the current PS status of the system.	OP:PSSTATUS
	Removes the specified PS from service.	RMV:PS
	Removes the specified PSB from service.	RMV:PSB
	Freezes data in a duplicated PS(s) by placing the standby store in the maintenance mode.	RMV:PS-MCODE
	Restores to service the specified PS.	RST:PS
	Restores to service the specified PSB.	RST:PSB
	Sets the specified PS to a particular K-code or to a particular speed mode.	SET:PS
	Breaks the interactive diagnostic mode for the PS or PSB.	STOP:EX
RECENT CHANGE (RC)	Clears the RCB of all messages in the buffered state.	CLR:RCB
	To request the output of the order number of a recent change form that is in the process of being activated.	OP:ORNU
	Outputs the test of recent change message in the buffered state.	OP:RCBMSG
	Outputs a list of RC order numbers for any messages in the RC message buffer.	OP:RCBORNU
	Outputs the amount of available message storage space in the RC message buffer.	OP:RCBSPACE

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Unit or Function	Purpose	Message ID
RECENT CHANGE (RC)	Outputs the format of a RC message form to be filled out.	OP:RCFORM
	Outputs a list of the order numbers in the RC rollback area.	OP:RCRORNU
	Activates a RC that is in the test state.	RCACT:ORNU
	Cancels a RC message that is currently in the buffered state.	RCCNL:RCBORNU
	Removes one recent change that has been successfully entered in the system.	RCCNL:ROLLBACK
	Places a buffered state RC message into the test state.	RCTST:ORNU
	To request an interrupt of a recent change form that is in the process of being activated.	STOP:RCACT
	Displays the current and/or pending absolute RC contents of an address or range of addresses in the ODA data base.	VER:ABSOLUTE
	Requests information on the CANIs contained in the PCP database.	VER:PCP
	Requests the verification of the metric reports for all activated Recent Change Forms (RCFORM) and messages.	VER:RCFORM
RECORDED ANNOUNCEMENT (RA)	Outputs the state of each channel in a recorded announcement machine.	OP:RASTAT
	Removes a RA channel, channels, or an entire machine from service.	RMV:RA
	Restores to service a RA channel, channels, or entire machine.	RST:RA

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Unit or Function	Purpose	Message ID
SCAN AND SIGNAL DISTRIBUTOR (SSD) POINTS	Diagnoses the specified Scan And Signal Distributor (SSD).	DGN:SSD
	Exercises the specified Scan And Signal Distributor (SSD).	EX:SSD
	Initiates a ring forward, or a forward transfer on a Trunk Under Test (TUT).	ORD:RF
	Reads a specified universal or miscellaneous scan point or group of points.	ORD:SCAN
	Operates, releases, or reads one or a group of signal distributor points.	ORD:SD
	Controls the T-bits associated with scan points.	ORD:TBITS
	Removes the specified Scan And Signal Distributor (SSD) from service.	RMV:SSD
	Restores the specified Scan And Signal Distributor (SSD) to service, either conditionally or unconditionally.	RST:SSD
	Tests the specified Scan And Signal Distributor (SSD) by executing the SSD-deferred fault-recognition program.	TEST:SSD
SEGMENTATION DIRECTORY (SD)	Removes the Network Management (NM) specified overrides for Segmentation Directory (SD) from service.	RMV:SDNMOVDS
SERVICE CIRCUIT SYSTEM (SCS)	Resets the Service Circuit System (SCS) pests.	ALW:SCS

Unit or Function	Purpose	Message ID
SERVICE CIRCUIT SYSTEM (SCS)	This command clears all breakpoints from a Service Circuit System (SCS) frame, or from the frame controllers only, or from a Service Circuit Unit (SCU) only.	CLR:BP-SCS
	The purpose of this message is to perform any of the following: 1. an inter- Service Circuit Unit (SCU) file copy, 2. an intra-SCU file copy, 3. an intra-SCU raw disk copy, or 4. an Attached Processor System (APS) to SCU file copy. The inter-SCU file copy message is used to copy a file from disk pair 0 of one SCU to disk pair 0 of another SCU. The intra-SCU file copy message is used to copy a file on the mirrored disk of disk pair 0. The intra-SCU raw disk copy message is used to copy an entire disk within the same SCU. The APS to SCU file copy message is used to copy a single file from the APS disk to the disks on one or more SCUs.	COPY:SCS
	Diagnoses the specified Service Circuit System (SCS).	DGN:SCS
	Dumps up to 64 words (16 bits per word) of hexadecimal data starting at the designated location of the specified Service Circuit Unit (SCU).	DUMP:DISK-SCS

Unit or Function	Purpose	Message ID
SERVICE CIRCUIT SYSTEM (SCS)	This command dumps (reads) the specified number of words of memory from either the Service Circuit System (SCS) controller or a Service Circuit Unit (SCU).	DUMP:MEMORY-SCS
	Format 1 dumps the Service Circuit System (SCS) frame CREG or IREG registers. Format 2 dumps the Service Circuit Unit (SCU) IREG registers.	DUMP:SCS
	Exercises in an interactive diagnostic mode the Service Circuit System (SCS).	EX:SCS
	Set Service Circuit System (SCS) pests.	INH:SCS
	Enables or disables specified utility functions. Format [1] requests the Local Variable Stack (LVS) audit. Format [2] requests the frame/ Central Control (CC) bus routing trap. Format [3] disables all Input/Output (I/O) controlled utility functions.	INIT:PMOS-UTIL
	The Service Circuit System (SCS) disk format utility commands is used to: 1. Format the specified Service Circuit Unit (SCU) disk. 2. Set some static flags on the disk to indicate whether the disk has been formatted. 3. Form the file descriptor table if the disk pair zero is being formatted and save that on the disk. 4. Initialize the data structure that are used for announcement tables. 5. Set the final handling announcement table in disk pair 0 to the default state.	INIT:SCS

Unit or Function	Purpose	Message ID
SERVICE CIRCUIT SYSTEM (SCS)	Writes one word (16 bits) of hexadecimal data onto the designated location of the specified Service Circuit Unit (SCU) disk pair.	LOAD:DISK-SCS
	This command loads (writes) the specified word of memory into either the Service Circuit System (SCS) controller or a Service Circuit Unit (SCU).	LOAD:MEMORY-SCS
	Format [1] loads the Service Circuit System (SCS) CREG or IREG registers with the data specified through a mask. Format [2] loads the Service Circuit Unit (SCU) IREG registers with the data specified through a mask.	LOAD:SCS
	This command lists the address and type of each breakpoint currently set in a Service Circuit System (SCS) frame; in the frame controllers only; or in a Service Circuit Unit (SCU) only. This command also allows the user to request a summary list of which units in an SCS frame contains one or more breakpoints.	OP:BP-SCS
	Outputs a list of units that are out-of-service.	OP:OOSUNITS
	Removes the specified Service Circuit System (SCS) frame submember from service.	RMV:SCS
	Restores the specified Service Circuit System (SCS) to service. If Unconditional (UCL) is specified, the unit is restored without diagnosis, independent of the state of the frame Power Control Switch (PCS). If UCL is not specified, the subunit is diagnosed and is restored if All Tests Pass (ATP).	RST:SCS

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Unit or Function	Purpose	Message ID
SERVICE CIRCUIT SYSTEM (SCS)	This command sets a breakpoint in the controller(s) or a Service Circuit Unit (SCU) of a Service Circuit System (SCS) frame.	SET:BP-SCS
	To stop an intra Service Circuit Unit (SCU) disk copy, or an Attached Processor System (APS) to SCU file copy.	STOP:COPY
	To stop the format (Init) of a Service Circuit Unit (SCU) disk.	STOP:INIT
	Switches controllers activity within the specified Service Circuit System (SCS). If the specified SCS frame is simplex, the out-of-service controller is restored to service (made active) and the previously in-service controller is removed from service. If the specified SCS frame is duplex, the current active controller is made standby and the current standby controller is made active. The SCS remains duplex.	SW:SCS
	The purpose of this update message is to replace the software in one Service Circuit System (SCS) controller with another software version and make the controller active. When the initial system configuration is duplex both controllers will be updated with the new software version. This message would normally be used as part of a system-wide generic retrofit or an SCS software upgrade.	UPD:SCS

Unit or Function	Purpose	Message ID
SERVICE CIRCUIT SYSTEM (SCS)	Verifies the Public Announcement Service (PAS) announcement data associated with the Voice Storage Identification (VSSID)/ Service Identification (SID), the barge-in or Service Circuit System (SCS) announcement, or all announcements.	VER:PASANN
	Request output per-announcement data for input Final Handling Treatments (FHT).	VER:SCS-FHT
	Requests the verification of Service Circuit System Sub-Unit Data (SCSDATA) for the requested Service Circuit System (SCS) member number.	VER:VFUNC-SCSDAT
	Verifies the unit type member equipage, submember equipage, or an octal dump of the specified unit type translator.	VER:UTYPE
SIGNAL PROCESSOR (SP)	Resets the specified SP pests.	ALW:SP
	Allows printing of `REPT:SDU` output messages.	ALW:SDUREPT
	Diagnoses the specified SP.	DGN:SP
	Dumps the specified matrix range in the specified SP.	DUMP:SP
	Prints the buffer for the specified SP.	DUMP:SP-BUF
	Prints the CREGs for the specified SP.	DUMP:SP-CREG
	Prints the internal registers for the specified SP.	DUMP:SP-IREG
	Dumps the specified memory range for the specified SP.	DUMP:SP-MEM
	Exercises the SP in an interactive diagnostic mode.	EX:SP

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Unit or Function	Purpose	Message ID
SIGNAL PROCESSOR (SP)	Inhibits the printing of REPT:SDU output messages.	INH:SDUREPT
	Sets the SP, ASW, parity pests and the SP controller internal pest at the CC.	INH:SP
	Aborts the pulse point cycle operation for SPs.	LOAD:SP-ABORT
	Writes a pulse point or row of pulse points once per executive control base level cycle.	LOAD:SP-CYCLE
	Loads the SP internal register.	LOAD:SP-IREG
	Loads the SP memory.	LOAD:SP-MEM
	Loads the TDN, MDN, or PP sections of the SP with the specified data.	LOAD:SP-TDN
	Removes from service the specified SP submember.	RMV:SP
	Restore to service the specified subunit.	RST:SP
	Breaks the interactive diagnostic mode for the SP.	STOP:EX
	Requests verification of data in the MSN or MDN translator.	VER:0
	Requests verification of data in the Miscellaneous Distributor Number (MDN) translator.	VER:MDN
	Requests verification of data in the Miscellaneous Scanner Number (MSN).	VER:MSN
	Verifies the identification of a Signaling Processor (SP) matrix circuit pack and lists all the points on the pack.	VER:SPMTXPK

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Unit or Function	Purpose	Message ID
STREAM EXERCISER (STRMEX)	Allows the stream exerciser program to run.	ALW:STRMEX
	Inhibits the stream exerciser program from running. This is used to test the Direct Memory Access (DMA) capability between the 1B processor and Attached Processor System (APS)	INH:STRMEX
	Sends test messages from the 1B processor to the Attached Processor System (APS) and sets the rate at which the messages are sent.	SET:STRMEX
SURVIVABLE SIGNALING NETWORK (SSN)	Prints the Survivable Signaling Network (SSN) link status data table.	OP:SSN-LINKSTAT
	Requests either a management hinder or a management unhinder of a specified S-link.	OP:SSN-MAN
	Prints the Survivable Signaling Network (SSN) routing data table. The configuration data represents a local switch's view of the SSN network in both physical connectivity and logical connectivity.	OP:SSN-RT
	Prints the Survivable Signaling Network (SSN) S-link identity table.	OP:SSN-SLKSTAT
	Prints the Survivable Signaling Network (SSN) link state packet data table.	OP:SSN-STAT
	Initiates a minimum-hop routing verification test to a specified destination Network Switch Number (NSN).	OP:SSN-TST

Unit or Function	Purpose	Message ID
SURVIVABLE SIGNALING NETWORK (SSN)	To request output of a Survivable Signaling Network (SSN) S-link network for the specified Network Switch Number (NSN).	VER:SSN-NSN
SWITCH FABRIC INTERFACE (SFI)	Outputs the current status of the Switch Fabric Interface (SFI) devices.	OP:SFISTAT
	Tests the Switch Fabric Interface (SFI) by executing the Interface Bus (IFB) controller tests, the SFI client access tests, the SFI client Direct Memory Access (DMA) tests and the SFI client specific tests.	TEST:SFI
TAPE ADMINISTRATION SYSTEM (TAS)	Initializes the user files in the TAS.	CLR:TASP
TEST CALLS	The purpose of this message is (1) to output the complete list of trunks currently involved in the direct test access connection function, or (2) to output detailed direct test access connection information for the input trunk.	OP:DTAC
TEST CALLS	Establishes or releases a direct test access connection between the circuit(s) to be tested and the protocol analysis equipment. Trunks under test may be nailed-up or single circuits.	SET:DTAC
TEST POSITION (TP)	Reinitializes the test position directory table from unit type translation data.	INIT:TPDT
	Requests list of all monitor connections to 51A test positions.	OP:MONTAB
	Reroutes the termination of incoming 101 calls intended for test position ’a’ to test position ´b’.	RTE:TP

Unit or Function	Purpose	Message ID
TIME ASSIGNMENT SPEECH INTERPOLATION (TASI) FRAME	Displays the Trunk Subgroup (TSG) and Miscellaneous Scanner Number (MSN) assignments for each of the five cliques in a TASI frame.	VER:TASI
TIME MULTIPLEXED SWITCH PAIR (TMS)	Causes the specified TMSP controller to be unpested.	ALW:TMSP
	Diagnoses the specified TMSP.	DGN:TMSP
	Prints the memory for the specified TMSP.	DUMP:TMSP-CONT
	Prints the CREGs for the specified TMSP.	DUMP:TMSP-CREG
	Prints the internal register for the specified TMSP.	DUMP:TMSP-IREG
	Exercises the specified TMSP in an interactive diagnostic mode.	EX:TMSP
	Pests the specified TMSP controller internally.	INH:TMSP
	Loads the TMSP CREG.	LOAD:TMSP-CREG
TIME MULTIPLEXED SWITCH PAIR (TMS)	Loads the specified TMSP memory.	LOAD:TMSP-MEM
	Removes the specified TMSP submember from service.	RMV:TMSP
	Restores to service the specified TMSP submember.	RST:TMSP
	Breaks the interactive diagnostic mode for the TMSP.	STOP:EX
TIME SLOT INTERCHANGE (TSI)	Restores the ASW and parity pest at the CC for the specified TSI, unpests the specified TSI internally, or unpests the specified ports.	ALW:TSI

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Unit or Function	Purpose	Message ID
	Allows printing of REPT:SDU output messages.	ALW:SDUREPT
	Allows usage measurements to be collected on a specified TSI.	ALW:USGMEAS
	Diagnoses the specified TSIF.	DGN:TSI
	Prints the CREGs for the specified TSI.	DUMP:TSI-CREG
	Prints the buffer memory D for the specified TSI.	DUMP:TSI-MEM
	Prints the time-slot memory for the specified TSI.	DUMP:TSI-MEME
	Prints the busy-idle map memory for the specified TSI.	DUMP:TSI-SPC
	This command dumps (reads) the specified memory in either the Expanded Time Slot Interchange (XTSI) controller, Digital Signal Level 3 Unit (D3U) or Signal Processing Unit (SPU).	DUMP:TSIMEM
TIME SLOT INTERCHANGE (TSI)	Exercises the specified TSIF in an interactive diagnostic mode.	EX:TSI
	Inhibits the printing of REPT:SDU output messages.	INH:SDUREPT
	Sets the ASW and parity pest for the specified TSI, pests the specified TSI internally, or pests the specified ports.	INH:TSI
	Loads the specified TSI CREG.	LOAD:TSI-CREG
	Loads the specified TSI memory.	LOAD:TSI-MEM
	Removes the specified TSIF subunit from service.	RMV:TSI

Unit or Function	Purpose	Message ID
	Restores to service the specified TSIF subunit.	RST:TSI
	Modifies the TMS/TSI.	SET:NETROUT
	Breaks the interactive diagnostic mode for the TSI.	STOP:EX
	Request Time Slot Interchange (TSI) units that are equipped with wideband.	VER:TSI-WIDEBAND
TROUBLE LOCATING PROCEDURE (TLP)	Restarts an inhibited TLP search process and/or permits a specific unit or set of units to enqueue the TLP summary data in the TLP disk queue.	ALW:TLP
	Manually generates the TLP summary data in order to create a TLP disk queue file which will be processed by the TLP search program.	ANALY:TLPFILE
	Requests the removal of a TLP disk queue file from the TLP disk queue.	CLR:TLPQUEUE
TROUBLE LOCATING PROCEDURE (TLP)	Inhibits the TLP search process and/or prevents a specific unit or set of units from enqueueing the TLP summary data in the TLP disk queue.	INH:TLP
	Initializes all TLP call stores, removes all entries from the TLP queue and cancels any TLP MACP clients, such as with TLP utility programs.	INIT:TLP
	Requests the printing of the status of the TLP disk queue.	OP:TLPQUEUE

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Unit or Function	Purpose	Message ID
TRUNKS (TRKs)	Allows restrictions to be cleared from the trunk(s) specified.	CLR:TRKSTAT
	Adds or deletes a carrier group to or from the carrier group alarm test list.	IN:CGALIST
	Outputs the status of all carrier groups on the CGA test line, carrier groups with MSNs set to ignore, and CCIS carrier groups protected by the software carrier group alarm algorithm, whose alarm state has been set to ignore.	OP:CGASTAT
	Requests list of active network functions, time remaining and trunks involved.	OP:NTWKTAB
	Outputs a list of all TANTOTAN connections of a requested type in the office.	OP:TANTOTAN
	Outputs the state of one of the duplicated tone trunks distributed by the dedicated TSI from the RT plant or milliwatt supply.	OP:TONESTAT
	Outputs a list of all the trunks currently in a hold state.	OP:TRKHOLD
TRUNKS (TRKs)	Outputs the maintenance status and trunk status of the specified trunk, or group of trunks.	OP:TRKSTAT
	Outputs the contents of the trunk subgroup cell data and the contents of the Adjunct Headcell. When the LINK option is input, this message will output the trunk blocks in the input trunk subgroup that are preferred by trunk hunt, and the trunk blocks that are currently non-preferred by trunk hunt.	OP:TSGHC

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Unit or Function	Purpose	Message ID
	Outputs TSG maintenance status data, in detailed or summary form, for all TSGs in the office, all TSGs in the specified trunk control area, or for a single TSG.	OP:TSGSTAT
	Sets up or releases a connection to use VIF / VIU functions to place an analog loop across the specified trunk at its input to the VIU and to transmit digital milliwatt toward the facility side of the trunk.	ORD:ALTIDMWF
	Sets up or releases a connection to use VIF / VIU functions in placing an analog loop across the specified trunk at input of VIU.	ORD:ALTIVU
	Establishes or removes a connection between a network digital loop and a specified trunk.	ORD:DLOOP
	Sets up or releases a connection to use VIF / VIU functions to transmit digital milliwatt toward facility side of specified trunk.	ORD:DMWTF
	Establishes or removes a connection between the milliwatt supply and a specified trunk.	ORD:MW
TRUNKS (TRKs)	Establishes or removes a connection between the -10dbm 1004-Hz supply and a specified trunk.	ORD:MW10
	Initiates the set up or the release of a TANTOTAN connection.	ORD:TANTOTAN
	To operate, release, or read the Terminate And Leave (T&L) status of a given trunk.	ORD:TL

Unit or Function	Purpose	Message ID
	Starts or stops trap reports for reporting timeout teleconferencing data.	ORD:TRPTCDAT
	Removes from service the specified tone trunk distributed by the dedicated TSI.	RMV:TONE-MWF
	Restores to service a duplicated tone trunk distributed by the dedicated TSI.	RST:TONE-MWF
	Schedules start and stop times or routine testing of trunks or service circuits.	SCHED:TRKTEST
	Sets the traffic sampling rate to the specified value.	SET:CAMATRFS
	Sets MSN and software CGA word of a hardware type carrier group alarm to ACCEPT or IGNORE state.	SET:CGACNTL
	Sets up one of six different connection modes between a designated TAT on a test position and a designated trunk or sets up a test call from TEC with no associated TAT.	SET:CONN
	Establishes or releases or connection between a Digital Tests Access Trunk (DTAT) and designated Digital Data Trunk (DDT).	SET:DCONN
TRUNKS (TRKs)	Sets the maintenance status of the specified trunk, or group of trunks, to the specified state.	SET:TRKSTAT
	Sets TSG automatic test control for specified TSG or group of TSGs to specified value.	SET:TSGATC
	Sets the TSG trunk error analysis control for the specified TSG or group of TSGs to the specified control value.	SET:TSGEAC

Unit or Function	Purpose	Message ID
	Stops the processing of the `CLR:TRKSTAT` message.	STOP:CLR-TRKSTAT
	Stops all group-type `OP:TRKSTAT` functions which are outputting to the same TTY channel as the `STOP:OP-TRKSTA` message on input.	STOP:OP-TRKSTA
	Stops output of `OP:TSGSTAT` to this output channel.	STOP:OP-TSGSTA
	Stops all group-type `SET:TRKSTAT` junctions that were requested by this channel.	STOP:SET-TRKST
	Forces termination of the test merge feature of the system update procedure.	STOP:TEST-CORE
	Terminates scheduling of routine maintenance tests for peripheral system.	STOP:TEST-PUSY
	Stops all group trunk tests that are in progress which were requested from the same input channel as the `STOP:TEST-TRK` message on input.	STOP:TEST-TRK
	Performs the specified type of test on the specified trunk or group of trunks.	TEST:TRK
TRUNKS (TRKs)	Traces the status of a trunk, traces and holds a network connection, or releases a trunk previously placed on hold.	TRC:TRK
	To display the matching Customer Data Block Indices (CDBIs) that are assigned to the input Automatic Number Identification (ANI) number.	VER:CDB-ANI
	Verifies Customer Data Block (CDB) information and prints billing data.	VER:CDB-CDBI

Unit or Function	Purpose	Message ID
	Verifies Customer Routing Block (CRB) information and prints linking data	VER:CRB-CRBI
	Verifies all Customer Routing Blocks (CRB) that contain the Customer Data Block Index (CDBI) or TAN specified.	VER:CRBLIST
	Requests verification of Dynamic Non-Hierarchical Routing (DNHR) parameters, including the forecast period change date and time, and load-set periods.	VER:DNHRMISC
	Verifies a code group by displaying routing treatment and, optionally, the RDB associated with the requested code, or by displaying the screening block.	VER:CODEGRP
	Requests the verification of the list of codes or Positive Look Up (PLU) numbers that point to a particular call type.	VER:CODELIST
	Verifies Trunk Subgroups (TSGs) that have the given Incoming Separation (INSEP) classes.	VER:INSPLIST
TRUNKS (TRKs)	Verifies all remaining trunk block status and TSG head cell engineered memory, and displays remaining FS or core store space in 1024 word blocks plus the starting address.	VER:MEMORY
	Lists the Trunk Appearance Number (TAN) nailups requested.	VER:NAILUP
	Verifies RDB or automatic out-of-chain RDB characteristics, and prints a list of all TSGs (including auxiliary RDBs).	VER:RDB
	Displays all the RDBs that contain the input TSG and also displays the TSGs position in the routing sequence.	VER:RDBLIST

Unit or Function	Purpose	Message ID
	Verifies a message trunk by listing the TSG, TOC, ES (if any), MDN (if any), STATUS, and optionally, the TSN associated with the trunk.	VER:TRK
	Allows the user to display all B-channels of a D-channel.	VER:TRK-LACID
	Lists the identifiers (parameters) of a specified trunk.	VER:TRKNAME
	Lists the status of customer out-of-band trunks.	VER:TRK-COOB
	Verifies the LACID and all B-channels of a given D-channel.	VER:TRK-PTAN
	Verifies a trunk subgroup by displaying the trunk block characteristics and disk TSG characteristics with a list of trunks by traffic number, trunk appearance number, and status.	VER:TSG
TRUNKS (TRKs)	Lists all trunk subgroups with a specified set of characteristics.	VER:TSGLIST
UPDATE	Forces termination of the test merge feature of the system update procedure.	STOP:TEST-CORE
	Stops a tape load at any time after the initial request has been made.	STOP:UPD
	Forces termination of the system update procedure.	STOP:UPD-CORE
	Forces termination of the system update procedure.	STOP:UPD-FS
	Terminates the data set insert mode.	STOP:UPD-UTL
	Instructs the system update program to update core memory from the updated	UPD:CORE

Unit or Function	Purpose	Message ID
	FS.	
	Initiates the request to the SYUP program to process a generic tape for either a full system update or a partial system update and place the data on a previously selected set of file stores.	UPD:FS-GEN
	Loads the generic data by using a tape mounted on the specified tape unit, particularly for restoring a file store after a duplex failure.	UPD:GEN
VACANT CODE ANALYSIS (VCNT)	Allows vacant code processing on data previously inhibited by an INH message, based on its vacant code class, trunk group, ABCDEF digits, or a combination of these.	ALW:VCNT
	Inhibits a vacant code processing on data, based on its vacant code class, trunk group, ABCDEF digits, or a combination of these.	INH:VCNT
VACANT CODE ANALYSIS (VCNT)	Prints vacant code daily analysis report.	OP:VCNT
	Sets threshold or prints threshold either high or low, to specified value in the vacant code analysis program.	SET:VCNT
VOICEBAND INTERFACE FRAME (VIF)	Causes the specified pest(s) to be reset on a VIF.	ALW:VIF
	Allows printing of `REPT:SDU` output messages.	ALW:SDUREPT
	Diagnoses the specified VIF.	DGN:VIF
	Prints the memory for the specified VIF.	DUMP:VIF-CONTR

Unit or Function	Purpose	Message ID
	Prints the CREGs for the specified VIF.	DUMP:VIF-CREG
	Prints the internal register for the specified VIF.	DUMP:VIF-IREG
	Exercises the specified VIF in an interactive diagnostic mode.	EX:VIF
	Inhibits the printing of `REPT:SDU` output messages.	INH:SDUREPT
	Loads the VIF and activates the trunk audit.	LOAD:VIF-ATA
	Loads the VIF and clears status memory.	LOAD:VIF-CMS
	Loads the VIF, and disables low frequency exerciser controller 0.	LOAD:VIF-DLFC0
	Loads the VIF, and disables the low frequency exerciser controller 1.	LOAD:VIF-DLFC1
VOICEBAND INTERFACE FRAME (VIF)	Loads the VIF and disables the low frequency exerciser controller 2.	LOAD:VIF-DLFC2
	Loads the VIF and disables the multiple VIU failure alarm on the spare unit.	LOAD:VIF-DMVIU
	Loads the VIF and disables the time slot exchange function.	LOAD:VIF-DTSE
	Loads the VIF and enables the multiple VIU alarm on the spare unit.	LOAD:VIF-EMVIU
	Loads the VIF and enables the indicator check frame.	LOAD:VIF-ENICF
	Loads the VIF and enables the protection switch.	LOAD:VIF-EPS

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Unit or Function	Purpose	Message ID
	Loads the VIF and enables quiet tone.	LOAD:VIF-EQT
	Loads the VIF and enables the select mode.	LOAD:VIF-ESM
	Loads the VIF and enables the trunk audit.	LOAD:VIF-ETA
	Loads the VIF and enables the time slot exchange functions.	LOAD:VIF-ETSE
	Loads the VIF and enables VIC steering flip-flop on ESRP, connecting the error source register to the VIC error sources.	LOAD:VIF-EVICS
	Loads the VIF and enables VIU steering flip-flop on ESR, connecting the error source register to the IGFET status memory.	LOAD:VIF-EVIUS
	Loads the VIF and executes the VIF function.	LOAD:VIF-EX
VOICEBAND INTERFACE FRAME (VIF)	Loads the VIF and exercises out-of-frame indicator, forcing a reframe in the timing receiver digital.	LOAD:VIF-EXOOF
	Loads the VIF and exercises the status indicator multiplier.	LOAD:VIF-EXSIM
	Loads the VIF and exercises VIC error indicators.	LOAD:VIF-EXVIC
	Loads the VIF and flashes to the A side (CONT0) of the timing bus.	LOAD:VIF-FA
	Loads the VIF and flashes to the B side (CONT1) of the timing bus.	LOAD:VIF-FB
	Loads the VIF and gates all the time slots toward facility.	LOAD:VIF-GAF

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Unit or Function	Purpose	Message ID
	Loads the VIF and gates all time slots toward the switch.	LOAD:VIF-GAS
	Loads the VIF and gates a time slot toward the facility.	LOAD:VIF-GTF
	Loads the VIF and gates a time slot toward the switch.	LOAD:VIF-GTS
	Loads the VIF and inhibits the indicator check frame.	LOAD:VIF-INHIC
	Loads the VIF and inhibits the protection switch.	LOAD:VIF-IPS
	Loads the VIF and inhibits the select mode.	LOAD:VIF-ISM
	Loads the VIF and loops all of the time slots towards the facility.	LOAD:VIF-LAF
VOICEBAND INTERFACE FRAME (VIF)	Loads the VIF and loops all trunks at the VF input.	LOAD:VIF-LAI
	Loads the VIF and loops all of the time slots toward the switch.	LOAD:VIF-LAS
	Loads the VIF and loops the bit stream.	LOAD:VIF-LBS
	Loads the VIF and low frequency control 0.	LOAD:VIF-LFC0
	Loads the VIF and low frequency control 1.	LOAD:VIF-LFC1
	Loads the VIF and low frequency control 2.	LOAD:VIF-LFC2
	Loads the VIF and the VIC register.	LOAD:VIF-LR

Unit or Function	Purpose	Message ID
	Loads the VIF and load register from status.	LOAD:VIF-LRSM
	Loads the VIF and loops a single time slot toward the facility.	LOAD:VIF-LTF
	Loads the VIF and loops a trunk at the VIF input.	LOAD:VIF-LTI
	Loads the VIF and loops a single time slot toward the facility.	LOAD:VIF-LTS
	Loads the VIF and resets the low frequency clock.	LOAD:VIF-RC
	Loads the VIF and resets the control bus flip-flops.	LOAD:VIF-REFF
	Loads the VIF and reads status memory word.	LOAD:VIF-RESM
VOICEBAND INTERFACE FRAME (VIF)	Loads the VIF and resets the error source register steering flip-flops.	LOAD:VIF-RESR
	Loads the VIF and re-enables the signal generator.	LOAD:VIF-RMW
	Loads the VIF and resets status indicator multiplexor exerciser.	LOAD:VIF-RSIEX
	Loads the VIF and resets status memory.	LOAD:VIF-RSM
	Loads the VIF and resets trunk audit.	LOAD:VIF-RTA
	Loads the VIF and resets VIC exercisers.	LOAD:VIF-RVICX
	Loads the VIF and applies digital signal generator on all time slots toward facility.	LOAD:VIF-SAF

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Unit or Function	Purpose	Message ID
	Loads the VIF and applies digital signal on all time slots toward the switch.	LOAD:VIF-SAS
	Loads the VIF and selects flip-flop 0 for VIU control bus.	LOAD:VIF-SEFF0
	Loads the VIF and selects flip-flop 1 for the VIU control bus.	LOAD:VIF-SEFF1
	Loads the VIF and applies the digital signal generator on a time slot toward the facility.	LOAD:VIF-STF
	Loads the VIF and applies a digital signal on a time slot toward the switch.	LOAD:VIF-STS
	Loads the VIF and selects voice frequency tone generator from VIC0.	LOAD:VIF-SVF0
VOICEBAND INTERFACE FRAME (VIF)	Loads the VIF and selects voice frequency tone generator from VIC1.	LOAD:VIF-SVF1
	Loads the VIF and undoes flash A.	LOAD:VIF-UFA
	Loads the VIF and undoes flash B.	LOAD:VIF-UFB
	Loads the VIF and undoes the gate all toward the facility.	LOAD:VIF-UGAF
	Loads the VIF and undoes the gate all toward switch.	LOAD:VIF-UGAS
	Loads the VIF and undoes the loop all toward the facility.	LOAD:VIF-ULAF
	Loads the VIF and unloops all trunks at the VF input.	LOAD:VIF-ULAI
	Loads the VIF and undoes the loop all toward the switch.	LOAD:VIF-ULAS

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Unit or Function	Purpose	Message ID
	Loads the VIF and unloops bit stream.	LOAD:VIF-ULBS
	Loads the VIF and unlocks the clock select and buffer.	LOAD:VIF-ULCSB
	Loads the VIF and undoes loop trunk toward facility.	LOAD:VIF-ULTF
	Loads the VIF and undoes loop trunk toward switch.	LOAD:VIF-ULTS
	Loads the VIF and undoes the protection switch.	LOAD:VIF-UPSW
	Loads the VIF and undoes the reset status memory.	LOAD:VIF-URSM
VOICEBAND INTERFACE FRAME (VIF)	Loads the VIF and undoes the digital signal generator function.	LOAD:VIF-USAF
	Loads the VIF and undoes the digital signal generator from time slot.	LOAD:VIF-USAS
	Loads the VIF and undoes the unlock clock select and buffer.	LOAD:VIF-UUSCB
	Loads initializes the VIF.	LOAD:VIF-VI
	Loads the VIF and writes the status memory word.	LOAD:VIF-WRSM
	Removes the specified VIF submember from service.	RMV:VIF
	Restores to service the specified VIF submember.	RST:VIF
	Breaks the VIF interactive diagnostic mode.	STOP:EX

Unit or Function	Purpose	Message ID
	Switches controllers or submembers within the specified VIF frame.	SW:VIF
	Request a list of Universal Global Title Translation (UGTT) data base for specific Numbering Plan Areas (NPAs) and Numbering Plans (NUMPLs).	VER:GT
NON-SECURE CALL STORE (XS)	Copies the data at designated locations of main memory to the specified destination in main memory, File System (FS), or tape.	COPY:XS
	Causes the specified number of words from extended main memory to be printed on the Teletypewriter (TTY).	DUMP:XS
NON-SECURE CALL STORE (XS)	Allows specification of a condition that must be met in order for the generic utility functions following the `IF` clause to be executed.	IF:XS
	Causes the data given in the data field to be written into the designated location(s) of main memory.	LOAD:XS
EXPANDED TIME SLOT INTERCHANGE (XTSI)	This message is used to perform unpesting operations.	ALW:XTSI
	This command clears all breakpoints from a Expanded Time Slot Interchange (XTSI) frame, or from the frame controllers only, or from a Digital Signal Level 3 Unit (D3U) only.	CLR:TSIBP
	Copies all or one file(s) on the Expanded Time Slot Interchange (XTSI) flash memory.	COPY:TSIFILE
	Diagnose the specified Expanded Time Slot Interchange (XTSI).	DGN:XTSI

Unit or Function	Purpose	Message ID
	Displays 1 to 64 16-bit hex words of a Expanded Time Slot Interchange (XTSI) flash memory file starting at a user specified file address offset.	DUMP:TSIFILE
	Prints the critical registers for the specified Expanded Time Slot Interchange (XTSI).	DUMP:XTSI-CREG
	Dumps the maintenance data for the particular Digital Signal Level 3 Unit (D3U) of an Expanded Time Slot Interchange (XTSI) frame.	DUMP:XTSI-D3U
	Dumps the maintenance data for the particular In-Band Unit (**IBU**) of an Expanded Time Slot Interchange (**XTSI**) frame.	DUMP:XTSI-IBU
EXPANDED TIME SLOT INTERCHANGE (XTSI)	Prints the internal controller registers for the specified Expanded Time Slot Interchange (XTSI) frame.	DUMP:XTSI-IREG
	Dumps the maintenance data for the particular Signal Processing Unit (SPU) of an Expanded Time Slot Interchange (XTSI) frame.	DUMP:XTSI-SPU
	Exercises the specified Expanded Time Slot Interchange (XTSI) frame in an interactive diagnostic mode.	EX:XTSI
	This message performs pesting operations.	INH:XTSI
	Initializes Performance Monitoring (PM) status memory for the specified Expanded Time Slot Interchange (XTSI) Digital Signal Level 1 (DS1s).	INIT:PMSTAT
	Writes one word (16 bits) of hexadecimal data onto the flash memory residing in the Expanded Time	LOAD:TSIFILE

Unit or Function	Purpose	Message ID
	Slot Interchange (XTSI).	
	Loads the Internal Registers (IREG) of the specified Digital Signal Level 3 Unit (D3U), in a particular Expanded Time Slot Interchange (XTSI) frame.	LOAD:XTSI-D3U
	Loads the Internal Registers (**IREG**) of the specified In-Band Unit (**IBU**), in a particular Expanded Time Slot Interchange (**XTSI**) frame.	LOAD:XTSI-IBU
	Loads the specified Expanded Time Slot Interchange (XTSI) Internal Register (IREG), or Critical Register (CREG).	LOAD:XTSI-IREG
EXPANDED TIME SLOT INTERCHANGE (XTSI)	Outputs the current status of the specified Digital Signal Level 1 (DS1). Data is obtained from Expanded Time Slot Interchange (XTSI) DS1 registers in memory.	OP:PMSTAT
	This command lists the address and type of each breakpoint currently set in an Expanded Time Slot Interchange (XTSI) frame; in the frame controllers only; or in a Digital Signal Level 3 Unit (D3U) only.	OP:TSIBP
	Removes the specified Expanded Time Slot Interchange (XTSI) frame from service.	RMV:XTSI
	Restores the specified Expanded Time Slot Interchange (XTSI) frame subunit to service.	RST:XTSI
	Rapid restore all Out Of Service (OOS) subunits on the requested Expanded Time Slot Interchange (XTSI).	RST:XTSI-ALL
	This command sets a breakpoint in the controller(s) or a Digital Signal Level 3	SET:TSIBP

Unit or Function	Purpose	Message ID
	Unit (D3U) client of a Expanded Time Slot Interchange (XTSI) frame.	
	Stops all `OP:PMSTAT` output which was requested from the same Teletypewriter (TTY) channel as the STOP:OP;PMSTAT input message was entered.	STOP:OP-PMSTAT
	Switches controller's activity within the specified Expanded Time Slot Interchange (XTSI) frame.	SW:XTSI
EXPANDED TIME SLOT INTERCHANGE (XTSI)	This update message replaces the software in an Expanded Time Slot Interchange (XTSI) controller or its subunits with another software version, then makes the controller or its subunits active.	UPD:XTSI
	To output the 10-digit Advanced Intelligent Network (AIN) triggers that are contained in the expanded 10-digit trigger database.	VER:MISC-AINTRIG
	Requests the verification of miscellaneous data and specific information for the Expanded Time Slot Interchange In-Band Unit (**`XTSIIBU`**).	VER:VFUNC-XTSIIB

3.4 VOLUME 1 ALPHABETICAL INDEX

MESSAGE NAME	MESSAGE ID	START GENERIC	ISSUE
ALW:	ALW:0	4E19	1
ALW:APMSG	ALW:APMSG	4E19	1
ALW:APS	ALW:APS	4E19	1.1
ALW:AUD	ALW:AUD	4E19	1
ALW:AUDMSG	ALW:AUDMSG	4E19	1
ALW:CAMAONI	ALW:CAMAONI	4E19	1
ALW:CATLAS	ALW:CATLAS	4E19	1
ALW:DGRPT	ALW:DGRPT	4E19	1
ALW:DGSTAT	ALW:DGSTAT	4E19	1.3
ALW:DIF	ALW:DIF	4E19	1
ALW:DT	ALW:DT	4E19	1
ALW:ERAP	ALW:ERAP	4E19	1.1
ALW:EST	ALW:EST	4E19	1
ALW:FNS	ALW:FNS	4E19	1
ALW:IAOFC	ALW:IAOFC	4E19	1
ALW:IATSG	ALW:IATSG	4E19	1
ALW:IATSGCNT	ALW:IATSGCNT	4E19	1
ALW:IOUS	ALW:IOUS	4E19	1
ALW:LCHAN;CHAN	ALW:LCHAN	4E19	1
ALW:LIBMSG	ALW:LIBMSG	4E19	1
ALW:MACLI	ALW:MACLI	4E23R3	1.4
ALW:MCC	ALW:MCC	4E19	1
ALW:MUPAUD	ALW:MUPAUD	4E19	1.3
ALW:NCATANOM	ALW:NCATANOM	4E19	1
ALW:NCLK	ALW:NCLK	4E19	1
ALW:RINGOVLD	ALW:RINGOVLD	4E19	1
ALW:SCLK	ALW:SCLK	4E19	1
ALW:SCS	ALW:SCS	4E19	1.1
ALW:SDUREPT	ALW:SDUREPT	4E19	1.1
ALW:SDYGRP	ALW:SDYGRP	4E19	1
ALW:SP	ALW:SP	4E19	1
ALW:STRMEX	ALW:STRMEX	4E19 only	1
ALW:TAPEXLAT	ALW:TAPEXLAT	4E19	1
ALW:TDAS	ALW:TDAS	4E19	1
ALW:TGR	ALW:TGR	4E19	1
ALW:TLP	ALW:TLP	4E22	1.4
ALW:TMSP	ALW:TMSP	4E19	1
ALW:TSI	ALW:TSI	4E21	1.4
ALW:TUC	ALW:TUC	4E19 thru 4E21	1.3
ALW:USGMEAS	ALW:USGMEAS	4E19	1

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MESSAGE NAME	MESSAGE ID	START GENERIC	ISSUE
ALW:UTIL	ALW:UTIL	4E19	1.1
ALW:UTILMSG	ALW:UTILMSG	4E19	1.1
ALW:VCNT	ALW:VCNT	4E19	1
ALW:VERMSG	ALW:VERMSG	4E19	1
ALW:VIF	ALW:VIF	4E19	1
ALW:VSSID	ALW:VSSID	4E19	1
ALW:WPAD	ALW:WPAD	4E19	1.1
ALW:XALM	ALW:XALM	4E21	1.3
ALW:XTSI	ALW:XTSI	4E24R2	1.6
ANALY:DIGROUP	ANALY:DIGROUP	4E19	1
ANALY:TLPFILE	ANALY:TLPFILE	4E23	1.5
APMSG	APMSG:0	4E19	1
APPENDIX CALLTYPE TABLES	APP:CALLTYPE	4E25R4	1.7
AUD:ERAPDATA	AUD:ERAPDATA	4E19	1.1
AUD:GEN	AUD:GEN	4E22	1.4
AUD:LIBSYS	AUD:LIBSYS	4E22	1.4
AUD:NUM	AUD:NUM	4E21	1.2
AUD:NWM	AUD:NWM	4E22	1.4
AUD:ODA	AUD:ODA	4E22	1.4
AUD:PUSTAT	AUD:PUSTAT	4E19	1.3
AUD:TPM	AUD:TPM	4E22	1.4
CFR:ALMGRP	CFR:ALMGRP	4E19	1
CFR:SIGLK	CFR:SIGLK	4E19	1
CLR:ADSFUNC	CLR:ADSFUNC	4E19 thru 4E21	1.4
CLR:APS	CLR:APS	4E19	1
CLR:BP	CLR:BP-SCS	4E19	1
CLR:CCECTRS	CLR:CCECTRS	4E19	1
CLR:CHAN	CLR:CHAN	4E19	1
CLR:ERAPCOND	CLR:ERAPCOND	4E19	1
CLR:ERAPDATA	CLR:ERAPDATA	4E19	1
CLR:ERAPSRES	CLR:ERAPSRES	4E19	1
CLR:FNS	CLR:FNS	4E19	1
CLR:IAOFC	CLR:IAOFC	4E20	1.4
CLR:IDUMP	CLR:IDUMP	4E19	1.1
CLR:IFBECTRS	CLR:IFBECTRS	4E24	1.5
CLR:MACLI	CLR:MACLI	4E19	1.1
CLR:MSGRCD	CLR:MSGRCD	4E19	1
CLR:RCB	CLR:RCB	4E19	1
CLR:SAWSLOCK	CLR:SAWSLOCK	4E19	1
CLR:SDYGRP	CLR:SDYGRP	4E19	1

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Volume 1 Alphabetical Index (Continued)

MESSAGE NAME	MESSAGE ID	START GENERIC	ISSUE
CLR:TASP	CLR:TASP	4E19	1
CLR:TLPQUEUE	CLR:TLPQUEUE	4E19	1
CLR:TRKSTAT	CLR:TRKSTAT	4E22	1.4
CLR:TSIBP	CLR:TSIBP	4E24R2	1.6
CLR:UTIL	CLR:UTIL	4E19	1.3
CLR:UTILDS	CLR:UTILDS	4E19	1.1
CLR:UTILFLG	CLR:UTILFLG	4E21	1.2
COPY:A1B	COPY:A1B	4E22	1.6
COPY:CS	COPY:CS	4E22	1.6
COPY:CSS	COPY:CSS	4E22	1.6
COPY:FS	COPY:FS	4E24	1.6
COPY:GEN[,ODA];TAPE	COPY:GEN-TAPE	4E19 thru 4E21	1.4
COPY:NWM	COPY:NWM	4E19 thru 4E21	1.3
COPY:ODA	COPY:ODA	4E19 thru 4E21	1.3
COPY:OWBUF	COPY:OWBUF	4E19	1.1
COPY:PSS	COPY:PSS	4E22	1.6
COPY:SCS	COPY:SCS	4E22	1.4
COPY:TAPE	COPY:TAPE	4E21 only	1.3
COPY:TPM	COPY:TPM	4E19 thru 4E21	1.4
COPY:TSIFILE	COPY:TSIFILE	4E21	1.3
COPY:XS	COPY:XS	4E22	1.6
COPY:XTSI	COPY:XTSI	4E24R2	1.6
DGN:API	DGN:API	4E19	1
DGN:AUB	DGN:AUB	4E19	1
DGN:AUI	DGN:AUI	4E19	1
DGN:CC	DGN:CC	4E19	1
DGN:CS	DGN:CS	4E19	1
DGN:CSB	DGN:CSB	4E19	1.2
DGN:DIF	DGN:DIF	4E19	1
DGN:DT	DGN:DT	4E19	1
DGN:EST	DGN:EST	4E19	1
DGN:IFB	DGN:IFB	4E19	1
DGN:IOUS	DGN:IOUS	4E19	1
DGN:MUP	DGN:MUP	4E19	1
DGN:NCLK	DGN:NCLK	4E19	1
DGN:PCD	DGN:PCD	4E19	1
DGN:PS	DGN:PS	4E19	1
DGN:PSB	DGN:PSB	4E19	1.2
DGN:PUB	DGN:PUB-RPT	4E19	1
DGN:SCLK	DGN:SCLK-NCSU	4E19	1

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MESSAGE NAME	MESSAGE ID	START GENERIC	ISSUE
DGN:SCS	DGN:SCS	4E22	1.4
DGN:SP	DGN:SP	4E19	1
DGN:SSD	DGN:SSD	4E19	1
DGN:TGR	DGN:TGR	4E19	1
DGN:TMSP	DGN:TMSP	4E19	1.7
DGN:TSI	DGN:TSI	4E21	1.3
DGN:VIF	DGN:VIF	4E19	1
DGN:XPWR	DGN:XPWR	4E19	1
DGN:XTSI	DGN:XTSI	4E24R2	1.6
DUMP:A1B	DUMP:A1B	4E21	1.3
DUMP:CC	DUMP:CC	4E21	1.3
DUMP:CS	DUMP:CS	4E21	1.3
DUMP:CSS	DUMP:CSS	4E21	1.3
DUMP:DIF	DUMP:DIF	4E19	1
DUMP:DIF	DUMP:DIF-BUF	4E19	1
DUMP:DIF	DUMP:DIF-CREG	4E19	1
DUMP:DIF	DUMP:DIF-DIU	4E19	1
DUMP:DIF	DUMP:DIF-EXCRAM	4E19	1
DUMP:DIF	DUMP:DIF-IREG	4E19	1
DUMP:DIF	DUMP:DIF-MAPRT	4E19	1
DUMP:DIF	DUMP:DIF-MEM	4E19	1
DUMP:DIF	DUMP:DIF-PTSRPS	4E19	1
DUMP:DIF	DUMP:DIF-PTSS	4E19	1
DUMP:DIF	DUMP:DIF-SPSTS	4E19	1
DUMP:DIF	DUMP:DIF-SPTSS	4E19	1
DUMP:DIF	DUMP:DIF-TBIT	4E19	1
DUMP:DISK	DUMP:DISK-SCS	4E22	1.4
DUMP:DT	DUMP:DT-CREG	4E19	1
DUMP:DT	DUMP:DT-IREG	4E19	1
DUMP:EST	DUMP:EST-CREG	4E19	1
DUMP:EST	DUMP:EST-ESU	4E19	1
DUMP:EST	DUMP:EST-MEM	4E19	1
DUMP:EST	DUMP:EST-TSMEM	4E19	1
DUMP:FS	DUMP:FS	4E24	1.6
DUMP:FS	DUMP:FS-ACT	4E20 only	1.3
DUMP:IOUS	DUMP:IOUS	4E19	1
DUMP:LIBSYS	DUMP:LIBSYS	4E19	1
DUMP:MEMORY	DUMP:MEMORY-SCS	4E19	1
DUMP:MUP	DUMP:MUP	4E22	1.3
DUMP:NCLK	DUMP:NCLK	4E19	1

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MESSAGE NAME	MESSAGE ID	START GENERIC	ISSUE
DUMP:PSS	DUMP:PSS	4E21	1.3
DUMP:aREG	DUMP:REG	4E21	1.2
DUMP:SCLK	DUMP:SCLK	4E19	1
DUMP:SCLK	DUMP:SCLK-NCSU	4E19	1
DUMP:SCS	DUMP:SCS	4E19	1
DUMP:SP	DUMP:SP	4E19	1
DUMP:SP	DUMP:SP-BUF	4E19	1
DUMP:SP	DUMP:SP-CREG	4E19	1
DUMP:SP	DUMP:SP-IREG	4E19	1
DUMP:SP	DUMP:SP-MEM	4E19	1
DUMP:TAPE	DUMP:TAPE	4E19 thru 4E21	1.3
DUMP:TGR	DUMP:TGR-CREG	4E19	1
DUMP:TGR	DUMP:TGR-IREG	4E19	1
DUMP:TGR	DUMP:TGR-MEM	4E19	1
DUMP:TMSP	DUMP:TMSP-CONT	4E19	1
DUMP:TMSP	DUMP:TMSP-CREG	4E19	1
DUMP:TMSP	DUMP:TMSP-IREG	4E19	1
DUMP:TSI	DUMP:TSI-CREG	4E19	1.4
DUMP:TSI	DUMP:TSI-MEM	4E19	1
DUMP:TSI	DUMP:TSI-MEME	4E19	1.4
DUMP:TSI	DUMP:TSI-SPC	4E19	1.4
DUMP:TSIFILE	DUMP:TSIFILE	4E21	1.3
DUMP:TSIMEM	DUMP:TSIMEM	4E24R2	1.6
DUMP:UMEM	DUMP:UMEM	4E19	1.1
DUMP:VIF	DUMP:VIF-CONTR	4E19	1
DUMP:VIF	DUMP:VIF-CREG	4E19	1
DUMP:VIF	DUMP:VIF-IREG	4E19	1
DUMP:XS	DUMP:XS	4E21	1.3
DUMP:XTSI	DUMP:XTSI-CREG	4E21	1.4
DUMP:XTSI	DUMP:XTSI-D3U	4E21	1.4
DUMP:XTSI	DUMP:XTSI-IBU	4E24R2	1.6
DUMP:XTSI	DUMP:XTSI-IREG	4E21	1.4
DUMP:XTSI	DUMP:XTSI-SPU	4E24R2	1.6

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3.5 VOLUME 2 ALPHABETICAL INDEX

MESSAGE NAME	MESSAGE ID	START GENERIC	ISSUE
ELSE:	ELSE:0	4E19	1.1
EX:API	EX:API	4E19	1
EX:AUB	EX:AUB	4E19	1
EX:AUI	EX:AUI	4E19	1
EX:CC	EX:CC	4E19	1
EX:CMSLINK	EX:CMSLINK	4E19	1
EX:CS	EX:CS	4E19	1
EX:CSB	EX:CSB	4E19	1.2
EX:DIF	EX:DIF	4E19	1
EX:DT	EX:DT	4E19	1
EX:EST	EX:EST	4E19	1
EX:IFB	EX:IFB	4E19	1
EX:IOUS	EX:IOUS	4E19	1
EX:LIBSYS	EX:LIBSYS	4E19	1
EX:MUP	EX:MUP	4E19	1
EX:NCLK	EX:NCLK	4E19	1
EX:PCD	EX:PCD	4E19	1
EX:PS	EX:PS	4E19	1
EX:PSB	EX:PSB	4E19	1.2
EX:PUB	EX:PUB	4E19	1
EX:SCLK	EX:SCLK	4E19	1
EX:SCS	EX:SCS	4E19	1
EX:SP	EX:SP	4E19	1
EX:SSD	EX:SSD	4E19	1
EX:TGR	EX:TGR	4E19	1
EX:TMSP	EX:TMSP	4E19	1.4
EX:TSI	EX:TSI	4E21	1.3
EX:VIF	EX:VIF	4E19	1
EX:XPWR	EX:XPWR	4E19	1
EX:XTSI	EX:XTSI	4E24R2	1.6
EXC:UTILDS	EXC:UTILDS	4E19	1.1
IF:A1B	IF:A1B	4E21	1.2
IF:CC	IF:CC	4E21	1.3
IF:CS	IF:CS	4E21	1.2
IF:CSS	IF:CSS	4E21	1.2
IF:PSS	IF:PSS	4E21	1.2
IF:aREG	IF:REG	4E21	1.2
IF:UMEM	IF:UMEM	4E21	1.2

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MESSAGE NAME	MESSAGE ID	START GENERIC	ISSUE
IF:XS	IF:XS	4E21	1.2
IN:CGALIST	IN:CGALIST	4E19	1
IN:ERAPCOND	IN:ERAPCOND	4E19	1.1
IN:ERAPDATA	IN:ERAPDATA	4E19	1
IN:LIBSYS	IN:LIBSYS	4E19	1
IN:OWBUF	IN:OWBUF	4E21	1.6
IN:SDYGRP	IN:SDYGRP	4E19	1
IN:UTILDS	IN:UTILDS	4E19	1.1
INH:	INH:0	4E19	1
INH:APMSG	INH:APMSG	4E19	1
INH:APS	INH:APS	4E19	1.1
INH:AUD	INH:AUD	4E19	1
INH:AUDMSG	INH:AUDMSG	4E19	1
INH:CAMAONI	INH:CAMAONI	4E19	1
INH:CATLAS	INH:CATLAS	4E19	1
INH:DGRPT	INH:DGRPT	4E19	1
INH:DGSTAT	INH:DGSTAT	4E19	1.3
INH:DIF	INH:DIF	4E19	1
INH:DT	INH:DT	4E19	1
INH:ERAP	INH:ERAP	4E19	1
INH:EST	INH:EST	4E19	1
INH:FNS	INH:FNS	4E19	1
INH:IAOFC	INH:IAOFC	4E19	1
INH:IATSG	INH:IATSG	4E19	1
INH:IATSGCNT	INH:IATSGCNT	4E19	1
INH:IOUS	INH:IOUS	4E19	1
INH:LCHAN;CHAN	INH:LCHAN	4E19	1
INH:LIBMSG	INH:LIBMSG	4E19	1
INH:MACLI	INH:MACLI	4E23R3	1.4
INH:MUPAUD	INH:MUPAUD	4E19	1.3
INH:NCATANOM	INH:NCATANOM	4E19	1
INH:NCLK	INH:NCLK	4E19	1
INH:RINGOVLD	INH:RINGOVLD	4E19	1
INH:SCLK	INH:SCLK	4E19	1
INH:SCS	INH:SCS	4E19	1.1
INH:SDUREPT	INH:SDUREPT	4E19	1
INH:SDYGRP	INH:SDYGRP	4E19	1
INH:SP	INH:SP	4E19	1
INH:STRMEX	INH:STRMEX	4E19 only	1
INH:TAPEXLAT	INH:TAPEXLAT	4E19	1

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Volume 2 Alphabetical Index (Continued)

MESSAGE NAME	MESSAGE ID	START GENERIC	ISSUE
INH:TGR	INH:TGR	4E19	1
INH:TLP	INH:TLP	4E22	1.4
INH:TMSP	INH:TMSP	4E19	1
INH:TSI	INH:TSI	4E21	1.3
INH:TUC	INH:TUC	4E19 thru 4E21	1.3
INH:USGMEAS	INH:USGMEAS-TS	4E19	1
INH:UTIL	INH:UTIL	4E19	1.1
INH:UTILMSG	INH:UTILMSG	4E19	1.1
INH:VCNT	INH:VCNT	4E19	1
INH:VERMSG	INH:VERMSG	4E19	1
INH:VIF	INH:VIF	4E19	1
INH:VSSID	INH:VSSID	4E19	1
INH:WPAD	INH:WPAD	4E19	1
INH:XALM	INH:XALM	4E21	4
INH:XTSI	INH:XTSI	4E24R2	1.6
INIT:ALM	INIT:ALM	4E19	1
INIT:DFSTAT	INIT:DFSTAT	4E19	1
INIT:DGSTAT	INIT:DGSTAT	4E22	1.4
INIT:FERAOVRD	INIT:FERAOVRD	4E19	1
INIT:LIBSYS	INIT:LIBSYS	4E19 thru 4E21	1.3
INIT:MSGCLS	INIT:MSGCLS	4E19	1
INIT:NMDSYS	INIT:NMDSYS	4E19	1
INIT:PERIFINH	INIT:PERIFINH	4E19	1.1
INIT:PMOS	INIT:PMOS	4E19	1
INIT:PMOS	INIT:PMOS-UTIL	4E24R2	1.6
INIT:PMSTAT	INIT:PMSTAT	4E22	1.3
INIT:PUEXINIT	INIT:PUEXINIT	4E19	1
INIT:SCHAN	INIT:SCHAN	4E19	1.1
INIT:SCS	INIT:SCS	4E22	1.4
INIT:TLP	INIT:TLP	4E19	1
INIT:TPDT	INIT:TPDT	4E19	1
INIT:TVMASTR	INIT:TVMASTR	4E19	1
LOAD:A1B	LOAD:A1B	4E21	1.2
LOAD:CS	LOAD:CS	4E21	1.2
LOAD:CSS	LOAD:CSS	4E21	1.2
LOAD:DIF	LOAD:DIF-BUF	4E19	1
LOAD:DIF	LOAD:DIF-CREG	4E19	1
LOAD:DIF	LOAD:DIF-EXCRAM	4E19	1
LOAD:DIF	LOAD:DIF-IREG	4E19	1
LOAD:DIF	LOAD:DIF-MAPRT	4E19	1

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MESSAGE NAME	MESSAGE ID	START GENERIC	ISSUE
LOAD:DIF	LOAD:DIF-MEM	4E19	1
LOAD:DIF	LOAD:DIF-PTSRPS	4E19	1
LOAD:DIF	LOAD:DIF-PTSS	4E19	1
LOAD:DIF	LOAD:DIF-SPSTS	4E19	1
LOAD:DIF	LOAD:DIF-SPTSS	4E19	1
LOAD:DIF	LOAD:DIF-TBIT	4E19	1
LOAD:DIF	LOAD:DIF-USN	4E19	1
LOAD:DISK	LOAD:DISK-SCS	4E22	1.4
LOAD:EST	LOAD:EST-CREG	4E19	1
LOAD:EST	LOAD:EST-ESU	4E19	1
LOAD:EST	LOAD:EST-LLMEM	4E19	1
LOAD:LIBSYS	LOAD:LIBSYS	4E22	1.4
LOAD:MEMORY	LOAD:MEMORY-SCS	4E19	1
LOAD:MUP	LOAD:MUP	4E22	1.3
LOAD:NCLK	LOAD:NCLK	4E19	1
LOAD:PSS	LOAD:PSS	4E21	1.2
LOAD:aREG	LOAD:REG	4E19	1.1
LOAD:SCLK	LOAD:SCLK-NCSU	4E19	1
LOAD:SCS	LOAD:SCS	4E19	1.6
LOAD:SP	LOAD:SP-ABORT	4E19	1
LOAD:SP	LOAD:SP-CYCLE	4E19	1
LOAD:SP	LOAD:SP-IREG	4E19	1
LOAD:SP	LOAD:SP-MEM	4E19	1
LOAD:SP	LOAD:SP-TDN	4E19	1
LOAD:TMSP	LOAD:TMSP-CREG	4E19	1.6
LOAD:TMSP	LOAD:TMSP-MEM	4E19	1.6
LOAD:TSI	LOAD:TSI-CREG	4E19	1.6
LOAD:TSI	LOAD:TSI-MEM	4E19	1.6
LOAD:TSIFILE	LOAD:TSIFILE	4E21	1.3
LOAD:TSIMEM	LOAD:TSIMEM	4E24R2	1.6
LOAD:VIF	LOAD:VIF-ATA	4E19	1
LOAD:VIF	LOAD:VIF-CMS	4E19	1
LOAD:VIF	LOAD:VIF-DLFC0	4E19	1
LOAD:VIF	LOAD:VIF-DLFC1	4E19	1
LOAD:VIF	LOAD:VIF-DLFC2	4E19	1
LOAD:VIF	LOAD:VIF-DMVIU	4E19	1
LOAD:VIF	LOAD:VIF-DTSE	4E19	1
LOAD:VIF	LOAD:VIF-EMVIU	4E19	1
LOAD:VIF	LOAD:VIF-ENICF	4E19	1
LOAD:VIF	LOAD:VIF-EPS	4E19	1

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MESSAGE NAME	MESSAGE ID	START GENERIC	ISSUE
LOAD:VIF	LOAD:VIF-EQT	4E19	1
LOAD:VIF	LOAD:VIF-ESM	4E19	1
LOAD:VIF	LOAD:VIF-ETA	4E19	1
LOAD:VIF	LOAD:VIF-ETSE	4E19	1
LOAD:VIF	LOAD:VIF-EVICS	4E19	1
LOAD:VIF	LOAD:VIF-EVIUS	4E19	1
LOAD:VIF	LOAD:VIF-EX	4E19	1
LOAD:VIF	LOAD:VIF-EXOOF	4E19	1
LOAD:VIF	LOAD:VIF-EXSIM	4E19	1
LOAD:VIF	LOAD:VIF-EXVIC	4E19	1
LOAD:VIF	LOAD:VIF-FA	4E19	1
LOAD:VIF	LOAD:VIF-FB	4E19	1
LOAD:VIF	LOAD:VIF-GAF	4E19	1
LOAD:VIF	LOAD:VIF-GAS	4E19	1
LOAD:VIF	LOAD:VIF-GTF	4E19	1
LOAD:VIF	LOAD:VIF-GTS	4E19	1
LOAD:VIF	LOAD:VIF-INHIC	4E19	1
LOAD:VIF	LOAD:VIF-IPS	4E19	1
LOAD:VIF	LOAD:VIF-ISM	4E19	1
LOAD:VIF	LOAD:VIF-LAF	4E19	1
LOAD:VIF	LOAD:VIF-LAI	4E19	1
LOAD:VIF	LOAD:VIF-LAS	4E19	1
LOAD:VIF	LOAD:VIF-LBS	4E19	1
LOAD:VIF	LOAD:VIF-LFC0	4E19	1
LOAD:VIF	LOAD:VIF-LFC1	4E19	1
LOAD:VIF	LOAD:VIF-LFC2	4E19	1
LOAD:VIF	LOAD:VIF-LR	4E19	1
LOAD:VIF	LOAD:VIF-LRSM	4E19	1
LOAD:VIF	LOAD:VIF-LTF	4E19	1
LOAD:VIF	LOAD:VIF-LTI	4E19	1
LOAD:VIF	LOAD:VIF-LTS	4E19	1
LOAD:VIF	LOAD:VIF-RC	4E19	1
LOAD:VIF	LOAD:VIF-REFF	4E19	1
LOAD:VIF	LOAD:VIF-RESM	4E19	1
LOAD:VIF	LOAD:VIF-RESR	4E19	1
LOAD:VIF	LOAD:VIF-RMW	4E19	1
LOAD:VIF	LOAD:VIF-RSIEX	4E19	1
LOAD:VIF	LOAD:VIF-RSM	4E19	1
LOAD:VIF	LOAD:VIF-RTA	4E19	1
LOAD:VIF	LOAD:VIF-RVICX	4E19	1

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MESSAGE NAME	MESSAGE ID	START GENERIC	ISSUE
LOAD:VIF	LOAD:VIF-SAF	4E19	1
LOAD:VIF	LOAD:VIF-SAS	4E19	1
LOAD:VIF	LOAD:VIF-SEFF0	4E19	1
LOAD:VIF	LOAD:VIF-SEFF1	4E19	1
LOAD:VIF	LOAD:VIF-STF	4E19	1
LOAD:VIF	LOAD:VIF-STS	4E19	1
LOAD:VIF	LOAD:VIF-SVF0	4E19	1
LOAD:VIF	LOAD:VIF-SVF1	4E19	1
LOAD:VIF	LOAD:VIF-UFA	4E19	1
LOAD:VIF	LOAD:VIF-UFB	4E19	1
LOAD:VIF	LOAD:VIF-UGAF	4E19	1
LOAD:VIF	LOAD:VIF-UGAS	4E19	1
LOAD:VIF	LOAD:VIF-ULAF	4E19	1
LOAD:VIF	LOAD:VIF-ULAI	4E19	1
LOAD:VIF	LOAD:VIF-ULAS	4E19	1
LOAD:VIF	LOAD:VIF-ULBS	4E19	1
LOAD:VIF	LOAD:VIF-ULCSB	4E19	1
LOAD:VIF	LOAD:VIF-ULTF	4E19	1
LOAD:VIF	LOAD:VIF-ULTS	4E19	1
LOAD:VIF	LOAD:VIF-UPSW	4E19	1
LOAD:VIF	LOAD:VIF-URSM	4E19	1
LOAD:VIF	LOAD:VIF-USAF	4E19	1
LOAD:VIF	LOAD:VIF-USAS	4E19	1
LOAD:VIF	LOAD:VIF-UUSCB	4E19	1
LOAD:VIF	LOAD:VIF-VI	4E19	1
LOAD:VIF	LOAD:VIF-WRSM	4E19	1
LOAD:XS	LOAD:XS	4E21	1.2
LOAD:XTSI	LOAD:XTSI-D3U	4E22	1.6
LOAD:XTSI IBU	LOAD:XTSI-IBU	4E24R2	1.6
LOAD:XTSI	LOAD:XTSI-IREG	4E24R2	1.6
LOAD:XTSI	LOAD:XTSI-SPU	4E22	1.6
LOAD:UMEM	LOAD:UMEM	4E19	1.1
MON:CCISTRAP	MON:CCISTRAP	4E19	1
MON:CHAN	MON:CHAN	4E19	1
MON:DGSTAT	MON:DGSTAT	4E19	1.3
MON:IAOFC	MON:IAOFC	4E19	1
MON:IAOFCNT	MON:IAOFCNT	4E19	1
MON:IATSG	MON:IATSG	4E19	1
MON:IATSGCNT	MON:IATSGCNT	4E19	1
MON:NCATANOM	MON:NCATANOM	4E19	1

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Volume 2 Alphabetical Index (Continued)

MESSAGE NAME	MESSAGE ID	START GENERIC	ISSUE
MON:SUTRAP	MON:SUTRAP	4E19	1
OP:ALMSTAT	OP:ALMSTAT	4E19	1
OP:ANNSTAT	OP:ANNSTAT	4E19	1
OP:APSTATUS	OP:APSTATUS	4E19	1
OP:AUDSTAT	OP:AUDSTAT	4E19	1
OP:BANDSTAT	OP:BANDSTAT	4E19	1
OP:BP	OP:BP-SCS	4E19	1
OP:CCSTATUS	OP:CCSTATUS	4E20	1.1
OP:CGASTAT	OP:CGASTAT	4E19	1
OP:CHAN	OP:CHAN	4E19	1
OP:CLK	OP:CLK	4E19	1
OP:CSSTATUS	OP:CSSTATUS	4E19	1
OP:DCONN	OP:DCONN	4E19	1
OP:DGSTAT	OP:DGSTAT	4E21	1.3
OP:DTAC	OP:DTAC	4E19	1
OP:DUSTATUS	OP:DUSTATUS	4E19	1
OP:ERAPCOND	OP:ERAPCOND	4E19	1
OP:ERAPDATA	OP:ERAPDATA	4E19	1.2
OP:ERAPSRES	OP:ERAPSRES	4E19	1
OP:ERAPSUM	OP:ERAPSUM	4E19	1
OP:FHCSTAT	OP:FHCSTAT	4E19	1
OP:IAOFC	OP:IAOFC	4E19	1
OP:IAOFCNT	OP:IAOFCNT	4E19	1
OP:IATSG	OP:IATSG	4E19	1
OP:IATSGCNT	OP:IATSGCNT	4E19	1
OP:IFBSTAT	OP:IFBSTAT	4E19	1
OP:INHINT	OP:INHINT	4E19	1
OP:IODSC	OP:IODSC	4E19	1
OP:LCHAN	OP:LCHAN	4E19	1
OP:LIBSTAT	OP:LIBSTAT	4E22	1.4

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3.6 VOLUME 3 ALPHABETICAL INDEX

MESSAGE NAME	MESSAGE ID	START GENERIC	ISSUE
OP:MACLI	OP:MACLI	4E19	1
OP:MEASREPT	OP:MEASREPT	4E19	1
OP:MEASTSI	OP:MEASTSI	4E19	1
OP:MONTAB	OP:MONTAB	4E19	1
OP:MSGRCD	OP:MSGRCD	4E19	1
OP:MUPAUD	OP:MUPAUD	4E19	1.3
OP:MUPSTAT	OP:MUPSTAT	4E19	1
OP:NCATANOM	OP:NCATANOM	4E19	1
OP:NTWKTAB	OP:NTWKTAB	4E19	1
OP:OA	OP:OA	4E19	1
OP:OOSUNITS	OP:OOSUNITS	4E24	1.5
OP:ORNU	OP:ORNU	4E19	1
OP:PERIFINH	OP:PERIFINH	4E19	1
OP:PHSEHST	OP:PHSEHST	4E19	1
OP:PMOS	OP:PMOS	4E19	1
OP:PMSTAT	OP:PMSTAT	4E22	1.3
OP:PSSTATUS	OP:PSSTATUS	4E19	1
OP:RASTAT	OP:RASTAT	4E19	1
OP:RCBMSG	OP:RCBMSG	4E19	1
OP:RCBORNU	OP:RCBORNU	4E19	1
OP:RCBSPACE	OP:RCBSPACE	4E19	1
OP:RCFORM	OP:RCFORM	4E19	1
OP:RCRORNU	OP:RCRORNU	4E19	1
OP:RINGMNTR	OP:RINGMNTR	4E19	1
OP:RTSTAT	OP:RTSTAT	4E19	1
OP:SCHAN	OP:SCHAN	4E19	1
OP:SCRN	OP:SCRN	4E19	1.4
OP:SDC	OP:SDC	4E19	1
OP:SDEXMLST	OP:SDEXMLST	4E19	1
OP:SDLST	OP:SDLST	4E19	1.8
OP:SDYGRP	OP:SDYGRP	4E19	1
OP:SECTORS	OP:SECTORS	4E19	1
OP:SFISTAT	OP:SFISTAT	4E23 only	1.5
OP:SLCSTAT	OP:SLCSTAT	4E19	1
OP:SLKSTAT	OP:SLKSTAT	4E19	1
OP:SOAK	OP:SOAK	4E19	1
OP:SSN;LINKSTAT	OP:SSN-LINKSTAT	4E19	1
OP:SSN;MAN	OP:SSN-MAN	4E19	1
OP:SSN;RT	OP:SSN-RT	4E19	1
OP:SSN;SLKSTAT	OP:SSN-SLKSTAT	4E19	1
OP:SSN;STAT	OP:SSN-STAT	4E19	1

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Volume 3 Alphabetical Index (Continued)

MESSAGE NAME	MESSAGE ID	START GENERIC	ISSUE
OP:SSN;TST	OP:SSN-TST	4E19	1
OP:SVCSTAT	OP:SVCSTAT	4E19	1
OP:SYNCLIST	OP:SYNCLIST	4E20	1.3
OP:TANTOTAN	OP:TANTOTAN	4E19	1
OP:TERAWTSG	OP:TERAWTSG	4E19	1
OP:TLPQUEUE	OP:TLPQUEUE	4E19	1
OP:TONESTAT	OP:TONESTAT	4E19	1
OP:TRKHOLD	OP:TRKHOLD	4E19	1
OP:TRKSTAT	OP:TRKSTAT	4E21	1.3
OP:TSGHC	OP:TSGHC	4E23	1.4
OP:TSGSTAT	OP:TSGSTAT	4E19	1
OP:TSIBP	OP:TSIBP	4E24R2	1.6
OP:UTILDS	OP:UTILDS	4E19	1
OP:UTILDS	OP:UTILDS-LINE	4E19	1
OP:UTILMTCH	OP:UTILMTCH	4E21	1.2
OP:UTLDSTAB	OP:UTLDSTAB	4E19	1
OP:VCNT	OP:VCNT	4E19	1
OP:XALM	OP:XALM	4E21	1.3
OP:XPWRSTAT	OP:XPWRSTAT	4E19	1
ORD:ALTIDMWF	ORD:ALTIDMWF	4E19	1
ORD:ALTIVU	ORD:ALTIVU	4E19	1
ORD:DLOOP	ORD:DLOOP	4E19	1
ORD:DMWTF	ORD:DMWTF	4E19	1
ORD:DS1LOOP	ORD:DS1LOOP	4E22	1.3
ORD:DS3LOOP	ORD:DS3LOOP	4E22	1.3
ORD:ES	ORD:ES	4E19	1
ORD:MCCKEY	ORD:MCCKEY	4E19	1
ORD:MW	ORD:MW	4E19	1
ORD:MW10	ORD:MW10	4E19	1
ORD:RF	ORD:RF	4E19	1
ORD:SCAN	ORD:SCAN	4E19	1
ORD:SD	ORD:SD	4E19	1
ORD:TANTOTAN	ORD:TANTOTAN	4E19	1
ORD:TBITS	ORD:TBITS	4E19	1
ORD:TL	ORD:TL	4E19	1
ORD:TRPTCDAT	ORD:TRPTCDAT	4E19	1
ORD:VSS	ORD:VSS-RETRY	4E19	1
RCACT:ORNU	RCACT:ORNU	4E19	1
RCCNL:RCBORNU	RCCNL:RCBORNU	4E19	1
RCCNL:ROLLBACK	RCCNL:ROLLBACK	4E24	1.7

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Volume 3 Alphabetical Index (Continued)

MESSAGE NAME	MESSAGE ID	START GENERIC	ISSUE
RCTST:ORNU	RCTST:ORNU	4E19	1
RMV:API	RMV:API	4E19	1
RMV:AUB	RMV:AUB	4E19	1
RMV:AUI	RMV:AUI	4E19	1
RMV:CC	RMV:CC	4E19	1
RMV:CS	RMV:CS	4E19	1
RMV:CS,MCODE	RMV:CS-MCODE	4E20	1.2
RMV:CSB	RMV:CSB	4E19	1
RMV:DIF	RMV:DIF	4E19	1
RMV:DT	RMV:DT	4E19	1
RMV:ECOSCTLS	RMV:ECOSCTLS	4E20	1.1
RMV:EST	RMV:EST	4E19	1
RMV:IFB	RMV:IFB	4E19	1
RMV:IOUS	RMV:IOUS	4E19	1
RMV:MUP	RMV:MUP	4E19	1
RMV:NCLK	RMV:NCLK	4E19	1
RMV:PCD	RMV:PCD	4E19	1
RMV:PS	RMV:PS	4E19	1
RMV:PS,MCODE	RMV:PS-MCODE	4E20	1.2
RMV:PSB	RMV:PSB	4E19	1
RMV:PUB	RMV:PUB	4E19	1
RMV:RA	RMV:RA	4E19	1
RMV:SCLK	RMV:SCLK	4E19	1
RMV:SCS	RMV:SCS	4E19	1
RMV:SDNMOVDS	RMV:SDNMOVDS	4E22	1.4
RMV:SIGLK	RMV:SIGLK	4E19	1
RMV:SP	RMV:SP	4E19	1
RMV:SSD	RMV:SSD	4E19	1
RMV:TGR	RMV:TGR	4E19	1
RMV:TMSP	RMV:TMSP	4E19	1
RMV:TONE	RMV:TONE-MWF	4E19	1
RMV:TSI	RMV:TSI	4E21	1.3
RMV:TVMASTR	RMV:TVMASTR	4E19	1
RMV:VIF	RMV:VIF	4E19	1
RMV:VSSID	RMV:VSSID	4E19	1
RMV:XPWR	RMV:XPWR	4E19	1
RMV:XTSI	RMV:XTSI	4E24R2	1.6
RST:API	RST:API	4E19	1
RST:AUB	RST:AUB	4E19	1
RST:AUI	RST:AUI	4E19	1

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Volume 3 Alphabetical Index (Continued)

MESSAGE NAME	MESSAGE ID	START GENERIC	ISSUE
RST:CC	RST:CC	4E19	1
RST:CS	RST:CS	4E19	1
RST:CSB	RST:CSB	4E19	1
RST:DIF	RST:DIF	4E19	1.1
RST:DT	RST:DT	4E19	1
RST:EST	RST:EST	4E19	1
RST:IFB	RST:IFB	4E19	1
RST:IOUS	RST:IOUS	4E19	1
RST:MUP	RST:MUP	4E19	1
RST:NCLK	RST:NCLK	4E19	1
RST:PCD	RST:PCD	4E19	1
RST:PS	RST:PS	4E19	1
RST:PSB	RST:PSB	4E19	1
RST:PUB	RST:PUB	4E19	1
RST:RA	RST:RA	4E19	1
RST:SCLK	RST:SCLK	4E19	1
RST:SCS	RST:SCS	4E19	1
RST:SIGLK	RST:SIGLK	4E19	1
RST:SP	RST:SP	4E19	1
RST:SSD	RST:SSD	4E19	1
RST:TGR	RST:TGR	4E19	1
RST:TMSP	RST:TMSP	4E19	1
RST:TONE	RST:TONE-MWF	4E24R3	1.6
RST:TSI	RST:TSI	4E21	1.3
RST:VIF	RST:VIF	4E19	1
RST:XPWR	RST:XPWR	4E19	1
RST:XTSI	RST:XTSI	4E24R2	1.6
RST:XTSI {ALLD3U|ALLSPU|ALLPSC}	RST:XTSI-ALL	4E24R2	1.6
RTE:ALM	RTE:ALM	4E19	1
RTE:CHAN	RTE:CHAN	4E19	1
RTE:MSGCLS	RTE:MSGCLS	4E19	1
RTE:TP	RTE:TP	4E19	1
RTR:ALM	RTR:ALM	4E19	1
SCHED:MEASREPT	SCHED:MEASREPT	4E19	1
SCHED:TDASMC	SCHED:TDASMC	4E19	1.1
SCHED:TRKTEST	SCHED:TRKTEST	4E19	1
SET:ANNSTAT	SET:ANNSTAT	4E19	1
SET:AUD	SET:AUD	4E19	1
SET:BANDSTAT	SET:BANDSTAT	4E19	1
SET:BP	SET:BP-SCS	4E19	1

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Volume 3 Alphabetical Index (Continued)

MESSAGE NAME	MESSAGE ID	START GENERIC	ISSUE
SET:CAMATRFS	SET:CAMATRFS	4E19	1
SET:CGACNTL	SET:CGACNTL	4E19	1
SET:CLK	SET:CLK	4E19	1.4
SET:CONN	SET:CONN	4E19	1.2
SET:CS	SET:CS	4E19	1.6
SET:DCONN	SET:DCONN	4E19	1
SET:DIGROUP	SET:DIGROUP	4E21	1.3
SET:DTAC	SET:DTAC	4E19	1
SET:LIBSYS	SET:LIBSYS	4E19	1
SET:NETROUT	SET:NETROUT	4E21	1.3
SET:POKE	SET:POKE	4E20	1.2
SET:PS	SET:PS	4E19	1.6
SET:SAWSLOCK	SET:SAWSLOCK	4E19	1
SET:SDSTAT	SET:SDSTAT	4E19	1.8
SET:SOAK	SET:SOAK	4E24	1.5
SET:STRMEX	SET:STRMEX	4E19 only	1
SET:TRKSTAT	SET:TRKSTAT	4E21	1.3
SET:TSGATC	SET:TSGATC	4E19	1
SET:TSGEAC	SET:TSGEAC	4E19	1
SET:TSIBP	SET:TSIBP	4E24R2	1.6
SET:TUC	SET:TUC	4E19 thru 4E21	1.3
SET:VCNT	SET:VCNT	4E19	1
STOP:ANALY;DIGROUP	STOP:ANALY-DIG	4E19	1
STOP:AUD	STOP:AUD	4E19	1
STOP:CFR;ALMGRP	STOP:CFR-ALMGR	4E19	1
STOP:CLR;TRKSTAT	STOP:CLR-TRKSTAT	4E19	1
STOP:COPY	STOP:COPY	4E19	1.2
STOP:EX	STOP:EX	4E19	1.1
STOP:IN;UTILDS	STOP:IN-UTILDS	4E19	1.1
STOP:INIT	STOP:INIT	4E19	1.2
STOP:LIBSYS	STOP:LIBSYS	4E19	1
STOP:MACLI	STOP:MACLI	4E19	1
STOP:MON;CCISTRAP	STOP:MON-CCIST	4E19	1
STOP:MON;CHAN	STOP:MON-CHAN	4E19	1
STOP:MON;DGSTAT	STOP:MON-DGSTT	4E19	1
STOP:MON;IAOFC	STOP:MON-IAOFC	4E19	1
STOP:MON;IAOFCNT	STOP:MON-IAOFCNT	4E19	1
STOP:MON;IATSGCNT	STOP:MON-IATS	4E19	1
STOP:MON;IATSG	STOP:MON-IATSG	4E19	1
STOP:MON;MCCREPT	STOP:MON-MCCRE	4E19	1

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Volume 3 Alphabetical Index (Continued)

MESSAGE NAME	MESSAGE ID	START GENERIC	ISSUE
STOP:MON;NCATANOM	STOP:MON-NCATANOM	4E19	1
STOP:MON;SUTRAP	STOP:MON-SUTRA	4E19	1
STOP:MSG	STOP:MSG	4E19	1
STOP:MUPAUD	STOP:MUPAUD	4E19	1
STOP:OP;DGSTAT	STOP:OP-DGSTA	4E19	1
STOP:OP;ERAP	STOP:OP-ERAP	4E19	1
STOP:OP;MSGRCD	STOP:OP-MSGRCD	4E19	1
STOP:OP;PMSTAT	STOP:OP-PMSTAT	4E22	1.3
STOP:OP;SCRN	STOP:OP-SCRN	4E19	1
STOP:OP;TRKSTAT	STOP:OP-TRKSTA	4E19	1
STOP:OP;TSGSTAT	STOP:OP-TSGSTA	4E19	1
STOP:OVRWRT	STOP:OVRWRT	4E19	1.1
STOP:RCACT	STOP:RCACT	4E19	1
STOP:REPT-XALM	STOP:REPT-XALM	4E21	1.3
STOP:RTE;ALM	STOP:RTE-ALM	4E19	1
STOP:RTE;CHAN	STOP:RTE-CHAN	4E19	1
STOP:SET;TRKSTAT	STOP:SET-TRKST	4E19	1
STOP:TEST:COREUPD	STOP:TEST-CORE	4E19	1
STOP:TEST;PUSY	STOP:TEST-PUSY	4E19	1.4
STOP:TEST;TRK	STOP:TEST-TRK	4E19	1
STOP:UPD	STOP:UPD	4E19	1
STOP:UPD;CORE	STOP:UPD-CORE	4E19	1
STOP:UPD;FS	STOP:UPD-FS	4E19	1
STOP:UPD;UTILDS	STOP:UPD-UTL	4E19	1.1
STOP:VERMSG	STOP:VERMSG	4E24	1.6
SW:AMA	SW:AMA	4E19	1
SW:APS	SW:APS	4E19	1
SW:AUI	SW:AUI	4E19	1
SW:CC	SW:CC	4E19	1
SW:DIF	SW:DIF	4E21	1.5
SW:MUP	SW:MUP	4E19	1.1
SW:PUB	SW:PUB	4E19	1
SW:SCLK	SW:SCLK	4E21	1.5
SW:SCS	SW:SCS	4E19	1
SW:TGR	SW:TGR	4E19	1
SW:VIF	SW:VIF	4E19	1
SW:XTSI	SW:XTSI	4E22	1.3
TEST:API	TEST:API	4E19	1
TEST:AUB	TEST:AUB	4E19	1
TEST:AUI	TEST:AUI	4E19	1

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Volume 3 Alphabetical Index (Continued)

MESSAGE NAME	MESSAGE ID	START GENERIC	ISSUE
TEST:CC	TEST:CC	4E19	1
TEST:DSIG	TEST:DSIG	4E19	1
TEST:DUS	TEST:DUS	4E19	1
TEST:FNS	TEST:FNS	4E19	1
TEST:IFB	TEST:IFB	4E19	1
TEST:MUP	TEST:MUP	4E19	1
TEST:MUPAUD	TEST:MUPAUD	4E19	1.3
TEST:PUB	TEST:PUB	4E19	1
TEST:PUSYS	TEST:PUSYS	4E19	1.4
TEST:SFI	TEST:SFI	4E23 only	1.4
TEST:SIGLK	TEST:SIGLK	4E19	1
TEST:SSD	TEST:SSD	4E19	1
TEST:TCAPAIN	TEST:TCAPAIN	4E21	1.3
TEST:TRK	TEST:TRK	4E23R4	1.4
TRC:TRK	TRC:TRK	4E19	1
UPD:CMAP;ISC	UPD:CMAP	4E19	1
UPD:COMMIT	UPD:COMMIT	4E19	1
UPD:CORE	UPD:CORE	4E19	1
UPD:ERAP	UPD:ERAP	4E19	1
UPD:FS;GEN	UPD:FS-GEN	4E20	1.4
UPD:GEN	UPD:GEN	4E19 thru 4E21	1.3
UPD:HDATA	UPD:HDATA	4E19	1.4
UPD:LIBSYS	UPD:LIBSYS	4E19 thru 4E21	1.3
UPD:ODA	UPD:ODA	4E19 thru 4E21	1.3
UPD:SCS	UPD:SCS	4E19	1
UPD:UTILDS	UPD:UTILDS	4E19	1.1
UPD:XTSI	UPD:XTSI	4E24R2	1.6
VER:	VER:0	4E19	1
VER:ABSOLUTE	VER:ABSOLUTE	4E21	1.2
VER:ADSLINK:ADSI	VER:ADSLINK	4E19	1.1
VER:AIN:LIST	VER:AIN-LIST	4E19	1.1
VER:AMA	VER:AMA	4E19	1
VER:AMACODE	VER:AMACODE	4E19	1
VER:ANINDEX	VER:ANINDEX	4E19	1
VER:CAMASCRN	VER:CAMASCRN	4E19	1
VER:CCDADC	VER:CCDADC	4E19	1
VER:CCDCONV	VER:CCDCONV	4E19	1
VER:CDB:ANI	VER:CDB-ANI	4E19	1
VER:CDB:CDBI	VER:CDB-CDBI	4E19	1
VER:CODEGRP	VER:CODEGRP	4E25	1.7

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Volume 3 Alphabetical Index (Continued)

MESSAGE NAME	MESSAGE ID	START GENERIC	ISSUE
VER:CODEGRP	VER:CODEGRP-EAR	4E19	1.1
VER:CODEGRP:MCTI	VER:CODEGRP-MCTI	4E23	1.4
VER:CODEGRP:MRTI	VER:CODEGRP-MRTI	4E19	1.6
VER:CODEGRP:PRTI	VER:CODEGRP-PRTI	4E19	1
VER:CODEGRP:SDINDEX	VER:CODEGRP-SDX	4E19	1.6
VER:CODEGRP:SDINDEX a,MAN	VER:CODEGRP-SDXM	4E19	1.6
VER:CODEGRP:SDINDEX a, UNA	VER:CODEGRP-SDXU	4E19	1.6
VER:CODEGRP:TYPE	VER:CODEGRP-TYPE	4E23R3	1.4
VER:CODELIST	VER:CODELIST	4E25	1.6
VER:CPA:L	VER:CPA-ALA	4E19	1
VER:CPA	VER:CPA-C-OR	4E20	1.2
VER:CPA	VER:CPA-DATA	4E19	1
VER:CPA	VER:CPA-DNUM	4E19 - 4E25R4	1.7
VER:CPA:RDBLIST	VER:CPA-RDBLIST	4E19	1
VER:CRB:CRBI	VER:CRB-CRBI	4E19	1
VER:CRBLIST	VER:CRBLIST	4E19	1
VER:DESPLIST	VER:DESPLIST	4E19	1
VER:DIALUP	VER:DIALUP	4E19	1
VER:DNHRMISC	VER:DNHRMISC	4E19	1
VER:DPC	VER:DPC	4E19	1
VER:EA:CID	VER:EA-CID	4E19	1.6
VER:EA;CONV:IIDIGITS	VER:EA-CONV-IIDI	4E19	1.6
VER:EA;CONV:OLI	VER:EA-CONV-OLI	4E19	1.6
VER:EA;FUNC	VER:EA-FUNC	4E19	1
VER:EA;OPT IPPD	VER:EA-IPPD	4E24R3	1.6
VER:EA:NX	VER:EA-NX	4E19	1.6
VER:EA;OPT OPPD	VER:EA-OPPD	4E24R3	1.6
VER:EA:SII	VER:EA-SII	4E19	1
VER:EA:ZZ	VER:EA-ZZ	4E19	1
VER:ECOS	VER:ECOS	4E25	1.6
VER:FEN	VER:FEN	4E19	1.6
VER:GT	VER:GT	4E19	1
VER:IDAM	VER:IDAM	4E19	1
VER:IDAMLIST	VER:IDAMLIST	4E19	1
VER:INSPLIST	VER:INSPLIST	4E19	1
VER:INTLCODE	VER:INTLCODE	4E24	1.5
VER:LATASTAT:AREAS	VER:LATASTAT-ARE	4E19 thru 4E21	1.6
VER:LATASTAT:MATRIX	VER:LATASTAT-MAT	4E19 thru 4E21	1.6
VER:MDN	VER:MDN	4E19	1
VER:MEASREPT	VER:MEASREPT	4E19	1

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MESSAGE NAME	MESSAGE ID	START GENERIC	ISSUE
VER:MEMORY	VER:MEMORY	4E19	1.1
VER:MISC	VER:MISC	4E23R4	1.8
VER:MISC:FHT AINTRIG	VER:MISC-AINTRIG	4E19	1.3
VER:MISC:FHT:RCECO4CVU	VER:MISC-FHT-RC	4E21	1.3
VER:MISC:FHT:USDSPCSSN	VER:MISC-FHT-USD	4E21	1.2
VER:MISC:FHT EASYREACH	VER:MISC-FHTEASY	4E20	1.2
VER:MISC:FHT IBNSROUTE	VER:MISC-FHTIBNS	4E20	1.2
VER:MSN	VER:MSN	4E19	1
VER:NAILUP	VER:NAILUP	4E19	1
VER:NDB:NDBI	VER:NDB-NDBI	4E19	1
VER:NDB:NDBLIST	VER:NDB-NDBLIST	4E19	1
VER:NPADPC:NPA	VER:NPADPC	4E19	1.6
VER:OFFICE	VER:OFFICE	4E19	1.4
VER:PASANN	VER:PASANN	4E19	1
VER:PASCTHRU	VER:PASCTHRU	4E19	1
VER:PASTVOTE	VER:PASTVOTE	4E19	1
VER:PCP	VER:PCP	4E20 - 4E25R4	1.7
VER:PCP:NPASPLIT	VER:PCP-NPASPLIT	4E19	1
VER:PCP:SCTABLE	VER:PCP-SCTABLE	4E19	1
VER:PCP:TTSII	VER:PCP-TTSII	4E19	1
VER:RCFORM	VER:RCFORM	4E24	1.5
VER:RDB	VER:RDB	4E19	1.3
VER:RDBLIST	VER:RDBLIST	4E21R3	1.6
VER:RTGLIST	VER:RTGLIST	4E23	1.6
VER:RTNR:CIN	VER:RTNR-CIN	4E19	1.6
VER:RTNR;ISW	VER:RTNR-ISW	4E19	1.6
VER:RTNR:MSI	VER:RTNR-MSI	4E19	1
VER:RTNR:NSN	VER:RTNR-NSN	4E19	1.6
VER:RTNR:RNSN	VER:RTNR-RNSN	4E19	1.6
VER:RTNR:RPI	VER:RTNR-RPI	4E20	1.6
VER:RTNR:SII	VER:RTNR-SII	4E19	1.6
VER:RTNR:SIILIST	VER:RTNR-SIILIST	4E19	1
VER:RTNR:TORIG	VER:RTNR-TORIG	4E19	1
VER:SCS	VER:SCS-FHT	4E19	1
VER:SDLIST	VER:SDLIST	4E19	1
VER:SERVICE	VER:SERVICE	4E19	1.6
VER:SPMTXPK	VER:SPMTXPK	4E19	1
VER:SSN:NSN	VER:SSN-NSN	4E19 thru 4E23	1.5
VER:TASI	VER:TASI	4E19	1
VER:TERMLIST	VER:TERMLIST	4E19	1

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Volume 3 Alphabetical Index (Continued)

MESSAGE NAME	MESSAGE ID	START GENERIC	ISSUE
VER:TFNB	VER:TFNB	4E19	1
VER:TOS	VER:TOS	4E19	1
VER:TRK	VER:TRK	4E19	1.3
VER:TRK:a b,OPT COOB	VER:TRK-COOB	4E21	1.6
VER:TRK:LACID	VER:TRK-LACID	4E19	1.6
VER:TRK:LACID	VER:TRK-LACID-SR	4E19	1.6
VER:TRK:PTAN	VER:TRK-PTAN	4E21	1.6
VER:TRKNAME	VER:TRKNAME	4E22	1.3
VER:TSG	VER:TSG	4E19	1
VER:TSGLIST	VER:TSGLIST	4E26	1.8
VER:TSI:WIDEBAND	VER:TSI-WIDEBAND	4E19	1
VER:TTS	VER:TTS-TTSI	4E19	1
VER:TTSLIST	VER:TTSLIST	4E19	1
VER:UTYPE	VER:UTYPE	4E24	1.6
VER:VFUNC	VER:VFUNC	4E22R2	1.6
VER:VFUNC SCSDATA	VER:VFUNC-SCSDAT	4E22R2	1.6
VER:VFUNC	VER:VFUNC-STAT	4E21 thru 4E23	1.5
VER:VFUNC XTSIIBU	VER:VFUNC-XTSIIB	4E24	1.6
WHEN:ADR	WHEN:ADR	4E21	1.2
WHEN:XADR	WHEN:XADR	4E21	1.2

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ALW:0
WORK CENTER . . MAC, MOC, NMOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Allows the occurrence of specified maintenance interrupts or maintenance interject actions in the central control (CC). The interrupt or interject sources allowed are specified mnemonically as described. One or more interrupt or interject levels may be specified.

2. FORMAT

ALW:[**ALEV** a][,**BLEV** b][,**DLEV** c][,**ELEV** d][,**FLEV** e][,**KLEV** f][,**INJ** g]**!**

3. EXPLANATION OF MESSAGE

a — A-level maintenance interrupts:

- UTAS — Utility A-level interrupt source.

b — B-level maintenance interrupts:

- INBS — Internal error.
- PSBS — Pulse source failure.

c — D-level maintenance interrupts:

- CSDS — Call store failure.
- IFDS — Interface bus error.
- ORDS — Invalid transfer.
- PADS — Protected area failure.
- SCDS — Stack overflow.

d — E-level maintenance interrupts:

- ES — E-level source.

e — F-level maintenance interrupts:

- APEPU — Peripheral unit answer parity summary.
- APUFS — Autonomous unit failure.
- ASWEPU — Peripheral unit all-seems-well error summary.
- PUFS — Peripheral unit failure.

SEE PROPRIETARY NOTICE ON COVER PAGE

`f` K-level maintenance interrupts:

`KL0S` — K-level source 0.

`g` Maintenance interjects:

`APUT` — Autonomous peripheral unit trouble.

NOTE: The mnemonics used for the sources are the same as the COMPOOL defined symbols with the IN1I prefix removed.

4. SYSTEM RESPONSE

`?I,INV DATA` Identification field contains an error. Attempts to allow an invalid interrupt/interject source or one that is permanently inhibited in the system.

`OK` Good. Request completed.

5. REFERENCES

PIDENT
MACPROUT

Practice 254-280-210, *Maintenance Control Program*

Input Message
`INH:0`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ALW:APMSG
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . APSMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Enables the attached processor system (APS) to send and receive input/output (I/O) messages through 1A ESS™ switch I/O channels.

This message allows 3B computer APS input/output messages to be entered or received on all 1A processor I/O channels in message class APSMTC. The APMSG INHIBITED flag will be removed from the 1A processor master control complex (MCC) program control off norm indicator.

2. FORMAT

`ALW:APMSG!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`OK` Good. Indicates that request was accepted and completed.

`RL,API DPLX FAILED` Retry Later. Indicates that the request was not completed because of attached processor interface (API) duplex failure. Repeat request after duplex fail condition is cleared.

`RL,APMH TROUBLE` Retry Later. Indicates that the attached processor message handler (APMH) was unable to send the request to the APS.

5. REFERENCES

PIDENT
IOCPUSR1

Input Messages
`APMSG:0`
`INH:APMSG`

Output Message
`REPT:APMSG`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ALW:APS
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Allows automatic recovery to begin if the attached processor system (APS) link is duplex failed.

Allows the automatic recovery function. During an attached processor system duplex failure, this will allow automatic recovery to attempt a restore of the link hardware.

2. FORMAT

`ALW:APS` `a;`**`AUTORCVY!`**

3. EXPLANATION OF MESSAGE

`a`	**`APS`** number (0-7).

4. SYSTEM RESPONSE

`?I,INVD`	Identification field contains an error. Indicates an invalid message format.
`NG,INVD`	No Good. Indicates an invalid APS number was input.
`NG,MIS`	No Good. Indicates a missing argument in message (**`AUTORCVY`** keyword was not specified).
`OK`	Good. Indicates that auto recovery was allowed.

5. REFERENCES

PIDENTs
APFRBASE
APFRILEV

Practice 254-280-114, *Attached Processor Interface Programs*
Practice 254-280-210, *Maintenance Control Program*

Input Message
`INH:APS`

Output Message
`REPT:APS`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ALW:AUD
WORK CENTER . . MAC, MOC, NMOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Allows the audit program or programs specified to execute.

2. FORMAT

ALW:AUD:NUM a**!**

3. EXPLANATION OF MESSAGE

a — Number of the audit program to be allowed. May be a single number or a list of numbers. Refer to the AUD:NUM input message for a list of audits.

4. SYSTEM RESPONSE

OK — Good. The specified audit or audits are now allowed. An AUD:NUM output message follows, with a list of audits still inhibited.

5. REFERENCES

PIDENT
AUDSCTRL

Input Message
AUD:NUM

Output Message
AUD:NUM

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ALW:AUDMSG
WORK CENTER . . MAC, MOC, NMOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Allows audit messages to print. Format [1] allows the specified class of audit messages to print in their entirety. Format [2] allows the audit messages to print and phase escalation to occur for the audit programs specified (removes audits from quiet mode). Audit messages may be truncated by using the `INH:AUDMSG` input message.

2. FORMAT

[1] **`ALW:AUDMSG [{OPER|MTCE|AUD|ALL}]!`**

[2] **`ALW:AUDMSG:NUM a!`**

3. EXPLANATION OF MESSAGE

`OPER`	Operational program defensive check failures audit message (client) class.
`MTCE`	Maintenance program defensive check failures audit message (client) class.
`AUD`	Audit program errors detected audit message (client) class.
`ALL`	All of the clients (**`OPER`**, **`MTCE`**, and **`AUD`**). The default is **`ALL`**.
`a`	Number of the audit program(s) to be removed from the quiet mode.

4. SYSTEM RESPONSE

`?I,RANGE ERR`	Identification field contains an error. Nonexistent audit requested.
`OK`	Good. In response to message Format [1], the specified class or classes will now print in their entirety.
`PF`	Printout Follows. In response to message Format [2], a printout follows (`OP:AUDSTAT` output message).

5. REFERENCES

PIDENT
AUDSCTRL

Input Message
`INH:AUDMSG`

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Message
OP:AUDSTAT

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ALW:CAMAONI
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Allows centralized automatic message accounting (CAMA) operator number identification (ONI).

2. FORMAT

`ALW:CAMAONI!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`OK` Good. The request has been accepted.

5. REFERENCES

PIDENT
CAMA0000

Practice 234-180-110, *Call Processing Programs*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ALW:CATLAS
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Allows the centralized automatic trouble locating and analysis system (CATLAS-2) feature to operate in the normal mode.

This message will allow the normal mode of stored program control system (SPCS)/source code control system (SCCS) interface for CATLAS-2 repair operations. The SPCS will remain in this mode until the `INH:CATLAS!` message is entered. This message should be used when the out-of-service SCCS computer has been returned to service.

2. FORMAT

`ALW:CATLAS!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`NG,CODE 001` No Good. Indicates CATLAS-2 feature is not defined in office dependent data.

5. REFERENCES

PIDENT
DRPSUPR

Input Message
`INH:CATLAS`

Output Messages
`REPT:CAT01`
`REPT:CAT03`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ALW:DGRPT
WORK CENTER . . MOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

To allow a daily (20 minutes past midnight) output of all digroup terminals (DTs) and digroup interface frames (DIFs) which have out-of-frame or slip counts that have reached threshold limits (maintenance and out-of-service thresholds).

2. FORMAT

ALW:DGRPT!

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

OK Good. Request is processed.

5. REFERENCES

PIDENT
TMAD0005

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ALW:DGSTAT
WORK CENTER . . MOC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Allows slips on Digroup Terminal (DT) or Digital Interface Frame (DIF) Digroups (DG) to be reported on a specific digroup. Also, the list option can be used to allow slips on the entire monitor list.

2. FORMAT

```
ALW:DGSTAT;SLIP:{TSN a|TAN b|CIN c|OTAN d|DIF e,DIU f,DG g|
      DT h,DTU i,DG j|LIST}!
```

3. EXPLANATION OF MESSAGE

SLIP Slip monitor list.

a SP-ROW-POINT TSN of any trunk in the digroup:

POINT — A 2-digit decimal number indicating the point in the row, range 00-15.

ROW — A 3-digit decimal number indicating the row in the SP, range 000-255.

SP — A 2-digit decimal number indicating the SP member number, range 00-31.

b TSI-SP-PORT-CHANNEL Trunk Appearance Number (**TAN**) of any trunk in the digroup:

CHANNEL — A 3-digit decimal number indicating channel, range 0-127.

PORT — A 1-digit decimal number indicating port of TSI, range 0-6.

SP — A 1-digit decimal number indicating SP of TSI, range 0-1.

TSI — A 2-digit decimal number indicating the Time Slot Interchange (TSI) member number, range 00-63.

c Circuit Identification Name (**CIN**) of any trunk in the digroup.

d Octal Trunk Appearance Number (**OTAN**) of any trunk in the digroup.

e Digital Interface Frame (**DIF**) number of digroup.

f Digital Interface Unit (**DIU**) number of digroup.

SEE PROPRIETARY NOTICE ON COVER PAGE

`g`	Digroup number.
`h`	Digroup Terminal (**`DT`**) number of digroup.
`i`	Digroup Terminal Unit (**`DTU`**) number of digroup.
`j`	Digroup number.
`LIST`	Entire monitor list.

4. SYSTEM RESPONSE

`?D`	Data field contains an error.
`?E`	Syntax Error exists in the message but cannot be resolved to the proper field.
`NG`	No Good. Digroup not currently being monitored for slips.
`OK`	Good. Request accepted. Slips on a specified digroup or entire monitor list allowed.
`RL`	Retry Later.

5. REFERENCES

PIDENTs
TMAD0005
TMAD0061

Input Messages
`INH:DGSTAT`
`MON:DGSTAT`
`STOP:MON-DGSTT`

SEE PROPRIETARY NOTICE ON COVER PAGE

WARNING
INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

ID . . . . . ALW:DIF
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E
TYPE . . . . . Input

WARNING
This message, with the `APUT` or `APUF` option, should only be used when directed by a growth procedure or technical support.

1. PURPOSE

Resets Digital Interface Frame-Export 1 (DIF-E1) buffers and pests.

Format [1] is used to reset a particular DIF-E1 controller(s) **`APUT`**, **`APUF`**, **`BLM`**, or **`DBOV`** pest.
Format [2] is used to reset the Digital Interface Unit (DIU) pest in the DIF-E1.
Format [3] is used to reset the Digroup (DG) pest in the particular DIU of the DIF-E1.

2. FORMAT

[1] **`ALW:DIF`** `a,{`**`APUT`**`|`**`APUF`**`|`**`BLM`**`|`**`DBOV`**`}!`

[2] **`ALW:DIF`** `a,`**`DIU`** `b,`**`SPEC`**`!`

[3] **`ALW:DIF`** `a,`**`DIU`** `b,`**`DG`** `c!`

3. EXPLANATION OF MESSAGE

`a`	Digital interface frame-export 1 (0 to 31).
`b`	Digital interface unit-export 1 (0 to 33).
`c`	Digroup (1 to 5).
`APUF`	Autonomous peripheral failure.
`APUT`	Autonomous peripheral trouble.
`BLM`	Base level maintenance pest.
`DBOV`	Digital buffer overflow pest.

4. SYSTEM RESPONSE

`PF`	Printout Follows. The input message will be printed when pesting has been scheduled.

5. REFERENCES

PIDENT
ERATPEST

SEE PROPRIETARY NOTICE ON COVER PAGE

Input Message
`INH:DIF`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ALW:DT
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Unpests either all digroup terminals (DTs) or specified digroup terminal units (DTUs).

Format [1] is used to unpest an entire DT.
Format [2] is used to unpest the specified or all DTUs.

2. FORMAT

[1] **ALW:DT** a,**SPEC!**

[2] **ALW:DT** a,**DTU** b,{**SPEC**|**ALL**}**!**

3. EXPLANATION OF MESSAGE

a	**DT** number (1-127).
b	**DTU** number (0-8).
SPEC	Specified **DT** or **DTU** only.
ALL	All **DTU**s on this **DT**.

4. SYSTEM RESPONSE

PF	Printout Follows. The input message is echoed when the unpest request is sent to the **DT** message handler.

5. REFERENCES

PIDENT
ERATPEST

Input Message
INH:DT

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ALW:ERAP
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Turns on the collection of traffic/plant measurement report and allows specified error analysis functions. See input message `INH:ERAP` for information on setting error analysis program (ERAP) inhibits.

Format [1] is used to allow a specified error analysis function.
Format [2] is used to turn-on the collection of the traffic/plant measurement report.

2. FORMAT

[1] **`ALW:ERAP`** `a`**`!`**

[2] **`ALW:ERAP:MEASREPT`** `b`**`[,NOPRINT]!`**

3. EXPLANATION OF MESSAGE

`a` Function to be allowed. The argument `a` may be selected to be any of the ERAP record type names or file type names listed in the description of the input message `OP:ERAPDATA`. For each type of data name in `a`, the result of the **`ALW:ERAP`** message will be to allow the collection of the data by ERAP.

NOTE: All record types are normally collected by ERAP except for record types `RAWDGNP` and `RAWDGNA`.

The following choices can also be used for `a`:

`AUDT` Allows the auditing of the error analysis data base.

`DRAF` Allows the processing, data reduction, and formatting of data and permanent storage disk.

`NORMAL` Allows all "normal" ERAP functions. This includes `UNLDILBF`, `UNLDBLBF`, `DRAF`, `AUDT`, `PACK`, and all data collection except for record types `RAWDGNP` and `RAWDGNA`, and traffic/plant measurement reports. It also does not include the `OTHERDGN` case.

`NORMALBLD` Allow collection of all records normally collected on base level. Not included in this category are records of type `MLHIST`, `MLPHSE`, `PHSEHST`, `RAWDGNP` and `RAWDGNA`.

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`OTHERDGN` Allow the collection of all diagnostic records, not just those automatically requested by fault recovery programs. Included are diagnostics requested manually, by routine exercises, from alarm scans, and via manual `RST:` messages. Types are as follows:

`PACK` Allows the repacking of permanently stored data.

`UNLDBLBF` Allows the unloading of the base level buffer from core to file store. This choice affects all record types other than `MLHIST`.

`UNLDILBF` Allows the unloading of the interrupt level buffer from core to file store. The only record type involved is `MLHIST`.

`b` Number of traffic/plant measurement reports, the collection of which is to be allowed (decimal number between 1 and 23, multiple arguments not allowed). The collection of traffic/plant measurement report number `b` by ERAP will not occur unless the specified measurement report is scheduled via a `SCHED:MEASREPT` input message. The input message `VER:MEASREPT` may be used at any time to verify if a particular report has been scheduled and if ERAP data collection has been allowed for that report. The keyword **`NOPRINT`** is used to specify the option of having the measurement report collected by ERAP but not automatically printed out on a teletypewriter (TTY).

NOTE: The collection of measurement reports by ERAP is automatically turned off whenever the base call store (CS) is pumped (zeroed).

4. SYSTEM RESPONSE

`?D,MISS KW` Data field contains an error. Invalid message of the form **`ALW:ERAP!`** or **`ALW:ERAP a:NOPRINT!`** (Keyword **`MEASREPT`** missing)

`?I,INV CHAR` Identification field contains an error. Argument of keyword **`ERAP`** not recognized.

`?I,INV DATA` Identification field contains an error. Invalid choice of **`ALL`** or **`ALLBLD`** as an argument of keyword **`ERAP`**, or argument of **`MEASREPT`** not between 0 and 23.

`OK` Good. Request accepted and completed.

5. REFERENCES

PIDENTs
ERAP
ERIF

Practice 254-280-320, *Error Analysis Program*
Practice 254-200-215, *Error Analysis Program Application*

SEE PROPRIETARY NOTICE ON COVER PAGE

PA-4A002-01, *4ESS™ User's Manual*

Input Messages

```
AUD:ERAPDATA
CLR:ERAPDATA
INH:ERAP
OP:ERAPDATA
SCHED:MEASREPT
UPD:ERAP
VER:MEASREPT
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ALW:EST
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Causes the specified pest of the echo suppressor terminal (EST) to be reset.

2. FORMAT

ALW:EST a,{**KCODE**|**APUT**|**APUF**|**ALL**|**ESU** b,**SPEC**}!

3. EXPLANATION OF MESSAGE

a	**EST** member number.
KCODE	All seems well (ASW) and parity errors at the central control (CC).
APUT	Autonomous interjects.
APUF	Autonomous F levels.
ALL	Autonomous interjects and F levels.
b	Echo suppressor unit (**ESU**) number.

4. SYSTEM RESPONSE

PF	Printout Follows. The input message will be echoed when the function is done.

5. REFERENCES

PIDENT
ERATPEST

Input Messages
INH:EST
OP:PERIFINH

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ALW:FNS
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Initializes the fan system (FNS) within the specified 1B frame. Fan system memory will be initialized, history information will be erased, and control will be reestablished over the fans.

This command is used to return a FNS to service from an inhibited or out-of-service state, and to baseline and restart a FNS if it has been determined the FNS is operating abnormally.

2. FORMAT

ALW:FNS a!

3. EXPLANATION OF MESSAGE

a	A 1-digit decimal number specifying the **FNS** to be initialized (0 or 1).

4. SYSTEM RESPONSE

?E	Syntax Error exists in the message but cannot be resolved to the proper field.
?I	Identification field contains an error. Invalid **FNS** specified. Must be 0 or 1.
PF	Printout Follows. Output message follows.
RL	Retry Later. The request could not be honored due to a temporary lack of system resources.

5. REFERENCES

PIDENTs
FNFRBASE
MCCMEPS1

Input Messages
CLR:FNS
INH:FNS
TEST:FNS

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Messages

```
ALW:FNS
CLR:FNS
REPT:FAN-ST
TEST:FNS
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ALW:IAOFC
WORK CENTER . . MOC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Allows a previously defined call irregularity office trap to output data based on its schedule.

2. FORMAT

ALW:IAOFC,TRAPN a!

3. EXPLANATION OF MESSAGE

a	Trap number (**TRAPN**) to be allowed (32-35).

4. SYSTEM RESPONSE

?D	Data field contains an error. **TRAPN** is not valid for an office (OFC) trap. Must be 32 to 35.
?E	Syntax Error exists in the message but cannot be resolved to the proper field.
NG	No Good. OFC trap specified has not been previously defined.
OK	Good. Inhibit has been removed from the specified trap.
RL	Retry Later.

5. REFERENCES

PIDENTs
TMAD0002
TMAD0005
TMADTRAP

Practice 234-100-051, *Call Irregularities Facility For Data Output On Request*

Input Messages
INH:IAOFC
MON:IAOFC
STOP:MON-IAOFC

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ALW:IATSG
WORK CENTER . . MOC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Allows a previously defined call irregularity trunk subgroup (TSG) trap to output data based on its schedule.

2. FORMAT

ALW:IATSG,TRAPN a**!**

3. EXPLANATION OF MESSAGE

a	Trap number (**TRAPN**) to be allowed (1-31).

4. SYSTEM RESPONSE

?D	Data field contains an error. **TRAPN** is not valid for a TSG trap. Must be 1 to 31.
?E	Syntax Error exists in the message but cannot be resolved to the proper field.
NG	No Good. TSG trap specified has not been previously defined.
OK	Good. Inhibit has been removed from the specified trap.
RL	Retry Later.

5. REFERENCES

PIDENTs
TMAD0002
TMAD0005
TMADTRAP

Practice 234-100-051, *Call Irregularities Facility For Data Output On Request*

Input Messages
INH:IATSG
MON:IATSG
OP:IATSG
STOP:MON-IATSG

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ALW:IATSGCNT
WORK CENTER . . MOC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Allows a previously defined call irregularity trunk subgroup (TSG) counting trap to collect and output data based on its schedule. The current counts will be output at the time of the `ALW` message. Note that an active trap may be allowed, even if it is not inhibited, thus providing a means of dumping the current counts on demand without turning off the trap or zeroing the counts.

2. FORMAT

`ALW:IATSGCNT,TRAPN` `a!`

3. EXPLANATION OF MESSAGE

`a`	Trap number to be allowed (1-15).

4. SYSTEM RESPONSE

`?D`	Data field contains an error. **`TRAPN`** is not valid for an TSG counting trap. Must be 1 to 15.
`?E`	Syntax Error exists in the message but cannot be resolved to the proper field.
`NG`	No Good. TSG counting trap specified has not been previously defined.
`OK`	Good. Inhibit has been removed from the specified trap. Current trap count data will be output by a `REPT:IATSG` message if counting is active for **`TRAPN`** `a`.
`RL`	Retry Later.

5. REFERENCES

PIDENTs
TMAD0002
TMAD0005
TMADTRAP

Practice 234-100-051, *Call Irregularities Facility For Data Output On Request*

Input Messages
`INH:IATSGCNT`
`MON:IATSGCNT`
`STOP:MON-IATS`

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Message
REPT:IATSG

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ALW:IOUS
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Causes all seems well (ASW) and parity pest for the specified input/output unit selector (IOUS) to be released at the central control (CC).

2. FORMAT

ALW:IOUS a,**KCODE!**

3. EXPLANATION OF MESSAGE

a **IOUS** member number.

4. SYSTEM RESPONSE

PF Printout Follows. The input message is echoed when the requested pest is reset.

5. REFERENCES

PIDENT
ERATPEST

Input Message
INH:IOUS

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ALW:LCHAN
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

This message is used to allow a previously defined channel for logical channel operation.

2. FORMAT

`ALW:LCHAN;CHAN` `a!`

3. EXPLANATION OF MESSAGE

`a`	Channel or channels to be allowed. The variable `a` may be either a list of one or more channel names or a list of one or more octal channel numbers.

4. SYSTEM RESPONSE

`?I,INV DATA`	Identification field contains an error. Either one of the channel names is invalid, a channel number is out of range, or a channel is ineligible for logical channel operation.
`NG`	No Good. The channel has no valid channel memory block assignment.
`OK`	Good. The channel or channels have been allowed.

5. REFERENCES

PIDENTs
IOCPIMC4
IOCPMACC

Input Messages
`INH:LCHAN`
`OP:LCHAN`

Output Message
`OP:LCHAN`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ALW:LIBMSG
WORK CENTER . . MAC, MOC, NMOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Requests activation of the auxiliary input message facility for a specified client over selected input channels.

2. FORMAT

ALW:LIBMSG:CLIENT a[,**PREVIOUS**][,**CHAN** b]**!**

3. EXPLANATION OF MESSAGE

a — Library client number (0-7).

PREVIOUS — Use the previous list of channels for the specified client.

b — A channel or list of channels to be allowed input for the specified client. See the User Guidelines of the *Input Message Document* for a list of channel names.

NOTE: If another client (client 'c') owns the facility for any of the channels in the specified client's (client 'a') channel list, client 'a' will be put on a queue for the input facility. When queuing occurs, three-minute intermessage timing is activated on client 'c'. When the facility for client 'c' deactivates, the most eligible client on the queue can request ownership. Eligibility is determined by the shortest channel list. The following qualifications determine what the channel list will consist of:

(a) If neither **PREVIOUS** nor **CHAN** b is specified, the channel list is defaulted to the channel on which the **ALW:LIBMSG** was received.

(b) If **PREVIOUS** is specified and **CHAN** b is not, the channel list is set to the channel list used on the previous **ALW:LIBMSG** for client a.

(c) If **PREVIOUS** is not specified and **CHAN** b is specified, the channel list is b.

(d) If both **PREVIOUS** and **CHAN** b are specified, the channel list is set to the union of the previous list with b.

SEE PROPRIETARY NOTICE ON COVER PAGE

4. SYSTEM RESPONSE

`NG,CODE 1`	No Good. Client a not active program task.
`NG,CODE 2`	No Good. Attempt to request activation of the auxiliary input facility for client 'a' who already owns the facility or is queuing for it.
`NG,CODE 3`	No Good. Channel list is empty.
`PF`	Printout Follows. Acceptable input.

5. REFERENCES

PIDENT
LIBRINPT

Practice 254-280-214, *Library Control Program*

Input Messages
`EX:LIBSYS`
`INH:LIBMSG`

Output Messages
`ALW:LIBMSG`
`INH:LIBMSG`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ALW:MACLI
WORK CENTER . . MOC
GENERIC . . . . . 4E23 Rel. 3 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Terminates the manually-requested inhibit mode of the Maintenance Control Program (MACP). The `INH:MACLI` input message inhibits routine exercises, all automatically scheduled jobs in the maintenance and administration classes, or aborting of General Utility Program (**`GULP`**) commands during interrupts.

2. FORMAT

`ALW:MACLI,CLASS {MTCE|GUTL}!`

3. EXPLANATION OF MESSAGE

`MTCE` Terminates the manually requested inhibit mode of Routine Exercise (REX) functions and automatically scheduled jobs in the maintenance and administration classes.

`GUTL` Terminates the manually requested inhibiting of aborting **`GULP`** commands during interrupts.

4. SYSTEM RESPONSE

`OK` Good. Request accepted and completed.

5. REFERENCES

PIDENT
MACPROUT

Practice 254-280-210, *Maintenance Control Program*

Input Message
`INH:MACLI`

Output Message
`REPT:MACLI-GUTL`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ALW:MCC
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Resets all seems well (ASW) and parity pests at the central control (CC) for the master control complex (MCC).

2. FORMAT

`ALW:MCC 0,KCODE!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`PF`	Printout Follows. Input echoed when pest is reset.

5. REFERENCES

PIDENT
ERATPEST

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ALW:MUPAUD
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Uninhibit the specified master control complex (MCC) and utility processor (MUP) automatic audit(s).

2. FORMAT

ALW:MUPAUD,MUP a:**BANK** b[,**NUM** {c|**(**c,c[,c...]**)**}]**!**

3. EXPLANATION OF MESSAGE

a — Member number of the **MUP** (0 or 1).

b — MUP audit bank number from 0 to 3. Must be in decimal form.

c — MUP audit numbers from 1 to 32 in the audit bank. Must be in decimal form.

NUM — Optional. If **NUM** key word and its arguments are not specified, then all the audits which have been implemented in the specified audit bank will be uninhibited. Otherwise, the only specified audits will be uninhibited.

NOTE: The MUP audit data structure consists of four audit banks and each audit bank has 32 audits. Currently, seven audits in audit bank 0 has been implemented:

BANK 0, NUM 1 — Dual asynchronous receiver transmitter (DUART) counter and timer audits.

BANK 0, NUM 2 — User stack list audits.

BANK 0, NUM 3 — Memory management structure audits.

BANK 0, NUM 4 — Memory parity audits.

BANK 0, NUM 5 — MCC matrix data structure audit.

BANK 0, NUM 6 — Three phase audit of internal page translation tables for correct data and verifies that cross-referencing is correct.

BANK 0, NUM 7 — General MCC global variables audit.

SEE PROPRIETARY NOTICE ON COVER PAGE

4. SYSTEM RESPONSE

`?E`	Syntax Error exists in the message but cannot be resolved to the proper field.
`?I,INV KW`	Identification field contains an error. Invalid key word.
`PF`	Printout Follows.
`RL,CODE 002`	Retry Later. Unable to submit request to MACP (system resources).
`RL,CODE 004`	Retry Later. Another **`ALW:MUPAUD`** is in progress.

5. REFERENCES

PIDENT
MCFRMAUD

Input Messages
`INH:MUPAUD`
`OP:MUPAUD`
`STOP:MUPAUD`
`TEST:MUPAUD`

Output Messages
`ALW:MUPAUD`
`INH:MUPAUD`
`OP:MUPAUD`
`TEST:MUPAUD`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ALW:NCATANOM
WORK CENTER . . MOC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . IATRAP
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Allows a previously defined non-call associated temporary signaling connection anomaly (NCATANOM) trap to output data based on its schedule.

2. FORMAT

ALW:NCATANOM,TRAPN a**!**

3. EXPLANATION OF MESSAGE

a	**NCATANOM** trap number to be allowed (0-1).

4. SYSTEM RESPONSE

?D	Data field contains an error. **TRAPN** is not valid for **NCATANOM** trap. Must be 0-1.
?E	Syntax Error exists in the message but cannot be resolved to the proper field.
NG	No Good. **TRAP** specified has not been previously defined.
OK	Good. Inhibit has been removed from the specified trap.
RL	Retry Later.

5. REFERENCES

PIDENTs
NCATFH
TMAD0005

Input Messages
INH:NCATANOM
MON:NCATANOM
OP:NCATANOM
STOP:MON-NCATANOM

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ALW:NCLK
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Causes the specified chain in the network clock (NCLK) to be unpested internally.

2. FORMAT

ALW:NCLK 0,CHAIN a**,SPEC!**

3. EXPLANATION OF MESSAGE

a	Network clock chain (0-3).
SPEC	Specified chain only.

4. SYSTEM RESPONSE

PF	Printout Follows. The input message will be echoed when the unpesting is done.

5. REFERENCES

PIDENT
ERATPEST

Input Message
INH:NCLK

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ALW:RINGOVLD
WORK CENTER . . MAC, MOC, NMOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Enables the sending and receiving of messages between the 1A and the data link nodes (DLNs). These messages are used to detect when the common network interface (CNI) ring is in overload and implement controls while there is an overload condition.

This message is only needed if input message `INH:RINGOVLD` was used to disable CNI ring overload controls.

2. FORMAT

`ALW:RINGOVLD!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`PF` Printout Follows. Indicates that the request was completed.

5. REFERENCES

PIDENT
OVLDPRGM

Input Message
`INH:RINGOVLD`

Output Messages
`REPT:RING-OVLDCD`
`REPT:RING-OVLDIF`
`REPT:RING-OVLDNR`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ALW:SCLK
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Resets the specified pest of the system clock (SCLK).

Format [1] is used to reset all seems well (ASW) and parity pests for the system clock at the central control (CC).
Format [2] is used to reset specified pests at the controller.
Format [3] is used to reset system clock unit pest.

2. FORMAT

[1] **`ALW:SCLK 0,KCODE!`**

[2] **`ALW:SCLK 0,CONTR` `a``,{`**`ASW|ABM|ALL`**`}!`**

[3] **`ALW:SCLK 0,NCSU 0!`**

3. EXPLANATION OF MESSAGE

`a`	Controller half (0 or 1) where the pest is to be released.
`ASW`	All-seems-well pest.
`ABM`	AB matcher pest.
`ALL`	Both AB matcher and all-seems-well pest.
`KCODE`	ASW and parity pests for the system clock will be reset at the CC.
`NCSU`	Resets the SYNC unit pest.

4. SYSTEM RESPONSE

`PF`	Printout Follows. The input message will be echoed when the unpesting is done.

5. REFERENCES

PIDENT
ERATPEST

Input Message
`INH:SCLK`

SEE PROPRIETARY NOTICE ON COVER PAGE

WARNING
INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

ID . . . . . ALW:SCS
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

WARNING

Use of the `LAN` option to allow Announcement Administration Processor (AAP) access to the Service Circuit Units (SCUs) is necessary to allow remote announcement update and announcement maintenance capability in offices served by an AAP.
If this input message is used in offices whose SCUs are not served by an AAP, interjects and fault recovery action to remove an SCU from service are possible.
In offices served by an AAP, use of this input message when the AAP is unable to communicate over the LAN (eg. during LAN maintenance), may likewise result in interjects and SCU removal from service.
Use the `ALW:SCS x,LAN` input message only when directed to do so by a growth or maintenance procedure or at the direction of technical support.
Refer to AT&T *Service Circuit Maintenance* **(234-151-077) for further information.**

1. PURPOSE

Resets the Service Circuit System (SCS) pests.

Format [1] is used to reset the specified SCS controller(s) Automonous Peripheral Unit Trouble (APUT), Automonous Peripheral Unit Failure (APUF), Base Level Maintenance (BLM) pest, and Local Area Network (LAN) pest(s).
Format [2] is used to reset the Service Circuit Unit (SCU) pest in the specified SCS.

2. FORMAT

[1] **`ALW:SCS` `a,{APUT|APUF|BLM|LAN}!`**

[2] **`ALW:SCS` `a,SCU b,SPEC!`**

3. EXPLANATION OF MESSAGE

`a`	Service circuit system (0-7).
`b`	Service circuit unit (0-15).
`APUT`	Automonous peripheral unit trouble.
`APUF`	Automonous peripheral unit failure.
`BLM`	Base level maintenance pest.
`LAN`	Local area network. Using this, all SCS's LAN pests will be reset regardless of which SCS number is chosen.

SEE PROPRIETARY NOTICE ON COVER PAGE

4. SYSTEM RESPONSE

PF	Printout Follows. The input message will be echoed when pesting has been scheduled.

5. REFERENCES

PIDENT
ERATPES1

Practice 234-151-077, *Service Circuit Maintenance*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ALW:SDUREPT
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Allows printing of `REPT:SDU` messages.

2. FORMAT

`ALW:SDUREPT!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`OK`	Good. The request has been accepted.

5. REFERENCES

PIDENT
TMADTOCA

Input Message
`INH:SDUREPT`

Output Message
`REPT:SDU`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ALW:SDYGRP
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Begins denial of call detail recording for those trunk subgroups that are assigned to the international trunk subgroup study exclusion list. This applies to tape recording of international call detailed recording (ICDR) calls only.

2. FORMAT

`ALW:SDYGRP!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`NG`	No Good. Tape recording of ICDR calls is inhibited.
`OK`	Good. List has been activated.

5. REFERENCES

PIDENT
ICDRPRGM

Input Messages
`CLR:SDYGRP`
`IN:SDYGRP`
`INH:SDYGRP`
`OP:SDYGRP`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ALW:SP
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Causes the specified signaling processor (SP) pest to be reset.

2. FORMAT

ALW:SP a,{**KCODE**|**CONTR** b,{**ALL**|**PEST** c,**SPEC**}}**!**

3. EXPLANATION OF MESSAGE

a	SP member number (0-31).
b	Controller half (0 or 1) where the pest is to be released.
c	Pest number (0-6).
SPEC	Only the request pest to be reset.
ALL	All pests to be reset in the specified controller.
KCODE	All seems well (ASW) and parity pest for the specified SP will be released at the central control (CC).

4. SYSTEM RESPONSE

PF	Printout Follows. The input message will be output to the teletypewriter (TTY) when the unpesting action is done.

5. REFERENCES

PIDENT
ERATPEST

Input Message
INH:SP

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ALW:STRMEX
WORK CENTER . . MOC
GENERIC . . . . . 4E19 only
CLASS . . . . . PMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Allows the stream exerciser program to run. Used in testing the direct memory access (DMA) capability between the 1B processor and attached processor system (APS). This command should only be used during preretrofit testing of the 1B processor. This command is entered on the 1B processor terminal.

2. FORMAT

`ALW:STRMEX!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`NG,CODE 01`	No Good. Attached processor interface (API) is out-of-service (OOS).
`NG,CODE 02`	No Good. Common network interface (CNI) is not provided in office.
`NG,CODE 03`	No Good. API is not operational in office.
`NG,CODE 04`	No Good. Attempt to bring test stream up failed.
`NG,CODE 09`	No Good. Test stream is already up. Test stream must be down to start test.
`OK`	Good. Stream exerciser was successfully enabled.

5. REFERENCES

PIDENT
FNCTSUBS

Input Messages
`INH:STRMEX`
`SET:STRMEX`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ALW:TDAS
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Relinks the current traffic tape into the system.

2. FORMAT

`ALW:TDAS!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`PF` Printout Follows. An output message will follow.

5. REFERENCES

PIDENT
DUPTEXST

Output Message
`REPT:ALW`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ALW:TGR
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Performs three types of unpesting operations as shown.

In the controller form, the specified controller will be unpested. In the terminal form, the specified terminal(s) will be unpested.

Format [1] is used to unpest KCODE pest at the central control (CC).
Format [2] is used to unpest a controller.
Format [3] is used to unpest terminals.

2. FORMAT

[1] **ALW:TGR** a,**KCODE!**

[2] **ALW:TGR** a,**CONTR** b,**SPEC!**

[3] **ALW:TGR** a,**TER** c,{**SPEC**|**ALL**}**!**

3. EXPLANATION OF MESSAGE

a	Terminal grouping (**TGR**) member number (0-15).
b	Controller half (0-1) where the pest is to be released.
c	Terminal number (0-15). (Pest released within both controllers.)
SPEC	The specified terminal will be unpested.
ALL	All terminals within the terminal access circuit (TAC) will be unpested.
KCODE	All seems well (ASW) and parity pest for the specified TAC will be reset at the CC.

4. SYSTEM RESPONSE

PF	Printout Follows. The input message will be echoed when the unpesting is done.

5. REFERENCES

PIDENT
ERATPEST

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ALW:TLP
WORK CENTER . . MOC
GENERIC . . . . . 4E22 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Restarts an inhibited Trouble Location Procedure (TLP) search process, and/or allows a specific unit or set of units to enqueue the TLP summary data in the TLP Disk Queue (TLPQUEUE). When a unit is allowed, it is added to the list of units currently permitted to enqueue the TLP summary data. The current list of allowed units is part of the status data printed in response to the input message `OP:TLPQUEUE`.

See Trouble Location Procedure Description 4ESS™ Switch, Practice 234-010-215, in regard to the concepts of:

(a) The TLPQUEUE,

(b) The TLP summary data,

(c) Enqueuing the TLP summary data in the TLPQUEUE,

(d) The TLP search process, and

(e) The inhibited TLP search process.

NOTE: Units that use the Engineered Data (ED) TLP process do not use the TLPQUEUE or the search process, and are not controlled by this command. These units include the 1B processor cabinet units, the Expanded Time Slot Interchange (XTSI) unit, and the Service Circuit System (SCS) unit.

2. FORMAT

```
ALW:TLP[:[SRCH][,ALL][,API][,DIF][,DT][,EST][,ESU][,IOUS][,NCLK]
      [,PUB][,SCLK][,SP] [,TER][,TGR][,TMSP][,TSI]]!
```

3. EXPLANATION OF MESSAGE

SRCH	Restart the inhibited TLP search process.
ALL	Allow all the units to enqueue the TLP summary data.
API	Allow the Attached Processor Interface (API) to enqueue the TLP summary data.
DIF	Allow the Digital Interface Frame (DIF) to enqueue the TLP summary data.
DT	Allow the Digroup Terminal (DT) to enqueue the TLP summary data.
EST	Allow the Echo Suppressor Terminal (EST) to enqueue the TLP summary data.

SEE PROPRIETARY NOTICE ON COVER PAGE

ESU Allow the Echo Suppressor Unit (ESU) to enqueue the TLP summary data.

IOUS Allow the Input/Output Unit Selector (IOUS) to enqueue the TLP summary data.

NCLK Allow the Network Clock (NCLK) to enqueue the TLP summary data.

PUB Allow the Peripheral Unit Bus (PUB) to enqueue the TLP summary data.

SCLK Allow the System Clock (SCLK) to enqueue the TLP summary data.

SP Allow the Signaling Processor (SP) to enqueue the TLP summary data.

TER Allow the Terminal (TER) to enqueue the TLP summary data.

TGR Allow the Terminal Grouping (TGR) to enqueue the TLP summary data.

TMSP Allow the Time Multiplexed Switch Pair (TMSP) to enqueue the TLP summary data.

TSI Allow the Time Slot Interchange (TSI) to enqueue the TLP summary data.

NOTE: Using the **SRCH** option on this input message will block any of the following input messages until the TLP search process has been enabled:

```
ALW:TLP:SRCH
CLR:TLPQUEUE
OP:TLPQUEUE
```

The TLP search process can be manually inhibited using the `INH:TLP:SRCH` input message format.

4. SYSTEM RESPONSE

`OK` Good. Any unit or units specified are allowed to enqueue the TLP summary data in the TLPQUEUE. If the **SRCH** option was specified, the request has been accepted and will be processed later (no output message will be generated).

`RL` Retry Later. A previous `OP:TLPQUEUE`, `CLR:TLPQUEUE`, or `ALW:TLP:SRCH` input message is not yet completed, and the current input message contained the **SRCH** option.

5. REFERENCES

PIDENTs
DRPPASUB
DRPSUPR

SEE PROPRIETARY NOTICE ON COVER PAGE

Practice 234-010-215, *Trouble Location Procedure - Description*

Practice 234-180-270, *Diagnostic Results Post-Processing Program - Description*

Practice 234-280-230, *Trouble Location Procedure Programs - Description*

PA-4A002-01, *4ESS™ User's Manual*, Section C.3, Trouble Location Procedures

Input Messages
```
CLR:TLPQUEUE
INH:TLP
OP:TLPQUEUE
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ALW:TMSP
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Causes the specified time multiplexed switch pair (TMSP) controller to be unpested.

2. FORMAT

ALW:TMSP a,{**KCODE**|**CONTR** b,**SPEC**}!

3. EXPLANATION OF MESSAGE

a	**TMSP** member number (0-3).
b	Controller half (0-1).
SPEC	Only controller specified to be changed.
KCODE	All seems well (ASW) and parity pest for the specified TMSP will be reset at the central control (CC).

4. SYSTEM RESPONSE

PF	Printout Follows. The input message will be echoed when the action is done.

5. REFERENCES

PIDENT
ERATPEST

Input Message
INH:TMSP

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ALW:TSI
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E21 and later
CLASS . . . . . PMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

This message is used to perform unpesting operations.

Format [1] is used to reset at the Central Control (CC) the All Seems Well (ASW) and parity pest for the specified Time Slot Interchange (**TSI**).

Format [2] is used to unpest the specified **TSI** internally.

Format [3] is used to unpest the specified ports.

Format [4] is used to reset **TSI APUF** or **APUT** frame pests.

2. FORMAT

[1] **ALW:TSI** a,**KCODE!**

[2] **ALW:TSI** a,**CONTR** b,**SPEC!**

[3] **ALW:TSI** a,**SPC** c,{**ALL**|**PORT** d}**!**

[4] **ALW:TSI** a,{**APUT**|**APUF**}**!**

3. EXPLANATION OF MESSAGE

a	**TSI** member number (0-63).
b	Controller (0 or 1).
c	Switching and Permuting Controller (**SPC**) within **TSI** (0 or 1).
ALL	All ports within **SPC**.
d	Port within **SPC** (0-6).
APUT	Autonomous Peripheral Unit Trouble.
APUF	Autonomous Peripheral Unit Failure.

4. SYSTEM RESPONSE

PF	Printout Follows. The input message will be echoed when unpesting is done.

SEE PROPRIETARY NOTICE ON COVER PAGE

NOTE: If the member number variable is an Expanded Time Slot Interchange (XTSI), the echo message will be: `ALW:XTSI n,...NOT STARTED - ILLEGAL MESSAGE`

5. REFERENCES

PIDENT
ERATPEST

Input Message
`INH:TSI`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ALW:USGMEAS
WORK CENTER . . MAC
GENERIC . . . . . 4E19 and later
CLASS . . . . . TRFM
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Allows usage measurements to be collected on a specified time slot interchange (TSI). A separate message is required to enter each TSI frame and switching and permuting controller (SPC) designation. Two input messages are required to allow usage measurements to be collected on an entire TSI frame.

2. FORMAT

`ALW:USGMEAS:TSI a,SPC b!`

3. EXPLANATION OF MESSAGE

a	**`TSI`** frame number (00-63).
b	Switching and permuting controller (**`SPC`**) (0 or 1).

4. SYSTEM RESPONSE

`PF`	Printout Follows. Followed by the `ALW:USGMEAS` output message.

5. REFERENCES

PIDENT
TRAFMSGS

Practice 234-152-1x4, *Traffic and Plant Measurements - Machine Administration Center*
(Where x is the 2nd number of the generic issue [i.e., for 4E19 x=9].)

Translation Guide, 4ESS™, TG-4, Division 10
Section 2a
Section 2b, `INH:USGMEAS:TSI a,SPC b!`
Section 2d, `OP:MEASTSI!`

Output Message
`ALW:USGMEAS`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ALW:UTIL
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Activates all generic utility flags previously input by the `WHEN:ADR` input message. If program execution is flagged, a utility execute instruction is written to the corresponding program address. If data read-writes are flagged, utility system matchers in the active central control (CC) are enabled for matching. When any utility flag is encountered, a G-level interrupt gives entry to the generic utility program.

This message causes the "PROG OFF NORMAL" lamp/printout. The phrase `UTIL ACT` appears in the printout.

2. FORMAT

`ALW:UTIL!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`?R,DPLX FAIL`	Insufficient system Resources are available to determine the validity of the message. Generic utility program (GULP) cannot be paged to parse the message because the file system is duplex failed.
`PF,CODE 050`	Printout will conditionally follow. This acknowledgement is used if file system is duplex failed and GULP is being paged from tape.
`PF,CODE 091`	Printout will conditionally follow.
`RL,CODE 094`	Retry Later. Main memory cannot be altered due to system audit of writable stores (SAWS) auto correction, tape writing program, system update, or recent change.
`RL,CODE 180`	Retry Later. Execution of GULP function is in progress.
`RL,CODE 181`	Retry Later. Message processing is in progress.
`RL,CODE 182`	Retry Later. Data set input mode is in progress on another channel.
`RL,CODE 183`	Retry Later. Data set execution is in progress.
`RL,CODE 185`	Retry Later. No general buffer table (GBT) available or GULP cannot be paged.

SEE PROPRIETARY NOTICE ON COVER PAGE

5. REFERENCES

PIDENTs
GULPUTPP
GULPUTXP
GULRUTCR

Practice 234-301-003, *1B Processor Generic Utility Program (GULP) Application - Description*

PA-4A002-01, *4ESS™ User's Manual*

Input Messages
`CLR:UTIL`
`CLR:UTILFLG`
`INH:UTIL`
`WHEN:ADR`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ALW:UTILMSG
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Prints optional generic utility messages. There are currently two messages classified as optional:

(a) Successful address calculation confirmation message.

(b) Utility flag encountered message.

The phrase `OPT UTIL` will be output in the "PROG OFF NORM" lamp / printout.

2. FORMAT

`ALW:UTILMSG!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`?R,DPLX FAIL`	Insufficient system Resources are available to determine the validity of the message. Generic utility program (GULP) cannot be paged to parse the message because the file system is duplex failed.
`PF,CODE 050`	Printout will conditionally follow. This acknowledgement is used if file system is duplex failed and GULP is being paged from tape.
`PF,CODE 091`	Printout will conditionally follow.
`RL,CODE 180`	Retry Later. Execution of GULP function is in progress.
`RL,CODE 181`	Retry Later. Message processing is in progress.
`RL,CODE 182`	Retry Later. Data set input mode is in progress on another channel.
`RL,CODE 183`	Retry Later. Data set execution is in progress.
`RL,CODE 185`	Retry Later. No general buffer table (GBT) available or GULP cannot be paged.

5. REFERENCES

PIDENTs
GULPUTPP
GULPUTXP
GULRUTCR

SEE PROPRIETARY NOTICE ON COVER PAGE

Practice 234-301-003, *1B Processor Generic Utility Program (GULP) Application - Description*

PA-4A002-01, *4ESS™ User's Manual*, Generic Utility Section

Input Message
`INH:UTILMSG`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ALW:VCNT
WORK CENTER . . MAC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Allows vacant code processing on data previously inhibited by an `INH` message, based on its vacant code class, trunk group, ABCDEF digits, or a combination of these.

Format [1] and Format [2] is used to allow vacant code processing on specified data previously inhibited.
Format [3] is used to allow all vacant code processing by removing all inhibits.

2. FORMAT

[1] **ALW:VCNT:**{**CALLSCRN**|**CCISOUT**|**DIGCOUNT**|**DNHRTTS**|**DNHRVTS**|
FRAUDPRE|**INWTSCRN**|**MISCAMA**|**MISCFAIL**|**NCATANOM**|**NUMSUB**|
ORIGINWT|**SSPFAIL**|**UNAUCAMA**|**VCNTCODE**|**WATSFAIL**}
[,**CIN** a][,**DIGITS** b]**!**

[2] **ALW:VCNT:**{**CALLSCRN**|**CCISOUT**|**DIGCOUNT**|**DNHRTTS**|**DNHRVTS**|
FRAUDPRE|**INWTSCRN**|**MISCAMA**|**MISCFAIL**|**NCATANOM**|**NUMSUB**|
ORIGINWT|**SSPFAIL**|**TNSFAIL**|**UNAUCAMA**|**VCNTCODE**|**WATSFAIL**}
[,**CIN** a][,**4DIGITS** b]**!**

[3] **ALW:VCNT:ALL!**

3. EXPLANATION OF MESSAGE

a	Trunk group with any assigned traffic number.
b	3 or 6 input digits.
ALL	Allow all vacant code processing by removing all inhibits. An **ALW:VCNT:ALL** message must be input to remove an `INH:VCNT:ALL`.
CALLSCRN	Allow 'call denial screening' vacant code class.
CCISOUT	Allow 'subsequent office failure' vacant code class.
DIGCOUNT	Allow 'incorrect number of digits' vacant code class.
DNHRTTS	Allow 'dynamic non-hierarchical routing (DNHR) terminating toll switch' vacant code class. This class includes real time network routing (RTNR) failures.
DNHRVTS	Allow 'DNHR via toll switch' vacant code class. This class also includes real time network routing (RTNR) failures.

SEE PROPRIETARY NOTICE ON COVER PAGE

FRAUDPRE	Allow 'fraud prevention' vacant code class.
INWTSCRN	Allow band exceeded', vacant code class.
MISCAMA	Allow 'misdirected centralized automatic message accounting (CAMA)' vacant code class.
MISCFAIL	Allow 'miscellaneous failure' vacant code class.
NCATANOM	Allow anomaly failure' vacant code class.
NUMSUB	Allow 'number substitution failure' vacant code class.
ORIGINWT	Allow 'originating INWATS not allowed' vacant code class.
SSPFAIL	Allow 'service switching point failure' vacant code class.
TNSFAIL	Allow 'transit network selection failure' vacant code class.
UNAUCAMA	Allow 'unauthorized CAMA' vacant code class.
VCNTCODE	Allow 'vacant code' vacant code class.
WATSFAIL	Allow failure' vacant code class.

NOTE: The following combinations are not valid:

UNAUCAMA,CIN and 6 digits.
UNAUCAMA and 6 digits.
ORIGINWT,CIN and 3 or 6 digits.
ORIGINWT and 3 or 6 digits.
NUMSUB, CIN and 3 or 6 digits.
NUMSUB, CIN.
SSPFAIL, CIN and 3 or 6 digits.
SSPFAIL, CIN.

4. SYSTEM RESPONSE

?D	Data field contains an error. Number of digits is not 3 or 6.
?E	Syntax Error exists in the message but cannot be resolved to the proper field.
?I	Identification field contains an error.
NG	No Good. No such inhibit set.
OK	Good. Message correct.
RL	Retry Later. No storage available to process message.

5. REFERENCES

PIDENT
VCNTANAL

Practice 231-180-247, *Vacant Code Analysis Program - Software Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

Input Message

```
INH:VCNT
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ALW:VERMSG
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Cancels the effects of an `INH:VERMSG` input message and data will be allowed to be output for verify messages.

2. FORMAT

`ALW:VERMSG!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`OK`	Good. Inhibit canceled on this channel.
`NG`	No Good. Channel not inhibited.

5. REFERENCES

PIDENT
VRFY01

Input Message
`INH:VERMSG`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ALW:VIF
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Causes the specified pest(s) to be reset in a voiceband interface frame (VIF).

2. FORMAT

ALW:VIF a,{**IFL0**|**IFL1**|**IPUT0**|**IPUT1**|**BASM**|**ALL**}**!**

3. EXPLANATION OF MESSAGE

a	**VIF** member number (0-127).
IFL0	F-level pest in controller 0.
IFL1	F-level pest in controller 1.
IPUT0	Interject pest in controller 0.
IPUT1	Interject pest in controller 1.
BASM	Special **BASM** pest in both controllers.
ALL	All of the previous pests.

4. SYSTEM RESPONSE

PF	Printout Follows. The input message will be echoed when the pest is done.

5. REFERENCES

PIDENT
ERATPEST

Input Message
INH:VIF

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ALW:VSSID
WORK CENTER . . TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Removes an inhibit on the specified announcement. This message allows the specified function (**EXTUPD**, **STBYACT**, or **UPDREPT**) to be applied to the announcement. A REPT:VSSID message is output to the operational input/output (I/0) channel assigned to a particular announcement as a result of this request.

2. FORMAT

ALW:VSSID a,**SID** b;{**EXTUPD**|**STBYACT**|**UPDREPT**}**!**

3. EXPLANATION OF MESSAGE

a	5-digit voice storage system (VSS) identification (**VSSID**).
b	7-digit service identification (**SID**).
EXTUPD	External updates on VSS or direct producer types of announcements.
STBYACT	Delay activation of a standby announcement from VSS, direct producer, manual recording, or barge-in type of announcement.
UPDREPT	Automatic update received reports from VSS, direct producer, or manual recording updates.

4. SYSTEM RESPONSE

?D	Data field contains an error.
?E	Syntax Error exists in the message but cannot be resolved to the proper field.
OK	Good. Request accepted.
PF	Printout Follows. Output message will print for failures only stating the reason for failure.
RL	Retry Later.

5. REFERENCES

PIDENTs
ANNHTTYM
TMAD0005

Output Message
REPT:VSSID

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ALW:WPAD
WORK CENTER . . MAC, MOC, NMOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Allows write protect on all program store and call store communities.

2. FORMAT

`ALW:WPAD!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`OK` Good. Request has been accepted.

5. REFERENCES

PIDENT
WPADCNTL

Input Messages
`INH:WPAD`
`OP:INHINT`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ALW:XALM
WORK CENTER . . MOC
GENERIC . . . . . 4E21 Rel. 4 and later
CLASS . . . . . TOC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

The purpose of this message set is to allow the printing to the 1B Maintenance Channel of any Digital Signal Level 3 (**DS3**) and/or Digital Signal Level 1 (**DS1**) Facility Alarms or Alarm Abatements occurring on Expanded Time Slot Interchanges (**XTSI**s).

Format [1] is used to allow the printing to the Maintenance channel of all **XTSI DS1** and **DS3** Facility Alarms or alarm abatements.

Format [2] is used to allow the printing to the Maintenance channel of all **XTSI DS1** facility alarms or alarm abatements.

Format [3] is used to allow the printing to the Maintenance channel of all **XTSI DS3** facility alarms or alarm abatements.

Format [4] is used to allow the printing to the Maintenance channel of all **DS3** facility alarms or alarm abatements for the input **XTSI**.

Format [5] is used to allow the printing to the Maintenance channel of all **DS1** facility alarms or alarm abatements for the input **XTSI**.

Format [6] is used to allow the printing to the Maintenance channel of all **DS3** facility alarms or alarm abatements for the input **XTSI** and Digital Signal Level 3 Interface Unit (**D3U**).

Format [7] is used to allow the printing to the Maintenance channel of all **DS1** facility alarms or alarm abatements for the input **XTSI** and **D3U**.

2. FORMAT

[1] **ALW:XALM!**

[2] **ALW:XALM;DS1!**

[3] **ALW:XALM;DS3!**

[4] **ALW:XALM;DS3:XTSI** a**!**

[5] **ALW:XALM;DS1:XTSI** a**!**

[6] **ALW:XALM;DS3:XTSI** a**,D3U** b**!**

[7] **ALW:XALM;DS1:XTSI** a**,D3U** b**!**

SEE PROPRIETARY NOTICE ON COVER PAGE

3. EXPLANATION OF MESSAGE

a	**XTSI** member number.
b	**D3U** unit number (0-5).

4. SYSTEM RESPONSE

?D	Data field contains an error. Illegal or invalid data input.
OK	Good. Request accepted.

5. REFERENCES

PIDENT
TMTCXTMM
TMTCXTSI

Input Messages
INH:XALM
OP:XALM

Output Messages
REPT:XALM
REPT:XTSI

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ALW:XTSI
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E24 Rel. 2 and later
CLASS . . . . . PMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

This message is used to perform unpesting operations.

Format [1] is used to reset at the Central Control (CC) the All Seems Well (ASW) and parity pest for the specified Expanded Time Slot Interchange (**XTSI**).

Format [2] is used to reset **XTSI**, Base Level Maintenance (**BLM**), Control Bus and Image Administration (**CIA**), Autonomous Peripheral Unit Failure (**APUF**), or Autonomous Peripheral Unit Trouble (**APUT**) frame pests.

Format [3] is used to reset the Digital Signal Level 3 Unit (**D3U**) pest in the **XTSI** frame.

Format [4] is used to reset the Signal Processing Unit (**SPU**) pest in the **XTSI** frame.

Format [5] is used to reset the In-Band Unit (**IBU**) pest in the **XTSI** frame.

2. FORMAT

[1] **ALW:XTSI** a,**KCODE!**

[2] **ALW:XTSI** a,{**APUT**|**APUF**|**CIA**|**BLM**}**!**

[3] **ALW:XTSI** a,**D3U** b,**SPEC!**

[4] **ALW:XTSI** a,**SPU** c,**SPEC!**

[5] **ALW:XTSI** a,**IBU 0**,**SPEC!**

3. EXPLANATION OF MESSAGE

a	**XTSI** member number (0-63).
APUT	Autonomous Peripheral Unit Trouble.
APUF	Autonomous Peripheral Unit Failure.
CIA	CIASUM pest.
BLM	Base Level Maintenance Pest.
b	**D3U** number (0-7).
c	**SPU** number (0-11).

SEE PROPRIETARY NOTICE ON COVER PAGE

4. SYSTEM RESPONSE

PF	Printout Follows. The input message will be echoed when unpesting is done.

NOTE: If the member number variable is a Time Slot Interchange (TSI), the echo message will be: `ALW:TSI n,...NOT STARTED - ILLEGAL MESSAGE`

5. REFERENCES

PIDENT
ERATPEST
XTSIPEST

Input Message
`INH:XTSI`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ANALY:DIGROUP
WORK CENTER . . MOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Initiates a manual camp-on for the specified digroup. Bipolar violations will be monitored and a bipolar violation rate (BVR) computed when the sample count reaches 63 (in approximately 17 minutes).

2. FORMAT

ANALY:DIGROUP,{**OTAN** a|**TAN** b|**CIN** c|**TSN** d|**DT** e,**DTU** f,**DG** g}**!**

3. EXPLANATION OF MESSAGE

a — Octal trunk appearance number (**OTAN**) of any trunk in the digroup.

b — TSI-SP-PORT-CHANNEL trunk appearance number (**TAN**) of any trunk in the digroup:

- CHANNEL — A 3-digit decimal number indicating channel, range 000-127.
- PORT — A 1-digit decimal number indicating port of time slot interchange (TSI), range 0-6.
- SP — A 1-digit decimal number indicating signaling processor (SP) of TSI, range 0-1.
- TSI — A 2-digit decimal number indicating the TSI member number, range 00-63.

c — Circuit identification number (**CIN**) of any trunk in the digroup.

d — SP-ROW-POINT trunk scanner number (**TSN**) of any trunk in the digroup:

- POINT — A 2-digit decimal number indicating the point in the row, range 00-15.
- ROW — A 3-digit decimal number indicating the row in the SP, range 000-255.
- SP — A 2-digit decimal number indicating the SP member number, range 00-31.

e — Digroup terminal (DT) number of digroup.

f — Digroup terminal unit (DTU) number of digroup. DTU number of digroup.

g — Digroup number.

SEE PROPRIETARY NOTICE ON COVER PAGE

4. SYSTEM RESPONSE

`?D`	Data field contains an error. Trunk or digroup data is invalid, e.g., out of range, or DT identified is nonoperational.
`?E`	Syntax Error exists in the message but cannot be resolved to the proper field.
`NG`	No Good. Trunk is on digroup belonging to a DIF unit.

5. REFERENCES

PIDENTs
TMAD0005
TMAD0061

Practice 234-700-052, *Digital Facility Trunk Trouble Reporting*

Input Messages
`OP:DGSTAT`
`STOP:ANALY-DIG`

NOTE: Use the `OP:DGSTAT` input message to determine the present state of digroup

Output Message
`ANALY:DIGROUP`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ANALY:TLPFILE
WORK CENTER . . MOC
GENERIC . . . . . 4E22 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Manually generates the Trouble Location Procedure (TLP) summary data in order to create a TLP Disk Queue (TLPQUEUE) file which will be processed by the TLP search program. This command is not applicable to units that use the Engineered Data (ED) TLP process. These units include the 1B processor cabinet units, the Expanded Time Slot Interchange (XTSI) unit, and the Service Circuit System (SCS) unit.

Format [1] is used to initiate manual generation of TLP summary data.
Format [2] is used to enter TLP summary data.
Format [3] is used to end generation process.

2. FORMAT

[1] **ANALY:TLPFILE:**a b[,c d]**!**

[2] **ANALY:TLPFILE;**d[:[**V1** e][,**V2** f][,**V3** g][,**V4** h][,**V5** i][,**V6** j]]**!**

[3] **ANALY:TLPFILE:END!**

3. EXPLANATION OF MESSAGE

a	Unit type
b	Member number
c	Subunit type
d	Subunit member number
d	The key, a data type indicator. (See ANALY:TLPF-SUM output messages.)
e	Octal data for **V1** associated with the previous data type indicator.
f	Octal data for **V2** associated with the previous data type indicator.
g	Octal data for **V3** associated with the previous data type indicator.
h	Octal data for **V4** associated with the previous data type indicator.
i	Octal data for **V5** associated with the previous data type indicator.
j	Octal data for **V6** associated with the previous data type indicator.

NOTE: The data type indicator and the octal variables for **V1** through **V6** are copied directly from the ANALY:TLPF-SUM output messages containing the TLP summary data.

SEE PROPRIETARY NOTICE ON COVER PAGE

NOTE: The TLPQUEUE file is created and enqueued in the TLPQUEUE and will be processed like a normal TLPQUEUE file generated by the execution of a diagnostic request. Input processing will automatically abort if more than 300 seconds elapse before the next **ANALY:TLPFILE** input message.

See Section C.3 Trouble Location Procedures in PA-4A002-01 in regard to the concepts of:

(a) The TLPQUEUE,

(b) A TLPQUEUE file,

(c) That TLP summary data,

(d) Enqueuing the TLP summary data in the TLPQUEUE, and

(e) The TLP search process.

4. SYSTEM RESPONSE

Format [1]:

NG — No Good. A previous **ANALY:TLPFILE** input message is still active awaiting more TLP summary data or the input message to complete the generation process.

PF — Printout Follows. Request to begin the generation of the TLP summary data accepted. An ANALY:TLPF-SUM output message will follow indicating the disposition of the request.

RL — Retry Later. The processing of a previous **ANALY:TLPFILE** input message has not yet completed.

— ANALY:TLPFILE QUEUE FILLED - FILE NOT OPENED
— ANALY:TLPFILE DATA ENTERED.
Indicates the generation process has successfully started and will now accept the TLP summary data.

Format [2]:

NG — No Good. A previous **ANALY:TLPFILE** input message has not been successfully processed, therefore the generation process will not accept the TLP summary data.

PF — Printout Follows. Request to generate a portion of the TLP summary data accepted. An ANALY:TLPF-SUM output message will follow indicating the disposition of the request.

SEE PROPRIETARY NOTICE ON COVER PAGE

`RL` Retry Later. The processing of a previous **`ANALY:TLPFILE`** input message has not yet completed.

— `ANALY:TLPFILE ERROR IN DATA - RE-ENTER`
No previous data will be overwritten and only the last input message need be re-entered after correcting the error in the data. (See `ANALY:TLPF-SUM` output messages for the permitted ranges of values for the octal data.)

— `ANALY:TLPFILE DATA ENTERED.`
Indicates the portion of the TLP summary data was processed successfully. Note that any octal variable may be re-entered; the final value will be the last value entered.

Format [3]:

`NG` No Good. A previous **`ANALY:TLPFILE`** input message has not been successfully processed, therefore the generation process cannot complete the TLP summary data.

`PF` Printout Follows. Request to complete the generation of the TLP summary data accepted. The generation process will create and enqueue the TLPQUEUE file and the TLP summary data output message (see `ANALY:TLPF-SUM`) will be printed to permit the verification of the TLP summary data generated.

`RL` Retry Later. The processing of a previous **`ANALY:TLPFILE`** input message has not completed.

5. REFERENCES

PIDENTs
DRPPASUB
DRPSUPR

Practice 234-010-215 *Trouble Location Procedure - Description*
Practice 234-280-230, *Trouble Location Procedure Programs - Description*

PA-4A002-01, *4ESS™ User's Manual*, Section C.3, Trouble Location Procedures

Output Message
`ANALY:TLPF-SUM`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID APMSG:0
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . APSMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Delivers a 3B attached processor system (APS) input message from a 1A processor input/output (I/O) channel to the APS.

NOTE: Syntax checks on the APS portion of the message are made only after the message has been delivered to the APS.

The APS will return to the 1A channel an echo of the input message and its 3B acknowledgement. Any resulting APS output messages will also be printed at the 1A channel.

2. FORMAT

APMSG:a**!**

3. EXPLANATION OF MESSAGE

a	Text of the APS input message.

4. SYSTEM RESPONSE

?C	Channel is not valid for this message. Channel is not in message class APSMTC. Use the RTE:MSGCLS input message to temporarily add the channel to the class.
NG,API DPLX FAILED	No Good. Indicates that the communication link to the APS is unavailable because both attached processor interfaces (APIs) are out-of-service.
NG,APSMSGS INHIBITED	No Good. Indicates that the feature to send input messages to the APS is inhibited. Use the ALW:APMSG input message to enable the feature.
NG,MSG NOT FOUND	No Good. Indicates that no data was found in the APS field of the input message.
OK	Good. Indicates that the message has been sent to the APS.
RL,APMH BUFFER FULL	Retry Later. Indicates that no job buffers were available to send the message to the APS.
RL,APMH NOT READY	Retry Later. Indicates that the message handler was not properly initialized to accept the APS.

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`RL,APMH TROUBLE`	Retry Later. Indicates that the message handler was unable to process the request to send the message to the APS.

5. REFERENCES

PIDENT
IOCPUSR1

Input Messages
`ALW:APMSG`
`INH:APMSG`
`RTE:MSGCLS`

Output Messages
`REPT:APMSG`
`REPT:IOCP`

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ID . . . . . APP:CALLTYPE
WORK CENTER . . MOC
GENERIC . . . . . 4E25 Rel. 4 and later
APPLICATION . . 4E
TYPE . . . . . Input

VALID CALLTYPES

TABLE 1: 3-DIGIT TRANSLATOR (HT43DIG): POTS SUBDOMAINS
TABLE 2: CALLTYPE VERSUS DOMCLASS/DOMAIN
TABLE 3: TRANSLATOR
TABLE 4: CALLTYPE POPULATION

TABLE 1

3-DIGIT TRANSLATOR (HT43DIG): POTS SUBDOMAINS

	SNPA 10-Digit Routing				Traditional Routing						
Calltype	AC	IT	SNPA1-31	SNNAPCA1-31a	AC	IT	ITNAC	SNPA1b	SNNAPCA1b	SNPA2-8	SNNAPCA2-8a
AIN	N	N	N	N	Y	Y	Y	Y	Y	Y	N
CRB	S	S	S	S	S	S	S	S	S	S	S
CTWI	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
DELETE	N	N	N	N	Y	Y	N	Y	N	Y	N
DSD	S	S	S	S	S	S	S	S	S	S	S
DSN	S	S	S	S	S	S	S	S	S	S	S
EAR	S	S	S	S	S	S	S	S	S	S	S
FHT	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
GNS	S	S	S	S	S	S	S	S	S	S	S
IND	N	N	Y	N	N	Y	N	Y	N	Y	N
INWATS	S	S	S	S	S	S	S	S	S	S	S
IRA	Sc	S	S	S	Sc	S	S	S	S	S	S

Y=Valid calltype, N=Invalid calltype, S=Valid via the DIGSUP Calltype (CTWI)
a: Calltypes besides PFX and FHT are only populated in these translators if the code is a Universal Treatment Code
b: SNPA1=POTSHNPA, SNPA1NAC=HNPANAC
c: Only IRA CALLDATA=RTRDOM is valid in AC subdomain.

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TABLE 1 (continued)

3-DIGIT TRANSLATOR (HT43DIG): POTS SUBDOMAINS (continued)

	SNPA 10-Digit Routing				Traditional Routing						
Calltype	AC	IT	SNPA1-31	SNNAPCA1-31a	AC	IT	ITNAC	SNPA1b	SNNAPCA1b	SNPA2-8	SNNAPCA2-8a
MCT	S	S	S	S	S	S	S	S	S	S	S
MMT	S	S	S	S	S	S	S	S	S	S	S
MRT	S	S	S	S	S	S	S	S	S	S	S
MTA	S	S	S	S	S	S	S	S	S	S	S
NDIG	N	N	N	N	N	N	N	N	N	N	N
NVD	N	N	N	N	N	N	N	N	N	N	N
PAS	S	S	S	S	S	S	S	S	S	S	S
PHNPA	N	N	N	N	N	N	N	N	N	Y	Y
PLU	N	N	N	N	N	N	N	N	N	N	N
PREFIX	N	N	Y	Y	N	N	N	Y	Y	Y	Y
PRT	S	S	S	S	S	S	S	S	S	S	S
RDB (DET)	S	S	S	S	S	S	S	S	S	S	S
RNHR	S	S	S	S	S	S	S	S	S	S	S
SD1	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
SD2	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
SD3	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
SDX (SDIGM)	S	S	S	S	S	S	S	S	S	S	S
SSP	S	S	S	S	S	S	S	S	S	S	S
TEL	S	S	S	S	S	S	S	S	S	S	S
TST	S	S	S	S	S	S	S	S	S	S	S
TTS	S	S	S	S	S	S	S	S	S	S	S
TTSGNS	S	S	S	S	S	S	S	S	S	S	S

Y=Valid calltype, N=Invalid calltype, S=Valid via the DIGSUP Calltype (CTWI)
a: Calltypes besides PFX and FHT are only populated in these translators if the code is a Universal Treatment Code
b: SNPA1=POTSHNPA, SNPA1NAC=HNPANAC
c: Only IRA CALLDATA=RTRDOM is valid in AC subdomain.

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TABLE 2

CALLTYPE VERSUS DOMCLASS/DOMAIN

Domclass==>	DOM											ATNS	GSDN	ITRP		APN	NSR	INTL	No Domclass	
Domain==>	POTS AC N	POTS AC Y	NON POTS*	SF00..SF39	SDNA	DEV & DED	DEC64 & DER64	BBC DEC0 DER0 DEC1 DER1	NHOC & NH1C	INCD	N64C & N64R	ATNS & STCD	GSDN	IVT	I56D I64C I384 IH1C	APN	NSR	INTO INTT	VRFY	DAVT
Calltype																				
AIN	Y	Y	Ya	Y	N	N	N	N	N	N	Yb	N	N	N	N	N	N	N	N	N
CRB	S	S	S	S	S	S	S	N	N	N	S	N	N	N	N	S	S	N	N	N
CTWI	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N
DSD	S	S	S	N	S	S	S	S	S	S	S	N	S	N	N	S	N	N	N	N
DSN	S	S	S	N	S	S	S	S	S	S	S	N	S	S	S	S	N	Sd	N	N
EAR	S	S	S	S	S	S	S	S	S	S	S	N	N	N	N	N	N	N	N	N
FHT	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
GNS	S	S	S	S	S	S	S	S	S	S	S	N	S	S	S	S	N	S	S	N
INWATS	S	S	S	N	S	S	N	N	N	N	S	N	N	S	N	S	S	N	N	N
IRA	S	S	S	N	S	S	S	N	N	S	S	S	N	S	S	S	N	N	N	N
MCT	S	S	S	N	S	S	S	S	S	S	S	N	S	S	S	S	N	S	N	N
MMT	S	S	S	S	S	S	S	N	N	N	S	N	N	S	N	S	N	N	N	N
MRT	S	S	S	N	S	S	S	S	S	S	S	N	S	S	S	S	N	S	N	N
MTA	S	S	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
NDIG	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	Y	N	N
NVD	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	Y
PAS	S	S	S	N	S	S	N	N	N	N	S	N	N	N	N	S	S	N	N	N
PLUc	N	Y	Y	N	N	Y	Y	Y	Y	Y	Y	N	Y	Y	Y	Y	N	N	N	N
PRT	S	S	S	N	S	S	S	S	S	S	S	N	N	S	S	S	S	S	N	N
RDB(DET)	S	S	S	S	S	S	S	S	S	S	S	N	S	S	S	S	S	S	N	N
RNHR	S	S	S	N	S	S	S	S	S	S	S	N	N	S	S	S	N	N	N	N
SD1	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	Y
SD2	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	Y
SD3	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	Y
SDX(SDIGM)	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	N
SSP	S	S	S	N	S	S	S	S	S	N	S	S	N	S	S	S	S	N	N	N
TEL	S	S	S	N	S	S	N	N	N	N	S	N	N	N	N	S	S	N	N	N
TST	S	S	S	N	S	S	S	S	S	N	S	N	S	S	S	S	N	N	S	N
TTS	S	S	S	S	S	S	S	S	S	S	S	N	N	S	S	S	N	N	N	N
TTSGNS	S	S	S	S	S	S	S	S	S	S	S	N	N	S	S	S	N	N	N	N

Y=Valid calltype, N=Invalid calltype, S=Valid via the DIGSUP Calltype (CTWI)
*: 20-83 (excluding IVT=81)
a: AIN Restricted to Domains 20-69 and 82.
b: AIN only valid in N64C domain
c: PLU calltype is only valid at NTD=6
d: DSN is only valid via MRT Calltype

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TABLE 3

TRANSLATOR

Calltype	S-Digit Translator Number of S-Digits			1-Digit Trans	DIGSSUP	PRT Trans	MRT Trans	MCT Trans	AIN Trans	PLU Trans	Manual SDX HT4CODEGRP
	Auto One S-Digit	Auto Two S-Digit	Auto Three S-Digit								
AIN	Y	Y	Y	N	N	N	N	N	N	N	N
CRB	S	S	S	N	Y	S	N	N	N	S	S
CTWI	Y	Y	Y	Y	N	Y	Y	Y	Y	Y	Y
DELETE	N	N	N	N	N	N	N	N	N	N	N
DSD	S	S	S	N	Y	N	N	N	N	N	S
DSN	S	S	S	Sb	Y	S	S	S	N	S	S
EAR	S	S	S	N	Y	S	N	N	N	S	S
FHT	Y	Y	Y	Y	N	N	N	N	N	Y	Y
GNS	S	S	S	S	Y	S	N	N	S	S	S
IND	N	N	N	N	N	N	N	N	N	N	N
INWATS	S	S	S	N	Y	N	N	N	N	N	S
IRA	S	S	S	N	Y	N	N	N	N	N	S
MCT	S	S	S	S	Y	N	N	N	N	S	S
MMT	S	S	S	N	Y	N	N	N	N	S	S
MRT	S	S	S	S	Y	N	N	S	N	S	S
MTA	S	S	S	N	Y	N	N	N	N	S	S
NDIG	N	N	N	Y	N	N	N	N	N	N	N
NVD	Y	Y	Y	N	N	N	N	N	N	N	N
PAS	S	S	S	N	Y	S	N	N	N	Y	S
PHNPA	N	N	N	N	N	N	N	N	N	N	N
PLU	N	N	Y	N	N	N	N	N	N	N	N
PREFIX	N	N	N	N	N	N	N	N	N	N	N
PRT	S	S	S	S	Y	N	S	S	N	S	S
RDB (DET)	S	S	S	S	Y	S	S	S	S	S	S
RNHR	S	S	S	N	Y	N	N	N	N	S	S
SD1	N	N	Y	N	N	N	N	N	Y	Ya	N
SD2	N	N	Y	N	N	N	N	N	Y	Ya	N
SD3	N	N	Y	N	N	N	N	N	Y	Ya	N
SDX (SDIGM)	S	S	S	S	Y	N	N	N	S	S	S
SSP	S	S	S	N	Y	N	S	N	N	N	S
TEL	S	S	S	N	Y	S	N	N	N	N	S
TST	S	S	S	N	Y	N	N	N	N	Y	S
TTS	S	S	S	N	Y	S	N	N	N	N	S
TTSGNS	S	S	S	N	Y	S	N	N	N	N	S

Y=Valid calltype, N=Invalid calltype, S=Valid via the DIGSUP Calltype (CTWI)
a: SD1/2/3 Calltypes are only valid as the default routing treatment.
b: Valid only within an MCT block.

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TABLE 4

CALLTYPE POPULATION

CALL TYPE	CALL DATA	AD1	AD2	AD3	ADC	SC	CHI	DESEP	DNST
CRB	CRBI			optional	req'd	optional	optional	1-255	optional
DSD	IQ10			optional	req'd (10)	opt (DSD)	optional		optional
	SQ7			optional	req'd (7)	opt (DSD)	optional		optional
	SQ10			optional	req'd (10)	opt (DSD)	optional		optional
	IN10			optional	req'd (10)	opt (DSD)	optional		optional
	IN12			optional	req'd	opt (DSD)	optional		optional
	ITS			optional	req'd	opt (DSD)	optional		optional
	GSDN			optional	req'd(8-15)	opt (DSD)	optional		optional
	SDN7			optional	req'd (7)	opt (SDN)	optional		optional
	SD10			optional	req'd (10)	opt (SDN)	optional		optional
	ARA			optional	req'd (10)	opt (DSD)	optional		optional
	IQAR			optional	req'd (10)	opt (DSD)	optional		optional
	RDOM	DOM1		optional	req'd (10)	opt (DSD)	optional		optional
	NRAS			optional	req'd (10)	opt (DSD)	optional		optional
	D1ST			optional	req'd (10)	opt (DSD)	optional		optional
	S710			optional	req'd (7,10)	opt (DSD)	optional		optional
	SO12			optional	req'd	opt (DSD)	optional		optional
	DSD1			optional	req'd	opt (DSD)	optional		optional
	DSD1-DSD12			optional	req'd	opt (DSD)	optional		optional
DSN	NSN			optional	req'd	optional	optional	1-255	optional
EAR	RDBI			optional	req'd	optional	optional	1-255	optional
FHT	FHTI	FHT							
GNS	RDBI	GN	GNSC entry	optional	req'd	optional	optional	1-255	
INW	blank	TFNPA		optional	req'd (10)	opt (INW)	optional		optional
	blank,0-999			optional	req'd (10)	opt (INW)	optional		optional
IRA	EAORI				req'd	optional	optional		optional
	EAORI				req'd	optional	optional		optional
	EASXP				req'd	optional	optional		optional
	EASIN				req'd	optional	optional		optional
	TRD81				req'd	optional	optional		optional
	TRDIN				req'd	optional	optional		optional
	RTRIN	DOM2			req'd	optional	optional		optional
	D2RIN	DOM2			req'd	optional	optional		optional
	RTRDOM	DOM3			req'd (10)	optional	optional		optional
	EASDN	DOM4			req'd	optional	optional		optional
	D3RDOM	DOM3			req'd (13)	optional	optional		optional
LSI	APN	LATA	STATE						
	NANP	LATA	STATE						

( ) - indicates standard entries < > - comments

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TABLE 4 (continued)

CALLTYPE POPULATION (continued)

CALL TYPE	CALL DATA	AD1	AD2	AD3	ADC	SC	CHI	DESEP	DNST
MCT	MCTI			optional	req'd	optional	optional	1-255	optional
MMT	RDBI			optional	req'd	optional	optional	1-255	optional
MRT	MRTI	blank,INH		optional	req'd	optional	optional	1-255	optional
NVD	NVDI								
PAS	12 digit #			optional	req'd (7,10)	optional	optional	1-255	optional
PRT	PRTI			optional	req'd	optional	optional	1-255	optional
RDB	RDBI		blank,OP0-OP7	optional	req'd	optional	optional	1-255	optional
RNR	RDBI			optional	req'd	optional	optional	1-255	optional
SDX	SDINDEX	SDTYPE	blank,CTR						
SD1	SDINDEX	SDTYPE							
SD2	SDINDEX	SDTYPE							
SD3	SDINDEX	SDTYPE							
SSP	RT	TOS	CID		req'd	optional	optional		
	RTOOY	TOS	CID		req'd	optional	optional		
	RTCOIN	TOS	CID		req'd	optional	optional		
	NCP12	TOS	CID		req'd (9,12)	optional	optional		
	DB	TOS			req'd (10)	optional	optional		
	DB7	TOS			req'd (7)	optional	optional		
	DBOOY	TOS			req'd (10)	optional	optional		
	DBCOIN	TOS			req'd (10)	optional	optional		
	EASDNA				req'd	optional	optional		
	EASEQ				req'd	optional	optional		
	NDB	NDBI	RIO		req'd	optional	ND,NDB, NDBB	1-255	
	TNSND	NDBI	RIO		req'd	optional	ND,NDB, NDBB	1-255	
	RTP				req'd	optional	optional	1-255	
	SIAQ	TOS			req'd	optional	optional		
	SICQ	TOS			req'd	optional	optional		
	AIIO				req'd	optional	optional		
	ACPN				req'd	optional	optional		
	SFA	SFAI			req'd	optional	optional		
TEL	12 digit #	SAPN		optional	req'd (7,10)	opt (DLT)	optional	1-255	optional
TST	100-105				req'd	opt (TST)	optional		
	108, 109				req'd	opt (TST)	optional		
	SYN				req'd	opt (TST)	optional		
TTS	TTSI	GN entry optional	GNSC entry req'd if AD1	optional	req'd	optional	optional	1-255	optional

( ) - indicates standard entries < > - comments

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ADDITIONAL CALLTYPE POPULATION INFORMATION FOR TABLE 4

Values for the AD1, AD2, ADC, SC, CHI, and DNST columns in TABLE 4:

AD1	AD2	ADC	SC	CHI	DNST
blank	blank	blank	blank	blank	blank
Go/Nogo entry	GN Screening Class	2-15 International	ALAP	AAT2	D900
SAPN entry	Carrier ID (CID)	3-15 Domestic	ATAP	ABBB	DNST1-DNST23
Type of Service (TOS)	State entry		CANP	ABLK	DSD800
LATA entry	RIO entry		CARP	ACD	HC800
NDBI entry	entry		CUSP	ATOS	I800
DELETE entry	CTR		CUTP	CP00-CP19	INWATS
SD index TYPE	OP0-OP7		DA	EAAR	MQ
DOM1 entry			DLT	EGRH	NETS
DOM2 entry			DSD	ESD2	TC
DOM3 entry			EASC	ESSD	UNAS
DOM4			HAWP	FGB	
TFNPA entry			ICIN	IBBB	
SFAI entry			INCN	IBLK	
FHT entry			INCO	ICDR	
			INET	IEA	
			INW	MSC1	
			IOP	MSC2	
			LDA	ND	
			MCPP	NDB	
			MSC1-4	NDBB	
			MULT	PR00-PR19	
			NWZ1	WAC2	
			QTM	WACK	
			RSYS	WSNO	
			SC1-36		
			SDN		
			SDND		
			SPDI		
			SSP		
			TC		
			TST		

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Values for the AD3 and CALLTYPE columns in TABLE 4. CALLTYPE values are dependent on the AD3 values. AD3 and CALLTYPE combinations are for applications listed in the last column:

AD3	Calltypes	Application
A	MRT,RDB,MCT,PRT	EGRESS indicator
B	CRB,DSD,DSN,GNS,INW,PAS,PRT,RDB,TEL,TTS,MRT	Hicap indicator
C	CRB,DSN,EAR,GNS,MCT,MMT,MRT,PRT,RDB,RNR	TSAA Provider Present
D	CRB,DSN,GNS,MCT,MRT,PRT,RDB,RNR	1+DL indicator
E	none	No meaning - unassigned
F	CRB,DSN,EAR,GNS,MCT,MMT,MRT,PRT,RDB,RNR	ECOS Operator Code
G	CRB,DSN,EAR,GNS,MCT,MMT,MRT,PRT,RDB,RNR	International Advanced Fax
H	CRB,DSN,EAR,GNS,MCT,MMT,MRT,PRT,RDB,RNR	Project R Phase 2 feature
I	none	No meaning - unassigned
J	none	No meaning - unassigned
K	none	No meaning - unassigned
L	none	No meaning - unassigned

Valid listings for some items listed in TABLE 4:

CID — 0000-9999

CRBI — 1-32767

DELETE — blank or 0-15

DOM1 — HNPA, IT, 20-83, DED, DEV, DEC0, DEC1, DEC6, DER0, DER1, DER6, INCD, IVT, APN, NH0C, NH1C

DOM2 — INTO, IO56, IO64, IOH0, IOH1

DOM3 — HNPA, IT, 20-83, DED, DEV, DEC6, DER6, INCD, I56D, I64C, I384, N64C, N64R, IVT, APN, NH0C, NH1C, IH1C

DOM4 — HNPA, IT, 20-83, SDNA, DED, DEV, DEC6, DER6, I56D, I64C, N64C, N64R, IVT, APN

FHT — blank, BOTH, PORT, RSVD. (Valid only for FHT calltypes in PLU.)

FHTI — AR, BT, EA1-EA7, HW, IFF, INC, IVC, MCA, NCA, NCC, NCD, NWC, OOB, ROA, SP1, SP2, T, VCA, DNN, DOO, INF, E01-E20, I01-I30, ISB, LDV, LOB, LSA, NCB, NWN, OOA, OTS, R01-R10, S01-S19, SNA, STO, TDN, UNN, VMA, WAT

Go/Nogo — (G, N)

GNSC — 0-3

LATA — 000-999

MCTI — 1-255

MRTI — 1-8191

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NDBI — 1-1023

NSN — 1-167

NVDI — 0-127

PRTI — 1-127

RDBI — 1-8191

RIO — blank or N,Y

SAPN — 0-63

SDINDEX — 1-16383

SDTYPE — MTS,RSI,DC,DRTC,GSDN,TPC,SDN,IPR,CSRT,FPR,V31K,LRN

SFAI — 0-6,39

STATE — Two alphabetic characters.

TFNPA — blank or 8YY (Y=0,2-8)

TOS — 0-31

TTSI — 1-31

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ID . . . . . AUD:ERAPDATA
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Audits the error analysis data base for errors and performs any necessary corrections.

The variables indicate the level of data to be checked. A request for one level will also cause all lower levels to be checked. The levels, listed from lowest to highest, are **POINTERS**, **TABLES**, **RECORDS**, and **INIT**.

NOTE: When in emergency program environmental configuration (EPEC) mode, automatic error analysis program (ERAP) audit is inhibited. Manual audit requests are allowed through this **AUD:ERAPDATA** input message.

NOTE: An INH:ERAP NORMAL and ALW:ERAP AUDT input messages may be required.

2. FORMAT

AUD:ERAPDATA {**POINTERS**|**TABLES**|**RECORDS**|**INIT**}!

3. EXPLANATION OF MESSAGE

POINTERS Checks all core store buffer pointers and disk pointers, and also checks the maintenance file number (MFNUM) counter.

TABLES Checks the internal consistency of disk directory tables that are used to identify and locate stored records.

RECORDS Checks the integrity of each record stored on disk.

INIT Reinitializes the entire data base and the maintenance file number counter.

4. SYSTEM RESPONSE

PF Printout Follows. Followed by an AUD:ERAPDATA output message and possibly UPD:ERAP output message.

5. REFERENCES

PIDENTs
ERAP
ERIF

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Practice 254-280-320, *Error Analysis Program*
Practice 254-200-215, *Error Analysis Program Application*

Input Messages
`ALW:ERAP`
`INH:ERAP`
`OP:ERAPDATA`

Output Messages
`AUD:ERAPDATA`
`UPD:ERAP`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . AUD:GEN
WORK CENTER . . MOC
GENERIC . . . . . 4E22 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Performs one of two functions using the generic data from the generic data tape file:

(a) Audits (compares) this data to the generic data in core and file system.

(b) Corrects the data in the system based upon the audit.

The 3B command `VER:UPDATE:TAPE,MT x!`, will display the tape header of the tape which is used for the `AUD:` message.

2. FORMAT

`AUD:GEN,TD` `a;{`**`NCG`**`|`**`CORR`**`}!`

3. EXPLANATION OF MESSAGE

`a`	3B tape device number (`0` or `1`).
`NCG`	Audit the data in the noncorrecting mode. In the audit, or noncorrecting mode, which must be run first, the generic data is compared with the tape and any discrepancies are output for examination and buffered for possible future use.
`CORR`	Audit the data in the correcting mode. In the correcting mode, the discrepancies are corrected. All corrections are placed into core without a real-time break. Correction of disk data occurs with real-time breaks. Issuing this message with the **`CORR`** option when the correction blocks are full or aborting the audit after the **`CORR`** mode has started may result in generic data, generic overwrites, being partially in, partially out.

4. SYSTEM RESPONSE

`?I`	Identification field contains an error.
`NG`	No Good. Correcting data type request does not match noncorrecting data type; correcting mode invalid.
`PF`	Printout Follows. An output message, `AUD:0`, will indicate the system response to the message.

SEE PROPRIETARY NOTICE ON COVER PAGE

RL Retry Later.

— AUD: messages cannot be run at the same time library packages are being loaded from tape to file store.
— AUD: messages cannot be run if the 3B is duplex failed.

5. REFERENCES

PIDENTs
LIBRLOAD
SASR
SAST

Practice 254-280-260, *Audit Programs Description*

Output Message
AUD:0

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . AUD:LIBSYS
WORK CENTER . . MOC
GENERIC . . . . . 4E22 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Performs any one of three functions using the library data from the library tape file:

(a) Audits (compares) this data to the library data in the file system.

(b) Corrects the data in the system based upon the audit results.

(c) Writes the tape data to file system in the area specified by the system maps.

The 3B command `VER:UPDATE:TAPE,MT x!`, will display the tape header of the tape which is used for the `AUD:` message.

NOTE: This audit will only work with a 3B generated library tape created using the 3B command `COPY:UPDATE:LIB....`

2. FORMAT

`AUD:LIBSYS,TD` `a;{`**`NCG|CORR|UCL`**`}`**`!`**

3. EXPLANATION OF MESSAGE

`a` 3B tape device number (`0` or `1`).

`NCG` Audit the data in the noncorrecting mode. In the audit, or noncorrecting mode, which must be run first, the system data is compared with the tape and any discrepancies are output for examination and buffered for possible future use.

`CORR` Audit the data in the correcting mode. In the correcting mode, the discrepancies are corrected. All corrections to core are done without a real-time break; corrections of disk data occur with real-time breaks.

Issuing this message with the **`CORR`** option, when the correction blocks are full or aborting after the **`CORR`** option has started, may cause Library System (**`LIBSYS`**) data, library overwrites, to be partially in, partially out.

`UCL` Load data from tape to file system in the area specified by the system maps.

4. SYSTEM RESPONSE

`?I` Identification field contains an error. Extra keyword in message.

`NG` No Good. Correcting data type request does not match noncorrecting data type; correcting mode invalid.

SEE PROPRIETARY NOTICE ON COVER PAGE

PF	Printout Follows. An output message, AUD:, will indicate the system response to the message.
RL	Retry Later.

— AUD: messages cannot be run at the same time library packages are being loaded from tape to file store.
— AUD: messages cannot be run if the 3B is duplex failed.

5. REFERENCES

PIDENTs
LIBRLOAD
SASR
SAST

Practice 254-280-260, *Audit Programs Description*

Output Message
AUD:0

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . AUD:NUM
WORK CENTER . . MAC, MOC, NMOC, TEC, TOC
GENERIC . . . . . 4E21 and later
CLASS . . . . . ALL
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Runs the audit or audits specified.

2. FORMAT

AUD:NUM a[,a[,a]...]!

3. EXPLANATION OF MESSAGE

a — Number(s) of the audit program(s) to be run. May be a single number or a list. If a list of audit numbers is given, numbers must be separated by commas. ALL cannot be used for variable 'a'; numbers must be listed. See Table A for a list of audits.

NOTE: If one or more audits are already in progress from a manual request, an output message will be printed with a list of all audits in progress that were requested. Those audits will not be restarted. If any of the requested audits are inhibited, an output message will be printed and the request for those audits will be ignored.

4. SYSTEM RESPONSE

PF — Printout Follows. Followed by one or more AUD:NUM output messages.

?I,RANGE ERR — Identification field contains an error. Nonexistent audit requested.

5. REFERENCES

PIDENT
AUDSCTRL

Output Message
AUD:NUM

NOTE: Audits that cannot be manually demanded are indicated in Table A. An **AUD:NUM** input message on any of these audits except audit 52 will not be accepted by the system and an output message of range error will result. An **AUD:NUM 52** input message will result in an audit printout.

SEE PROPRIETARY NOTICE ON COVER PAGE

TABLE A
VALID AUDIT NUMBERS

AUDIT NUMBER	AUDIT DESCRIPTION
1	Call register (CR) idle link list
2	CR
3	Interject level timing link list [CR, trunk maintenance register (TMR)]
4	Base-level timing link list (CR, TMR)
5	CR queue for multi-frequency (MF) receiver
6	CR queue for MF transmitter
7	CR queue for operator position
8	Trunk register (TR)
9	TR interject-level engineered timing list
10	TR base-level engineered timing list
11	TR interject-level timing link list
12	TR base-level timing link list
13	TR trunk maintenance high and wet timing link list
14	Network path annex engineered list
15	Trunk maintenance register (TMR)
16	Trunk status busy/idle bits
17	Input/output system
18	Trunk register (TR) link-list trace to detect circular lists
19	Maintenance status of trunks
20	Ringing and tone plant
21	Trunk maintenance register (TMR) idle link list
22	Multi-frequency (MF) transmitter (XMTR), MF receiver (RCVR), common channel interoffice signaling (CCIS) transceiver (XCVR) trunk block status linkage and idle trunks counter
23	Audit list block/integrity (B/I) status
24	TR MF origination queue for call register (CR)
25	Dial pulse-out work-list counters
26	Network map
27	Signaling processor (SP) universal T-bits
28	SP miscellaneous T-bits
29	Trunk block status linkage and trunk subgroup idle trunks counter
30	Trunk error analysis data structures
31	Disk administration
32	SP polling mask, stack configuration, integrity monitor audit request test
33	Traffic separation counters (Cannot be manually demanded.)

SEE PROPRIETARY NOTICE ON COVER PAGE

TABLE A (Continued)
VALID AUDIT NUMBERS

AUDIT NUMBER	AUDIT DESCRIPTION
34	Trunk subgroup head cell information (satellite bit, adjunct linkage, maintenance bus counters) Trunk subgroup head cell information
35	Overload timing control tables
36	Centralized automatic message accounting (CAMA) operator position occupancy counter
37	Miscellaneous CR occupancy counters
38	TR queue for CR (dial pulse-in)
39	File store paging supervisor
40	List CR on idle link list
41	Quick check of all TR link list head cells
42	Lost TMR on idle link list
43	File system to core generic audit
44	Core resident generic data hash check
45	Core resident and expanded memory (XM) nongeneric data hash check
46	Network management (NM) data structures
47	Recorded announcement system
48	Trunk maintenance (TM) data structures
49	Common channel interoffice signaling (CCIS) link security data
50	Dedicated time slot interchange (TSI)
51	CCIS trunk register (TR) queue for call register (CR)
52	CCIS trunk query (Cannot be manually demanded.)
53	Machine administration center (MAC) job structures
54	Trunk maintenance register (TMR) job buffer link list
55	International telephone user part (ITUP) origination query for CRs
56	Long TR base-level engineered timing list
57	TR queue for CR common channel signaling system number 6 (CCITT6)
58	CR queue for multi-frequency (MF) receiver (two-stage)
59	TR No. 5 MF original queue for CR
60	ADS service access data channel (SADC) link status
61	Auxiliary call register (ACR) idle link list
62	ACR
63	Dedicated time slot interchange (TSI) connection register (DTCR)
64	CR queue for government emergency telecommunications service (GETS) dual tone multi-frequency (DTMF) receiver
65	Trunk appearance number (TAN) -to-TAN
66	File system to core nongeneric audit

SEE PROPRIETARY NOTICE ON COVER PAGE

TABLE A (Continued)
VALID AUDIT NUMBERS

AUDIT NUMBER	AUDIT DESCRIPTION
67	Not used
68	Not used
69	Not used
70	Not used
71	Not used
72	Memory fault
73	Not used
74	1B master control complex and utility processor (MUP) hardware/software activity
75	Not used
76	Not used
77	Not used
78	Not used
79	Not used
80	Meet-me teleconferencing status
81	Not used
82	Not used
83	Not used
84	Blue box fraud
85	Large scale nailup connection
86	TR origination queue for IDTS-DTMF receiver
87	IDTS-DTMF origination queue for CRs
88	Trunk register (TR) origination queue for IWS- [dual tone multi-frequency (DTMF)] receiver and call register (CR)
89	CR queue for DTMF transmitter
90	Integrated services digital network (ISDN) user part (ISUP) origination queue for CRs
91	Q.931 origination queue for CRs
92	Total signal failure (TSF) on Q.931 trunks
93	Not used
94	Not used
95	ISUP trunk query (Cannot be manually demanded.)
96	Quick ISUP trunk query
97	Non-call associated temporary signaling connection (NCAT) register idle count
98	NCAT trapping structure

SEE PROPRIETARY NOTICE ON COVER PAGE

TABLE A (Continued)
VALID AUDIT NUMBERS

AUDIT NUMBER	AUDIT DESCRIPTION
99	TR queue for CR (International integrated services digital network [ISDN] user part [INUP])
100	CR queue for positive call processing (PCP) DTMF receiver
101	RTNR transport capability (TC) idle channel count
102	RTNR routing pattern index (RPI) calls in progress count (Cannot be manually demanded.)
103	End-to-end class of service (ECOS) idle channel count
104	ECOS calls in progress count (Cannot be manually demanded.)

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . AUD:NWM
WORK CENTER . . MOC
GENERIC . . . . . 4E22 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Performs any one of three functions using the Network Management (**NWM**) data from the network management tape file:

(a) Audits (compares) this data to the network management data in core and file system.

(b) Corrects the data in the system based upon the audit results.

(c) Writes the tape data to file system in the area specified by the system maps.

The 3B command `VER:UPDATE:TAPE,MT x!`, will display the tape header of the tape which is used for the `AUD:` message.

2. FORMAT

`AUD:NWM,TD a;{NCG|CORR|UCL}!`

3. EXPLANATION OF MESSAGE

`a`	3B tape device number (`0` or `1`).
`NCG`	Audit the data in the noncorrecting mode. In the audit, or noncorrecting mode, which must be run first, the system data is compared with the tape and any discrepancies are output for examination and buffered for possible future use.
`CORR`	Audit the data in the correcting mode. In the correcting mode, the discrepancies are corrected. All corrections to core are done without a real-time break; corrections of disk data occur with real-time breaks. Issuing this message with the **`CORR`** option, when the correction blocks are full or aborting after the **`CORR`** option has started, may cause the **`NWM`** data, **`NWM`** overwrites, to be partially in, partially out.
`UCL`	Load data from tape to file system in the area specified by the system maps.

4. SYSTEM RESPONSE

`?I`	Identification field contains an error. Extra keyword in message.
`NG`	No Good. Correcting data type request does not match noncorrecting data type; correcting mode invalid.
`PF`	Printout Follows. An output message, `AUD:` will indicate the system response to the message.

SEE PROPRIETARY NOTICE ON COVER PAGE

`RL` Retry Later.

— `AUD:` messages cannot be run at the same time library packages are being loaded from tape to file store.
— `AUD:` messages cannot be run if the 3B is duplex failed.

5. REFERENCES

PIDENTs
LIBRLOAD
SASR
SAST

Practice 254-280-260, *Audit Programs Description*

Output Message
`AUD:0`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . AUD:ODA
WORK CENTER . . MOC
GENERIC . . . . . 4E22 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Audits the Office Data (**ODA**) by using a tape mounted on the specified tape unit, or corrects data that has already been audited.

The 3B command `VER:UPDATE:TAPE,MT x!`, will display the tape header of the tape which is used for the `AUD:` message.

2. FORMAT

`AUD:ODA,TD` `a;{`**`CORR`**`|`**`NCG`**`}`**`!`**

3. EXPLANATION OF MESSAGE

`a`	3B tape device number (`0` or `1`).
`CORR`	Audit the data in the correcting mode. Issuing this message with the **`CORR`** option when the correction blocks are full, or aborting the audit after the **`CORR`** mode has started, may result in recent changes, **`ODA`** data, **`ODA`** overwrites, being partially in, partially out.
`NCG`	Audit the data in the noncorrecting mode without checking for recent changes. In the noncorrecting mode, which must be run first, the office data is compared with the tape, and any discrepancies including recent changes are output for examination and buffered for possible future use. If the errors are to be corrected, the message is entered for the correcting mode, and the discrepancies are corrected. All corrections are placed into core without a real-time break. Correction of disk data occurs with real-time breaks.

4. SYSTEM RESPONSE

`?I`	Identification field contains an error. Extra keyword in message.
`NG`	No Good. Correcting data type does not match noncorrecting data type; corrective mode invalid.
`PF`	Printout Follows. An output message, `AUD:`, will indicate the system response to the message.
`RL`	Retry Later.

— `AUD:` messages cannot be run at the same time library packages are being loaded from tape to file store.
— `AUD:` messages cannot be run if the 3B is duplex failed.

SEE PROPRIETARY NOTICE ON COVER PAGE

5. REFERENCES

PIDENTs
LIBRLOAD
SASR
SAST

Practice 254-280-260, *Audit Programs Description*

Output Message
`AUD:0`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . AUD:PUSTAT
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Audits the peripheral hardware and software status, correcting status lamps and updating the duplex failure table. The pests of operational units and the maintenance status of all units are also updated.

If a change in software status occurs during the interval in which the audit runs, an AUD:PUSTAT output message will be printed. Audit calls report any invalid hardware or software states which are detected by PUCNAUDS.

2. FORMAT

AUD:PUSTAT!

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

None.

5. REFERENCES

PIDENT
PUCNAUDS

Practice 234-180-310, *Peripheral Units Fault Recovery Program Description*

Output Message
AUD:PUSTAT

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . AUD:TPM
WORK CENTER . . MOC
GENERIC . . . . . 4E22 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Performs any one of three functions using the Traffic And Plant Measurement (**TPM**) data from the traffic and plant measurement tape file:

(a) Audits (compares) this data to the traffic and plant measurement data in core and file system.

(b) Corrects the data in the system based upon the audit results.

(c) Writes the tape data to file system in the area specified by the system maps.

The 3B command `VER:UPDATE:TAPE,MT x!`, will display the tape header of the tape which is used for the `AUD:` message.

2. FORMAT

`AUD:TPM,TD` `a;{`**`NCG`**`|`**`CORR`**`|`**`UCL`**`}`**`!`**

3. EXPLANATION OF MESSAGE

`a`	3B tape device number (`0` or `1`).
`NCG`	Audit the data in the noncorrecting mode. In the audit, or noncorrecting mode, which must be run first, the system data is compared with the tape and any discrepancies are output for examination and buffered for possible future use.
`CORR`	Audit the data in the correcting mode. In the correcting mode, the discrepancies are corrected. All corrections to core are done without a real-time break; corrections of disk data occur with real-time breaks. Issuing this message with the **`CORR`** option, when the correction blocks are full or aborting after the **`CORR`** option has started, may cause **`TPM`** data, **`TPM`** overwrites, to be partially in, partially out.
`UCL`	Load data from tape to file system in the area specified by the system maps.

4. SYSTEM RESPONSE

`?I`	Identification field contains an error. Extra keyword in message.
`NG`	No Good. Correcting data type request does not match noncorrecting data type; correcting mode invalid.
`PF`	Printout Follows. An output message, `AUD:`, will indicate the system response to the message.

SEE PROPRIETARY NOTICE ON COVER PAGE

`RL` Retry Later.

— `AUD:` messages cannot be run at the same time library packages are being loaded from tape to file store.
— `AUD:` messages cannot be run if the 3B is duplex failed.

5. REFERENCES

PIDENTs
LIBRLOAD
SASR
SAST

Practice 254-280-260, *Audit Programs Description*

Output Message
`AUD:0`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . CFR:ALMGRP
WORK CENTER . . MOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Configures a set of maintenance consoles (MCs) into an alarm grouping arrangement.

NOTE: The alarms and output messages generated in any member of the group will appear at all other members of the group. The alarm grouping can be terminated with the `STOP:CFR-ALMGR` input message.

2. FORMAT

`CFR:ALMGRP``[,`**`MC`** `a]`**`!`**

3. EXPLANATION OF MESSAGE

`a` Maintenance centers to be grouped where `a` is:

- `ALL` — All maintenance centers or two or more of the following:
- `MOC` — Master operations center.
- `TEC1` — Terminal equipment center 1.
- `TEC2` — Terminal equipment center 2.
- `TEC3` — Terminal equipment center 3.
- `TEC4` — Terminal equipment center 4.
- `TEC5` — Terminal equipment center 5.
- `TOC` — Trunk operations center.

NOTE: Default is **`MC ALL`**.

4. SYSTEM RESPONSE

`AT-AG LAMP` Observe the "AT-AG" lamps light on the alarm grid display panels for all the alarm grids associated with the MC which are grouped.

`(PROGRAM CONTROL OFF NORM-LAMP)` Lights on the master control complex (MCC).

`INC DATA` The same maintenance center is specified more than once.

`PF` Printout Follows. Followed by a `CFR:ALMGRP` output message.

`RANGE ERR` Maintenance center specified is not assigned in this office. Consult office translations (ODA - table `OD4MCTABL`).

`RL` Retry Later. A hardware or software alarm is presently active in the maintenance centers specified. Retire all alarms before repeating the request.

SEE PROPRIETARY NOTICE ON COVER PAGE

5. REFERENCES

PIDENT
ALRM01

Practice 234-100-040, *Office Alarm System Description and Theory*

Input Messages
`OP:ALMSTAT`
`STOP:CFR-ALMGR`

Output Message
`CFR:ALMGRP`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . CFR:SIGLK
WORK CENTER . . MOC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Configures the specified voice frequency link (VFL) with the indicated signaling link. If the configure request is intended for an international terminal, the request is used to connect a specified VFL to its assigned terminal after a removal of the link has separated them.

For common channel interoffice signaling (CCIS), this message switches from an active VFL to a standby VFL. To do this, the specified link must be in service.

2. FORMAT

CFR:SIGLK aabb,**VFL** cdddd dd ddd ddd**!**

3. EXPLANATION OF MESSAGE

a	A terminal grouping (TGR) frame number (00 - 15).
b	A terminal subunit number within the frame (00 - 15).
c	Traffic number of the VFL to be configured.
d	Circuit identification number (CIN) with town, state, building, far-building subdivision, and near-building subdivision of the VFL to be configured.

4. SYSTEM RESPONSE

NG	No Good. The signaling link is unassigned, or the specified VFL is not assigned to the specified signaling link.
NG RANGE ERROR	No Good. The TGR number or terminal subunit number exceeds fifteen or the VFL is not assigned.
PF	Printout Follows. Followed by a CFR:SIGLK-VFL output message if the request has been accepted. The output message gives the results of the request.
RL,CODE 0	Retry Later. The mate link is not available or does not have adequate signaling capability to allow the request.
RL,CODE 1	Retry Later. A previous input request is active on this signaling link.
RL,CODE 2	Retry Later. A removal or configure request is pending on the mate link, which makes this request impossible to perform.

SEE PROPRIETARY NOTICE ON COVER PAGE

`RL,CODE 3`	Retry Later. A defensive check of internal data failed while the request was being processed.
`RL,CODE 4`	Retry Later. The VFL designated is not available to the system.
`RL,CODE 5`	Retry Later. A conflict with a far-end configure request has occurred. Repeat the request after several minutes delay.
`RL,CODE 6`	Retry Later. The link is automatic out-of-service and will be denied until signaling has been reestablished on this link.

5. REFERENCES

PIDENTs
CCISMNAC
CCISSLCN
CCISLSIO
CCISIOPR

Output Message
`CFR:SIGLK-VFL`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . CLR:APS
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Allows software access to the 1A file after a duplex failure of the attached processor system (APS). After a duplex failure of the APS communication link, 1A file access is denied. This message will clear the duplex software access failure and will restore access to the 1A file.

2. FORMAT

`CLR:APS` `a`**`;DPLXFAIL!`**

3. EXPLANATION OF MESSAGE

`a`	APS system number (0-7).

4. SYSTEM RESPONSE

`?I,INVD`	Identification field contains an error. Invalid input message format.
`NG`	No Good. Duplex failure does not exist currently.
`NG,INVD`	No Good. Invalid APS number was input.
`NG,MIS`	No Good. Missing argument in message. (**`DPLXFAIL`** keyword was not specified.)
`OK`	Good. Software access to the 1A file is allowed.

5. REFERENCES

PIDENTs
APFRBASE
APFRILEV

Practice 254-280-114, *Attached Processor Interface Programs*
Practice 254-280-210, *Maintenance Control Program*

Input Messages
`ALW:APS`
`INH:APS`

Output Message
`REPT:1A-FILE`

SEE PROPRIETARY NOTICE ON COVER PAGE

WARNING
INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

ID . . . . . CLR:BP-SCS
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

WARNING
Because this message changes the memory or uses critical resources of the hardware unit, this message should only be used when directed by technical support.

1. PURPOSE

This command clears all breakpoints from a Service Circuit System (SCS) frame, or from the frame controllers only, or from a Service Circuit Unit (SCU) only.

Format [1] is used to clear all breakpoints in a simplex SCS controller or duplex SCS controllers.
Format [2] is used to clear all breakpoints in an SCU.
Format [3] is used to clear all breakpoints in an SCS frame (controllers and SCUs).

2. FORMAT

[1] **CLR:BP;SCS** a**!**

[2] **CLR:BP;SCS** a**,SCU** b**!**

[3] **CLR:BP;SCS** a**:ALL!**

3. EXPLANATION OF MESSAGE

a	**SCS** member number in decimal (0-7).
b	**SCU** number in decimal (0-15).
ALL	Clear all breakpoints of the specified frame.

4. SYSTEM RESPONSE

PF	Printout Follows. The breakpoints will be cleared in the specified unit(s). A CLR:BP-SCS output message follows indicating the results of the request.

5. REFERENCES

PIDENT
SCSBPMEM

Input Messages
OP:BP-SCS
SET:BP-SCS

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Messages

```
CLR:BP-SCS
OP:BP-SCS
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . CLR:CCECTRS
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Clears error counters in the central control (CC) subsystem.

2. FORMAT

`CLR:CCECTRS!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`?I,INV KW`	Identification field contains an error. An invalid identification field was specified for **`CLR:CCECTRS`**.
`OK`	Good. Error counter(s) cleared.

5. REFERENCES

PIDENT
CCFRTEST

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . CLR:CHAN
WORK CENTER . . MAC, MOC, NMOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Clears the screen of the input channel and leaves the cursor one space to the right of the home position.

2. FORMAT

`CLR:CHAN!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`OK` Good. Followed by the channel reset sequence.

5. REFERENCES

PIDENT
RCMAMAIN

Translation Guide, 4ESS™, TG-4

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . CLR:ERAPCOND
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

This message is used to clear error analysis condition(s) from disk storage.

Format [1] is used to delete the indicated error analysis condition(s).
Format [2] is used to unconditionally clear the indicated error analysis condition(s).
Format [3] is used to unconditionally clear all stored search conditions.

2. FORMAT

[1] **CLR:ERAPCOND** a**!**

[2] **CLR:ERAPCOND** a**;UCL!**

[3] **CLR:ERAPCOND;UCL!**

3. EXPLANATION OF MESSAGE

a — One or more condition names previously used in an IN:ERAPCOND message.

NOTE: The user is not permitted to clear a condition upon which stored search results (SRES) are based (see message OP:ERAPSRES) unless the appropriate search results are first cleared with the use of the CLR:ERAPSRES message. (Search results/condition discrepancies may be determined by means of an OP:ERAPCOND message.) The action option **UCL** is used to override this restriction.

4. SYSTEM RESPONSE

?I,INC DATA — Identification field contains an error. This response occurs when an attempt is made to clear a condition name that is not presently in the system.

?I,MISS KW — Identification field contains an error. Invalid case of no arguments a of **ERAPCOND** and keyword **UCL** absent.

PF — Printout Follows. Followed by a CLR:ERAPCOND output message.

RL — Retry Later. Too many error analysis program (ERAP) messages waiting to be processed.

SEE PROPRIETARY NOTICE ON COVER PAGE

5. REFERENCES

PIDENTs
ERAP
ERIF

Practice 254-200-215, *Error Analysis Program Application*
Practice 254-280-320, *Error Analysis Program*

Input Messages
`CLR:ERAPSRES`
`IN:ERAPCOND`
`OP:ERAPCOND`
`OP:ERAPSRES`

Output Message
`CLR:ERAPCOND`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . CLR:ERAPDATA
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Clears the specified error analysis data by tagging error analysis records for deletion.

NOTE: Once a record is marked for deletion, it is excluded from further consideration, e.g., in messages `OP:ERAPSUM`, `OP:ERAPDATA`, and `OP:ERAPSRES`.

Format [1] is used to clear data as specified by maintenance file number (MFNUM).
Format [2] is used to clear data resulting from previous search(es), as specified by file number.
Format [3] is used to clear data as specified by maintenance record number (MRNUM).
Format [4] is used to remove any unprocessed (raw) data from the error analysis program (ERAP) file store (FS).

2. FORMAT

[1] **`CLR:ERAPDATA`** `[a]`**`:MFNUM`** `b`**`!`**

[2] **`CLR:ERAPDATA`** `[a]`**`:SRES`** `c`**`!`**

[3] **`CLR:ERAPDATA:MRNUM`** `d`**`!`**

[4] **`CLR:ERAPDATA RAW!`**

3. EXPLANATION OF MESSAGE

`a` The name of an error analysis record type or file type. See list given with input message `OP:ERAPDATA`.

`b` Maintenance file number(s) of files to be considered.

`c` The results (consisting of file numbers) of one or more searches previously conducted in response to an `OP:ERAPSRES` input message.

`d` Maintenance record number(s) of records to be cleared individually.

NOTE: If `a` is omitted, all records in the files specified by **`MFNUM`** `b` or **`SRES`** `c` are cleared.

SEE PROPRIETARY NOTICE ON COVER PAGE

4. SYSTEM RESPONSE

`?D,MISS DATA`	Data field contains an error. Argument missing for keyword **MFNUM**, **SRES**, or **MPNUM**. More than one of the keywords **MFNUM**, **SRES**, **MRNUM** used (invalid case).
`?I,INV DATA`	Identification field contains an error. **ERAPDATA** has too many arguments (maximum of 10 allowed).
`?I,INC KW`	Identification field contains an error. Invalid case of keyword **MRNUM** combined with argument of **ERAPDATA**.
`PF`	Printout Follows. Followed by a `CLR:ERAPDATA` output message.
`RL`	Retry Later. Too many ERAP messages waiting to be processed.

5. REFERENCES

PIDENTs
ERAP
ERIF

Practice 254-200-215, *Error Analysis Program Application*
Practice 254-280-320, *Error Analysis Program*

PA-4A002-01, *4ESS™ User's Manual*

Input Messages
`OP:ERAPDATA`
`OP:ERAPSRES`
`OP:ERAPSUM`
`UPD:ERAP`

Output Message
`CLR:ERAPDATA`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . CLR:ERAPSRES
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

This message is used to delete error analysis search results (SRES) sets from disk storage.

Format [1] is used to delete the indicated search result set(s).
Format [2] is used to unconditionally clear the indicated search result set(s).
Format [3] is used to unconditionally clear all stored search results.

2. FORMAT

[1] **CLR:ERAPSRES** a**!**

[2] **CLR:ERAPSRES** a**;UCL!**

[3] **CLR:ERAPSRES;UCL!**

3. EXPLANATION OF MESSAGE

a — Decimal number(s) of search result set(s) to be cleared. See output message OP:ERAPSRES.

NOTE: The user is not permitted to clear search results upon which other stored search results depend (see message OP:ERAPSRES) unless the other search results are cleared first. The action option unconditional (**UCL**) is used to override this restriction.

4. SYSTEM RESPONSE

?I,INC DATA	Identification field contains an error. See explanation of message note.
?I,MISS KW	Identification field contains an error. Invalid case of no argument a of **ERAPSRES** and keyword **UCL** absent.
PF	Printout Follows. Followed by a CLR:ERAPSRES output message.
RL	Retry Later. Too many error analysis program (ERAP) messages waiting to be processed.

5. REFERENCES

PIDENTs
ERAP
ERIF

SEE PROPRIETARY NOTICE ON COVER PAGE

Practice 254-200-215, *Error Analysis Program Application*
Practice 254-280-320, *Error Analysis Program*

Input Message
`OP:ERAPSRES`

Output Messages
`CLR:ERAPSRES`
`OP:ERAPSRES`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . CLR:FNS
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Clears the fan air filter error from the fan system (FNS) error stack. After a fan air filter error is reported and the air filter is replaced in the frame, the **CLR:FNS** command must be issued so the air filter error does not continue to be re-reported.

2. FORMAT

CLR:FNS a;**FILTER!**

3. EXPLANATION OF MESSAGE

a	A 1-digit decimal number specifying the **FNS** error stack to be cleared of the fan air filter error (0 or 1).

4. SYSTEM RESPONSE

?E	Syntax Error exists in the message but cannot be resolved to the proper field.
?I	Identification field contains an error. Invalid **FNS** specified. Must be 0 or 1. Missing argument in input message: **FILTER** keyword not specified.
PF	Printout Follows. Output message follows.
RL	Retry Later. The request could not be honored due to a temporary lack of system resources.

5. REFERENCES

PIDENTs
FNFRBASE
MCCMEPS1

Input Messages
ALW:FNS
INH:FNS
TEST:FNS

Output Messages
ALW:FNS
CLR:FNS
REPT:FAN-ST
TEST:FNS

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . CLR:IAOFC
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E20 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

This message submits a request to clear the office call irregularity traps which are queued to be printed.

2. FORMAT

`CLR:IAOFC!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`OK`	Good. The request had been performed.

5. REFERENCES

PIDENT
TMAD0006

Input Messages
`MON:IAOFC`
`MON:IAOFCNT`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . CLR:IDUMP
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Clears a generic utility 'dump on interrupt' request. This is the only message that can be used to clear the function of the `DUMP:CC`, `DUMP:CS`, `DUMP:CSS`, `DUMP:PSS`, `DUMP:REG`, `DUMP:TAPE`, and `DUMP:UMEM`. input messages from the system.

2. FORMAT

`CLR:IDUMP!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`?R,DPLX FAIL`	Insufficient system Resources are available to determine the validity of the message. Generic utility program (GULP) cannot be paged to parse the message because the file system is duplex failed.
`OK`	Good. Function completed.
`PF,CODE 050`	Printout will conditionally follow. This acknowledgement is used if file system is duplex failed and GULP is being paged from tape.
`RL,CODE 180`	Retry Later. Execution of GULP function is in progress.
`RL,CODE 181`	Retry Later. Message processing is in progress.
`RL,CODE 182`	Retry Later. Data set input mode is in progress on another channel.
`RL,CODE 183`	Retry Later. Data set execution is in progress.
`RL,CODE 185`	Retry Later. No general buffer table (GBT) available or GULP cannot be paged.

5. REFERENCES

PIDENTs
GULPUTPP
GULRUTCR

Practice 234-301-003, *1B Processor Generic Utility Program (GULP) Application - Description*

PA-4A002-01, *4ESS™ User's Manual*, Generic Utility Section

SEE PROPRIETARY NOTICE ON COVER PAGE

Input Message

```
DUMP:CC
DUMP:CS
DUMP:CSS
DUMP:PSS
DUMP:REG
DUMP:TAPE
DUMP:UMEM
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . CLR:IFBECTRS
WORK CENTER . . MOC
GENERIC . . . . . 4E24 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Clears error counters in the Interface Bus (IFB) subsystem. Without an argument(s), the command will clear all IFB subsystem error counters. With an argument(s) specified, the error counter of the named client(s) will be cleared.

2. FORMAT

`CLR:IFBECTRS``[:a|:a[,a...]]!`

3. EXPLANATION OF MESSAGE

`a` Identifies the IFB client(s) in which error counters will be cleared. If left blank or if the IFB is input, the error counters of the entire IFB subsystem will be cleared. Valid input(s) are:

`AUI` — Auxiliary unit interface.

`IFB` — Interface bus.

`MUP` — Master control complex and utility processor.

`SSD` — Scan and signal distributor.

4. SYSTEM RESPONSE

`?D,INV KW` Data field contains an error. An invalid client was specified for **`CLR:IFBECTRS`**.

`?I,INV KW` Identification field contains an error. An invalid identification field was specified for **`CLR:IFBECTRS`**.

`OK` Good. Error counter(s) cleared.

`RL` Retry Later. Maintenance Control Program (MACP) job queue is busy.

5. REFERENCES

PIDENT
IFFRBASE

SEE PROPRIETARY NOTICE ON COVER PAGE

WARNING
INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

ID . . . . . CLR:MACLI
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

WARNING
The `GBT` option should only be used when directed by technical support as a last resort in resolving MACLI problems.

1. PURPOSE

Gives an active client in the specified class an entry to its abort routine. For example, a client in a wait state that is waiting for a tape operation, a teletypewriter (TTY) message return, or doing timing will have its wait flag reset and will be given an entry to its abort routine. It also clears the job request queue.

2. FORMAT

`CLR:MACLI,CLASS` `a!`

3. EXPLANATION OF MESSAGE

`a` Class selection:

- `ADMN` — Administration class.
- `GBT` — General buffer tables. GBT's are a memory administration center (MAC) resource necessary for initiating MAC jobs. This option will clear and release all GBT's to allow resumption of MAC job scheduling when the MAC system is blocking the scheduling of new jobs.
- `GUTL` — Generic utility class.
- `LIBU` — Library class.
- `MTCE` — Maintenance class.

4. SYSTEM RESPONSE

`OK` Good. Request accepted and completed.

5. REFERENCES

PIDENT
MACPROUT

Practice 254-280-210, *Maintenance Control Program*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . CLR:MSGRCD
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Clears the last set of output messages recorded on disk during a phase so that new messages can be saved if another phase occurs.

2. FORMAT

`CLR:MSGRCD,FS!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`OK`	Good. The disk message area has been cleared.
`RL`	Retry Later. A message retrieval is in progress and the clear request cannot be honored. See the `STOP:OP-MSGRCD` input message to stop the retrieval.

5. REFERENCES

PIDENT
IOCPMSR1

Input Message
`STOP:OP-MSGRCD`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . CLR:RCB
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . RC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Clears the recent change buffer of all messages in the buffered state.

2. FORMAT

`CLR:RCB!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`PF`	Printout Follows. Followed by a `CLR:RCB` output message listing order numbers of canceled buffered messages or an error message.

5. REFERENCES

PIDENT
RCMAMAIN

Translation Guide, 4ESS™, TG-4

Output Message
`CLR:RCB`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . CLR:SAWSLOCK
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Clears lockout of the system audit of writable stores (SAWS) caused by manual input message `SET:SAWSLOCK`.

`SET:SAWSLOCK` locks out certain disk ID tags from being audited. `SET:SAWSLOCK` is designed to be used during attached processor system (APS) updates. **`CLR:SAWSLOCK`** releases the lockout of the disk ID tags.

2. FORMAT

`CLR:SAWSLOCK!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`OK`	Good. Request completed.

5. REFERENCES

PIDENT
SAWSSUBR

Input Message
`SET:SAWSLOCK`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . CLR:SDYGRP
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Removes all trunk subgroups (TSGs) that have been assigned to the international trunk subgroup study exclusion list; inhibits the list before removing the trunk subgroups. This applies to tape recording of international call detailed recording (ICDR) calls only.

2. FORMAT

`CLR:SDYGRP!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`OK`	Good. All trunk subgroups have been removed from the list.
`NG`	No Good. Tape recording of ICDR calls inhibited.

5. REFERENCES

PIDENT
ICDRPRGM

Input Messages
`ALW:SDYGRP`
`IN:SDYGRP`
`INH:SDYGRP`
`OP:SDYGRP`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . CLR:TASP
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Initializes the user files in the tape administration system (TAS). **CLR:TASP** must be used after a Phase 4 has been run. The message is also used if the TAS has lost sanity.

2. FORMAT

CLR:TASP!

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

PF	Printout Follows. For each user, a message will follow which states that the user function has been aborted.

5. REFERENCES

PIDENT
TASPUSER

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . CLR:TLPQUEUE
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Requests the removal of a trouble location procedure (TLP) disk queue file from the TLP disk queue.

The data printed in response to this input message lists each TLP disk queue file removed. The format is described in the `CLR:TLPQUEUE` output message.

This message will block any of the following input commands until the removal is complete: `OP:TLPQUEUE`, `CLR:TLPQUEUE` and `ALW:TLP:SRCH`.

2. FORMAT

`CLR:TLPQUEUE;``{`**`ALL|TLPFILE`** `a}`**`!`**

3. EXPLANATION OF MESSAGE

`ALL`	Every TLP disk queue file will be removed from the TLP disk queue.
`a`	The number of the disk queue file which will be removed from the TLP disk queue.

4. SYSTEM RESPONSE

`PF`	Printout Follows. The request is accepted. A `CLR:TLPQUEUE` output message will follow to verify which TLP disk queue files have been removed.
`RL`	Retry Later. A previous `OP:TLPQUEUE`, `CLR:TLPQUEUE` or `ALW:TLP:SRCH` input command has not yet been completed.

5. REFERENCES

PIDENTs
DRPPASUB
DRPSUPR

Practice 234-280-230, *Trouble Location Procedure Programs - Description*

PA-4A002-01, *4ESS™ User's Manual*

SEE PROPRIETARY NOTICE ON COVER PAGE

Input Messages

```
ALW:TLP
ANALY:TLPFILE
CLR:TLPQUEUE
OP:TLPQUEUE
```

Output Message

```
CLR:TLPQUEUE
```

SEE PROPRIETARY NOTICE ON COVER PAGE

WARNING
INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

ID . . . . . CLR:TRKSTAT
WORK CENTER . . MOC, TEC, TOC
GENERIC . . . . . 4E22 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

WARNING
The BLK**,** HWT **and** HAW **restrictions and the** TCA **category. SHOULD BE USED ONLY UNDER THE DIRECTION OF NATIONAL ELECTRONIC SWITCHING ASSISTANCE CENTER (NESAC) PERSONNEL.** The BLK **restriction is to be used ONLY when the far end trunk state is ACTIVE (does not indicate any reason for the** BLK **at the near end) and the near end state is BLOCKED.**

1. PURPOSE

Allows restrictions to be cleared from the trunk(s) specified. The Total Signal Failure (TSF) restriction is designed to be used as part of the Common Channel Interoffice Signaling (CCIS) to Integrated Services Digital Network (ISDN) User Part (ISUP) conversion process.

2. FORMAT

CLR:TRKSTAT,{**OTAN** a|**TAN** b|**CIN** c|**TSN** d|**TCA** e}[:{**TSG**|**NUM** f}],**STAT** g**!**

3. EXPLANATION OF MESSAGE

a — Octal Trunk Appearance Number (OTAN).

b — Decimal Trunk Appearance Number (TAN).

c — Circuit Identification Number (CIN).

d — Trunk Scanner Number (TSN).

e — Test Control Area (TCA) number.

f — Decimal number 1-4095 representing the number of consecutive TANs, TSNs, or Traffic Numbers (TFNs) starting with the input trunk.

g — Restriction to be removed:

BLK — Blocked.

HAW — High and wet list.

HWT — High and wet timing.

TSF — Total signaling failure outage reason (trunks must be CAD.DSA and Integrated Services Digital Network [ISDN] User Part [ISUP] Common Channel Signaling Version 7 [CCS7]).

SEE PROPRIETARY NOTICE ON COVER PAGE

4. SYSTEM RESPONSE

?D	Data field contains an error.
PF	Printout Follows. Request is being processed.
RL	Retry Later.

5. REFERENCES

PIDENTs
TMAD0005
TMAD0006

SEE PROPRIETARY NOTICE ON COVER PAGE

WARNING
INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

ID . . . . . CLR:TSIBP
WORK CENTER . . MOC
GENERIC . . . . . 4E24 Rel. 2 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

WARNING
Because this message changes the memory or uses critical resources of the hardware unit, this message should only be used when directed by technical support.

1. PURPOSE

This command clears all breakpoints from a Expanded Time Slot Interchange (**XTSI**) frame, or from the frame controllers only, or from a Digital Signal Level 3 Unit (**D3U**) only, Signal Processing Unit (**SPU**) only, or In-Band Unit (**IBU**) only.

Format [1] is used to clear all breakpoints in a simplex **XTSI** controller or duplex **XTSI** controllers.

Format [2] is used to clear all breakpoints in a **D3U**.

Format [3] is used to clear all breakpoints in a **SPU**.

Format [4] is used to clear all breakpoints in a **IBU**.

Format [5] is used to clear all breakpoints in an **XTSI** frame (controllers, **D3U** and **SPU**s).

2. FORMAT

[1] **CLR:TSIBP;XTSI** a!

[2] **CLR:TSIBP;XTSI** a,**D3U** b!

[3] **CLR:TSIBP;XTSI** a,**SPU** c!

[4] **CLR:TSIBP;XTSI** a,**IBU 0**!

[5] **CLR:TSIBP;XTSI** a:**ALL**!

3. EXPLANATION OF MESSAGE

a	**XTSI** member number in decimal (0-63). Only even numbered **XTSI** member numbers are allowed.
b	**D3U** number in decimal (0-7).
c	**SPU** number in decimal (0-11).
ALL	Clear all breakpoints in the specified frame.

SEE PROPRIETARY NOTICE ON COVER PAGE

4. SYSTEM RESPONSE

`PF`	Printout Follows. The breakpoints will be cleared in the specified unit(s). A `CLR:TSIBP` output message follows indicating the results of the request.

5. REFERENCES

PIDENT
XTSIBKPT

Input Message
`OP:TSIBP`
`SET:TSIBP`

Output Message
`CLR:TSIBP`
`OP:TSIBP`
`REPT:TSIBP`
`SET:TSIBP`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . CLR:UTIL
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Erases all generic utility flags. Utility execute orders will be replaced by the original instruction. Utility system matchers will be disabled and released.

NOTE: A `CLR:UTIL` message will not be able to clear utility system matchers on G-Level execution because too much time is required.

NOTE: A `CLR:UTIL` message will also clear any DUMP on interrupts. See the DUMP: messages with the On Condition (OC) option.

2. FORMAT

`CLR:UTIL!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`?R,DPLX FAIL`	Insufficient system Resources are available to determine the validity of the message. Generic Utility Program (GULP) cannot be paged to parse the message because the file system is duplex failed.
`PF,CODE 050`	Printout will conditionally follow. This acknowledgement is used if file system is duplex failed and Generic Utility Program (GULP) is being paged from tape.
`PF,CODE 091`	Printout will conditionally follow.
`RL,CODE 180`	Retry Later. Execution of GULP function is in progress.
`RL,CODE 181`	Retry Later. Message processing in progress.
`RL,CODE 182`	Retry Later. Data set input mode in progress on another channel.
`RL,CODE 183`	Retry Later. Data set execution is in progress.
`RL,CODE 185`	Retry Later. No General Buffer Table (GBT) available or GULP cannot be paged.

5. REFERENCES

PIDENT
GULRUTCR

SEE PROPRIETARY NOTICE ON COVER PAGE

Practice 234-301-003, *1B Processor Generic Utility Program (GULP) Application - Description*

PA-4A002-01, *4ESS™ User's Manual*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . CLR:UTILDS
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Clears the specified utility data set from the system. The corresponding 1B file save area is freed and the dataset name is removed from the generic utility dataset reference table.

2. FORMAT

`CLR:UTILDS` `a!`

3. EXPLANATION OF MESSAGE

`a`	Data set name (1 to 9 alphanumeric characters, the first of which must be alphabetic).

4. SYSTEM RESPONSE

`?I,CODE 002`	Identification field contains an error. No argument for **`UTILDS`**.
`?I,CODE 012`	Identification field contains an error. Specified data set name is nonexistent.
`?R,DPLX FAIL`	Insufficient system Resources are available to determine the validity of the message. Generic utility program (GULP) cannot be paged to parse the message because the file system is duplex failed.
`OK,CODE  90`	Good. Data set has been cleared.
`PF,CODE 050`	Printout will conditionally follow. This acknowledgement is used if file system is duplex failed and GULP is being paged from tape.
`RL,CODE 020`	Retry Later. File system queue full. Data set may be multilated.
`RL,CODE 180`	Retry Later. Execution of GULP function is in progress.
`RL,CODE 181`	Retry Later. Message processing in progress.
`RL,CODE 182`	Retry Later. Data set input mode in progress on another channel.
`RL,CODE 183`	Retry Later. Data set execution is in progress.
`RL,CODE 185`	Retry Later. No general buffer table (GBT) available or GULP cannot be paged.

5. REFERENCES

PIDENTs
GULPDSET
GULRUTCR

SEE PROPRIETARY NOTICE ON COVER PAGE

Practice 234-301-003, *1B Processor Generic Utility Program (GULP) Application - Description*

PA-4A002-01, *4ESS™ User's Manual*

Input Messages
```
IN:UTILDS
OP:UTILDS
OP:UTLDSTAB
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . CLR:UTILFLG
WORK CENTER . . MOC
GENERIC . . . . . 4E21 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Clears the generic utility flag located at the given address.

2. FORMAT

CLR:UTILFLG{**,ADR** a|**,XADR** b}**!**

3. EXPLANATION OF MESSAGE

a — Eight digit octal address of the generic utility flag to be cleared. Used to access non extended non-secure call store (XS) memory. Default type is octal. Address bits 1-22 that are not specified will be zero filled, but bits 23-29 will always be ones. See NOTE.

b — Ten digit octal address of the generic utility flag to be cleared. Used to access either XS or non-XS memory. Default type is octal. Upper address bits 1-29 that are not specified will be zero filled. See NOTE.

NOTE: Numbers input for **ADR** or **XADR** is assumed to be octal unless qualified by B', D' or H' - binary, decimal, or hexadecimal.

4. SYSTEM RESPONSE

?R,DPLX FAIL — Insufficient system Resources are available to determine the validity of the message. Generic utility program (GULP) cannot be paged to parse the message because the file system is duplex failed.

NG,CODE 032 — No Good. It is invalid to clear utility system matchers on G-Level execution because too much time is required.

NG,CODE 126 — No Good. A generic utility flag does not exist at the input address.

PF,CODE 050 — Printout will conditionally follow. This acknowledgement is used if file system is duplex failed and GULP is being paged from tape.

PF,CODE 091 — Printout will conditionally follow.

RL,CODE 180 — Retry Later. Execution of GULP function is in progress.

RL,CODE 181 — Retry Later. Message processing in progress.

RL,CODE 182 — Retry Later. Data set input mode in progress on another channel.

RL,CODE 183 — Retry Later. Data set execution is in progress.

RL,CODE 185 — Retry Later. No general buffer table (GBT) available or GULP cannot be paged.

SEE PROPRIETARY NOTICE ON COVER PAGE

5. REFERENCES

PIDENT
GULRUTCR

Input Message
WHEN:ADR
WHEN:XADR

SEE PROPRIETARY NOTICE ON COVER PAGE

ID COPY:A1B
WORK CENTER . . MOC
GENERIC . . . . . 4E22 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Copies the data at designated locations of main memory to the specified destination in main memory or File System (FS). This function may be performed on base level (Format [1]) or if included as part of a utility flag (see `WHEN:[X]ADR`), may be performed on G-level (Format [2]). Be aware that operations involving file system cannot be performed on G-level interrupt. If a mask is specified in the source, only the corresponding data will be fetched; a mask specified in the destination will cause only the corresponding bits to be changed. If the function appears after a `WHEN` clause (Format [2]), the maximum number of locations will be 128; for the base level execution (Format [1]), the maximum is 131,072 (128 BINKS).

Format [1] is used to perform copy on base level.
Format [2] is used to perform copy on G-level if included as part of a utility flag.

2. FORMAT

[1]
```
COPY:A1B,{[INDIR a,|XSINDIR b,ID c,]{ADR d|XADR e}
|INDIR a,UMEM f}
[,INC g]
[,SIZE h,DISP i]
[,L j]
;
{{A1B|CS|CSS|PSS|XS},
{[INDIR a,|XSINDIR b,ID c,]{ADR d|XADR e}
|INDIR a,UMEM f}
[,INC g]
[,SIZE h,DISP i]}
|UMEM f
|FS,ID k,ADR l[,INC g]!
```

[2]
```
COPY:A1B,{[INDIR a,|XSINDIR b[,ID c],]{ADR d|XADR e}
|INDIR a,UMEM f
|INDIR a,mREG|XSINDIR b,mREG}
[,INC g]
[,SIZE h,DISP i]
[,L n]
;
{{A1B|CS|CSS|PSS|XS},
{[INDIR a,|XSINDIR b[,ID c],]{ADR d|XADR e}
|INDIR a,UMEM f
|INDIR a,mREG|XSINDIR b,mREG}
[,INC g]
```

SEE PROPRIETARY NOTICE ON COVER PAGE

```
[,SIZE h,DISP i]}
|UMEM f!
```

3. EXPLANATION OF MESSAGE

A1B	Any 1B core memory.
a	Number of levels of indirect addressing (0 - 7). Default value is 0.
b	Number of levels of indirect addressing (0 - 2). Default value is 0. See NOTES 1 and 2.
c	File system ID tag. (Must be in file segments 1 through 3 since this is used for extended memory access.)
d	Eight digit octal address. Address bits that are not specified will be zero filled but bits 23-29, Transition Address Register (TAR), will always be set to ones.
e	Ten digit address. Upper bits that are not specified will be zero filled. Default type is octal.
f	Utility scratch memory indicator number (0-7).
g	Address increment number (-17777 - +17777) added to address after all levels of indirectness have been calculated. Default type is octal. Default value is 0.
h	Mask specification. Size of mask (1 - 24). Default type is decimal. Default value is 24.
i	Displacement of mask (0 - 23). Default type is decimal. Default value is 0.
j	Number of locations (1 - 131,072) to be copied on base level. Default type is decimal. Default value is 1.
CS	Nonsecure call store.
CSS	Call store secure.
PSS	Program store secure.
XS	Extended nonsecure call store.
k	One of following file system ID mnemonics:

- FREE0 — Unassigned space in file system segment 0.
- FREE1 — Unassigned space in file system segment 1.
- FREE2 — Unassigned space in file system segment 2.
- FREE3 — Unassigned space in file system segment 3.
- GEN — Generic.
- HIST — Trouble history.

SEE PROPRIETARY NOTICE ON COVER PAGE

LIB — Library program.

MERGE — Merge structures (maps, hash sums).

NWM — Network management.

PGPGM — Paged program.

ODA — Office Data Assembler (ODA) data for file segment 0.

ODA1 — ODA data for file segment 1.

ODA2 — ODA data for file segment 2.

ODA3 — ODA data for file segment 3.

OSDATA — On site data.

RCRB — Recent change rollback.

TKMTC — Trunk maintenance.

TPM — Traffic measurement.

TRANS — File system transient data.

TRANS2 — ODA data in store segment 2.

TRANS3 — ODA data in store segment 3.

l — 1B file system address. Default type octal.

m — Central Control (CC) register mnemonics: B, F, G, J, K, L, X, Y, Z.

n — Number of locations to be copied on G level (1 - 128). Default type is decimal. Default value is 1.

NOTE 1: **XSINDIR** NUM,**ID** TAG,[X]**ADR** NUM input (Base and G-Level):
The contents of the specified address will be used as the disk offset along with the ID tag to determine the extended store address.

NOTE 2: [**XSINDIR** NUM,x**REG**] or [**XSINDIR** NUM,[X]**ADR** NUM] input (G-Level only):
The contents of the register or address specified MUST be a window address. The window for this window address must have been previously enabled in order to access the extended store address.

4. SYSTEM RESPONSE

?I,CODE 031 — Identification field contains an error. Utility Scratch Memory (UMEM) indicator number specified is not 0, 1, 2, 3, 4, 5, 6, or 7.

?I,CODE 035 — Identification field contains an error. Number of words to be dumped exceeds maximum allowed.

?I,CODE 043 — Identification field contains an error. Address increment exceeds 0’17777.

?I,CODE 044 — Identification field contains an error. Mask specified by **SIZE** and **DISP** is invalid (**SIZE** + **DISP**>D’24 is invalid).

SEE PROPRIETARY NOTICE ON COVER PAGE

`?I,CODE 118`	Identification field contains an error. Keyword **`ADR`** is invalid for accessing extended store.
`?I,CODE 119`	Identification field contains an error. Keyword **`INDIR`** is invalid for accessing extended store.
`?R,DPLX FAIL`	Insufficient system Resources are available to determine the validity of the message. Generic Utility Program (GULP) cannot be paged to parse the message because the file system is duplex failed.
`NG,CODE 036`	No Good. Request using file system follows a `WHEN` clause.
`NG,CODE 125`	No Good. Invalid **`ID`** tag for accessing extended store.
`NG,CODE 188`	No Good. Address specified is not equipped.
`PF,CODE 091`	Printout will conditionally follow.
`RL,CODE 180`	Retry Later. Execution of GULP function is in progress.
`RL,CODE 181`	Retry Later. Message processing in progress.
`RL,CODE 182`	Retry Later. Data set input mode in progress on another channel.
`RL,CODE 183`	Retry Later. Data set execution is in progress.
`RL,CODE 185`	Retry Later. No General Buffer Table (GBT) available or GULP cannot be paged.

5. REFERENCES

PIDENTs
- GULPIMDT
- GULPUTPP
- GULPUTXP
- GULRUTCR

Input Messages
- `WHEN:ADR`
- `WHEN:XADR`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . COPY:CS
WORK CENTER . . MOC
GENERIC . . . . . 4E22 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Copies the data at designated locations of main memory to the specified destination in main memory or File System (FS). This function may be performed on base level (Format [1]) or if included as part of a utility flag (see `WHEN:[X]ADR`), may be performed on G-level (Format [2]). Be aware that operations involving file system cannot be performed on G-level interrupt. If a mask is specified in the source, only the corresponding data will be fetched; a mask specified in the destination will cause only the corresponding bits to be changed. If the function appears after a `WHEN` clause (Format [2]), the maximum number of locations will be 128; for the base level execution (Format [1]), the maximum is 131,072 (128 BINKS).

Format [1] is used to perform copy on base level.
Format [2] is used to perform copy on G-level if included as part of a utility flag.

2. FORMAT

[1]
```
COPY:CS,{[INDIR a,]{ADR b|XADR c}
|INDIR a,UMEM d}
[,INC e]
[,SIZE f,DISP g]
[,L h]
;
{{A1B|CS|CSS|PSS|XS},
{[INDIR a,|XSINDIR i,ID j,]{ADR b|XADR c}
|INDIR a,UMEM d}
[,INC e]
[,SIZE f,DISP g]}
|UMEM d
|FS,ID k,ADR l[,INC e]!
```

[2]
```
COPY:CS,{[INDIR a,]{ADR b|XADR c}
|INDIR a,UMEM d
|INDIR a,mREG}
[,INC e]
[,SIZE f,DISP g]
[,L n]
;
{{A1B|CS|CSS|PSS|XS},
{[INDIR a,|XSINDIR i[,ID j],]{ADR b|XADR c}
|INDIR a,UMEM d
|INDIR a,mREG|XSINDIR i,mREG}
[,INC e]
```

SEE PROPRIETARY NOTICE ON COVER PAGE

```
[,SIZE f,DISP g]}
|UMEM d!
```

3. EXPLANATION OF MESSAGE

CS	Nonsecure call store.
a	Number of levels of indirect addressing (0 - 7). Default value is 0.
b	Eight digit octal address. Address bits that are not specified will be zero filled but bits 23-29, Transition Address Register (TAR), will always be set to ones.
c	Ten digit address. Upper bits that are not specified will be zero filled. Default type is octal.
d	Utility scratch memory indicator number (0-7).
e	Address increment number (-17777 - +17777) added to address after all levels of indirectness have been calculated. Default type is octal. Default value is 0.
f	Mask specification. Size of mask (1 - 24). Default type is decimal. Default value is 24.
g	Displacement of mask (0 - 23). Default type is decimal. Default value is 0.
h	Number of locations (1 - 131,072) to be copied on base level. Default type is decimal. Default value is 1.
A1B	Any 1B core memory.
CSS	Call store secure.
PSS	Program store secure.
XS	Extended nonsecure call store.
i	Number of levels of indirect addressing (0 - 2). Default value is 0. See NOTES 1 and 2.
j	File system ID tag. (Must be in file segments 1 through 3 since this is used for extended memory access.)
k	One of following file system ID mnemonics:

- FREE0 — Unassigned space in file system segment 0.
- FREE1 — Unassigned space in file system segment 1.
- FREE2 — Unassigned space in file system segment 2.
- FREE3 — Unassigned space in file system segment 3.
- GEN — Generic.
- HIST — Trouble history.

SEE PROPRIETARY NOTICE ON COVER PAGE

LIB	— Library program.
MERGE	— Merge structures (maps, hash sums).
NWM	— Network management.
PGPGM	— Paged program.
ODA	— Office Data Assembler (ODA) data for file segment 0.
ODA1	— ODA data for file segment 1.
ODA2	— ODA data for file segment 2.
ODA3	— ODA data for file segment 3.
OSDATA	— On site data.
RCRB	— Recent change rollback.
TKMTC	— Trunk maintenance.
TPM	— Traffic measurement.
TRANS	— File system transient data.
TRANS2	— ODA data in store segment 2.
TRANS3	— ODA data in store segment 3.

`l` 1B file system address. Default type octal.

`m` Central Control (CC) register mnemonics: B, F, G, J, K, L, X, Y, Z.

`n` Number of locations to be copied on G level (1 - 128). Default type is decimal. Default value is 1.

NOTE 1: **XSINDIR** NUM,**ID** TAG,[X]**ADR** NUM input (Base and G-Level):
The contents of the specified address will be used as the disk offset along with the ID tag to determine the extended store address.

NOTE 2: [**XSINDIR** NUM,x**REG**] or [**XSINDIR** NUM,[X]**ADR** NUM] input (G-Level only):
The contents of the register or address specified MUST be a window address. The window for this window address must have been previously enabled in order to access the extended store address.

4. SYSTEM RESPONSE

?I,CODE 031	Identification field contains an error. Utility Scratch Memory (UMEM) indicator number specified is not 0, 1, 2, 3, 4, 5, 6, or 7.
?I,CODE 035	Identification field contains an error. Number of words to be dumped exceeds maximum allowed.
?I,CODE 043	Identification field contains an error. Address increment exceeds 0'17777.
?I,CODE 044	Identification field contains an error. Mask specified by **SIZE** and **DISP** is invalid (**SIZE** + **DISP**>D'24 is invalid).

SEE PROPRIETARY NOTICE ON COVER PAGE

`?I,CODE 118`	Identification field contains an error. Keyword **`ADR`** is invalid for accessing extended store.
`?I,CODE 119`	Identification field contains an error. Keyword **`INDIR`** is invalid for accessing extended store.
`?R,DPLX FAIL`	Insufficient system Resources are available to determine the validity of the message. Generic Utility Program (GULP) cannot be paged to parse the message because the file system is duplex failed.
`NG,CODE 036`	No Good. Request using file system follows a `WHEN` clause.
`NG,CODE 125`	No Good. Invalid **`ID`** tag for accessing extended store.
`NG,CODE 188`	No Good. Address specified is not equipped.
`PF,CODE 091`	Printout will conditionally follow.
`RL,CODE 180`	Retry Later. Execution of GULP function is in progress.
`RL,CODE 181`	Retry Later. Message processing in progress.
`RL,CODE 182`	Retry Later. Data set input mode in progress on another channel.
`RL,CODE 183`	Retry Later. Data set execution is in progress.
`RL,CODE 185`	Retry Later. No General Buffer Table (GBT) available or GULP cannot be paged.

5. REFERENCES

PIDENTs
- GULPIMDT
- GULPUTPP
- GULPUTXP
- GULRUTCR

Input Messages
- `WHEN:ADR`
- `WHEN:XADR`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . COPY:CSS
WORK CENTER . . MOC
GENERIC . . . . . 4E22 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Copies the data at designated locations of main memory to the specified destination in main memory or File System (FS). This function may be performed on base level (Format [1]) or if included as part of a utility flag (see `WHEN:[X]ADR`), may be performed on G-level (Format [2]). Be aware that operations involving file system cannot be performed on G-level interrupt. If a mask is specified in the source, only the corresponding data will be fetched; a mask specified in the destination will cause only the corresponding bits to be changed. If the function appears after a `WHEN` clause (Format [2]), the maximum number of locations will be 128; for the base level execution (Format [1]), the maximum is 131,072 (128 BINKS).

Format [1] is used to perform copy on base level.
Format [2] is used to perform copy on G-level if included as part of a utility flag.

2. FORMAT

[1]
```
COPY:CSS,{[INDIR a,]{ADR b|XADR c}
|INDIR a,UMEM d}
[,INC e]
[,SIZE f,DISP g]
[,L h]
;
{{A1B|CS|CSS|PSS|XS},
{[INDIR a,|XSINDIR i,ID j,]{ADR b|XADR c}
|INDIR a,UMEM d}
[,INC e]
[,SIZE f,DISP g]}
|UMEM d
|FS,ID k,ADR l[,INC e]!
```

[2]
```
COPY:CSS,{[INDIR a,]{ADR b|XADR c}
|INDIR a,UMEM d
|INDIR a,mREG}
[,INC e]
[,SIZE f,DISP g]
[,L n]
;
{{A1B|CS|CSS|PSS|XS},
{[INDIR a,|XSINDIR i[,ID j],]{ADR b|XADR c}
|INDIR a,UMEM d
|INDIR a,mREG|XSINDIR i,mREG}
[,INC e]
```

SEE PROPRIETARY NOTICE ON COVER PAGE

```
[,SIZE f,DISP g]}
|UMEM d!
```

3. EXPLANATION OF MESSAGE

CSS	Call store secure.
a	Number of levels of indirect addressing (0 - 7). Default value is 0.
b	Eight digit octal address. Address bits that are not specified will be zero filled but bits 23-29, Transition Address Register (TAR), will always be set to ones.
c	Ten digit address. Upper bits that are not specified will be zero filled. Default type is octal.
d	Utility scratch memory indicator number (0-7).
e	Address increment number (-17777 - +17777) added to address after all levels of indirectness have been calculated. Default type is octal. Default value is 0.
f	Mask specification. Size of mask (1 - 24). Default type is decimal. Default value is 24.
g	Displacement of mask (0 - 23). Default type is decimal. Default value is 0.
h	Number of locations (1 - 131,072) to be copied on base level. Default type is decimal. Default value is 1.
A1B	Any 1B core memory.
CS	Nonsecure call store.
PSS	Program store secure.
XS	Extended nonsecure call store.
i	Number of levels of indirect addressing (0 - 2). Default value is 0. See NOTES 1 and 2.
j	File system ID tag. (Must be in file segments 1 through 3 since this is used for extended memory access.)
k	One of following file system ID mnemonics:

- FREE0 — Unassigned space in file system segment 0.
- FREE1 — Unassigned space in file system segment 1.
- FREE2 — Unassigned space in file system segment 2.
- FREE3 — Unassigned space in file system segment 3.
- GEN — Generic.
- HIST — Trouble history.

SEE PROPRIETARY NOTICE ON COVER PAGE

	LIB	— Library program.
	MERGE	— Merge structures (maps, hash sums).
	NWM	— Network management.
	PGPGM	— Paged program.
	ODA	— Office Data Assembler (ODA) data for file segment 0.
	ODA1	— ODA data for file segment 1.
	ODA2	— ODA data for file segment 2.
	ODA3	— ODA data for file segment 3.
	OSDATA	— On site data.
	RCRB	— Recent change rollback.
	TKMTC	— Trunk maintenance.
	TPM	— Traffic measurement.
	TRANS	— File system transient data.
	TRANS2	— ODA data in store segment 2.
	TRANS3	— ODA data in store segment 3.
l	1B file system address. Default type octal.	
m	Central Control (CC) register mnemonics: B, F, G, J, K, L, X, Y, Z.	
n	Number of locations to be copied on G level (1 - 128). Default type is decimal. Default value is 1.	

NOTE 1: **XSINDIR** NUM,**ID** TAG,[X]**ADR** NUM input (Base and G-Level):
The contents of the specified address will be used as the disk offset along with the ID tag to determine the extended store address.

NOTE 2: [**XSINDIR** NUM,x**REG**] or [**XSINDIR** NUM,[X]**ADR** NUM] input (G-Level only):
The contents of the register or address specified MUST be a window address. The window for this window address must have been previously enabled in order to access the extended store address.

4. SYSTEM RESPONSE

?I,CODE 031	Identification field contains an error. Utility Scratch Memory (UMEM) indicator number specified is not 0, 1, 2, 3, 4, 5, 6, or 7.
?I,CODE 035	Identification field contains an error. Number of words to be dumped exceeds maximum allowed.
?I,CODE 043	Identification field contains an error. Address increment exceeds 0'17777.
?I,CODE 044	Identification field contains an error. Mask specified by **SIZE** and **DISP** is invalid (**SIZE** + **DISP**>D'24 is invalid).

SEE PROPRIETARY NOTICE ON COVER PAGE

`?I,CODE 118`	Identification field contains an error. Keyword **`ADR`** is invalid for accessing extended store.
`?I,CODE 119`	Identification field contains an error. Keyword **`INDIR`** is invalid for accessing extended store.
`?R,DPLX FAIL`	Insufficient system Resources are available to determine the validity of the message. Generic Utility Program (GULP) cannot be paged to parse the message because the file system is duplex failed.
`NG,CODE 036`	No Good. Request using file system follows a `WHEN` clause.
`NG,CODE 125`	No Good. Invalid **`ID`** tag for accessing extended store.
`NG,CODE 188`	No Good. Address specified is not equipped.
`PF,CODE 091`	Printout will conditionally follow.
`RL,CODE 180`	Retry Later. Execution of GULP function is in progress.
`RL,CODE 181`	Retry Later. Message processing in progress.
`RL,CODE 182`	Retry Later. Data set input mode in progress on another channel.
`RL,CODE 183`	Retry Later. Data set execution is in progress.
`RL,CODE 185`	Retry Later. No General Buffer Table (GBT) available or GULP cannot be paged.

5. REFERENCES

PIDENTs
- GULPIMDT
- GULPUTPP
- GULPUTXP
- GULRUTCR

Input Messages
- `WHEN:ADR`
- `WHEN:XADR`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . COPY:FS
WORK CENTER . . MOC
GENERIC . . . . . 4E24 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Causes the data in designated locations of File System (**FS**) to be copied to the specified destination in main memory or file system. Be aware that operations involving file system cannot be performed on G-level interrupt; this function cannot, therefore, appear after a utility `WHEN` statement. The maximum number of locations is 131,072 (128 K).

Format [1] is used to copy file system data to main memory.
Format [2] is used to copy file system data to generic utility memory.
Format [3] is used to copy file system data to file system.

2. FORMAT

[1]
```
COPY:FS,ID a,ADR b[,INC c],L d
;
{A1B|CS|CSS|PSS|XS},
{[INDIR e,|XSINDIR f,ID a,]{ADR g|XADR h}
|INDIR e,UMEM i}
[,INC c]!
```

[2]
```
COPY:FS,ID a,ADR b[,INC c],L d
;
UMEM i!
```

[3]
```
COPY:FS,ID a,ADR b[,INC c],L d
;
FS,ID a,ADR b[,INC c]!
```

3. EXPLANATION OF MESSAGE

FS File system.

a One of the following file system ID tag mnemonics:

- `FREE0` — Unassigned space in file system segment 0.
- `FREE1` — Unassigned space in file system segment 1.
- `FREE2` — Unassigned space in file system segment 2.
- `FREE3` — Unassigned space in file system segment 3.

SEE PROPRIETARY NOTICE ON COVER PAGE

GEN — Generic.

HIST — Trouble history.

LIB — Library program.

MERGE — Merge structures (maps, hash sums).

NWM — Network management.

PGPGM — Paged program.

ODA — Office Data Assembler (ODA) data for file segment 0.

ODA1 — ODA data for file segment 1.

ODA2 — ODA data for file segment 2.

ODA3 — ODA data for file segment 3.

OSDATA — On site data.

RCRB — Recent change rollback.

TKMTC — Trunk maintenance.

TPM — Traffic measurement.

TRANS — 1B file transient data.

TRANS2 — ODA data for file segment 2.

TRANS3 — ODA data for file segment 3.

b — File system address for the associated ID tag. Default type is octal.

c — Increment number added to address after all levels of indirectness have been calculated (-17777 through +17777) Default type is octal. Default value is 0.

d — Number of locations to be copied (1-131,072). Default type is decimal. Default value is 1.

A1B — Any 1B core memory.

CS — Nonsecure call store.

CSS — Call store secure.

PSS — Program store secure.

XS — Extended nonsecure call store.

e — Number of levels of indirect addressing (1-7).

f — Number of levels of indirect addressing (0-2). Default value is 0. See NOTES 1 and 2.

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`g` Eight digit octal address. Address bits that are not specified will be zero filled but bits 23-29, Transition Address Register (TAR), will always be set to ones. Default type is octal.

`h` Ten digit address. Upper bits that are not specified will be zero filled. Default type is octal.

`i` Utility scratch memory indicator number (`0-7`).

NOTE 1: **`XSINDIR`** `NUM,`**`ID`** `TAG,[`**`X`**`]`**`ADR`** `NUM` input (Base and G-Level):
The contents of the specified address will be used as the disk offset along with the ID tag to determine the extended store address.

NOTE 2: [**`XSINDIR`** `NUM,x`**`REG`**] or [**`XSINDIR`** `NUM,[`**`X`**`]`**`ADR`** `NUM`] input (G-Level only):
The contents of the register or address specified MUST be a window address. The window for this window address must have been previously enabled in order to access the extended store address.

4. SYSTEM RESPONSE

`?I,CODE 031` Identification field contains an error. Utility Scratch Memory (**`UMEM`**) indicator number specified is not 0, 1, 2, 3, 4, 5, 6, or 7.

`?I,CODE 035` Identification field contains an error. Number of words to be dumped exceeds maximum allowed.

`?I,CODE 043` Identification field contains an error. Address increment exceeds 0'17777.

`?I,CODE 118` Identification field contains an error. Keyword **`ADR`** is invalid for accessing extended store.

`?I,CODE 119` Identification field contains an error. Keyword **`INDIR`** is invalid for accessing extended store.

`?R,DPLX FAIL` Insufficient system Resources are available to determine the validity of the message. Generic Utility Program (GULP) cannot be paged to parse the message because the file system is duplex failed.

`NG,CODE 036` No Good. Request using file system follows a `WHEN` clause.

`NG,CODE 125` No Good. Invalid **`ID`** tag for accessing extended store.

`NG,CODE 188` No Good. Address specified is not equipped.

SEE PROPRIETARY NOTICE ON COVER PAGE

PF,CODE 091	Printout will conditionally follow.
RL,CODE 180	Retry Later. Execution of GULP function is in progress.
RL,CODE 181	Retry Later. Message processing is in progress.
RL,CODE 182	Retry Later. Data set input mode is in progress on another channel.
RL,CODE 183	Retry Later. Data set execution is in progress.
RL,CODE 185	Retry Later. No General Buffer Table (GBT) available or GULP cannot be paged.

5. REFERENCES

PIDENTs
- GULPIMDT
- GULPUTPP
- GULPUTXP
- GULRUTCR

Input Messages
- COPY:CS
- COPY:CSS
- COPY:FS
- COPY:OWBUF
- COPY:PSS
- DUMP:CC
- DUMP:CS
- DUMP:CSS
- DUMP:FS
- DUMP:PSS
- DUMP:REG
- DUMP:UMEM

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . COPY:OWBUF
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Places previously input overwrites (`IN:OWBUF`) into the system in the test mode and locks out any client that may alter hashed data or hash sums (e.g., recent change, traffic measurements, tape writing program).

This message is part of the permanent overwrite procedure. Core overwrites are written into core only, but not on the 1B file. 1B file only overwrites are written on the 1B file. In neither case are hash sums updated. Old data is preserved for possible backout.

The lockout remains in effect until the overwrite is made permanent (see `UPD:HDATA`) or backed out (see `STOP:OVRWRT`).

2. FORMAT

`COPY:OWBUF``[;`**`HASHSUM`** `a]`**`!`**

3. EXPLANATION OF MESSAGE

`a` Previously computed hash sum over overwrite buffer. If the **`HASHSUM`** option is specified, the overwrite buffer is hashed prior to changing any memory. If the computed hash does not match the input hash sum, an error indication will result and no overwrites will be made. The process must be terminated with `STOP:OVRWRT!` input message

4. SYSTEM RESPONSE

`?D,CODE 108` Data field contains an error. No argument input for keyword **`HASHSUM`**.

`?R,DPLX FAIL` Insufficient system Resources are available to determine the validity of the message. GULP cannot be paged to parse the message because the file system is duplex failed.

`NG,CODE 132` No Good. Previously input **`COPY:OWBUF`** request has not yet terminated cleanly. Enter a `STOP:OVRWRT` input message.

`NG,CODE 133` No Good. Hash mismatch on previous **`COPY:OWBUF`** input message. Enter a `STOP:OVRWRT` input message.

`NG,CODE 134` No Good. Previously input `UPD:HDATA` request has not yet terminated cleanly (see `AUD:GEN` input message). Enter a `STOP:OVRWRT` input message. Be prepared to run system audit of stores using tape (SAST) if hash sums have been mutilated.

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NG,CODE 135	No Good. No overwrite in progress.
NG,CODE 152	No Good. Hash-sum input on **COPY:OWBUF** does not match computed hash. This indicates that some data is different in the buffer than what was expected when input hash was generated. Enter a STOP:OVRWRT input message and check the print out.
NG,CODE 160	No Good. File system queue is full.
NG,CODE 161	No Good. 1B file system reject - core address is out of range. This may indicate mutilation. Run system audit of writable stores (SAWS) or SAST (see AUD:GEN input message).
NG,CODE 162	No Good. 1B file system reject - file system address mismatches ID tag. Run SAWS or SAST (see AUD:GEN input message).
NG,CODE 163	No Good. 1B file system reject - write request not multiple of 32 or not on sector boundary. Run SAWS or SAST (see AUD:GEN input message).
NG,CODE 164	No Good. 1B file system reject - size too big. Run SAWS or SAST (see AUD:GEN input message).
NG,CODE 165	No Good. 1B file system reject - file specified is out of service. Run SAWS or SAST (see AUD:GEN input message).
NG,CODE 166	No Good. 1B file system reject - blocked. Run SAWS or SAST (see AUD:GEN input message).
NG,CODE 167	No Good. 1B file system reject - write trouble to file. Run SAWS or SAST (see AUD:GEN input message).
NG,CODE 168	No Good. 1B file system reject - queue invalid for GULP. Run SAWS or SAST (see AUD:GEN input message).
NG,CODE 169	No Good. 1B file system reject - mutilated queue. Reenter. If repeated, run SAWS or SAST (see AUD:GEN input message).
NG,CODE 170	No Good. 1B file system reject - no queue specified. Run SAWS or SAST (see AUD:GEN input message).
PF	Printout Follows.
PF,CODE 050	Printout will conditionally follow. This acknowledgement is used if file system is duplex failed and generic utility program (GULP) is being paged from tape.
RL,CODE 130	Retry Later. Other hash sum dependent clients are in progress. Examples are recent change (RC), system audit of stores using tape (SAST) or tape writing program (TWRP). Wait until function completes and reenter the **COPY:OWBUF**.
RL,CODE 131	Retry Later. Overwrite in progress from another channel.
RL,CODE 180	Retry Later. Execution of GULP function is in progress.
RL,CODE 181	Retry Later. Message processing in progress.

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`RL,CODE 182`	Retry Later. Data set input mode in progress on another channel.
`RL,CODE 183`	Retry Later. Data set execution is in progress.
`RL,CODE 185`	Retry Later. No general buffer table (GBT) available or GULP cannot be paged.

5. REFERENCES

PIDENTs
GULPOWRT
GULRUTCR

Practice 234-301-003, *1B Processor Generic Utility Program (GULP) Application - Description*
Practice 254-280-260, *Audit Programs Description*

PA-4A002-01, *4ESS™ User's Manual*, Generic Utility Section

Input Messages
`AUD:GEN`
`IN:OWBUF`
`STOP:OVRWRT`
`UPD:HDATA`

Output Message
`COPY:OWBUF`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . COPY:PSS
WORK CENTER . . MOC
GENERIC . . . . . 4E22 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Copies the data at designated locations of main memory to the specified destination in main memory or File System (FS). This function may be performed on base level (Format [1]) or if included as part of a utility flag (see `WHEN:[X]ADR`), may be performed on G-level (Format [2]). Be aware that operations involving file system cannot be performed on G-level interrupt. If a mask is specified in the source, only the corresponding data will be fetched; a mask specified in the destination will cause only the corresponding bits to be changed. If the function appears after a `WHEN` clause (Format [2]), the maximum number of locations will be 128; for the base level execution (Format [1]), the maximum is 131,072 (128 BINKS).

Format [1] is used to perform copy on base level.
Format [2] is used to perform copy on G-level if included as part of a utility flag.

2. FORMAT

[1]
```
COPY:PSS,{[INDIR a,]{ADR b|XADR c}
|INDIR a,UMEM d}
[,INC e]
[,SIZE f,DISP g]
[,L h]
;
{{A1B|CS|CSS|PSS|XS},
{[INDIR a,|XSINDIR i,ID j,]{ADR b|XADR c}
|INDIR a,UMEM d}
[,INC e]
[,SIZE f,DISP g]}
|UMEM d
|FS,ID k,ADR l[,INC e]!
```

[2]
```
COPY:PSS,{[INDIR a,]{ADR b|XADR c}
|INDIR a,UMEM d
|INDIR a,mREG}
[,INC e]
[,SIZE f,DISP g]
[,L n]
;
{{A1B|CS|CSS|PSS|XS},
{[INDIR a,|XSINDIR i[,ID j],]{ADR b|XADR c}
|INDIR a,UMEM d
|INDIR a,mREG|XSINDIR i,mREG}
[,INC e]
```

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```
[,SIZE f,DISP g]}
|UMEM d!
```

3. EXPLANATION OF MESSAGE

PSS	Program store secure.
a	Number of levels of indirect addressing (0 - 7). Default value is 0.
b	Eight digit octal address. Address bits that are not specified will be zero filled but bits 23-29, Transition Address Register (TAR), will always be set to ones.
c	Ten digit address. Upper bits that are not specified will be zero filled. Default type is octal.
d	Utility scratch memory indicator number (0-7).
e	Address increment number (-17777 - +17777) added to address after all levels of indirectness have been calculated. Default type is octal. Default value is 0.
f	Mask specification. Size of mask (1 - 24). Default type is decimal. Default value is 24.
g	Displacement of mask (0 - 23). Default type is decimal. Default value is 0.
h	Number of locations (1 - 131,072) to be copied on base level. Default type is decimal. Default value is 1.
A1B	Any 1B core memory.
CS	Nonsecure call store.
CSS	Call store secure.
XS	Extended nonsecure call store.
i	Number of levels of indirect addressing (0 - 2). Default value is 0. See NOTES 1 and 2.
j	File system ID tag. (Must be in file segments 1 through 3 since this is used for extended memory access.)
k	One of following file system ID mnemonics:

- FREE0 — Unassigned space in file system segment 0.
- FREE1 — Unassigned space in file system segment 1.
- FREE2 — Unassigned space in file system segment 2.
- FREE3 — Unassigned space in file system segment 3.
- GEN — Generic.
- HIST — Trouble history.

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	LIB	— Library program.
	MERGE	— Merge structures (maps, hash sums).
	NWM	— Network management.
	PGPGM	— Paged program.
	ODA	— Office Data Assembler (ODA) data for file segment 0.
	ODA1	— ODA data for file segment 1.
	ODA2	— ODA data for file segment 2.
	ODA3	— ODA data for file segment 3.
	OSDATA	— On site data.
	RCRB	— Recent change rollback.
	TKMTC	— Trunk maintenance.
	TPM	— Traffic measurement.
	TRANS	— File system transient data.
	TRANS2	— ODA data in store segment 2.
	TRANS3	— ODA data in store segment 3.
l	1B file system address. Default type octal.	
m	Central Control (CC) register mnemonics: B, F, G, J, K, L, X, Y, Z.	
n	Number of locations to be copied on G level (1 - 128). Default type is decimal. Default value is 1.	

NOTE 1: **XSINDIR** NUM,**ID** TAG,[X]**ADR** NUM input (Base and G-Level):
The contents of the specified address will be used as the disk offset along with the ID tag to determine the extended store address.

NOTE 2: [**XSINDIR** NUM,x**REG**] or [**XSINDIR** NUM,[X]**ADR** NUM] input (G-Level only):
The contents of the register or address specified MUST be a window address. The window for this window address must have been previously enabled in order to access the extended store address.

4. SYSTEM RESPONSE

?I,CODE 031	Identification field contains an error. Utility Scratch Memory (UMEM) indicator number specified is not 0, 1, 2, 3, 4, 5, 6, or 7.
?I,CODE 035	Identification field contains an error. Number of words to be dumped exceeds maximum allowed.
?I,CODE 043	Identification field contains an error. Address increment exceeds 0'17777.
?I,CODE 044	Identification field contains an error. Mask specified by **SIZE** and **DISP** is invalid (**SIZE** + **DISP**>D'24 is invalid).

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`?I,CODE 118`	Identification field contains an error. Keyword **`ADR`** is invalid for accessing extended store.
`?I,CODE 119`	Identification field contains an error. Keyword **`INDIR`** is invalid for accessing extended store.
`?R,DPLX FAIL`	Insufficient system Resources are available to determine the validity of the message. Generic Utility Program (GULP) cannot be paged to parse the message because the file system is duplex failed.
`NG,CODE 036`	No Good. Request using file system follows a `WHEN` clause.
`NG,CODE 125`	No Good. Invalid **`ID`** tag for accessing extended store.
`NG,CODE 188`	No Good. Address specified is not equipped.
`PF,CODE 091`	Printout will conditionally follow.
`RL,CODE 180`	Retry Later. Execution of GULP function is in progress.
`RL,CODE 181`	Retry Later. Message processing in progress.
`RL,CODE 182`	Retry Later. Data set input mode in progress on another channel.
`RL,CODE 183`	Retry Later. Data set execution is in progress.
`RL,CODE 185`	Retry Later. No General Buffer Table (GBT) available or GULP cannot be paged.

5. REFERENCES

PIDENTs
- GULPIMDT
- GULPUTPP
- GULPUTXP
- GULRUTCR

Input Messages
- `WHEN:ADR`
- `WHEN:XADR`

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WARNING
INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

ID . . . . . COPY:SCS
WORK CENTER . . MOC
GENERIC . . . . . 4E22 Rel. 4 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

WARNING

When an Announcement Administration Processor (AAP) is present and active in the office, it is capable of changing the SCU disk contents for the purpose of providing updates to stored announcements. To prevent possible corruption of announcements on the destination disk, it is necessary to suspend AAP updates during the copy. DLP-500 in the *Service Circuit Maintenance* **document (234-151-077) describes the procedures that must be followed when the** `COPY:SCS` **input message is to be used.**

1. PURPOSE

The purpose of this message is to perform any of the following:

1. an inter- Service Circuit Unit (SCU) file copy:

   Format [1] is used to copy a specific file from disk pair 0 on one SCU to a different file number on disk pair 0 in another SCU.
   Format [2] is used to copy a specific file from disk pair 0 on one SCU to the same file number on disk pair 0 in another SCU.

2. an intra-SCU file copy:

   NOTE: For intra-SCU file copy, the file is only copied to the disk that is connected to the opposite of the specified bus number. (e.g., copy input message specifying BUS 0 copies specified file to disk connected to BUS 1.) Since the two disks of any disk pair should always be matched, the same input message but with the opposite bus number, should be used to copy the same file to the other disk of the disk pair.

   Format [3] is used to copy a specific file on disk pair 0 to a different file number on the mirrored disk of disk pair 0.
   Format [4] is used to copy a specific file on disk pair 0 to the same file number on the mirrored disk of disk pair 0.

3. an intra-SCU raw disk copy:

   NOTE: For intra-SCU raw disk copy, the bus parameter specifies the bus to which the disk to be copied from is connected.

   Format [5] is used to copy an entire disk to the mirrored disk of another disk pair in the same SCU.
   Format [6] is used to copy an entire disk to the mirrored disk of the same disk pair in the same SCU.

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4. an inter-SCU raw disk copy:

   NOTE: For inter-SCU raw disk copy, the bus parameter specifies the bus to which the disk to be copied from is connected.

   Format [7] is used to copy an entire disk from one SCU to another disk pair in another SCU.
   Format [8] is used to copy an entire disk from one SCU to the same disk pair in another SCU.

5. an Attached Processor System (APS) to SCU file copy:

   Format [9] is used to copy a specific file from the APS to all in-service SCUs in one Service Circuit System (SCS).
   Format [10] is used to copy a specific file from the APS to all in-service SCUs in all SCSs.
   Format [11] is used to copy a specific file from the APS to all SCUs in one SCS, or to the SCUs in a growth SCS.
   Format [12] is used to copy a specific file from the APS to all in-service and Out-Of-Service (OOS) SCUs in all SCSs.
   Format [13] is used to copy a specific file from the APS to a single in-service SCU.
   Format [14] is used to copy a specific file from the APS to a single out-of-service SCU.

2. FORMAT

[1] **COPY:SCS** a,**SCU** b,**SFN** c,**BUS** d,**DSCU** e,**DFN** f**!**

[2] **COPY:SCS** a,**SCU** b,**SFN** c,**BUS** d,**DSCU** e**!**

[3] **COPY:SCS** a,**SCU** b,**SFN** c,**BUS** d,**DFN** f**!**

[4] **COPY:SCS** a,**SCU** b,**SFN** c,**BUS** d**!**

[5] **COPY:SCS** a,**SCU** b,**SDP** g,**BUS** d,**DDP** h**!**

[6] **COPY:SCS** a,**SCU** b,**SDP** g,**BUS** d**!**

[7] **COPY:SCS** a,**SCU** b,**SDP** g,**BUS** d,**DSCU** e,**DDP** h**!**

[8] **COPY:SCS** a,**SCU** b,**SDP** g,**BUS** d,**DSCU** e**!**

[9] **COPY:SCS** a,{**TONES**|**SCCSFT**|**SCUOPR**|**SCUDGN**|**MSPROV**|
    MSPFIX|**MSP1**|**MIP0FIL**|**MIP1FIL**},**SVN** i,**DVN** j**!**

[10] **COPY:SCS** a,{**TONES**|**SCCSFT**|**SCUOPR**|**SCUDGN**|**MSPROV**|
    MSPFIX|**MSP1**|**MIP0FIL**|**MIP1FIL**},**SVN** i,**DVN** j,**ALL!**

[11] **COPY:SCS** a,{**TONES**|**SCCSFT**|**SCUOPR**|**SCUDGN**|**MSPROV**|
    MSPFIX|**MSP1**|**MIP0FIL**|**MIP1FIL**},**SVN** i,**DVN** j;**UCL!**

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[12] **COPY:SCS** a,{**TONES**|**SCCSFT**|**SCUOPR**|**SCUDGN**|**MSPROV**|
MSPFIX|**MSP1**|**MIP0FIL**|**MIP1FIL**},**SVN** i,**DVN** j,**ALL**;**UCL!**

[13] **COPY:SCS** a,**SCU** b,{**TONES**|**SCCSFT**|**SCUOPR**|**SCUDGN**|**MSPROV**|
MSPFIX|**MSP1**|**MIP0FIL**|**MIP1FIL**},**SVN** i,**DVN** j**!**

[14] **COPY:SCS** a,**SCU** b,{**TONES**|**SCCSFT**|**SCUOPR**|**SCUDGN**|**MSPROV**|
MSPFIX|**MSP1**|**MIP0FIL**|**MIP1FIL**},**SVN** i,**DVN** j;**UCL!**

3. EXPLANATION OF MESSAGE

a	**SCS** member number (0-7).
b	Source **SCU** member number (0-15) for Inter-SCU or Intra-SCU file copy or raw disk copy. It is the destination SCU number for an APS to SCU file copy when copying to a single SCU.
c	Source file number (1-42).
d	Source SCU disk bus number (0-1). This selects one disk of the pair.
e	Destination SCU member number (0-15).
f	Destination file number (1-42).
g	Source SCU disk pair number (0-1).
h	Destination SCU disk pair number (0-1).
i	Source file version number of the APS file (0-3).
j	Destination file version number on the SCU disk (0-3).
TONES	Class of files containing test tone data.
SCCSFT	Class of files containing software for the SCS controller.
SCUOPR	Class of files containing operational software for the SCU.
SCUDGN	Class of files containing diagnostic software for the SCU.
MSPROV	Class of files containing software for the rover Multifaceted Signal Processor (MSP).
MSPFIX	Class of files containing software for the fixed MSP.
MSP1	Class of files containing software for the AT&T Trigger Platform (ATP) - AT&T Network Call Redirection (ANCR) MSP.
MIP0FIL	Class of files containing software for Multifunctional Interface Processor (MIP) 0.
MIP1FIL	Class of files containing software for Multifunctional Interface Processor (MIP) 1.
ALL	Indicates that the specified file is to be copied to all SCSs. Cannot be used with the SCU option.
UCL	Forces files to be copied to OOS SCUs and to SCSs in the GROW state.

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4. SYSTEM RESPONSE

`?D`	Data field contains an error. The copy request has been denied. A required keyword argument is missing.
`?E`	Syntax Error exists in the message but cannot be resolved to the proper field. The file copy request was rejected. The program was unable to parse the input message.
`?I`	Identification field contains an error. The copy request has been denied. A required keyword is missing, a keyword argument is out-of-range, extra keywords or keyword arguments were specified, or the destination SCU member number is same as the source SCU member number.
`PF`	Printout Follows. The copy request has been accepted. An output message will follow to indicate the status of the copy request.
`RL`	Retry Later. The copy request has been denied. There are too many tasks in progress.

5. REFERENCES

PIDENTs
SCSCFSCU
SCSFPUMP

Practice 234-151-077, *Service Circuit Maintenance*

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ID . . . . . COPY:TSIFILE
WORK CENTER . . MOC
GENERIC . . . . . 4E21 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Copies all or one file(s) on the Expanded Time Slot Interchange (**XTSI**) flash memory. There are three types of copies:

1. Intra-controller copy - Copies a single **XTSI** flash file from one file location to another file location in the same controller. Format [2].
   NOTE: If frame is duplex, this copy is performed in both controllers.
2. Inter-controller copy - Copies a single **XTSI** flash file in the source controller to the same file location in the mate controller. The destination controller must be out-of-service. Format [2].
3. Copy all files - Copies all **XTSI** files from flash memory in the source controller to flash memory in the destination controller. The destination controller must be out-of-service. Format [1].

Copies of single files are checked for whether the destination file number version is "active" (currently in use) for **XTSI** Controller (XTC) files only (files 0-11).

Copies resulting in mismatches between flash memory on different controllers will cause the flash audit to fail. If a flash audit failure will result from a copy, the user will need to inhibit the flash audit (via the load memory command). Flash audit failures can always be avoided by making sure that the flash memory on one controller matches that on the other.

The copy all files option will copy each file separately and provide a synopsis of each file successfully completed. Source or destination files that are empty will be skipped. The copy will abort on the first error. If the last status message in the synopsis is an error status, the copy all files failed on the last file listed. If the last status message in the synopsis is a `COMPLETE`, the copy all files request succeeded.

2. FORMAT

[1] **COPY:TSIFILE;XTSI** a,[**CONTR** b,]**ALL!**

[2] **COPY:TSIFILE;XTSI** a,[**CONTR** b,]**SFN** c[,**DFN** d]**!**

3. EXPLANATION OF MESSAGE

a **XTSI** member number (0-63).

b **XTSI** controller number (0-1). Optional parameter. If simplex, the default is the active controller. If duplex failed, this parameter must be specified.

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c	**XTSI** source file descriptor number (0-127).
d	**XTSI** destination file descriptor number (0-127). The default is set to the same as the source file descriptor number. If source and destination file descriptor numbers are identical, it is an inter-controller copy. If source and destination file descriptor numbers are not identical, it is an intra-controller copy.

4. SYSTEM RESPONSE

?D,MISS DATA	A keyword's variable is missing.
?I,INV KW	There is an invalid keyword in the command line.
?I,MISS KW	There is a missing keyword.
?I,RANGE ER	An argument is out of range.
?I,XTRA KW	There are extra keywords in the command line.
PF	Printout Follows. The **XTSI** file copy request is accepted. An output message will follow to indicate the status of **XTSI** file copy request.
RL	Retry Later. The **XTSI** file copy request has been denied. Too many tasks are in progress.

5. REFERENCES

PIDENT
XTSIFILU

Output Message
COPY:TSIFILE

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . COPY:XS
WORK CENTER . . MOC
GENERIC . . . . . 4E22 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Copies the data at designated locations of main memory to the specified destination in main memory or File System (FS). This function may be performed on base level (Format [1]) or if included as part of a utility flag (see `WHEN:[X]ADR`), may be performed on G-level (Format [2]). Be aware that operations involving file system cannot be performed on G-level interrupt. If a mask is specified in the source, only the corresponding data will be fetched; a mask specified in the destination will cause only the corresponding bits to be changed. If the function appears after a `WHEN` clause (Format [2]), the maximum number of locations will be 128; for the base level execution (Format [1]), the maximum is 131,072 (128 BINKS).

Format [1] is used to perform copy on base level.
Format [2] is used to perform copy on G-level if included as part of a utility flag.

2. FORMAT

[1]
```
COPY:XS,{[XSINDIR a,ID b,]{ADR c|XADR d}}
[,INC e]
[,SIZE f,DISP g]
[,L h]
;
{{A1B|CS|CSS|PSS|XS},
{[INDIR i,|XSINDIR a,ID b,]{ADR c|XADR d}
|INDIR i,UMEM j}
[,INC e]
[,SIZE f,DISP g]}
|UMEM j
|FS,ID k,ADR l[,INC e]!
```

[2]
```
COPY:XS,{[XSINDIR a[,ID b],]{ADR c|XADR d}
|XSINDIR a,mREG}
[,INC e]
[,SIZE f,DISP g]
[,L n]
;
{{A1B|CS|CSS|PSS|XS},
{[INDIR i,|XSINDIR a[,ID b],]{ADR c|XADR d}
|INDIR i,UMEM j
|INDIR i,mREG|XSINDIR a,mREG}
[,INC e]
```

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```
[,SIZE f,DISP g]}
|UMEM j!
```

3. EXPLANATION OF MESSAGE

XS	Extended nonsecure call store.
a	Number of levels of indirect addressing (0 - 2). Default value is 0. See NOTES 1 and 2.
b	File system ID tag. (Must be in file segments 1 through 3 since this is used for extended memory access.)
c	Eight digit octal address. Address bits that are not specified will be zero filled but bits 23-29, Transition Address Register (TAR), will always be set to ones. Used with Extended Nonsecure Call Store Indirectness (XSINDIR).
d	Ten digit address. Upper bits that are not specified will be zero filled. Default type is octal.
e	Address increment number (-17777 - +17777) added to address after all levels of indirectness have been calculated. Default type is octal. Default value is 0.
f	Mask specification. Size of mask (1 - 24). Default type is decimal. Default value is 24.
g	Displacement of mask (0 - 23). Default type is decimal. Default value is 0.
h	Number of locations (1 - 131,072) to be copied on base level. Default type is decimal. Default value is 1.
A1B	Any 1B core memory.
CS	Nonsecure call store.
CSS	Call store secure.
PSS	Program store secure.
i	Number of levels of indirect addressing (0 - 7). Default value is 0.
j	Utility scratch memory indicator number (0-7).
k	One of following file system ID mnemonics:

- FREE0 — Unassigned space in file system segment 0.
- FREE1 — Unassigned space in file system segment 1.
- FREE2 — Unassigned space in file system segment 2.
- FREE3 — Unassigned space in file system segment 3.
- GEN — Generic.
- HIST — Trouble history.

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	LIB	— Library program.
	MERGE	— Merge structures (maps, hash sums).
	NWM	— Network management.
	PGPGM	— Paged program.
	ODA	— Office Data Assembler (ODA) data for file segment 0.
	ODA1	— ODA data for file segment 1.
	ODA2	— ODA data for file segment 2.
	ODA3	— ODA data for file segment 3.
	OSDATA	— On site data.
	RCRB	— Recent change rollback.
	TKMTC	— Trunk maintenance.
	TPM	— Traffic measurement.
	TRANS	— File system transient data.
	TRANS2	— ODA data in store segment 2.
	TRANS3	— ODA data in store segment 3.
l	1B file system address. Default type octal.	
m	Central Control (CC) register mnemonics: B, F, G, J, K, L, X, Y, Z.	
n	Number of locations to be copied on G level (1 - 128). Default type is decimal. Default value is 1.	

NOTE 1: **XSINDIR** NUM,**ID** TAG,[X]**ADR** NUM input (Base and G-Level):
The contents of the specified address will be used as the disk offset along with the ID tag to determine the extended store address.

NOTE 2: [**XSINDIR** NUM,x**REG**] or [**XSINDIR** NUM,[X]**ADR** NUM] input (G-Level only):
The contents of the register or address specified MUST be a window address. The window for this window address must have been previously enabled in order to access the extended store address.

4. SYSTEM RESPONSE

?I,CODE 031	Identification field contains an error. Utility Scratch Memory (UMEM) indicator number specified is not 0, 1, 2, 3, 4, 5, 6, or 7.
?I,CODE 035	Identification field contains an error. Number of words to be dumped exceeds maximum allowed.
?I,CODE 043	Identification field contains an error. Address increment exceeds 0'17777.
?I,CODE 044	Identification field contains an error. Mask specified by **SIZE** and **DISP** is invalid (**SIZE** + **DISP**>D'24 is invalid).

SEE PROPRIETARY NOTICE ON COVER PAGE

`?I,CODE 118`	Identification field contains an error. Keyword **`ADR`** is invalid for accessing extended store.
`?I,CODE 119`	Identification field contains an error. Keyword **`INDIR`** is invalid for accessing extended store.
`?R,DPLX FAIL`	Insufficient system Resources are available to determine the validity of the message. Generic Utility Program (GULP) cannot be paged to parse the message because the file system is duplex failed.
`NG,CODE 036`	No Good. Request using file system follows a `WHEN` clause.
`NG,CODE 125`	No Good. Invalid **`ID`** tag for accessing extended store.
`NG,CODE 188`	No Good. Address specified is not equipped.
`PF,CODE 091`	Printout will conditionally follow.
`RL,CODE 180`	Retry Later. Execution of GULP function is in progress.
`RL,CODE 181`	Retry Later. Message processing in progress.
`RL,CODE 182`	Retry Later. Data set input mode in progress on another channel.
`RL,CODE 183`	Retry Later. Data set execution is in progress.
`RL,CODE 185`	Retry Later. No General Buffer Table (GBT) available or GULP cannot be paged.

5. REFERENCES

PIDENTs
- GULPIMDT
- GULPUTPP
- GULPUTXP
- GULRUTCR

Input Messages
- `WHEN:ADR`
- `WHEN:XADR`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . COPY:XTSI
WORK CENTER . . MOC
GENERIC . . . . . 4E24 Rel. 2 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

To copy specified file types from the 3B Attached Processor System (APS) disk to the flash memory for the specified Expanded Time Slot Interchange (**XTSI**). The file will be stored on the flash memory as the file type with the given version number.

2. FORMAT

COPY:XTSI a,[**CONTR** b,]c,**SVN** d,**DVN** e[;**UCL**]!

3. EXPLANATION OF MESSAGE

a — **XTSI** number.

b — Controller number of the **XTSI**. Can not specify **CONTR** when frame is duplex operational, even with **UCL**.

c — This two-keyword field specifies the type of the file to be copied from the 3B APS to flash memory of the **XTSI**. The following list shows the legal two-keyword combinations:

IBU, DGN — File containing diagnostic software for the In-Band Unit (**IBU**).

IBU, OPR — File containing software for the **IBU**.

IBU, TST — File containing test circuit software for the **IBU**.

IBU, XCVR — File containing service circuit software for the **IBU**.

D3U, DGN — File containing diagnostic software for the Digital Signal Level 3 (DS3) Unit (**D3U**).

D3U, OPR — File containing software for the **D3U**.

SPU, DGN — File containing diagnostic software for the Signal Processing Unit (**SPU**).

SPU, OPR — File containing software for the **SPU**.

XTC, CSP — File containing Signal Processor (SP) software for the **XTSI** controller.

XTC, DGN — File containing diagnostic software for the **XTSI** controller.

XTC, FDT — File containing file description table.

XTC, OPR — File containing software for the **XTSI** controller.

SEE PROPRIETARY NOTICE ON COVER PAGE

d	Source File Version (**SVN**) stored in APS disk (0-1).
e	Destination File Version (**DVN**) stored in the flash memory (0-1).
UCL	Unconditional. Without the **UCL** option, controller files are not copied to an **XTSI** controller in the growth state, duplex failed state, or out of service state; or the destination file version is currently marked active in translations. When the **UCL** option is specified, an attempt will be made to copy files under all of these conditions. For subunits: files are always copied to the in-service controller of a simplex frame. **UCL** must be specified to copy to the Out Of Service (OOS) controller of a simplex frame. Subunit file copies, are not restricted when sent to the active file version **DVN**.

4. SYSTEM RESPONSE

?D	Data field contains an error. The copy request has been denied. A required keyword argument is missing.
?E	Syntax error exists in the message but cannot be resolved The copy request was rejected. The program was unable to parse the input message.
?I	Identification field contains an error. The copy request has been denied. A required keyword is missing, or a keyword argument is out range, or an extra keyword or keyword argument has been specified.
PF	Printout Follows. The copy request has been accepted. An output message will follow to indicate the status of the copy request.
RL	Retry Later. The copy request has been denied. Retry later when the system is less busy.

5. REFERENCES

PIDENTs
SCSCFSCU
XTSI3BCP

Output Message
COPY:XTSI

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DGN:API
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1A-APS
TYPE . . . . . Input

1. PURPOSE

Diagnoses the specified attached processor interface (API).

2. FORMAT

DGN:API a[;[**RPT** b][,**RDT** c][,**RAW**][,**UCL**]][:[**PH** d][,**TLP**]]**!**

3. EXPLANATION OF MESSAGE

a — Member number of the **API** to be diagnosed (0-15).

b — The number of times the diagnostic is repeated. Default is one time. Maximum value is 255.

c — The channel to which the output messages are redirected. Default is to output on the input channel. See the User Guidelines of the *Input Message Document* for a list of channel names.

RAW — Print the diagnostic results of every phase. Default will only print the first five failures of any failing phase.

UCL — Unconditionally execute the diagnostic with no early termination (the exception is a FORCED early termination which will always work if executed).

NOTE: The **UCL** and **TLP** keywords should not be used together.

d — The specified phase numbers to be executed, which may be a single decimal number, a range (e.g., d-e), a list (e.g., d,e,...), or a combination of a range and a list. A list or combination of range and list must be surrounded by parentheses.

TLP — Execute the trouble location programs at the conclusion of the diagnostic. These programs generate the suspected faulty equipment messages (see the ANALY:TLPF-TL3 output messages).

NOTE: The **UCL** and **TLP** keywords should not be used together.

4. SYSTEM RESPONSE

?R,DPLX FAIL — Insufficient system Resources are available to determine the validity of the message. Diagnostics are not available from the disk system. (Clear the Duplex failure or use SYSRTPAD/TPAD.)

PF — Printout Follows. Followed by a DGN:API output message.

SEE PROPRIETARY NOTICE ON COVER PAGE

5. REFERENCES

PIDENTs
APFRBASE
MIRA
APDG--, where -- = all valid phase members
listed in PIDENT DCONTABL for PREFIX=APDG, UTYPE=1XLUAPI

Practice 254-280-040, *Diagnostic Language - DL-1*
Practice 254-280-220, *Diagnostic Programs - Description*

PA-4A002-01, *4ESS™ User's Manual*

Output Messages
`ANALY:TLPF-TL3`
`DGN:API`

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WARNING
INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

ID . . . . . DGN:AUB
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

WARNING
Use of the unconditional (UCL) option can lead to serious problems, such as interrupts or phases if used during fault conditions. Use of the UCL option is not recommended unless it is absolutely necessary to obtain additional data to repair a hardware problem.

1. PURPOSE

Diagnoses the specified auxiliary unit bus (AUB).

2. FORMAT

DGN:AUB a[;[**RPT** b][,**RDT** c][,**RAW**][,**UCL**]][:**PH** d]!

3. EXPLANATION OF MESSAGE

a — Member number of the **AUB** to be diagnosed (0 or 1).

b — Number of times to repeat the diagnostic. Default is one time. Maximum value is 255 times.

c — Redirect the output messages to the channel specified. Default is to output on the input channel. See the User Guidelines of the *Input Message Document* for a list of channel names.

RAW — Print the diagnostic results of every phase. Default will only print the first five failures of any failing phase.

UCL — Unconditionally execute the diagnostic with no early termination (the exception is a FORCED early termination which will always work if triggered).

d — Execute only the specified phase numbers. May be a single decimal number, a range (e.g., d-e), a list (e.g., d,e,...), or a combination of a range and list. A list or a combination must be surrounded by parentheses.

4. SYSTEM RESPONSE

?R,DPLX FAIL — Insufficient system Resources are available to determine the validity of the message. Diagnostics are not available from the disk system. (Clear the Duplex failure or use SYSRTPAD/TPAD.)

PF — Printout Follows. Followed by a DGN:AUB output message.

SEE PROPRIETARY NOTICE ON COVER PAGE

5. REFERENCES

PIDENTs
ABDG--, where-- = All valid phase numbers
listed in PIDENT DCONTABL for PREFIX=ABDG, UTYP=1XLUAUB,
TNUM=1DGTASKNUM3(AUB 0) or TNUM=1DGTASKNUM4 (AUB 1)

Practice 254-280-040, *Diagnostic Language - DL-1*
Practice 254-280-220, *Diagnostic Programs - Description*

PA-4A002-01, *4ESS™ User's Manual*

Output Message
DGN:AUB

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DGN:AUI
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Diagnoses the specified auxiliary unit interface (AUI).

2. FORMAT

DGN:AUI a[;[**RPT** b][,**RDT** c][,**RAW**][,**UCL**]][:[**PH** d][,**TLP**[e]]]!

3. EXPLANATION OF MESSAGE

a — Member number of the **AUI** to be diagnosed (0 or 1).

b — Number of times to repeat the diagnostic. Default is one time. Maximum value is 255 times.

c — Redirect the output messages to the channel specified. Default is to output on the input channel. See the User Guidelines of the *Input Message Document* for a list of channel names.

RAW — Print the diagnostic results of every phase. Default will only print the first five failures of any failing phase.

UCL — Unconditionally execute the diagnostic with no early termination. (The exception is a FORCED early termination which will always work if triggered.)

NOTE: The **UCL** keyword, when used with the **TLP** keyword, may negatively impact the ordering of equipment on the trouble location procedure (TLP) list because early termination is used to tune equipment list order.

d — Execute only the specified phase numbers. May be a single decimal number, a range (e.g., d-e), a list (e.g., d,e,...), or a combination of a range and list. A list or combination must be surrounded by parentheses.

TLP — Execute the trouble location programs at the conclusion of the diagnostic if it fails. These programs generate the suspected faulty equipment message (see ANALY:TLPF-SUM and ANALY:TLPF-SUS output messages).

NOTE: Using the **PH** and **TLP** parameters together may produce a misleading equipment list because **TLP** is tuned for all automatic phases running together in sequence.

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e — The first number of failing phases (1-15) used to generate the **TLP** information. The default is 1 and is the value to which the **TLP** is tuned. The TLP information will be for e failing phases or the number of failing phases actually run, whichever is smaller. In many cases the diagnostic will terminate early or fail fewer than e phases.

NOTE: Use of this option (and possibly the **UCL** keyword) can yield a larger, but less precisely ordered, suspect equipment list.

4. SYSTEM RESPONSE

?R,DPLX FAIL — Insufficient system Resources are available to determine the validity of the message. Diagnostics are not available from the disk system. (Clear the Duplex failure or use SYSRTPAD/TPAD.)

PF — Printout Follows. Followed by a DGN:AUI output message.

5. REFERENCES

PIDENTs
AIDG--, where -- = all valid phase numbers
listed in PIDENT DCONTABL for PREFIX=AIDG, UTYPE=1XLUAUI

Practice 254-280-040, *Diagnostic Language - DL-1*
Practice 254-280-220, *Diagnostic Programs - Description*

PA-4A002-01, *4ESS™ User's Manual*

Output Messages
ANALY:TLPF-SUM
ANALY:TLPF-SUS
DGN:AUI

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DGN:CC
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Diagnoses the specified central control (CC).

2. FORMAT

DGN:CC a[;[**RPT** b][,**RDT** c][,**RAW**][,**UCL**]][:[**PH** d][,**TLP** [e]][,**PC**]]!

3. EXPLANATION OF MESSAGE

a — Member number of the **CC** to be diagnosed (0 or 1).

b — Number of times to repeat the diagnostic. Default is one time. Maximum value is 255 times.

c — Redirect the output messages to the channel specified. Default is to output on the input channel. See the User Guidelines of the *Input Message Document* for a list of channel names.

RAW — Print the diagnostic results of every phase. Default will only print the first five failures of any failing phase.

UCL — Unconditionally execute the diagnostic with no early termination. (The exception is a FORCED early termination which will always work if triggered.)

NOTE: The **UCL** keyword, when used with the **TLP** keyword, may negatively impact the ordering of equipment on the trouble location procedure (TLP) list because early termination is used to tune equipment list order.

d — Execute only the specified phase numbers. May be a single decimal number, a range (e.g., d-e), a list (e.g., d,e,...), or a combination of a range and list. A list or combination must be surrounded by parentheses.

TLP — Execute the trouble location programs at the conclusion of the diagnostic if it fails. These programs generate the suspected faulty equipment message (see ANALY:TLPF-SUM and ANALY:TLPF-SUS output messages).

NOTE: Using the **PH** and **TLP** parameters together may produce a misleading equipment list because **TLP** is tuned for all automatic phases running together in sequence.

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e — The first number of failing phases (1-15) used to generate the **TLP** information. The default is 1 and is the value to which the **TLP** is tuned. The TLP information will be for e failing phases or the number of failing phases actually run, whichever is smaller. In many cases the diagnostic will terminate early or fail fewer than e phases.

NOTE: Use of this option (and possibly the **UCL** keyword) can yield a larger, but less precisely ordered, suspect equipment list.

PC — Execute the demand processor configuration and inter-CC power control tests. The **PH** and **PC** parameters cannot be used together. This test switches CCs so refer to PA-4A002-01 before running it.

4. SYSTEM RESPONSE

?R,DPLX FAIL — Insufficient system Resources are available to determine the validity of the message. Diagnostics are not available from the disk system. (Clear the Duplex failure or use SYSRTPAD/TPAD.)

PF — Printout Follows. Followed by a DGN:CC output message.

5. REFERENCES

PIDENTs
CCDG--, where -- = all valid phase numbers
listed in PIDENT DCONTABL for PREFIX=CCDG, UTYPE=1XLUCC

Practice 254-280-040, *Diagnostic Language - DL-1*
Practice 254-280-220, *Diagnostic Programs - Description*

PA-4A002-01, *4ESS™ User's Manual*

Output Messages
ANALY:TLPF-SUM
ANALY:TLPF-SUS
DGN:CC

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DGN:CS
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Diagnoses the specified call store (CS).

Format [1] is used to diagnose the specified call store.
Format [2] is used to test a specified address range.

2. FORMAT

[1] **DGN:CS** a[;[**RPT** b][,**RDT** c][,**RAW**][,**UCL**]][:[**PH** d][,**TLP** [e]]]!

[2] **DGN:CS** a[;[**RPT** b][,**RDT** c][,**RAW**][,**UCL**]
[:[**PH 97**][,**TSTADR** f][,**L** g][,**HIDATA** h][,**TSTPAT** i][,**TLP** [e]]]!

3. EXPLANATION OF MESSAGE

a — Member number of the **CS** to be diagnosed (0-39).

b — Number of times to repeat the diagnostic. Default is one time. Maximum value is 255 times.

c — Redirect the output messages to the channel specified. Default is to output on the input channel. See the User Guidelines of the *Input Message Document* for a list of channel names.

RAW — Print the diagnostic results of every phase. Default will print only the first five failures of any phase.

UCL — Unconditionally execute the diagnostic with no early termination. (The exception is a FORCED early termination which will always work if triggered.)

NOTE: The **UCL** keyword, when used with the **TLP** keyword, may negatively impact the ordering of equipment on the trouble location procedure (TLP) list because early termination is used to tune equipment list order.

d — The specified phase numbers to be executed, which may be a single decimal number, a range (x-y), a list (x,y,...), or a combination of a range and list. A list or combination must be surrounded by parentheses.

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TLP Execute the trouble location programs at the conclusion of the diagnostic if it fails. These programs generate the suspected faulty equipment message (see ANALY:TLPF-SUM and ANALY:TLPF-SUS output messages).

NOTE: Using the **PH** and **TLP** parameters together may produce a misleading equipment list because **TLP** is tuned for all automatic phases running together in sequence.

e The first number of failing phases (1-15) used to generate the **TLP** information. Default is 1 and is the value to which the **TLP** is tuned. The TLP information will be for e failing phases or the number of failing phases actually run, whichever is smaller. In many cases the diagnostic will terminate early or fail fewer than e phases.

NOTE: Use of this option (and possibly the **UCL** keyword) can yield a larger, but less precisely ordered, suspect equipment list.

f Test address (bits 0 through 19) of the store to be exercised, the variable is any store address in octal. Maximum address is 3777777. Default address is 0.

g Length of consecutive addresses to be exercised. Default length is 1. The length is specified in decimal.

h The 8 data-bit test pattern for the high byte of the address to be used with **TSTADR**. Default value is 0.

i The 24 data-bit test pattern to be used with **TSTADR**. Default is 0.

4. SYSTEM RESPONSE

?R,DPLX FAIL Insufficient system Resources are available to determine the validity of the message. Diagnostics are not available from the disk system. (Clear the Duplex failure or use SYSRTPAD/TPAD.)

PF Printout Follows. Followed by a DGN:CS output message.

5. REFERENCES

PIDENTs
MUDG--, where -- = all valid phase numbers
listed in PIDENT DCONTABL for PREFIX=MUDG, UTYPE=1XLUCS - core store

Practice 254-280-040, *Diagnostic Language - DL-1*
Practice 254-280-220, *Diagnostic Programs - Description*

PA-4A002-01, *4ESS™ User's Manual*

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Messages

```
ANALY:TLPF-SUM
ANALY:TLPF-SUS
ANALY:TLPF-TL3
DGN:CS
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DGN:CSB
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Diagnoses the specified call store bus (CSB).

2. FORMAT

DGN:CSB a[;[**RPT** b][,**RDT** c][,**RAW**][,**UCL**]][:**PH** d][,**TLP** [e]]!

3. EXPLANATION OF MESSAGE

a — Member number of the **CSB** to be diagnosed (0 or 1).

b — The number of times the diagnostic is repeated. Default is one time. Maximum value is 255 times.

c — The channel to which the output messages are redirected. Default is to output on the input channel. See the User Guidelines of the *Input Message Document* for a list of channel names.

RAW — Print the diagnostic results of every phase. Default will only print the first five failures of any failing phase.

UCL — Unconditionally execute the diagnostic with no early termination. (The exception is a FORCED early termination which will always work if triggered.)

NOTE: The **UCL** keyword, when used with the **TLP** keyword, may negatively impact the ordering of equipment on the trouble location procedure (TLP) list because early termination is used to tune equipment list order.

d — The phase numbers to be executed, which may be a single decimal number, a range (e.g., d-e), a list (e.g., d,e,...), or a combination of a range and list. A list or combination must be surrounded by parentheses.

TLP — Execute the trouble location programs at the conclusion of the diagnostic if it fails. These programs generate the suspected faulty equipment message (see ANALY:TLPF-SUM and ANALY:TLPF-SUS output messages).

NOTE: Using the **PH** and **TLP** parameters together may produce a misleading equipment list because **TLP** is tuned for all automatic phases running together in sequence.

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`e` The first number of failing phases (1-15) used to generate the **`TLP`** information. Default is 1 and is the value to which the **`TLP`** is tuned. The TLP information will be for `e` failing phases or the number of failing phases actually run, whichever is smaller. In many cases the diagnostic will terminate early or fail fewer than `e` phases.

NOTE: Use of this option (and possibly the **`UCL`** keyword) can yield a larger, but less precisely ordered, suspect equipment list.

4. SYSTEM RESPONSE

`?R,DPLX FAIL` Insufficient system Resources are available to determine the validity of the message. Diagnostics are not available from the disk system. (Clear the Duplex failure or use `SYSRTPAD/TPAD`.)

`PF` Printout Follows. Followed by a `DGN:CSB` output message.

5. REFERENCES

PIDENT
MBDG01

Practice 254-280-040, *Diagnostic Language - DL-1*
Practice 254-280-220, *Diagnostic Programs - Description*

PA-4A002-01, *4ESS™ User's Manual*

Output Messages
`ANALY:TLPF-SUM`
`ANALY:TLPF-SUS`
`DGN:CSB`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DGN:DIF
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Diagnoses the specified Digital Interface Frame (DIF), Domestic Frame DIF-E1(D), or DIF-E1, or Multi-Frequency Frame DIF-E1(MF); Dual Tone Multi-Frequency (DTMF) four state (4S), Circuit Switched Digital Capability (CSDC) and Integrated Access Direct Connect (IADC) frame, also called DIF-E1(DTMF/4S/CSDC/IADC); or DIF-E1(MF/4S/CSDC/IADC).

2. FORMAT

```
DGN:DIF a,{IPUB b|CONTR c|DIU d}[;[RPT e][,RDT f][,RAW][,UCL]
      [,ENDLP]][:[PUB g][,PH h][,GROWTH][,PSW][,SELECT][,TLP][,MEMOPT i]]!
```

3. EXPLANATION OF MESSAGE

a — Member number of the DIF, DIF-E1(D), or DIF-E1 (0-31).

Member number of the DIF, DIF-E1(D), or DIF-E1, or DIF-E1(MF) (0-31).

Member number of the DIF, DIF-E1(D), or DIF-E1, or DIF-E1(MF), (0-31), or DIF-E1(DTMF/4S/CSDC/IADC), or DIF-E1(MF/4S/CSDC/IADC).

b — DIF, DIF-E1(D), or DIF-E1 bus circuitry to be diagnosed (0 or 1).

DIF, DIF-E1(D), or DIF-E1, or DIF-E1(MF) bus circuitry to be diagnosed (0 or 1).

DIF, DIF-E1(D), or DIF-E1, or DIF-E1(MF), or DIF-E1(DTMF/4S/CSDC/IADC), or DIF-E1(MF/4S/CSDC/IADC) bus circuitry to be diagnosed (0 or 1).

c — Controller to be diagnosed (0 or 1).

d — DIU to be diagnosed (0-33).

e — The number of times the diagnostic is to be repeated. Default is one time. Maximum value is 255.

f — The channel to which the output messages are redirected. Default is output on the input channel. See the User Guidelines of the *Input Message Document* for a list of channel names.

SEE PROPRIETARY NOTICE ON COVER PAGE

RAW Print the diagnostic results of every phase. Default only prints the first five failures of any failing phase. This also applies to the firmware diagnostics.

UCL Unconditionally execute the diagnostic with no early termination. This also applies to the firmware diagnostics.

NOTE: The **UCL** and **TLP** parameters should not be used together.

g The Peripheral Unit Bus (PUB) to be used in executing the diagnostic (0 or 1). This input is valid only when **CONTR** is specified and the **DIF** is in growth or special growth.

h The phase numbers to be executed [1-23 for CONTR and DIF; 1-30 for DIF-E1(D) and DIF-E1; 1-29 for DIF-E1(MF), DIF-E1(DTMF/4S/CSDC/IADC), and DIF-E1(MF/4S/CSDC/IADC); 1-3 for voice and four state type DIUs; 1-4 for service circuit and Dual Tone Multi-frequency (DTMF) type Digital Interface Units (DIUs); 99 for IPUB], which may be single decimal number, a range, or a list. Specification of the following phases will cause the indicated PIDENTs to be executed:

PHASE		PIDENT
Member type = DIF, XL4MTDIF=1 (MT=1)		
CONTR	1-23	PUDGDC01-PUDGDC23
DIU	1-3	PUDGDU01-PUDGDU03
IPUB	99	PUDGDC99
Member type = DIF-E1, XL4MTDIF=2 (MT=2)		
CONTR	1-30	PUDGDE01-PUDGDE30
DIU	1-3	PUDGDU01-PUDGDU03
IPUB	99	PUDGDE99
Member type = DIF-E1(D), XL4MTDIF=2 (MT=2)		
CONTR	1-7	PUDGDE01-PUDGDE07
CONTR	8	PUDGDE31
CONTR	9-17	PUDGDE09-PUDGDE17
CONTR	18	PUDGDE32
CONTR	19	PUDGDE19
CONTR	20	PUDGDE33
CONTR	21-30	PUDGDE21-PUDGDE30
DIU	1-3	PUDGDU01-PUDGDU03
IPUB	99	PUDGDC99

SEE PROPRIETARY NOTICE ON COVER PAGE

Member type = DIF-E1(MF), XL4MTDIF=3 (MT=3)

CONTR	1-3	PUDGDE01-PUDGDE03
CONTR	4	PUDGDE34
CONTR	5-7	PUDGDE05-PUDGDE07
CONTR	8	PUDGDE43
CONTR	9,10	PUDGDE09, PUDGDE10
CONTR	11	PUDGDE35
CONTR	12,13	PUDGDE12, PUDGDE13
CONTR	14,15	PUDGDE37, PUDGDE38
CONTR	16	PUDGDE36
CONTR	17	PUDGDE46
CONTR	18	PUDGDE44
CONTR	19	PUDGDE39
CONTR	20	PUDGDE45
CONTR	21	PUDGDE40
CONTR	22	PUDGDE22
CONTR	23	PUDGDE41
CONTR	24,25	PUDGDE24-PUDGDE28
CONTR	29	PUDGDE42
DIU	1-4	PUDGDU01-PUDGDU04
IPUB	99	PUDGDE99

Member type = DIF-E1(DTMF/4S/CSDC/IADC),
XL4MTDIF=4 (MT=4)

CONTR	1-3	PUDGDE01-PUDGDE03
CONTR	4	PUDGDE47
CONTR	5-7	PUDGDE05-PUDGDE07
CONTR	8	PUDGDE48
CONTR	9,10	PUDGDE09, PUDGDE10
CONTR	11	PUDGDE35
CONTR	12,13	PUDGDE12, PUDGDE13
CONTR	14,15	PUDGDE37, PUDGDE38
CONTR	16	PUDGDE36
CONTR	17	PUDGDE46
CONTR	18	PUDGDE49
CONTR	19	PUDGDE53
CONTR	20	PUDGDE54
CONTR	21	PUDGDE40
CONTR	22	PUDGDE22
CONTR	23	PUDGDE41
CONTR	24,28	PUDGDE24-PUDGDE28
CONTR	29	PUDGDE42
DIU	1-4	PUDGDU01-PUDGDU04
IPUB	99	PUDGDE99

SEE PROPRIETARY NOTICE ON COVER PAGE

Member type = DIF-E1(MF/4S/CSDC/IADC),
XL4MTDIF=5 (MT=5)

CONTR	1-3	PUDGDE01-PUDGDE03
CONTR	4	PUDGDE50
CONTR	5-7	PUDGDE05-PUDGDE07
CONTR	8	PUDGDE51
CONTR	9,10	PUDGDE09, PUDGDE10
CONTR	11	PUDGDE35
CONTR	12,13	PUDGDE12, PUDGDE13
CONTR	14,15	PUDGDE37, PUDGDE38
CONTR	16	PUDGDE36
CONTR	17	PUDGDE46
CONTR	18	PUDGDE44
CONTR	19	PUDGDE53
CONTR	20	PUDGDE54
CONTR	21	PUDGDE40
CONTR	22	PUDGDE22
CONTR	23	PUDGDE41
CONTR	24,28	PUDGDE24-PUDGDE28
CONTR	29	PUDGDE42
DIU	1-4	PUDGDU01-PUDGDU04
IPUB	99	PUDGDE99

GROWTH Diagnose the growth parts in addition to the operational parts.

PSW Execute protection switch tests.

NOTE: **PSW** applies only when **CONTR** is specified. Only phase 22 is affected when this parameter is specified, and PH 22 must be specified.

TLP Execute the trouble location raw data compression programs at the conclusion of the diagnostic in order to print the summary data message and to schedule the trouble location data base search programs to generate the faulty equipment message.

SELECT Execute cross controller and active/standby alarm tests. This parameter applies only when **CONTR** is specified. Only phase 23 is affected when this parameter is specified.

ENDLP Terminates the firmware diagnostic LOOP mode.

SEE PROPRIETARY NOTICE ON COVER PAGE

`i` Execute exhaustive memory tests. This parameter applies only to DIF-E1(D), DIF-E1, DIF-E1(MF), DIF-E1(DTMF/4S/CSDC/IADC), or DIF-E1(MF/4S/CSDC/IADC). Only phases 24-30 [24-29 for DIF-E1(MF), DIF-E1(DTMF/4S/CSDC/IADC, and DIF-E1(MF/4S/CSDC/IADC)] are affected by this parameter. The value of `i` has the following effect.

0 — Enable all memory phases 24-30.
1 — Enables memory phase 24.
2 — Enables memory phase 25.
3 — Enables memory phase 26.
4 — Enables memory phase 27.
5 — Enables memory phase 28.
6 — Enables memory phase 29.
7 — Enables memory phase 30.

4. SYSTEM RESPONSE

`?R,DPLX FAIL` Insufficient system Resources are available to determine the validity of the message. Diagnostics are not available from the disk system. (Clear the Duplex failure or use `SYSRTPAD/TPAD`.)

`PF` Printout Follows. Followed by the `DGN:DIF-ILL` and `DGN:DIF-NOT` output messages.

5. REFERENCES

PIDENTs
PUDGDC01-23
PUDGDE01-30
PUDGDE34-46
PUDGDE47-51
PUDGDE53-54
PUDGDE99
PUDGDU01-03
PUDGDC99

Practice 234-180-020, *Diagnostic Language - DIAL*
Practice 234-180-260, *4ESS™ Peripheral Diagnostic Program - Description*

Output Messages
`DGN:DIF-ILL`
`DGN:DIF-NOT`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DGN:DT
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Diagnoses the specified digroup terminal (DT).

2. FORMAT

```
DGN:DT a[,{CONTR b|DTU c}][;[RPT d][,RDT e][,RAW][,UCL]]
      [:[PH f][,GROWTH][,PSW][,TLP]]!
```

3. EXPLANATION OF MESSAGE

a	Member number of the **DT** to be diagnosed (0-127).
b	Controller to be diagnosed (0 or 1).
c	Digroup terminal unit (**DTU**) to be diagnosed (0-8).
d	The number of times the diagnostic is to be repeated. Default is one time. Maximum value is 255.
e	The channel to which the output messages are to be redirected. Default is output on the input channel. See the User Guidelines of the *Input Message Document* for a list of channel names.
RAW	Print the diagnostic results of every phase. Default will only print the first five failures of any failing phase.
UCL	Unconditionally execute the diagnostic with no early termination. **NOTE:** The **UCL** and **TLP** parameters should not be used together.
f	Execute only the specified phase numbers (1-12). May be a single decimal number, a range, or a list. Specification of phase 1-12 will cause PIDENTs PUDGDT01 through PUDGDT12 to be executed.
GROWTH	Diagnose the growth parts in addition to the operational parts.
PSW	Execute protection switch tests. This parameter applies only when **CONTR** is not specified and only applies to phase 10.
TLP	Execute the trouble location programs at the conclusion of the diagnostic. These programs generate the suspected faulty equipment message (see the ANALY:TLPF-*[unit]* output messages). The **PH** and **TLP** parameters must not be used together. Exceptions to this requirement can be found in PA-4A002-01, Section C.3, Trouble Location Procedures.

SEE PROPRIETARY NOTICE ON COVER PAGE

4. SYSTEM RESPONSE

`?R,DPLX FAIL`	Insufficient system Resources are available to determine the validity of the message. Diagnostics are not available from the disk system. (Clear the Duplex failure or use `SYSRTPAD/TPAD`.)
`PF`	Printout Follows. Followed by the `DGN:DT` output message(s).

5. REFERENCES

PIDENT
PUDGDT

Practice 234-180-020, *Diagnostic Language - DIAL*
Practice 234-180-260, *4ESS™ Peripheral Diagnostic Program - Description*

PA-4A002-01, *4ESS™ User's Manual*, Section C.3, Trouble Location Procedures

Output Messages
`ANALY:TLPF-`*[unit]*
`DGN:DT`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DGN:EST
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Diagnoses the specified echo suppressor terminal (EST) frame.

2. FORMAT

```
DGN:EST a,{IPUB b|CONTR c|ESU d}[;[RPT e][,RDT f][,RAW][,UCL]]
      [:[PUB g][,PH h][,GROWTH][,PSW][,ESCSEL][,TLP]]!
```

3. EXPLANATION OF MESSAGE

a	Member number of the **EST** (0-31).
b	EST bus circuitry to be diagnosed (0 or 1).
c	Controller to be diagnosed (0 or 1).
d	Echo suppressor terminal unit (**ESU**) to be diagnosed (0-14).
e	Number of times the diagnostic is repeated. Default is one time. Maximum value is 255.
f	Redirect the output messages to the channel specified. Default is output on the input channel. See the User Guidelines of the *Input Message Document* for a list of channel names.
RAW	Print the diagnostic results of every phase. Default will print only the first five failures of any failing phase.
UCL	Unconditionally execute the diagnostic with no early termination. **NOTE:** The **UCL** and **TLP** variables should not be used together.
g	Execute the diagnostic using the specified peripheral unit bus (0 or 1). This input is valid only when **CONTR** is specified and the **EST** is in growth or special growth.

SEE PROPRIETARY NOTICE ON COVER PAGE

`h` Execute only the specified phase numbers (1-12 for **CONTR**, 1-3 for **ESU**, 99 for **IPUB**). May be a single decimal number, a range, or a list. Specification of the following phases will cause the indicated PIDENTs to be executed:

PHASE		PIDENT
CONTR	1-12	PUDGEC01-PUDGEC12
ESU	1-3	PUDGEV01-PUDGEV03
IPUB	99	PUDGEC99

GROWTH Diagnose the growth parts in addition to the operational parts.

PSW Execute protection switch tests. This parameter applies only when **CONTR** specified. Only phase 12 is affected when this parameter is specified.

ESCSEL Enable controller to subunit bus selection tests. This parameter applies only when **ESU** is specified, and only applies to **ESU** phase 3.

TLP Execute the trouble location raw data compression programs at the conclusion of the diagnostic. This prints the summary data message and schedules the trouble location data base search programs to generate the faulty equipment message.

4. SYSTEM RESPONSE

`?R,DPLX FAIL` Insufficient system Resources are available to determine the validity of the message. Diagnostics are not available from the disk system. (Clear the Duplex failure or use `SYSRTPAD/TPAD`.)

`PF` Printout Follows. Followed by the `DGN:EST` output message(s).

5. REFERENCES

PIDENTs
- PUDGEC, if **CONTR** is specified
- PUDGEU, if **ESU** is specified
- PUDGEC99, if **IPUB** is specified

Practice 234-180-020, *Diagnostic Language - DIAL*
Practice 234-180-260, *4ESS™ Peripheral Diagnostic Program - Description*

Output Message
- `DGN:EST-PUB`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DGN:IFB
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Diagnoses the specified interface bus (IFB).

2. FORMAT

DGN:IFB a[;[**RPT** b][,**RDT** c][,**RAW**][,**UCL**]][:[**PH** d][,**TLP** [e]]]**!**

3. EXPLANATION OF MESSAGE

a — Member number of the **IFB** to be diagnosed (0 or 1).

b — Number of times to repeat the diagnostic. Default is one time. Maximum value is 255 times.

c — Redirect the output messages to the channel specified. Default is to output on the input channel. See the User Guidelines of the *Input Message Document* for a list of channel names.

RAW — Print the diagnostic results of every phase. Default will only print the first five failures of any failing phase.

UCL — Unconditionally execute the diagnostic with no early termination. (The exception is a FORCED early termination which will always work if triggered.)

NOTE: The **UCL** keyword, when used with the **TLP** keyword, may negatively impact the ordering of equipment on the trouble location procedure (TLP) list because early termination is used to tune equipment list order.

d — Execute only the specified phase numbers. May be a single decimal number, a range (e.g., d-e), a list (e.g., d,e,...), or a combination of a range and list. A list or combination must be surrounded by parentheses.

TLP — Execute the trouble location programs at the conclusion of the diagnostic if it fails. These programs generate the suspected faulty equipment message (see ANALY:TLPF-SUM and ANALY:TLPF-SUS output messages).

NOTE: Using the **PH** and **TLP** parameters together may produce a misleading equipment list because **TLP** is tuned for all automatic phases running together in sequence.

SEE PROPRIETARY NOTICE ON COVER PAGE

`e` The first number of failing phases (1-15) used to generate the **`TLP`** information. The default is 1 and is the value to which the **`TLP`** is tuned. The TLP information will be for `e` failing phases or the number of failing phases actually run, whichever is smaller. In many cases the diagnostic will terminate early or fail fewer than `e` phases.

NOTE: Use of this option (and possibly the **`UCL`** keyword) can yield a larger, but less precisely ordered, suspect equipment list.

4. SYSTEM RESPONSE

`?R,DPLX FAIL` Insufficient system Resources are available to determine the validity of the message. Diagnostics are not available from the disk system. (Clear the Duplex failure or use `SYSRTPAD/TPAD`.)

`PF` Printout Follows. Followed by a `DGN:IFB` output message.

5. REFERENCES

PIDENTs
IFDG--, where -- = all valid phase numbers
listed in PIDENT DCONTABL for PREFIX=IFDG, UTYPE=1XLUIFB

Practice 254-280-040, *Diagnostic Language - DL-1*
Practice 254-280-220, *Diagnostic Programs - Description*

PA-4A002-01, *4ESS™ User's Manual*

Output Messages
`ANALY:TLPF-SUM`
`ANALY:TLPF-SUS`
`DGN:IFB`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DGN:IOUS
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Diagnose the specified input/output unit selector (IOUS).

Format [1] is used to diagnose the input/output frame (IOF) SD-5A021-01, SD-5A023-01.
Format [2] is used to diagnose the input/output processor (IOP) frame SD-5A052-01,-02.

2. FORMAT

[1] **DGN:IOUS** a[,{**IPUB** b|**IOUC** c}][;[**RPT** d][,**RDT** e][,**RAW**]
[,**UCL**]][:[**PUB** f][,**PH** g][,**TLP**][,**PORT** h]]!

[2] **DGN:IOUS** a[,{**IPUB** b|**IOUC** c|**IOMP** i}][;[**RPT** d]
[,**RDT** e][,**RAW**][,**UCL**]][:[**PUB** f][,**PH** g][,**TLP**][,**PORT** h]]!

3. EXPLANATION OF MESSAGE

a — Member number of the **IOUS** to diagnose (0-7).

b — This parameter triggers a bus only diagnostic on **IPUB** b for **IOUS** a.

c — Member number of the input/output unit controller (**IOUC**) to diagnose (0-7) for IOF, (0-15) for IOP.

d — Number of times the diagnostic is repeated. Default is one time. Maximum value is 255.

e — Redirect the output messages to the channel specified. Default is to output on the input channel. See the User Guidelines of the *Input Message Document* for a list of channel names.

RAW — Print the diagnostic results of every phase. Default will only print the first five failures of any failing phase.

UCL — Unconditionally execute the diagnostic with no early termination. (The execution is a FORCED early termination which will always work if triggered.)

NOTE: The **TLP** and **UCL** keywords should not be used in the same message.

SEE PROPRIETARY NOTICE ON COVER PAGE

`f` Helper peripheral unit bus member number (0 or 1). This parameter can be used when IOUS phases are executed. It is designed to be used in a growth situation to specify the out-of-service bus when diagnosing the new unit.

`g` Execute only the specified phase numbers. May be a single decimal number, a range (e.g., h-i), a list (e.g., h,i,...), or a combination of a range and list. A list or combination must be surrounded by parentheses.

`TLP` Execute the trouble location programs at the conclusion of the diagnostic. These programs generate the suspected faulty equipment message (see the `ANALY:TLPF-TL3` output messages).

NOTE: The **`TLP`** and **`UCL`** keywords should not be used in the same message.

`h` Used to specify which port (0, 1, 2) is to be used for the answer-back feature, in which an ENQ inquiry character is sent on the port specified. Must be used in conjunction with an **`IOUS`** parameter and an **`IOUC`** parameter.

`i` Member number of the input/output microprocessor (**`IOMP`**) to diagnose (0 or 1).

4. SYSTEM RESPONSE

`?R,DPLX FAIL` Insufficient system Resources are available to determine the validity of the message. Diagnostics are not available from the disk system. (Clear the Duplex failure or use `SYSRTPAD/TPAD`.)

`PF` Printout Follows. Followed by a `DGN:IOUS-TEST` output message.

5. REFERENCES

PIDENTs
MIRA
PFLRDGNH
IODG--, where -- equals all valid phase numbers
listed in PIDENT DCONTABL for PREFIX=IODG, UTYP=1XLUIOUS - IOF
I2DG--, where -- equals all valid phase numbers
listed in PIDENT DCONTABL for PREFIX=I2DG, UTYP=1XLUIOUS - IOP

Practice 254-280-040, *Diagnostic Language - DL-1*
Practice 254-280-220, *Diagnostic Programs - Description*

PA-4A002-01, *4ESS™ User's Manual*

Output Messages
`ANALY:TLPF-TL3`
`DGN:IOUS-TEST`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DGN:MUP
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Diagnoses the specified master control complex (MCC) and utility processor (MUP).

2. FORMAT

DGN:MUP a[;[**RPT** b][,**RDT** c][,**RAW**][,**UCL**]][:[**PH** d][,**TLP** [e]]]!

3. EXPLANATION OF MESSAGE

a — Member number of the **MUP** to be diagnosed (0 or 1).

b — Number of times to repeat the diagnostic. Default is one time. Maximum value is 255 times.

c — Redirect the output messages to the channel specified. Default is to output on the input channel. See the User Guidelines of the *Input Message Document* for a list of channel names.

RAW — Print the diagnostic results of every phase. Default will only print the first five failures of any failing phase.

UCL — Unconditionally execute the diagnostic with no early termination. (The exception is a FORCED early termination which will always work if triggered.)

NOTE: The **UCL** keyword, when used with the **TLP** keyword, may negatively impact the ordering of equipment on the trouble location procedure (TLP) list because early termination is used to tune equipment list order.

d — Execute only the specified phase numbers. May be a single decimal number, a range (e.g., d-e), a list (e.g., d,e,...), or a combination of a range and list. A list or combination must be surrounded by parentheses.

TLP — Execute the trouble location programs at the conclusion of the diagnostic if it fails. These programs generate the suspected faulty equipment message (see ANALY:TLPF-SUM and ANALY:TLPF-SUS output messages).

NOTE: Using the **PH** and **TLP** parameters together may produce a misleading equipment list because **TLP** is tuned for all automatic phases running together in sequence.

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e — The first number of failing phases (1-15) used to generate the **TLP** information. The default is 1 and is the value to which the **TLP** is tuned. The TLP information will be for e failing phases or the number of failing phases actually run, whichever is smaller. In many cases the diagnostic will terminate early or fail fewer than e phases.

NOTE: Use of this option (and possibly the **UCL** keyword) can yield a larger, but less precisely ordered, suspect equipment list.

4. SYSTEM RESPONSE

?R,DPLX FAIL — Insufficient system Resources are available to determine the validity of the message. Diagnostics are not available from the disk system. (Clear the Duplex failure or use SYSRTPAD/TPAD.)

PF — Printout Follows. Followed by a DGN:MUP output message.

5. REFERENCES

PIDENTs
MCDG--, where -- = all valid phase numbers
listed in PIDENT DCONTABL for PREFIX=MCDG, UTYPE=1XLUMUP

Practice 254-280-040, *Diagnostic Language - DL-1*
Practice 254-280-220, *Diagnostic Programs - Description*

PA-4A002-01, *4ESS™ User's Manual*

Output Messages
ANALY:TLPF-SUM
ANALY:TLPF-SUS
DGN:MUP

SEE PROPRIETARY NOTICE ON COVER PAGE

WARNING
INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

ID . . . . . DGN:NCLK
WORK CENTER . . MAC, MOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

WARNING
Make sure power is applied on all four chains before entering this request.

1. PURPOSE

Diagnoses the specified network clock (NCLK) chain.

2. FORMAT

```
DGN:NCLK 0,CHAIN a[;[RPT b][,RDT c][,RAW][,UCL]]
      [:[PH d][,TLP]]!
```

3. EXPLANATION OF MESSAGE

a	Chain of the network clock to be diagnosed (0-3).
b	Number of times the diagnostic is repeated. Default is one time. Maximum value is 255.
c	Redirect the output messages to the channel specified. Default is output on the input channel. See the User Guidelines of the *Input Message Document* for a list of channel names.
RAW	Print the diagnostic results of every phase. Default will only print the first five failures of any failing phase.
UCL	Unconditionally execute the diagnostic with no early termination. In addition, unconditionally use potentially faulty out-of-service chains in testing. Exception - Phase 4 will read oscillator's phase and level error status in all four clock chains and terminate if any errors exist. **NOTE:** The **UCL** and **TLP** variables should not be used together.
d	Execute only the specified phase numbers (1-5). May be a single decimal number, a range, or a list.
TLP	Execute the trouble location raw-data compression programs at the conclusion of the diagnostic to print the summary data message and to schedule the trouble-location data base search programs to generate the faulty equipment message.

4. SYSTEM RESPONSE

?R,DPLX FAIL	Insufficient system Resources are available to determine the validity of the message. Diagnostics are not available from the disk system. (Clear the Duplex failure or use SYSRTPAD/TPAD.)

SEE PROPRIETARY NOTICE ON COVER PAGE

`PF` Printout Follows. Followed by the `DGN:NCLK` output message(s).

5. REFERENCES

PIDENT
PUDGNC--

Practice 234-180-020, *Diagnostic Language - DIAL*
Practice 235-180-260, *4ESS™ Peripheral Diagnostic Programs*

PA-4A002-01, *4ESS™ User's Manual*

Output Message
`DGN:NCLK`

SEE PROPRIETARY NOTICE ON COVER PAGE

WARNING
INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

ID . . . . . DGN:PCD
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

WARNING
Use of the unconditional (UCL) option can lead to serious problems, such as interrupts or phases if used during fault conditions. Use of the UCL option is not recommended unless it is absolutely necessary to obtain additional data to repair a hardware problem.

1. PURPOSE

Diagnoses the specified power control distribution (PCD) frame.

2. FORMAT

DGN:PCD a[,{**DAMON 0**|**CONV** b}][;[**RPT** c][,**RDT** d][,**RAW**][,**UCL**]][:**PH** e]!

3. EXPLANATION OF MESSAGE

a	Member number of the **PCD** to be diagnosed (0 or 1).
DAMON 0	Distribution circuit to be diagnosed.
b	Converter member number (0-2).
c	The number of diagnostic repetitions. Default is one time. Maximum value is 255 times.
d	The channel to which the output messages are redirected. Default is to output on the input channel. See the User Guidelines of the *Input Message Document* for a list of channel names.
RAW	Print the diagnostic results of every phase. Default will only print the first five failures of any failing phase.
UCL	Unconditionally execute the diagnostic with no early termination (the exception is a FORCED early termination which will always work if triggered).
e	The specified phase numbers to be executed. May be a single decimal number, a range (e-f), a list (e,f,...), or a combination of a range and list. A list or combination must be surrounded by parentheses.

4. SYSTEM RESPONSE

?R,DPLX FAIL	Insufficient system Resources are available to determine the validity of the message. Diagnostics are not available from the disk system. (Clear the Duplex failure or use SYSRTPAD/TPAD.)
PF	Printout Follows. Followed by a DGN:PCD output message.

SEE PROPRIETARY NOTICE ON COVER PAGE

5. REFERENCES

PIDENTs
MIRA
PDFR
PDDG--, where -- = all valid phase numbers
listed in PIDENT DCONTABL for PREFIX=PDDG, UTYP=1XLUPDF

Practice 254-280-040, *Diagnostic Language - DL-1*
Practice 254-280-220, *Diagnostic Programs - Description*

PA-4A002-01, *4ESS™ User's Manual*

Output Message
`DGN:PCD`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DGN:PS
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Diagnoses the specified program store (PS).

Format [1] is used to diagnose the specified program store.
Format [2] is used to test a specified address range.

2. FORMAT

[1] **DGN:PS** a[;[**RPT** b][,**RDT** c][,**RAW**][,**UCL**]][:[**PH** d][,**TLP** [e]]]!

[2] **DGN:PS** a[;[**RPT** b][,**RDT** c][,**RAW**][,**UCL**]
[:[**PH 97**][,**TSTADR** f][,**L** g][,**HIDATA** h][,**TSTPAT** i][,**TLP** [e]]]!

3. EXPLANATION OF MESSAGE

a — Member number of the **PS** to be diagnosed (0-13).

b — Number of times to repeat the diagnostic. Default is one time. Maximum value is 255 times.

c — Redirect the output messages to the channel specified. Default is to output on the input channel. See the User Guidelines of the *Input Message Document* for a list of channel names.

RAW — Print the diagnostic results of every phase. Default will print only the first five failures of any phase.

UCL — Unconditionally execute the diagnostic with no early termination. (The exception is a FORCED early termination which will always work if triggered.)

NOTE: The **UCL** keyword, when used with the **TLP** keyword, may negatively impact the ordering of equipment on the trouble location procedure (TLP) list because early termination is used to tune equipment list order.

d — The specified phase numbers to be executed, which may be a single decimal number, a range (x-y), a list (x,y,...), or a combination of a range and list. A list or combination must be surrounded by parentheses.

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TLP Execute the trouble location programs at the conclusion of the diagnostic if it fails. These programs generate the suspected faulty equipment message (see ANALY:TLPF-SUM and ANALY:TLPF-SUS output messages).

NOTE: Using the **PH** and **TLP** parameters together may produce a misleading equipment list because **TLP** is tuned for all automatic phases running together in sequence.

e The first number of failing phases (1-15) used to generate the **TLP** information. Default is 1 and is the value to which the **TLP** is tuned. The TLP information will be for e failing phases or the number of failing phases actually run, whichever is smaller. In many cases the diagnostic will terminate early or fail fewer than e phases.

NOTE: Use of this option (and possibly the **UCL** keyword) can yield a larger, but less precisely ordered, suspect equipment list.

f Test address (bits 0 through 19) of the store to be exercised, the variable is any store address in octal. Maximum address is 3777777. Default address is 0.

g Length of consecutive addresses to be exercised. Default length is 1. The length is specified in decimal.

h The 8 data-bit test pattern for the high byte of the address to be used with **TSTADR**. Default value is 0.

i The 24 data-bit test pattern to be used with **TSTADR**. Default is 0.

4. SYSTEM RESPONSE

?R,DPLX FAIL Insufficient system Resources are available to determine the validity of the message. Diagnostics are not available from the disk system. (Clear the Duplex failure or use SYSRTPAD/TPAD.)

PF Printout Follows. Followed by a DGN:PS output message.

5. REFERENCES

PIDENTs
MUDG--, where -- = all valid phase numbers
listed in PIDENT DCONTABL for PREFIX=MUDG, UTYPE=1XLUPS - core store

Practice 254-280-040, *Diagnostic Language - DL-1*
Practice 254-280-220, *Diagnostic Programs - Description*

PA-4A002-01, *4ESS™ User's Manual*

Output Messages
ANALY:TLPF-SUM
ANALY:TLPF-SUS
DGN:PS

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DGN:PSB
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Diagnoses the specified program store bus (PSB).

2. FORMAT

DGN:PSB a[;[**RPT** b][,**RDT** c][,**RAW**][,**UCL**]][:**PH** d][,**TLP**[e]]**!**

3. EXPLANATION OF MESSAGE

a — Member number of the **PSB** to be diagnosed (0 or 1).

b — The number of times the diagnostic is repeated. Default is one time. Maximum value is 255 times.

c — The channel to which the output messages are redirected. Default is to output on the input channel. See the User Guidelines of the *Input Message Document* for a list of channel names.

RAW — Print the diagnostic results of every phase. Default will only print the first five failures of any failing phase.

UCL — Unconditionally execute the diagnostic with no early termination. (The exception is a FORCED early termination which will always work if triggered.)

NOTE: The **UCL** keyword, when used with the **TLP** keyword, may negatively impact the ordering of equipment on the trouble location procedure (TLP) list because early termination is used to tune equipment list order.

d — The phase numbers to be executed, which may be a single decimal number, a range (e.g., d-e), a list (e.g., d,e,...), or a combination of a range and list. A list or combination must be surrounded by parentheses.

TLP — Execute the trouble location programs at the conclusion of the diagnostic if it fails. These programs generate the suspected faulty equipment message (see ANALY:TLPF-SUM and ANALY:TLPF-SUS output messages).

NOTE: Using the **PH** and **TLP** parameters together may produce a misleading equipment list because **TLP** is tuned for all automatic phases running together in sequence.

SEE PROPRIETARY NOTICE ON COVER PAGE

`e` The first number of failing phases (1-15) used to generate the **`TLP`** information. Default is 1 and is the value to which the **`TLP`** is tuned. The TLP information will be for `e` failing phases or the number of failing phases actually run, whichever is smaller. In many cases the diagnostic will terminate early or fail fewer than `e` phases.

NOTE: Use of this option (and possibly the **`UCL`** keyword) can yield a larger, but less precisely ordered, suspect equipment list.

4. SYSTEM RESPONSE

`?R,DPLX FAIL` Insufficient system Resources are available to determine the validity of the message. Diagnostics are not available from the disk system. (Clear the Duplex failure or use `SYSRTPAD/TPAD`.)

`PF` Printout Follows. Followed by a `DGN:PSB` output message.

5. REFERENCES

PIDENT
MBDG01

Practice 254-280-040, *Diagnostic Language - DL-1*
Practice 254-280-220, *Diagnostic Programs - Description*

PA-4A002-01, *4ESS™ User's Manual*

Output Messages
`ANALY:TLPF-SUM`
`ANALY:TLPF-SUS`
`DGN:PSB`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DGN:PUB-RPT
WORK CENTER . . MAC, MOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Diagnoses the specified peripheral unit bus (PUB).

2. FORMAT

DGN:PUB a[;[**RPT** b][,**RDT** c][,**RAW**][,**UCL**]][:[**PH** f][,**GROWTH**][,**TLP**]]!

3. EXPLANATION OF MESSAGE

a — Bus number to be diagnosed (0 or 1).

b — The number of times the diagnostic is to be repeated. Default is one time. Maximum value is 255.

c — The channel to which the output messages are to be redirected. Default is output on the input channel. See the User Guidelines of the *Input Message Document* for a list of channel names.

RAW — Print the diagnostic results of every phase. Default will only print the first five failures of any failing phase.

UCL — Unconditionally execute the diagnostic with no early termination.

NOTE: The **UCL** and **TLP** parameters should not be used together.

f — Execute only the specified phase numbers (1-4). May be a single decimal number, a range, or a list. Specification of phase 1 through 4 will cause PIDENTs PUDGPB01 to PUDGPB04 to be executed.

GROWTH — Test the growth parts in addition to the operational parts.

TLP — Execute the trouble location raw data compression programs at the conclusion of the diagnostic in order to print the summary data message and to schedule the trouble location data base search programs to generate the faulty equipment message.

4. SYSTEM RESPONSE

?R,DPLX FAIL — Insufficient system Resources are available to determine the validity of the message. Diagnostics are not available from the disk system. (Clear the Duplex failure or use SYSRTPAD/TPAD.)

PF — Printout Follows. Followed by the DGN:PUB output message(s).

SEE PROPRIETARY NOTICE ON COVER PAGE

5. REFERENCES

PIDENTs
PUDGPB01
PUDGPB02
PUDGPB03
PUDGPB04

Practice 234-180-020, *Diagnostic Language - DIAL*
Practice 234-180-060, *4ESS™ Peripheral Diagnostic Programs*

PA-4A002-01, *4ESS™ User's Manual*

Output Message
DGN:PUB

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DGN:SCLK-NCSU
WORK CENTER . . MAC, MOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Diagnoses the specified system clock (SCLK).

2. FORMAT

```
DGN:SCLK 0,{IPUB a|CONTR b|NCSU 0}[;[RPT c][,RDT d][,RAW][,UCL]]
      [:[PH e][,TLP][,SCLK 0,NCSU 0][,NCLK 0,CHAIN f]]!
```

3. EXPLANATION OF MESSAGE

a — **SCLK** bus circuitry to be diagnosed (0 or 1). Specifying **IPUB** will effect the bus circuitry diagnosis without removing a controller from service. Only the interface with in-service controllers is diagnosed.

b — Controller to be diagnosed (0 or 1).

c — The number of times the diagnostic is to be repeated. Default is one time. Maximum value is 255.

d — The channel to which the output messages are to be redirected. Default is output on the input channel. See the User Guidelines of the *Input Message Document* for a list of channel names.

RAW — Print the diagnostic results of every phase. Default will only print the first five failures of any failing phase.

UCL — Unconditionally execute the diagnostic with no early termination.

NOTE: The **UCL** and **TLP** parameters should not be used together.

e — Execute only for specified phase numbers (1-4 for **CONTR**, 5 for **IPUB**). May be a single decimal number, a range, or a list. Specification of the following phases will cause the indicated PIDENT to be executed:

PHASE		PIDENT
CONTR	1-4	PUDGSC01-PUDGSC04
IPUB	5	PUDGSC05

TLP — Execute the trouble location raw data compression programs at the conclusion of the diagnostic in order to print the summary data message and to schedule the trouble location data base search programs to generate the faulty equipment message.

NCSU 0 — **NCSU 0** will be diagnosed.

SEE PROPRIETARY NOTICE ON COVER PAGE

SCLK 0,NCSU 0 A helper unit field for the **SCLK** controller diagnostic to provide interface tests on an out-of-service **NCSU**.

NCLK 0,CHAIN f A helper unit field for the **NCSU** diagnostic. It provides **NCLK** interface tests on an **NCLK** chain even if it is out of service or its mate is out of service.

4. SYSTEM RESPONSE

?R,DPLX FAIL Insufficient system Resources are available to determine the validity of the message. Diagnostics are not available from the disk system. (Clear the Duplex failure or use SYSRTPAD/TPAD.)

PF Printout Follows. Followed by the DGN:SCLK output message(s).

5. REFERENCES

PIDENTs
PUDGPB05, if **IPUB** is specified
PUDGSC--, if **CONTR** specified
PUDGSU--, if **NCSU** is specified

Practice 234-180-020, *Diagnostic Language - DIAL*
Practice 234-180-060, *4ESS™ Peripheral Diagnostic Programs*

PA-4A002-01, *4ESS™ User's Manual*

Output Message
DGN:SCLK

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DGN:SCS
WORK CENTER . . MOC
GENERIC . . . . . 4E22 Rel. 4 and later
CLASS . . . . . PMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Diagnoses the specified Service Circuit System (SCS).

2. FORMAT

```
DGN:SCS a,{IPUB b|CONTR c|SCU d}[;[RPT e][,RDT f][,RAW][,UCL]
      [:[PUB g][,PH h][,GROWTH][,TLP]]!
```

3. EXPLANATION OF MESSAGE

a	Member number of the **SCS**.
b	SCS bus circuitry to be diagnosed (0 or 1).
c	Controller to be diagnosed (0 or 1).
d	Service Circuit Unit (**SCU**) to be diagnosed (0-15).
e	The number of times the diagnostic is to be repeated. Default is one time. Maximum value is 255.
f	The channel to which the output messages are redirected. Default is output on the input channel. See the User Guidelines of the *Input Message Document* for a list of channel names.
RAW	Print the diagnostic results of every phase. Default only prints the first five failures of any failing phase. This also applies to the firmware diagnostics.
UCL	Unconditionally execute the diagnostic with no early termination. This also applies to the firmware diagnostics. **NOTE:** The **UCL** and **TLP** parameters should not be used together.
g	The Peripheral Unit Bus (**PUB**) to be used in executing the diagnostic (0 or 1). This input is valid only when **CONTR** is specified and the **SCS** is in growth or special growth.
h	The phase numbers to be executed (1,2,4-7,9,12-16 for CONTR); (1,3-17,90-93 for SCU); 99 for the Interface Peripheral Unit Bus (IPUB), which may be a single decimal number, a range or a list.
GROWTH	Diagnose the growth parts in addition to the operational parts.

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TLP Execute the trouble location raw data compression programs at the conclusion of the diagnostic in order to print the summary data message and to schedule the trouble location data base search programs to generate the faulty equipment message.

4. SYSTEM RESPONSE

`?R,DPLX FAIL` Insufficient system Resources are available to determine the validity of the message. Diagnostics are not available from the disk system. (Clear the Duplex failure or use `SYSRTPAD/TPAD`.)

`PF` Printout Follows. Followed by the `DGN:SCS-`*[unit]* output message.

5. REFERENCES

PIDENTs
PUDGSS01 - PUDGSS02
PUDGSS04 - PUDGSS07
PUDGSS09
PUDGSS12 - PUDGSS16
PUDGSV01
PUDGSV03 - PUDGSV17
PUDGSV90 - PUDGSS97

Practice 234-180-020, *Diagnostic Language - DIAL*
Practice 234-180-260, *4ESS™ Peripheral Diagnostic Program - Description*

Output Message
`DGN:SCS-`*[unit]*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DGN:SP
WORK CENTER . . MAC, MOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Diagnoses the specified signaling processor (SP).

2. FORMAT

```
DGN:SP a,{IPUB b|CONTR c}[;[RPT d][,RDT e][,RAW][,UCL]]
      [:[PUB f][,PH g][,GROWTH][,MML][,MEMORY][,TLP]]!
```

3. EXPLANATION OF MESSAGE

a — Member number of the **SP** to be diagnosed (0-31).

b — SP bus circuitry to be diagnosed (0 or 1). Specifying **IPUB** (interface peripheral unit bus) will effect the bus circuitry diagnosis without removing a controller from service. Only the interface with in-service controllers is diagnosed.

c — Controller to be diagnosed (0 or 1).

d — The number of times the diagnostic is to be repeated. Default is one time. Maximum value is 255.

e — The channel to which the output messages are to be redirected. Default is output on the input channel. See the User Guidelines of the *Input Message Document* for a list of channel names.

RAW — Print the diagnostic results of every phase. Default will only print the first five failures of any failing phase.

UCL — Unconditionally execute the diagnostic with no early termination.

NOTE: The **UCL** and **TLP** parameters should not be used together.

f — The specified peripheral unit bus (0 or 1) to be used in executing the diagnostic. This input is valid only if the SP is in GROWTH or SPECIAL GROWTH.

SEE PROPRIETARY NOTICE ON COVER PAGE

g The specified phase numbers to be executed. (1-21 for **CONTR** and **SP**, 1-22 for **CONTR** and **SP2**, 1-20 for **CONTR** and **CRMTX**, 99 for **IPUB**). May be a single decimal number, a range, or a list. Specification of the following phases for the indicated member type will cause the indicated PIDENT to be executed:

	PHASE	PIDENT
Member type = SP,XL4UMTSP=1 (MT=1)		
CONTR	1-21	PUDGSP01-PUDGSP21
IPUB	99	PUDGSP99
Member type = SP2,XL4UMTSP=2 (MT=2)		
CONTR	1-22	PUDGDP01-PUDGDP22
IPUB	99	PUDGSP99
Member type = CRMTX,XL4UMTSP=4 (MT=4)		
CONTR	1	PUDGSP27
	2,3	PUDGSP02,PUDGSP03
	4	PUDGSP28
	5-14	PUDGSP05-PUDGSP14
	15	PUDGSP29
	16	PUDGSP16
	17-19	PUDGSP30-PUDGSP32
	20	PUDGSP21
IPUB	99	PUDGSP99
Member type = CRMTX,XL4UMTSP=4 (MT=4), XL4UMTHGSPM=1 (SP1CRMTX without MF reception capabilities)		
CONTR	1	PUDGSP27
	2,3	PUDGSP02,PUDGSP03
	4	PUDGSP28
	5-10	PUDGSP05-PUDGSP10
	11	PUDGSP33
	12-14	PUDGSP12-PUDGSP14
	15	PUDGSP29
	16	PUDGSP16
	17-19	PUDGSP30-PUDGSP32
	20	PUDGSP21
IPUB	99	PUDGSP99

GROWTH Diagnose the growth parts in addition to the operational parts.

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MML Execute the full matrix tests which check for nonclassical faults such as shorts between bits. Default is to execute the basic tests. Only the following phases, for the indicated member type, are affected by the **MML** parameter.

Member type=SP
Phases 17, 18, 19, and 20

Member type=SP2
Phases 20, 21

Member type-CRMTX
Phase 1

MEMORY Execute the full memory tests which check for nonclassical faults such as shorts between bits. Default is to execute the basic tests. Only phase 10 is affected when this parameter is specified.

TLP Execute the trouble location raw data compression programs at the conclusion of the diagnostic to print the summary data message and to schedule the trouble location data base search programs to generate the faulty equipment message.

4. SYSTEM RESPONSE

`?R,DPLX FAIL` Insufficient system Resources are available to determine the validity of the message. Diagnostics are not available from the disk system. (Clear the Duplex failure or use `SYSRTPAD/TPAD`.)

`PF` Printout Follows. Followed by the `DGN:SP-PUB` output message(s).

5. REFERENCES

PIDENTs
PUDGDP--, if **CONTR** is specified and unit is an SP2 (MT=2)
PUDGSP--, if **CONTR** is specified (MT=1)
PUDGSP--, if **CONTR** is specified and unit is a CRMTX (MT=4)
PUDGSP99, if **IPUB** is specified

Practice 235-180-020, *Diagnostic Language - DIAL*
Practice 234-180-060, *4ESS™ Peripheral Diagnostic Programs*

PA-4A002-01, *4ESS™ User's Manual*

Output Message
`DGN:SP-PUB`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DGN:SSD
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Diagnoses the specified scan and signal distributor (SSD).

2. FORMAT

DGN:SSD a[;[**RPT** b][,**RDT** c][,**RAW**][,**UCL**]][:[**PH** d][,**TLP**[e]]]!

3. EXPLANATION OF MESSAGE

a — Member number of the SSD to be diagnosed (0 or 1).

b — Number of times to repeat the diagnostic. Default is one time. Maximum value is 255 times.

c — Redirect the output messages to the channel specified. Default is to output on the input channel. See the User Guidelines of the *Input Message Document* for a list of channel names.

RAW — Print the diagnostic results of every phase. Default will only print the first five failures of any failing phase.

UCL — Unconditionally execute the diagnostic with no early termination. (The exception is a FORCED early termination which will always work if triggered.)

NOTE: The **UCL** keyword, when used with the **TLP** keyword, may negatively impact the ordering of equipment on the trouble location procedure (TLP) list because early termination is used to tune equipment list order.

d — Execute only the specified phase numbers. May be a single decimal number, a range (e.g., d-e), a list (e.g., d,e,...), or a combination of a range and list. A list or combination must be surrounded by parentheses.

TLP — Execute the trouble location programs at the conclusion of the diagnostic if it fails. These programs generate the suspected faulty equipment message (see ANALY:TLPF-SUM and ANALY:TLPF-SUS output messages).

NOTE: Using the **PH** and **TLP** parameters together may produce a misleading equipment list because **TLP** is tuned for all automatic phases running together in sequence.

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`e` The first number of failing phases (1-15) used to generate the **`TLP`** information. The default is 1 and is the value to which the **`TLP`** is tuned. The TLP information will be for `e` failing phases or the number of failing phases actually run, whichever is smaller. In many cases the diagnostic will terminate early or fail fewer than `e` phases.

NOTE: Use of this option (and possibly the **`UCL`** keyword) can yield a larger, but less precisely ordered, suspect equipment list.

4. SYSTEM RESPONSE

`?R,DPLX FAIL` Insufficient system Resources are available to determine the validity of the message. Diagnostics are not available from the disk system. (Clear the Duplex failure or use `SYSRTPAD/TPAD`.)

`PF` Printout Follows. Followed by a `DGN:SSD` output message.

5. REFERENCES

PIDENTs
PDDG--, where -- = all valid phase numbers
listed in PIDENT DCONTABL for PREFIX=PDDG, UTYPE=1XLUSSD

Practice 254-280-040, *Diagnostic Language - DL-1*
Practice 254-280-220, *Diagnostic Programs - Description*

PA-4A002-01, *4ESS™ User's Manual*

Output Messages
`ANALY:TLPF-SUM`
`ANALY:TLPF-SUS`
`DGN:SSD`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DGN:TGR
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Diagnose the specified terminal grouping (TGR) or terminal.

2. FORMAT

```
DGN:TGR a,{IPUB b|CONTR c|TER d}[;[RPT e][,RDT f][,RAW][,UCL]]
      [:[PUB g][,PH h][,GROWTH][,TLP][,ERRINJ]]!
```

3. EXPLANATION OF MESSAGE

a — Member number of the **TGR** to be diagnosed (0-15).

b — TGR bus circuitry to be diagnosed (0 or 1). Specifying **IPUB** will effect the bus circuitry diagnosis without removing a controller from service. Only the interface with in-service controllers is diagnosed.

c — Controller to be diagnosed (0 or 1).

d — Terminal to be diagnosed (0-15).

e — The number of times the diagnostic is to be repeated. Default is one time. Maximum value is 255.

f — The channel to which the output messages are to be redirected. Default is output on the input channel. See the User Guidelines of the *Input Message Document* for a list of channel names.

RAW — Print the diagnostic results of every phase. Default will only print the first five failures of any failing phase.

UCL — Unconditionally execute the diagnostic with no early termination.

NOTE: The **UCL** and **TLP** parameters should not be used together.

g — Helper peripheral unit bus (0 or 1) to be used. This input is only valid if the **CONTR** is specified and TGR is in GROWTH or SPECIAL GROWTH.

GROWTH — Diagnose the growth parts in addition to the operational parts.

TLP — Execute the trouble location raw data compression programs at the conclusion of the diagnostic to print the summary data message and to schedule the trouble location data base search programs to generate the faulty equipment message.

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h — The specified phase numbers to be executed (1-4 for **CONTR**, 99 for **IPUB**, and the phases listed for **TER**). May be a single decimal number, a range, a list, or a combination of a range and a list. A list or combination must be enclosed in parentheses. If this parameter is specified, execution will be from the start of the phase.

Specification of the following phases will cause the indicated PIDENT to be executed.

	PHASE		PIDENT
	CONTR	1-4	PUDGTA01-PUDGTA04
	IPUB	99	PUDGTA99
(Automatic)	TER	1-15,	PUDGTE01-PUDGTE15
(Automatic)	TER	17-19	PUDGTE17-PUDGTE19
(Manual)	TER	90-91	PUDGTE90-PUDGTE91

NOTE: Specifying **RAW** or **UCL** will automatically run TER phases 1-15 and 17-19. TER phases 90 and 91 must be manually requested.

NOTE: TER phase 17 tests for the enhanced CCIS data link (ECDL), and a failure in this phase is meaningless unless previous phases 1-13 have run all tests passed (ATP). Phase 18 runs a terminal/modem interface test for 4800 bps enchanced data link modem terminal. Phase 19 runs tests on the terminal/modem/VFL access for ECDL. Phase 90 must be manually requested and is used in testing VFLs (voice frequency links in CCITT No. 6). Phase 91 must also be manually requested and is used to demand a long sync (rekey) of EDCL link.

ERRINJ — Enable error inject test mode. This parameter applies only when **TER** is specified and only applies to TER phase 90.

4. SYSTEM RESPONSE

?R,DPLX FAIL — Insufficient system Resources are available to determine the validity of the message. Diagnostics are not available from the disk system. (Clear the Duplex failure or use SYSRTPAD/TPAD.)

PF — Printout Follows. Followed by the DGN:TGR-PUB output message(s).

5. REFERENCES

PIDENTs
PUDGTA--, if **CONTR** is specified
PUDGTA99, if **IPUB** is specified
PUDGTE--, if **TER** is specified

SEE PROPRIETARY NOTICE ON COVER PAGE

Practice 234-180-020, *Diagnostic Language - DIAL*
Practice 234-180-260, *4ESS™ Peripheral Diagnostic Program - Description*

PA-4A002-01, *4ESS™ User's Manual*

Output Message
`DGN:TGR-PUB`

SEE PROPRIETARY NOTICE ON COVER PAGE

WARNING
INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

ID . . . . . DGN:TMSP
WORK CENTER . . MAC, MOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

WARNING

TMSP Phase 9 Usage Warning:
The Time Multiplexed Switch Pair (`TMSP`) phase 9 diagnostic phase runs automatically when a request to diagnose a `TMSP` controller is entered. Without Time Slot Interchange (TSI) helper units being specified, phase 9 attempts to configure and test all possible combinations of TSI controllers as Transmit TSI (`TTSI`) and Receive TSI (`RTSI`) helper units. In a live office, this leaves the `TMSP` simplexed and vulnerable to an outage for an extended period of time. Also, phase 9 invoked in this manner is not particularly effective in revealing unsuspected problems. The recommended diagnostic procedure is to specify phases 1-8 on the command line, and run phase 9 only to test and debug a specific hardware path implicated by test failures in other phases, or error messages.

1. PURPOSE

Diagnose the specified Time Multiplexed Switch Pair (**`TMSP`**).

`TMSP` Phase 9 unusual or unexpected behavior:

1. Specifying only a **`TTSI`** or only an **`RTSI`** on the diagnostic command line will cause the diagnostic to attempt to configure and test all possible TSIs as the other type of TSI helper unit. This is not recommended, for the reasons given in the **WARNING**.
2. The recommended format for the **`TMSP`** phase 9 diagnostic command is to specify both a **`TTSI`** and an **`RTSI`**. This will restrict testing to the four combinations of controllers for these two TSIs. Normally, this will result in the appearance of four `IN PROGRESS` messages showing the TSI controller configurations tested, and the diagnostic will complete All Tests Passed (ATP). However, if one of the specified TSI's controllers is Out Of Service (OOS), that controller will not be seized for testing, nor will it's Active mate controller. Therefore, no tests will be performed, and no `IN PROGRESS` messages will appear. The diagnostic will complete with a state of Conditional All Tests Passed (CATP).

   NOTE 1: Repeating this command, and specifying the OOS TSI controller as a Transmit TSI Controller (**`TCONTR`**) or an Receive TSI Controller (**`RCONTR`**), as appropriate, will cause the OOS controller to be seized for testing. This will result in two `IN PROGRESS` messages, and a final diagnostic status of ATP.

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NOTE 2: Specifying all four TSI parameters, **TTSI**, **TCONTR**, **RTSI**, and RCONTR, will restrict the testing to one path. This will result in one IN PROGRESS message, and a final diagnostic status of ATP.

3. The status on the IN PROGRESS message, ATP, CATP, or Some Tests Failed (STF), has caused confusion for some users who have interpreted it as the "results" of the "subset" of diagnostic tests that triggered the printing of the IN PROGRESS message. Using that interpretation, an IN PROGRESS message with a status of ATP, followed by all remaining IN PROGRESS messages having a status of CATP, does not seem reasonable. The correct interpretation is that the status field on the IN PROGRESS message presents the "current" view of the "final" status of the diagnostic phase. The Diagnostic phase "final" status is determined by the following rules as imposed by the diagnostic control structure:

   I. If the diagnostic terminates without running a single test, and there is no CATP flag set, then the final status is No Tests Run (NTR).

      NOTE: In this case, if a CATP flag were set, the final status would be CATP rather than NTR.

   II. If the diagnostic terminates after running at least one test, there were no test failures, and there is no CATP flag set, then the final status is ATP.

   III. If the diagnostic terminates after running at least one test, and there were no test failures, but there is at least one CATP flag set, then the final status is CATP.

   IV. If the diagnostic terminates after running at least one test, and there was at least one test failure, then the final status is STF.

4. There is no "up front" check on the equipage of the TSIs specified on the phase 9 diagnostic command line. If an unequipped TSI member number is specified on the command line, the diagnostic will run, but no tests will be performed and no IN PROGRESS messages will be printed because the non-existent TSI cannot be seized. If a non-recommended form of the phase 9 request is used, the TMSP could be simplexed for a considerable period of time.

5. If a out of range TSI member number is specified (>63) for one of the TSI helper units on the TMSP phase 9 command line, the diagnostic will attempt to utilize the TSI helper unit whose member number is the specified member number module 64. Example: TSI 65 would be translated to TSI 1. Results would depend on whether the translated member number is valid in the office where the diagnostic is being run.

2. FORMAT

```
DGN:TMSP a,{CONTR b|C0IPUB c|C1IPUB d}[;[RPT e][,RDT f][,RAW]
      [,UCL]][:[PUB g][,PH h][,GROWTH][,MEMORY [i]][,LEVEL j]
      [,SWITCH k][,TLP][,CONTR l][,TTSI m][,TCONTR n][,RTSI o]
      [,RCONTR p][,OPTION q]]!
```

SEE PROPRIETARY NOTICE ON COVER PAGE

3. EXPLANATION OF MESSAGE

a — Member number of the **TMSP** to be diagnosed (0-3).

b — Controller to be diagnosed (0-1).

c — Time Multiplexed Switch (TMS) bus circuitry to be diagnosed (0-1). Specifying **C0IPUB** will effect the bus circuitry diagnosis without removing a controller from service. Only the interface with in-service controllers is diagnosed.

d — TMS bus circuitry to be diagnosed (0-1). Specifying **C1IPUB** will effect the bus circuitry diagnosis without removing a controller from service. Only the interface with in-service controllers is diagnosed.

e — Number of times the diagnostic is repeated. Default is one time. Maximum value is 255.

f — Redirect the output messages to the channel specified. Default is output on the input channel. See the User Guidelines of the *Input Message Document* for a list of channel names.

RAW — Print the diagnostic results of every phase. Default will only print the first five failures of any failing phase.

UCL — Unconditionally execute the diagnostic with no early termination.

NOTE: The **UCL** and **TLP** variables should not be used together.

g — Execute the diagnostic using the specified peripheral unit bus (0-1).

h — Execute only the specified phase numbers (1-9 for **CONTR**, 99 for **IPUB**). May be a single decimal number, a range, or a list. Specification of the following phases will cause the indicated PIDENTs to be executed:

PHASE		PIDENT
CONTR	1-9	PUDGTG01-PUDGTG09
IPUB	99	PUDGTG99

GROWTH — Diagnose the growth parts in addition to the operational parts.

MEMORY [i] — Test the specified memory. May be a single octal number (0-177). If no number is specified, all equipped memories will be tested. Only phase 5 is affected when this parameter is specified.

j — Test the specified crosspoint level. May be a single octal number (0-17). Default is that all equipped switches are tested. Only phase 8 is affected when this parameter is specified.

k — Test the specified crosspoint switch. May be a single octal number (0-17). Default is that all equipped switches are tested. Only phase 8 is affected when this parameter is specified.

SEE PROPRIETARY NOTICE ON COVER PAGE

TLP Execute the trouble location raw data compression programs at the conclusion of the diagnostic to print the summary data message and to schedule the trouble location data base search programs to generate the faulty equipment message.

l Execute the diagnostic using the specified Time Slot Interchange (TSI) controllers. This parameter specifies which TSI controllers will be used by phase 8 as helpers. If defaulted, the standby controllers are used when possible.

m Member number of the TSI to be used as the transmit TSI (0-63). Only phase 9 is affected when this parameter is specified.

n Transmit TSI controller (0-1). Only phase 9 is affected when this parameter is specified.

o Member number of the TSI to be used as the receive TSI (0-63). Only phase 9 is affected when this parameter is specified.

p Receive TSI controller (0-1). Only phase 9 is affected when this parameter is specified.

q A 2-digit number to specify whether regular phase 9 or super phase 9 is to be run, to start tests from specified helper member(s), and to specify the holding time for each path set up in the diagnostic. The 2-digit number q is interpreted as xy:

x = 0 for regular phase 9
1 for super phase 9
2 for regular phase 9 plus continue option
3 for super phase 9 plus continue option

y = 0 for 100-ms holding times
1 for 500-ms holding times
2 for 1-second holding times
3 for 1-minute holding times

4. SYSTEM RESPONSE

?R,DPLX FAIL Insufficient system Resources are available to determine the validity of the message. Diagnostics are not available from the disk system. (Clear the Duplex failure or use SYSRTPAD/TPAD.)

PF Printout Follows. Followed by the DGN:TMSP-*[unit]* output message(s).

5. REFERENCES

PIDENTs
PUDGTG01-09, if **CONTR** is specified
PUDGTG99, if **C0IPUB** or **C1IPUB** is specified

SEE PROPRIETARY NOTICE ON COVER PAGE

Practice 234-180-020, *Diagnostic Language - DIAL*
Practice 234-180-260, *4ESS™ Peripheral Diagnostic Program - Description*

PA-4A002-01, *4ESS™ User's Manual*

Output Messages

```
DGN:TMSP-CONTR
DGN:TMSP-ILL
DGN:TMSP-NOT
DGN:TMSP-PH
DGN:TMSP-PUB
DGN:TMSP-TERM
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DGN:TSI
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E21 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Diagnose the specified Time Slot Interchange (**TSI**).

NOTE: The **UCL** and **TLP** keywords should not be used together.

2. FORMAT

```
DGN:TSI a,{IPUB b|CONTR c}[;[RPT d][,RDT e][,RAW][,UCL]]
      [:[PUB f][,PH g][,GROWTH][,COAX h][,TLP]]!
```

3. EXPLANATION OF MESSAGE

a — Member number of the **TSI** (0-63). Only even member numbers are valid for TSI-B.

b — **TSI** bus circuitry to be diagnosed (0 or 1). Specifying Interface Peripheral Unit Bus (**IPUB**) will effect the bus circuitry diagnosis without removing a controller from service. Only the interface with in-service controllers is diagnosed.

c — Controller to be diagnosed (0 or 1).

d — Number of times the diagnostic is repeated (1 - 255). Default = 1.

e — Redirect the output messages to the channel specified. Default is output on the input channel. See the User Guidelines of the *Input Message Document* for a list of channel names.

RAW — Print the diagnostic results of every phase. Default will only print the first five failures of any failing phase.

UCL — Unconditionally execute the diagnostic with no early termination.

f — Execute the diagnostic using the specified Peripheral Unit Bus (**PUB**) (0 or 1). The inputting of this variable must be to the active **PUB**. If it is not, the message aborts.

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g — Execute only specified phase numbers (1-15, 1-23 for TSI-B frames, **CONTR**, 99 for **IPUB**). May be a single decimal number, a range, or a list. Specification of the following phases will cause the indicated PIDENTs to be executed:

PHASE		PIDENT
CONTR	1-15	PUDGTI01-PUDGTI15
CONTR	1-23	PUDGTS01-PUDGTS23
IPUB	99	PUDGTI99

GROWTH — Diagnose all helper interface circuitry if frame equipage is in a state less than operational.

h — Execute the DS-120 ESU loop tests over the specified out-of-service port in addition to the in-service ports.

TLP — Execute the trouble location raw data compression programs at the conclusion of the diagnostic to print the summary data message and to schedule the trouble location data base search programs to generate the faulty equipment message.

4. SYSTEM RESPONSE

?R,DPLX FAIL — Insufficient system Resources are available to determine the validity of the message. Diagnostics are not available from the disk system. (Clear the Duplex failure or use SYSRTPAD/TPAD.)

PF — Printout Follows. Followed by the DGN:TSI-*[unit]* output message(s).

5. REFERENCES

PIDENTs
PUDGTI--

Practice 234-180-220, *Audit System Programs Description*
Practice 234-180-260, *4ESS™ Peripheral Diagnostic Program - Description*

PA-4A002-01, *4ESS™ User's Manual*

Output Message
DGN:TSI-ILL
DGN:TSI-NOT
DGN:TSI-PUB
DGN:TSI-TERM
DGN:TSI-TEST

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DGN:VIF
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Diagnoses the specified voiceband interface frame (VIF).

2. FORMAT

```
DGN:VIF a,{IPUB h|CONTR b|VIU c}[;[RPT d][,RDT e][,RAW][,UCL]]
      [:[PUB f][,PH g][,GROWTH][,PSW]]!
```

3. EXPLANATION OF MESSAGE

a — Member number of the **VIF** (0-127).

h — VIF bus circuitry to be diagnosed.

b — Controller to be diagnosed (0 or 1). Unless the mate controller has power removed, both controllers will be simultaneously diagnosed.

c — Voiceband interface unit (**VIU**) to be diagnosed (0-7).

d — The number of times the diagnostic is repeated. Default is one time. Maximum value is 255.

e — The channel to which the output messages are redirected. Default is output on the input channel. See the User Guidelines of the *Input Message Document* for a list of channel names.

RAW — Print the diagnostic results of every phase. Default only prints the first five failures of any failing phase.

UCL — Unconditionally execute the diagnostic with no early termination.

f — The peripheral unit bus (PUB) to be used in executing the diagnostic (0 or 1). This input is valid only when **CONTR** is specified and the VIF is in GROWTH or SPECIAL GROWTH.

g — The phase numbers to be executed (1-23 for **CONTR**, 1-13 for **VIU**, 1-5 for **IPUB**), which may be a single decimal number, a range, or a list. Specification of the following phases will cause the indicated PIDENTs to be executed:

PHASE		PIDENT
CONTR	1-23	PUDGVC01-PUDGVC23
VIU	1-13	PUDGVU01-PUDGBU13
IPUB	1-5	PUDGVC01-PUDGVC05

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GROWTH Diagnose the growth parts in addition to the operational parts.

PSW Execute protection switch (**PSW**) tests.

NOTE: **PSW** applies only when **CONTR** is specified. Only phase 22 is affected when this parameter is specified and **PH 22** must be specified.

4. SYSTEM RESPONSE

?R,DPLX FAIL Insufficient system Resources are available to determine the validity of the message. Diagnostics are not available from the disk system. (Clear the Duplex failure or use SYSRTPAD/TPAD.)

PF Printout Follows. Followed by the DGN:VIF-PUB output message(s).

5. REFERENCES

PIDENTs
PUDGVC--, if **CONTR** is specified
PUDGVC--, if **IPUB** is specified
PUDGVU--, if **VIU** is specified

Practice 234-180-020, *Diagnostic Language - DIAL*
Practice 234-180-260, *4ESS™ Peripheral Diagnostic Program - Description*

PA-4A002-01, *4ESS™ User's Manual*

Output Message
DGN:VIF-PUB

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DGN:XPWR
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Diagnoses the specified miscellaneous power (XPWR) unit.

2. FORMAT

DGN:XPWR a[;[**RPT** b][,**RDT** c][,**RAW**][,**UCL**]][:[**PH** d][,**TLP**[e]]]!

3. EXPLANATION OF MESSAGE

a — Member number of the **XPWR** to be diagnosed (0 or 1).

b — Number of times to repeat the diagnostic. Default is one time. Maximum value is 255 times.

c — Redirect the output messages to the channel specified. Default is to output on the input channel. See the User Guidelines of the *Input Message Document* for a list of channel names.

RAW — Print the diagnostic results of every phase. Default will only print the first five failures of any failing phase.

UCL — Unconditionally execute the diagnostic with no early termination. (The exception is a FORCED early termination which will always work if triggered.)

NOTE: The **UCL** keyword, when used with the **TLP** keyword, may negatively impact the ordering of equipment on the trouble location procedure (TLP) list because early termination is used to tune equipment list order.

d — Execute only the specified phase numbers. May be a single decimal number, a range (e.g., d-e), a list (e.g., d,e,...), or a combination of a range and list. A list or combination must be surrounded by parentheses.

TLP — Execute the trouble location programs at the conclusion of the diagnostic if it fails. These programs generate the suspected faulty equipment message (see ANALY:TLPF-SUM and ANALY:TLPF-SUS output messages).

NOTE: Using the **PH** and **TLP** parameters together may produce a misleading equipment list because **TLP** is tuned for all automatic phases running together in sequence.

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e — The first number of failing phases (1-15) used to generate the **TLP** information. The default is 1 and is the value to which the **TLP** is tuned. The TLP information will be for e failing phases or the number of failing phases actually run, whichever is smaller. In many cases the diagnostic will terminate early or fail fewer than e phases.

NOTE: Use of this option (and possibly the **UCL** keyword) can yield a larger, but less precisely ordered, suspect equipment list.

4. SYSTEM RESPONSE

?R,DPLX FAIL — Insufficient system Resources are available to determine the validity of the message. Diagnostics are not available from the disk system. (Clear the Duplex failure or use SYSRTPAD/TPAD.)

PF — Printout Follows. Followed by a DGN:XPWR output message.

5. REFERENCES

PIDENTs
XPDG--, where -- = all valid phase numbers
listed in PIDENT DCONTABL for PREFIX=XPDG, UTYPE=1XLUXPWR

Practice 254-280-040, *Diagnostic Language - DL-1*
Practice 254-280-220, *Diagnostic Programs - Description*

PA-4A002-01, *4ESS™ User's Manual*

Output Messages
ANALY:TLPF-SUM
ANALY:TLPF-SUS
DGN:XPWR

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DGN:XTSI
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E24 Rel. 2 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Diagnose the specified Expanded Time Slot Interchange (**XTSI**).

NOTE: The **UCL** and **TLP** keywords should not be used together.

2. FORMAT

```
DGN:XTSI a,{IPUB b|CONTR c|D3U d|SPU e|IBU 0}[;[RPT f][,RDT g]
      [,RAW] [,UCL]][:[PUB h][,PH i][,GROWTH][,TLP]]!
```

3. EXPLANATION OF MESSAGE

a	Member number of the **XTSI** (0-63). Only even member numbers are valid for Expanded Time Slot Interchange (**XTSI**) frames.
b	**XTSI** bus circuitry to be diagnosed (0-1). Specifying Interface Peripheral Unit Bus (**IPUB**) will effect the bus circuitry diagnosis without removing a controller from service. Only the interface with in-service controllers is diagnosed.
c	Controller to be diagnosed (0-1).
d	Digital Signal Level 3 Unit (**D3U**) to be diagnosed (0-7).
e	Signal Processing Unit (**SPU**) to be diagnosed (0-11).
f	Number of times the diagnostic is repeated (1-255). Default = 1.
g	Redirect the output messages to the channel specified. Default is output on the input channel. See the User Guidelines of the *Input Message Document* for a list of channel names.
RAW	Print the diagnostic results of every phase. Default will only print the first five failures of any failing phase.
UCL	Unconditionally execute the diagnostic with no early termination.
h	Execute the diagnostic using the specified Peripheral Unit Bus (**PUB**) (0-1). The inputting of this variable must be to the active **PUB**. If it is not, the message aborts.
IBU	In-Band Unit.

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`i` Execute only specified phase numbers (1,2,4,5,6,7,9, 12-19,23,25,27,29, 40,41,90 for **XTSI** frames **CONTR**, 99 for **IPUB**, 1-19,90-91 for **D3U**, 1-19,21 for **SPU**, 1-12,14-15 for **IBU**). May be a single decimal number, a range, or a list. Specification of the following phases will cause the indicated PIDENTs to be executed:

	PHASE NUMBERS	PIDENT
CONTR	1,2,4,5,6,7,9, 12-19,23,25, 27,29,40,41,90	PUDGXT01-PUDGXT90
IPUB	99	PUDGXT99
D3U	1-19,90-91	PUDGDS01-PUDGDS91
SPU	1-19,21	PUDGXS01-PUDGXS21
IBU	1-12,14-15	PUDGIB01-PUDGIB15

GROWTH Diagnose all helper interface circuitry if frame equipage is in a state less than operational.

TLP Execute the trouble location raw data compression programs at the conclusion of the diagnostic to print the summary data message and to schedule the trouble location data base search programs to generate the faulty equipment message.

4. SYSTEM RESPONSE

`?R,DPLX FAIL` Insufficient system Resources are available to determine the validity of the message. Diagnostics are not available from the disk system. (Clear the Duplex failure or use `SYSRTPAD/TPAD`.)

`PF` Printout Follows. Followed by the `DGN:XTSI-`*[unit]* output message(s).

5. REFERENCES

PIDENTs
PUDGXT--, for XTSI controller pidents
PUDGDS--, for D3U pidents
PUDGXS--, for SPU pidents
PUDGIB--, for IBU pidents

Practice 234-180-220, *Audit System Programs Description*
Practice 234-180-260, *4ESS™ Peripheral Diagnostic Program - Description*

PA-4A002-01, *4ESS™ User's Manual*

Output Message
`DGN:XTSI-`*[unit]*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID DUMP:A1B
WORK CENTER . . MAC, MOC, NMOC, TEC, TOC
GENERIC . . . . . 4E21 and later
CLASS . . . . . ALL
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Causes the specified number of words from main memory to be printed on the Teletypewriter (TTY). Output format default will be octal.

DUMP from main memory may be used to print data collected on base level (Format [1]), G level resulting from a generic utility flag (`WHEN:[X]ADR`) (Format [2]), or after interrupts (Format [3]).

If the On Condition (**OC**) parameter is used (Format [3]), the input message `CLR:IDUMP` or `CLR:UTIL` can be used to remove the OC flag.

Format [1] is used to dump any core address data collected on base level.
Format [2] is used to dump any core address data collected on G-level resulting from a generic utility flag (see the `WHEN:[X]ADR` input message).
Format [3] is used to dump any core address data collected after interrupts.

2. FORMAT

[1]
```
DUMP:A1B,{[INDIR a,|XSINDIR b,ID c,]{ADR d|XADR e}
|INDIR a,UMEM f}
[,INC g]
[,SIZE h,DISP i]
[,L j]
[;{BIN|DEC}]!
```

[2]
```
DUMP:A1B,{[INDIR a,|XSINDIR b[,ID c,]]{ADR d|XADR e}
|INDIR a,UMEM f
|INDIR a,kREG|XSINDIR b,kREG}
[,INC g]
[,SIZE h,DISP i]
[,L j]
[;{BIN|DEC}]!
```

[3]
```
DUMP:A1B,{[INDIR a,|XSINDIR b[,ID c],]{ADR d|XADR e}
|INDIR a,UMEM f
|INDIR a,kREG|XSINDIR b,kREG}
[,INC g]
[,L j]
;OC{l|m}!
```

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3. EXPLANATION OF MESSAGE

A1B	Any 1B core memory address.
a	Number of levels of indirect addressing (0-7). Default value is 0.
b	Number of levels of indirect addressing (0-2). Default value is 0. See NOTES 1 and 2.
c	File system ID tag. (Must be in file segments 1 through 3 since this is used for extended memory access.)
d	Eight digit octal address. Address bits that are not specified will be zero filled but bits 23-29, Transition Address Register (TAR), will always be set to ones.
e	Ten digit address. Upper bits that are not specified will be zero filled. Default type is octal.
f	Utility memory indicator (0-7).
g	Increment added to address after all levels of indirectness have been calculated (-17777 - +17777). Default value is 0. Default type is octal.
h	Size of mask (1 - 24). Default type is decimal. Default value is 24.
i	Displacement of mask (0 - 23). Default type is decimal. Default value is 0.
j	Number of locations to be printed (1 - 128). Default type is decimal. Default value is 1. Binary dumps are limited to 64 locations.
k	One of the following list of Central Control (CC) register mnemonics: B, F, G, J, K, L, X, Y, Z.
l	One or more of the following list of interrupt source mnemonics: APUFS, CLIS, CSDS, ELS, IFDS, KL0S, ORDS, PADS, PCBS, PSBS, PUFS, SCDS. If more than one source is specified, the list must be enclosed in parentheses and separated by commas. Use input message `CLR:IDUMP` to remove the OC flag.
m	One or more of the following list of interrupt level mnemonics: BLEV, CLEV, DLEV, ELEV, FLEV, KLEV. If more than one level is specified, the list must be enclosed in parentheses and separated by commas. Use the `CLR:IDUMP` input message to remove the OC flag.
BIN	Output data printed in binary. Default type is octal.
DEC	Output data printed in decimal. Default type is octal.

NOTE 1: **XSINDIR** NUM,**ID** TAG,[**X**]**ADR** NUM input (Base and G-Level):
The contents of the specified address will be used as the disk offset along with the ID tag to determine the extended store address.

NOTE 2: [**XSINDIR** NUM,x**REG**] or [**XSINDIR** NUM,[**X**]**ADR** NUM] input (G-Level only):
The contents of the register or address specified MUST be a window address. The window for this window address must have been previously enabled in order to access the extended store address.

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4. SYSTEM RESPONSE

`?I,CODE 031`	Identification field contains an error. Utility Scratch Memory (UMEM) indicator number specified is not 0, 1, 2, 3, 4, 5, 6, or 7.
`?I,CODE 035`	Identification field contains an error. Number of words to be dumped exceeds maximum.
`?I,CODE 043`	Identification field contains an error. Address increment exceeds O'17777.
`?I,CODE 044`	Identification field contains an error. Mask specified by **SIZE** and **DISP** is invalid. (**SIZE** + **DISP** > D'24 is invalid).
`?I,CODE 118`	Identification field contains an error. Keyword **ADR** is invalid for accessing extended store.
`?I,CODE 119`	Identification field contains an error. Keyword **INDIR** is invalid for accessing extended store.
`?R,DPLX FAIL`	Insufficient system Resources are available to determine the validity of the message. Generic Utility Program (GULP) cannot be paged to parse the message because the file system is duplex failed.
`NG,CODE 125`	No Good. Invalid **ID** tag for accessing extended store.
`NG,CODE 188`	No Good. Address specified is not equipped.
`PF,CODE 050`	Printout will conditionally follow. This acknowledgement is used if file system is duplex failed and GULP is being paged from tape.
`PF,CODE 091`	Printout will conditionally follow. If message is in a utility flag or is within a utility data set, printout will follow if flag is encountered or if data set is executed.
`RL,CODE 180`	Retry Later. Execution of GULP function is in progress.
`RL,CODE 181`	Retry Later. Message processing in progress.
`RL,CODE 182`	Retry Later. Data set input mode in progress on another channel.
`RL,CODE 183`	Retry Later. Data set execution is in progress.
`RL,CODE 185`	Retry Later. No General Buffer Table (GBT) available or GULP cannot be paged.

5. REFERENCES

PIDENTs
GULPUTPP
GULPUTXP
GULRUTCR

SEE PROPRIETARY NOTICE ON COVER PAGE

Input Messages

```
CLR:IDUMP
CLR:UTIL
WHEN:ADR
WHEN:XADR
```

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ID . . . . . DUMP:CC
WORK CENTER . . MOC
GENERIC . . . . . 4E21 and later
CLASS . . . . . ALL
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Causes data resident in certain Central Control (CC) ACTIVE or STANDBY buffer bus locations to be printed on the Teletypewriter (TTY). Active buffer bus addresses begin at **XADR** 7777776000. Standby buffer bus addresses begin at **XADR** 7777776400.

NOTE: For both active and standby buffer bus addresses, the first octal 200 locations are not used.

2. FORMAT

DUMP:CC,{ADR a|**XADR** b}[,**INC** c][,**SIZE** d,**DISP** e][,**L** f][;{**BIN**|**DEC**}]**!**

3. EXPLANATION OF MESSAGE

a	Eight digit octal address. Address bits that are not specified will be zero filled but bits 23-29, Transition Address Register (TAR), will always be set to ones.
b	Ten digit address. Upper bits that are not specified will be zero filled. Default type is octal.
c	Increment added to address. Default value is 0.
d	Size of mask (1 - 24) Default type is decimal. Default value is 24.
e	Displacement of mask (0 - 23) Default type is decimal. Default value is 0.
f	Number of locations to be printed (1 - 128) Default type is decimal. Default value is 1. Binary dumps are limited to 64 locations.

4. SYSTEM RESPONSE

?I,CODE 035	Identification field contains an error. Number of words to be dumped exceeds 128.
?I,CODE 043	Identification field contains an error. Address increment exceeds 0'17777.
?I,CODE 044	Identification field contains an error. Mask specified by **SIZE** and **DISP** is invalid. (**SIZE** and **DISP** >D'24 is invalid.)
?R,DPLX FAIL	Insufficient system Resources are available to determine the validity of the message. Generic Utility Program (GULP) cannot be paged to parse the message because the file system is duplex failed.

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`NG,CODE 188`	No Good. Address specified is not equipped.
`PF,CODE 050`	Printout will conditionally follow. This acknowledgement is used if file system is duplex failed and GULP is being paged from tape.
`PF,CODE 091`	Printout will conditionally follow.
`RL,CODE 180`	Retry Later. Execution of GULP function is in progress.
`RL,CODE 181`	Retry Later. Message processing in progress.
`RL,CODE 182`	Retry Later. Data set input mode in progress on another channel.
`RL,CODE 183`	Retry Later. Data set execution is in progress.
`RL,CODE 185`	Retry Later. No General Buffer Table (GBT) available or GULP cannot be paged.

5. REFERENCES

PIDENTs
GULPUTPP
GULPUTXP
GULRUTCR

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ID . . . . . DUMP:CS
WORK CENTER . . MAC, MOC, NMOC, TEC, TOC
GENERIC . . . . . 4E21 and later
CLASS . . . . . ALL
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Causes the specified number of words from main memory to be printed on the Teletypewriter (TTY). Output format default will be octal.

DUMP from main memory may be used to print data collected on base level (format [1]), G level resulting from a generic utility flag (`WHEN:[X]ADR`) (format [2]), or after interrupts (format [3]).

If the On Condition (**OC**) parameter is used (format [3]), the input message `CLR:IDUMP` or `CLR:UTIL` can be used to remove the OC flag.

Format [1] is used to dump nonsecure Call Store (CS) data collected on base level.
Format [2] is used to dump CS data collected on G-level resulting from a generic utility flag (see the `WHEN:[X]ADR` input message).
Format [3] is used to dump CS data collected after interrupts.

2. FORMAT

[1]
```
DUMP:CS,{[INDIR a,]{ADR b|XADR c}
|INDIR a,UMEM d}
[,INC e]
[,SIZE f,DISP g]
[,L h]
[;{BIN|DEC}]!
```

[2]
```
DUMP:CS,{[INDIR a,]{ADR b|XADR c}
|INDIR a,UMEM d
|INDIR a,iREG}
[,INC e]
[,SIZE f,DISP g]
[,L h]
[;{BIN|DEC}]!
```

[3]
```
DUMP:CS,{[INDIR a,]{ADR b|XADR c}
|INDIR a,UMEM d
|INDIR a,iREG}
[,INC e]
[,L h]
;OC{j|k}!
```

SEE PROPRIETARY NOTICE ON COVER PAGE

3. EXPLANATION OF MESSAGE

CS	Nonsecure call store.
a	Number of levels of indirect addressing (0-7). Default value is 0.
b	Eight digit octal address. Address bits that are not specified will be zero filled but bits 23-29, Transition Address Register (TAR), will always be set to ones.
c	Ten digit address. Upper bits that are not specified will be zero filled. Default type is octal.
d	Utility memory indicator (0-7).
e	Increment added to address after all levels of indirectness have been calculated (-17777 - +17777). Default value is 0. Default type is octal.
f	Size of mask (1 - 24). Default type is decimal. Default value is 24.
g	Displacement of mask (0 - 23). Default type is decimal. Default value is 0.
h	Number of locations to be printed (1 - 128). Default type is decimal. Default value is 1. Binary dumps are limited to 64 locations.
i	One of the following list of Central Control (CC) register mnemonics: B, F, G, J, K, L, X, Y, Z.
j	One or more of the following list of interrupt source mnemonics: APUFS, CLIS, CSDS, ELS, IFDS, KL0S, ORDS, PADS, PCBS, PSBS, PUFS, SCDS. If more than one source is specified, the list must be enclosed in parentheses and separated by commas. Use input message `CLR:IDUMP` to remove the OC flag.
k	One or more of the following list of interrupt level mnemonics: BLEV, CLEV, DLEV, ELEV, FLEV, KLEV. If more than one level is specified, the list must be enclosed in parentheses and separated by commas. Use the `CLR:IDUMP` input message to remove the OC flag.
BIN	Output data printed in binary. Default type is octal.
DEC	Output data printed in decimal. Default type is octal.

4. SYSTEM RESPONSE

`?I,CODE 031`	Identification field contains an error. Utility Scratch Memory (UMEM) indicator number specified is not 0, 1, 2, 3, 4, 5, 6, or 7.
`?I,CODE 035`	Identification field contains an error. Number of words to be dumped exceeds maximum.
`?I,CODE 043`	Identification field contains an error. Address increment exceeds O'17777.
`?I,CODE 044`	Identification field contains an error. Mask specified by **SIZE** and **DISP** is invalid. (**SIZE** + **DISP** > D'24 is invalid).

SEE PROPRIETARY NOTICE ON COVER PAGE

`?R,DPLX FAIL`	Insufficient system Resources are available to determine the validity of the message. Generic Utility Program (GULP) cannot be paged to parse the message because the file system is duplex failed.
`NG,CODE 188`	No Good. Address specified is not equipped.
`PF,CODE 050`	Printout will conditionally follow. This acknowledgement is used if file system is duplex failed and GULP is being paged from tape.
`PF,CODE 091`	Printout will conditionally follow. If message is in a utility flag or is within a utility data set, printout will follow if flag is encountered or if data set is executed.
`RL,CODE 180`	Retry Later. Execution of GULP function is in progress.
`RL,CODE 181`	Retry Later. Message processing in progress.
`RL,CODE 182`	Retry Later. Data set input mode in progress on another channel.
`RL,CODE 183`	Retry Later. Data set execution is in progress.
`RL,CODE 185`	Retry Later. No General Buffer Table (GBT) available or GULP cannot be paged.

5. REFERENCES

PIDENTs
- GULPUTPP
- GULPUTXP
- GULRUTCR

Input Messages
- `CLR:IDUMP`
- `CLR:UTIL`
- `WHEN:ADR`
- `WHEN:XADR`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DUMP:CSS
WORK CENTER . . MAC, MOC, NMOC, TEC, TOC
GENERIC . . . . . 4E21 and later
CLASS . . . . . ALL
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Causes the specified number of words from main memory to be printed on the Teletypewriter (TTY). Output format default will be octal.

DUMP from main memory may be used to print data collected on base level (format [1]), G level resulting from a generic utility flag (`WHEN:[X]ADR`) (format [2]), or after interrupts (format [3]).

If the On Condition (**OC**) parameter is used (format [3]), the input message `CLR:IDUMP` or `CLR:UTIL` can be used to remove the OC flag.

Format [1] is used to dump Call Store Secure (CSS) data collected on base level.
Format [2] is used to dump CSS data collected on G-level resulting from a generic utility flag (see the `WHEN:[X]ADR` input message).
Format [3] is used to dump CSS data collected after interrupts.

2. FORMAT

[1]
```
DUMP:CSS,{[INDIR a,]{ADR b|XADR c}
|INDIR a,UMEM d}
[,INC e]
[,SIZE f,DISP g]
[,L h]
[;{BIN|DEC}]!
```

[2]
```
DUMP:CSS,{[INDIR a,]{ADR b|XADR c}
|INDIR a,UMEM d
|INDIR a,iREG}
[,INC e]
[,SIZE f,DISP g]
[,L h]
[;{BIN|DEC}]!
```

[3]
```
DUMP:CSS,{[INDIR a,]{ADR b|XADR c}
|INDIR a,UMEM d
|INDIR a,iREG}
[,INC e]
[,L h]
;OC{j|k}!
```

SEE PROPRIETARY NOTICE ON COVER PAGE

3. EXPLANATION OF MESSAGE

CSS	Call store secure.
a	Number of levels of indirect addressing (0-7). Default value is 0.
b	Eight digit octal address. Address bits that are not specified will be zero filled but bits 23-29, Transition Address Register (TAR), will always be set to ones.
c	Ten digit address. Upper bits that are not specified will be zero filled. Default type is octal.
d	Utility memory indicator (0-7).
e	Increment added to address after all levels of indirectness have been calculated (-17777 - +17777). Default value is 0. Default type is octal.
f	Size of mask (1 - 24). Default type is decimal. Default value is 24.
g	Displacement of mask (0 - 23). Default type is decimal. Default value is 0.
h	Number of locations to be printed (1 - 128). Default type is decimal. Default value is 1. Binary dumps are limited to 64 locations.
i	One of the following list of Central Control (CC) register mnemonics: B, F, G, J, K, L, X, Y, Z.
j	One or more of the following list of interrupt source mnemonics: APUFS, CLIS, CSDS, ELS, IFDS, KL0S, ORDS, PADS, PCBS, PSBS, PUFS, SCDS. If more than one source is specified, the list must be enclosed in parentheses and separated by commas. Use input message `CLR:IDUMP` to remove the OC flag.
k	One or more of the following list of interrupt level mnemonics: BLEV, CLEV, DLEV, ELEV, FLEV, KLEV. If more than one level is specified, the list must be enclosed in parentheses and separated by commas. Use the `CLR:IDUMP` input message to remove the OC flag.
BIN	Output data printed in binary. Default type is octal.
DEC	Output data printed in decimal. Default type is octal.

4. SYSTEM RESPONSE

`?I,CODE 031`	Identification field contains an error. Utility Scratch Memory (UMEM) indicator number specified is not 0, 1, 2, 3, 4, 5, 6, or 7.
`?I,CODE 035`	Identification field contains an error. Number of words to be dumped exceeds maximum.
`?I,CODE 043`	Identification field contains an error. Address increment exceeds O'17777.
`?I,CODE 044`	Identification field contains an error. Mask specified by **SIZE** and **DISP** is invalid. (**SIZE** + **DISP** > D'24 is invalid).

SEE PROPRIETARY NOTICE ON COVER PAGE

`?R,DPLX FAIL`	Insufficient system Resources are available to determine the validity of the message. Generic Utility Program (GULP) cannot be paged to parse the message because the file system is duplex failed.
`NG,CODE 188`	No Good. Address specified is not equipped.
`PF,CODE 050`	Printout will conditionally follow. This acknowledgement is used if file system is duplex failed and GULP is being paged from tape.
`PF,CODE 091`	Printout will conditionally follow. If message is in a utility flag or is within a utility data set, printout will follow if flag is encountered or if data set is executed.
`RL,CODE 180`	Retry Later. Execution of GULP function is in progress.
`RL,CODE 181`	Retry Later. Message processing in progress.
`RL,CODE 182`	Retry Later. Data set input mode in progress on another channel.
`RL,CODE 183`	Retry Later. Data set execution is in progress.
`RL,CODE 185`	Retry Later. No General Buffer Table (GBT) available or GULP cannot be paged.

5. REFERENCES

PIDENTs
- GULPUTPP
- GULPUTXP
- GULRUTCR

Input Messages
- `CLR:IDUMP`
- `CLR:UTIL`
- `WHEN:ADR`
- `WHEN:XADR`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DUMP:DIF
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Dumps a range of E-Store, M-Store, or U-Store of a digital interface frame-export 1 (DIF-E1).

2. FORMAT

DUMP:DIF a,[**CONTR** b,]c d-e!

3. EXPLANATION OF MESSAGE

a	DIF-E1 member number.
b	Controller (active if defaulted).
c	U-Store number (USN) or M-Store number (MSN) or E-Store number (ESN).
d	First store number - start address.
e	Last store number - end address. (e-d ≤ 5000, in octal)

4. SYSTEM RESPONSE

PF,CODE 091	Printout will conditionally follow.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DUMP:DIF-BUF
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Dumps the digital interface frame-export 1 (DIF-E1) buffer.

2. FORMAT

DUMP:DIF a,[**CONTR** b,]**BUF** c!

3. EXPLANATION OF MESSAGE

a DIF-E1 member number.

b Controller number (0 or 1). Default is the active controller.

c Buffer number:

0 — Unused.

1 — Unused.

2 — Digit buffer.

3 — Unused.

4 — Unused.

5 — Low priority buffer.

6 — High priority buffer.

7 — Seizure buffer.

10 — Unused.

11 — Unused.

12 — Unused.

13 — Maintenance buffer.

4. SYSTEM RESPONSE

PF,CODE 091 Printout will conditionally follow.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DUMP:DIF-CREG
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Dumps the Digital Interface Frame-Export 1 (DIF-E1) critical registers.

2. FORMAT

DUMP:DIF a**,CREG!**

3. EXPLANATION OF MESSAGE

a	DIF-E1 member number.

4. SYSTEM RESPONSE

PF,CODE 091	Printout will conditionally follow.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DUMP:DIF-DIU
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Dumps the maintenance data for the particular Digital Interface Unit (DIU).

2. FORMAT

DUMP:DIF a,[**CONTR** b,]**DIU** c,**IREG!**

3. EXPLANATION OF MESSAGE

a	Digital Interface Frame-Export 1 (DIF-E1) member number.
b	Controller (0 or 1). Default is the active controller.
c	DIU (0-33).

4. SYSTEM RESPONSE

PF,CODE 091	Printout will conditionally follow.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DUMP:DIF-EXCRAM
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Dumps a range of executive buffer random access memory (EXCRAM) from the domestic digital interface frame (DIF-E1[D]), or from the digital interface frame-export 1 (DIF-E1).

2. FORMAT

DUMP:DIF a,[**CONTR** b,]**EXCRAM** c-d!

3. EXPLANATION OF MESSAGE

a	DIF-E1(D) or DIF-E1 member number.
b	Controller (0 or 1). Default is the active controller.
c	Starting memory address (0-1777, in octal); (d-c ≤ 10, in octal).
d	Last memory address (0-1777, in octal); (d-c ≤ 10, in octal).

4. SYSTEM RESPONSE

PF,CODE 091	Printout will conditionally follow.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

Input Message
LOAD:DIF-EXCRAM

Output Message
DUMP:DIF-EXCRAM

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DUMP:DIF-IREG
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Dumps the internal registers of the specified Digital Interface Frame-Export 1 (DIF-E1).

2. FORMAT

DUMP:DIF a**,IREG!**

3. EXPLANATION OF MESSAGE

a	DIF-E1 member number.

4. SYSTEM RESPONSE

PF,CODE 091	Printout will conditionally follow.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DUMP:DIF-MAPRT
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Dumps a range of the map rate table (MAPRT) memory from the domestic digital interface frame (DIF-E1[D]), or from the digital interface frame-export 1 (DIF-E1).

2. FORMAT

DUMP:DIF a,[**CONTR** b,]**MAPRT** c-d!

3. EXPLANATION OF MESSAGE

a	DIF-E1(D) or DIF-E1 member number.
b	Controller (0 or 1). Default is the active controller.
c	Starting memory address (0-177, in octal); (d-c ≤ 10, in octal).
d	Last memory address (0-177, in octal); (d-c ≤ 10, in octal).

4. SYSTEM RESPONSE

PF,CODE 091	Printout will conditionally follow.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

Input Message
LOAD:DIF-MAPRT

Output Message
DUMP:DIF-MAPRT

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DUMP:DIF-MEM
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Dumps a range of memory from the digital interface frame-export 1 (DIF-E1) memory.

2. FORMAT

DUMP:DIF a,[**CONTR** b,]**MEM** c-d!

3. EXPLANATION OF MESSAGE

a	DIF-E1 member number.
b	Controller (0 or 1). Default is the active controller.
c	First memory address to dump.
d	Last memory address to dump (d-c ≤ 600, in octal).

4. SYSTEM RESPONSE

PF,CODE 091	Printout will conditionally follow.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DUMP:DIF-PTSRPS
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Dumps a range of P-bit trunk status rate pointer store (PTSRPS) memory from the domestic digital interface frame (DIF-E1[D]), or from the digital interface frame-export 1 (DIF-E1).

2. FORMAT

DUMP:DIF a,[**CONTR** b,]**PTSRPS** c-d!

3. EXPLANATION OF MESSAGE

a	DIF-E1(D) or DIF-E1 member number.
b	Controller (0 or 1). Default is the active controller.
c	Starting memory address (0-7777, in octal); (d-c ≤ 10, in octal).
d	Last memory address (0-7777, in octal); (d-c ≤ 10, in octal).

4. SYSTEM RESPONSE

PF,CODE 091	Printout will conditionally follow.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

Input Message
LOAD:DIF-PTSRPS

Output Message
DUMP:DIF-PTSRPS

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DUMP:DIF-PTSS
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Dumps a range of P-bit trunk status store (PTSS) memory from the domestic digital interface frame (DIF-E1[D]), or from the digital interface frame-export 1 (DIF-E1).

2. FORMAT

DUMP:DIF a,[**CONTR** b,]**PTSS** c-d!

3. EXPLANATION OF MESSAGE

a	DIF-E1(D) or DIF-E1 member number.
b	Controller (0 or 1). Default is the active controller.
c	Starting memory address (0-7777, in octal); (d-c $\leq$ 10, in octal).
d	Last memory address (0-7777, in octal); (d-c $\leq$ 10, in octal).

4. SYSTEM RESPONSE

PF,CODE 091	Printout will conditionally follow.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

Input Message
LOAD:DIF-PTSS

Output Message
DUMP:DIF-PTSS

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DUMP:DIF-SPSTS
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Dumps a range of signaling processor state translator store (SPSTS) memory from the domestic digital interface frame (DIF-E1[D]), or from the digital interface frame-export 1 (DIF-E1).

2. FORMAT

DUMP:DIF a,[**CONTR** b,]**SPSTS** c-d!

3. EXPLANATION OF MESSAGE

a	DIF-E1(D) or DIF-E1 member number.
b	Controller (0 or 1). Default is the active controller.
c	Starting memory address (0-27777, in octal); (d-c ≤ 10, in octal).
d	Last memory address (0-27777, in octal); (d-c ≤ 10, in octal).

4. SYSTEM RESPONSE

PF,CODE 091	Printout will conditionally follow.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

Input Message
LOAD:DIF-SPSTS

Output Message
DUMP:DIF-SPSTS

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DUMP:DIF-SPTSS
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Dumps a range of signaling processor trunk status store (SPTSS) memory from the domestic digital interface frame (DIF-E1[D]), or from the digital interface frame-export 1 (DIF-E1).

2. FORMAT

DUMP:DIF a,[**CONTR** b,]**SPTSS** c-d!

3. EXPLANATION OF MESSAGE

a	DIF-E1(D) or DIF-E1 member number.
b	Controller (0 or 1). Default is the active controller.
c	Starting memory address (0-7777, in octal); (d-c ≤ 10, in octal).
d	Last memory address (0-7777, in octal); (d-c ≤ 10, in octal).

4. SYSTEM RESPONSE

PF,CODE 091	Printout will conditionally follow.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

Input Message
LOAD:DIF-SPTSS

Output Message
DUMP:DIF-SPTSS

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DUMP:DIF-TBIT
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Dumps a range of TBITS for a digital interface frame-export 1 (DIF-E1).

2. FORMAT

DUMP:DIF a,[**CONTR** b,]**TBIT** c-d!

3. EXPLANATION OF MESSAGE

a	DIF-E1 member number (0-33).
b	Controller (0 or 1). Default is the active controller.
c	First **TBIT** to dump.
d	Last **TBIT** to dump (d-c $\leq$ 200, in octal.)

4. SYSTEM RESPONSE

PF,CODE 091	Printout will conditionally follow.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DUMP:DISK-SCS
WORK CENTER . . MOC
GENERIC . . . . . 4E22 Rel. 4 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Dumps up to 64 words (16 bits per word) of hexadecimal data starting at the designated location of the specified Service Circuit Unit (SCU).

2. FORMAT

DUMP:DISK;SCS a,**SCU** b,**DSK** c[,**BUS** d]{,**FILE** e|,**RAW**},**HADR (**f1,f2**)**[,**L** g]**!**

3. EXPLANATION OF MESSAGE

a — Service Circuit System (**SCS**) member number (0-7).

b — **SCU** member number (0-15).

c — SCU disk pair number (0-1). This specifies the SCU disk pair the data will be read from.

d — SCU disk bus number (0-1). This specifies from which disk of the disk pair the data will be read from. The default value is bus 0.

e — SCU file descriptor number (1-42).

f1,f2 — Starting address on the disk. The address is either 24 bits (for file dump) or 32 bits (for raw dump). The address is in hexadecimal which should be broken into two 16 bit words (f1 is the high address and f2 is the low address).

NOTE: The low byte of the low address (i.e., the least two significant hexadecimal characters) plus the length minus one should be less than or equal to 0xFF.

g — Number of 16 bit words to be read from the disk. The number of words is in decimal and its default value is 1 word (1-64).

4. SYSTEM RESPONSE

?D — Data field contains an error. The SCU disk dump request has been denied. An expected keyword argument is missing.

?I — Identification field contains an error. The SCU disk dump request has been denied for one of the following reasons:
An expected keyword is missing.
A keyword argument is out-of-range.
An invalid argument was used.
Too many keywords or arguments.

SEE PROPRIETARY NOTICE ON COVER PAGE

PF	Printout Follows. The SCU disk dump request is accepted. An output message will follow to indicate the status of SCU disk dump request.
RL	Retry Later. The SCU disk dump request has been denied. Too many tasks in progress.

5. REFERENCES

PIDENT
SCSFPUMP

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DUMP:DT-CREG
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Prints the contents of the critical registers for the specified digroup terminal (DT).

2. FORMAT

DUMP:DT a,**CREG!**

3. EXPLANATION OF MESSAGE

a **DT** member number (0-127).

4. SYSTEM RESPONSE

PF,CODE 091 Printout will conditionally follow.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DUMP:DT-IREG
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Dumps the contents of the internal registers for the specified digroup terminal (DT).

2. FORMAT

DUMP:DT a,**IREG!**

3. EXPLANATION OF MESSAGE

a	DT member number (0-127).

4. SYSTEM RESPONSE

PF,CODE 091	Printout will conditionally follow.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DUMP:EST-CREG
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Dumps a predetermined group of registers from both controllers of an echo suppressor terminal (EST).

2. FORMAT

DUMP:EST a**,CREG!**

3. EXPLANATION OF MESSAGE

a **EST** member number.

4. SYSTEM RESPONSE

PF,CODE 091 Printout will conditionally follow.

5. REFERENCES

PIDENT
PULPESTU

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DUMP:EST-ESU
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Dumps the specified range of a trunk status store word on a specified echo suppressor unit (ESU).

2. FORMAT

DUMP:EST a,[**CONTR** b,]**ESU** c,**TSMEM** d-e!

3. EXPLANATION OF MESSAGE

a	Echo suppressor terminal (**EST**) member number.
b	Controller (0 or 1).
c	**ESU** number.
d	First trunk status memory (TSMEM) to dump. Bits 0 through 6 contain memory address; bits 7 through 10 contain the **ESU** number (c value).
e	Last **TSMEM** to dump (where e-d ≤ 200, in octal). Bits 0 through 6 contain memory address; bits 7 through 10 contain the **ESU** number (c value).

4. SYSTEM RESPONSE

PF,CODE 091	Printout will conditionally follow.

5. REFERENCES

PIDENT
PULPESTU

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DUMP:EST-MEM
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Dumps both error source registers associated with each of the 16 echo suppressor units (ESUs).

2. FORMAT

DUMP:EST a,[**CONTR** b,]**LLMEM!**

3. EXPLANATION OF MESSAGE

a	Echo suppressor terminal (**EST**) member number.
b	Controller (0 or 1).

4. SYSTEM RESPONSE

PF,CODE 091	Printout will conditionally follow.

5. REFERENCES

PIDENT
PULPESTU

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DUMP:EST-TSMEM
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Dumps the specified trunk status store words.

2. FORMAT

DUMP:EST a,[**CONTR** b,]**ESU** c,**TSMEM** d-e!

3. EXPLANATION OF MESSAGE

a	Echo suppressor terminal (**EST**) member number.
b	Controller (0 or 1).
c	Number of echo suppressor unit (**ESU**).
d	First memory address.
e	Last memory address.

4. SYSTEM RESPONSE

PF	Printout Follows.

5. REFERENCES

PIDENT
PULPESTU

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DUMP:FS
WORK CENTER . . MOC
GENERIC . . . . . 4E24 and later
CLASS . . . . . ALL
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Causes the specified number of words from File System (**FS**) to be printed on the Teletypewriter (TTY).

The start and end address will be range-checked using the given file system ID tag. If only a portion of the 24-bit data words is desired, the corresponding mask may be input. This message may not follow a `WHEN` clause, since file store operations are not performed on G-level.

2. FORMAT

DUMP:FS,ID a,**ADR** b[,**INC** c][,**SIZE** d,**DISP** e][,**L** f][;{**BIN**|**DEC**}]**!**

3. EXPLANATION OF MESSAGE

a — One of the following file system ID mnemonics:

- `FREE0` — Unassigned space in store segment 0.
- `FREE1` — Unassigned space in store segment 1.
- `FREE2` — Unassigned space in store segment 2.
- `FREE3` — Unassigned space in store segment 3.
- `GEN` — Generic.
- `HIST` — Trouble history.
- `LIB` — Library program.
- `MERGE` — Hash sums, maps.
- `NWM` — Network management.
- `ODA` — Office Data Assembler (ODA) data in store segment 0.
- `ODA1` — ODA data in store segment 1.
- `ODA2` — ODA data in store segment 2.
- `ODA3` — ODA data in store segment 3.
- `PGPGM` — Paged program data.
- `OSDATA` — On site data.
- `RCRB` — Recent change rollback.
- `TKMTC` — Trunk maintenance.

SEE PROPRIETARY NOTICE ON COVER PAGE

	`TPM` — Traffic measurement.
	`TRANS` — File store transient data.
	`TRANS2` — ODA data in store segment 2.
	`TRANS3` — ODA data in store segment 3.
`b`	Number of file system address. Default type is octal.
`c`	Increment from number added to address (`-17777` through `+17777`). Default type is octal. Default value is `0`.
`d`	Size of mask (`1-24`). Default type is decimal. Default value is `24`.
`e`	Displacement of mask (`0-32`). Default type is decimal. Default value is `0`.
`f`	Number of locations (`1-128`). Default type is decimal. Default value is `1`. Binary dumps are limited to 64 locations.
`BIN`	Memory dumped in binary format Default type is octal.
`DEC`	Memory dumped in decimal format Default type is octal.

4. SYSTEM RESPONSE

`?I,CODE 035`	Identification field contains an error. Number of words to be dumped exceeds 128. This function cannot be performed on G-level.
`?I,CODE 043`	Identification field contains an error. Address increment exceeds O'17777.
`?I,CODE 044`	Identification field contains an error. Mask specified by **`SIZE`** and **`DISP`** is invalid (**`SIZE`** + **`DISP`** > D'24 is invalid).
`?R,DPLX FAIL`	Insufficient system Resources are available to determine the validity of the message. Generic Utility Program (GULP) cannot be paged to parse the message because the file system is duplex failed.
`NG,CODE 036`	No Good. Request follows a `WHEN` clause.
`PF,CODE 050`	Printout will conditionally follow. This acknowledgement is used if file system files are duplex failed and GULP is being paged from tape.
`PF,CODE 091`	Printout will conditionally follow.
`RL,CODE 180`	Retry Later. Execution of GULP function is in progress.
`RL,CODE 181`	Retry Later. Message processing in progress.
`RL,CODE 182`	Retry Later. Data set input mode in progress on another channel.
`RL,CODE 183`	Retry Later. Data set execution is in progress.
`RL,CODE 184`	Retry Later. Message print in progress.
`RL,CODE 185`	Retry Later. No General Buffer Table (GBT) available or GULP cannot be paged.

SEE PROPRIETARY NOTICE ON COVER PAGE

5. REFERENCES

PIDENTs
GULPUTPP
GULPUTXP
GULRUTCR

Practice 234-301-003 *1B Processor Generic Utility Program (GULP) Application - Description*

PA-4A002-01, *4ESS™ User's Manual*, Generic Utility Section

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DUMP:FS-ACT
WORK CENTER . . MOC
GENERIC . . . . . 4E20 only
CLASS . . . . . ALL
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Causes the specified number of words from File System (FS) to be printed on the Teletypewriter (TTY).

The start and end address will be range-checked using the given file system ID tag. If only a portion of the 24-bit data words is desired, the corresponding mask may be input. This message may not follow a `WHEN` clause, since file store operations are not performed on G-level.

2. FORMAT

`DUMP:FS,ACT,ID` `a`**`,ADR`** `b[`**`,INC`** `c][`**`,SIZE`** `d`**`,DISP`** `e][`**`,L`** `f][;{`**`BIN`**`|`**`DEC`**`}]!`

3. EXPLANATION OF MESSAGE

`ACT` Dump from active file system.

`a` One of the following disk ID mnemonics:

- `FREE0` — Unassigned space in store segment 0.
- `FREE1` — Unassigned space in store segment 1.
- `FREE2` — Unassigned space in store segment 2.
- `FREE3` — Unassigned space in store segment 3.
- `GEN` — Generic.
- `HIST` — Trouble history.
- `LIB` — Library program.
- `MERGE` — Hash sums, maps.
- `NWM` — Network management.
- `ODA` — Office data.
- `PGPGM` — Paged program data.
- `OSDATA` — On site data.
- `RCRB` — Recent change rollback.
- `TKMTC` — Trunk maintenance.
- `TPM` — Traffic measurement.
- `TRANS` — File store transient data.

SEE PROPRIETARY NOTICE ON COVER PAGE

`b`	Number (default type = octal) of file system address.
`c`	Increment from -17777 to 17777 (default type=octal) added to address. Default value = 0.
`d`	Size of mask from 1 to 24 (default type=decimal). Default value = 24.
`e`	Displacement of mask from 0 to 32 (default type=decimal). Default value = 0.
`f`	Number of locations from 1 to 128 (default type=decimal). Default value = 1.
`BIN`	Memory dumped in binary format (default type=octal).
`DEC`	Memory dumped in decimal format (default type=octal).

4. SYSTEM RESPONSE

`?I,CODE 035`	Identification field contains an error. Number of words to be dumped exceeds 128. This function cannot be performed on G-level.
`?I,CODE 043`	Identification field contains an error. Address increment exceeds O'17777.
`?I,CODE 044`	Identification field contains an error. Mask specified by **`SIZE`** and **`DISP`** is invalid (**`SIZE`** + **`DISP`** > D'24 is invalid).
`?R,DPLX FAIL`	Insufficient system Resources are available to determine the validity of the message. Generic Utility Program (GULP) cannot be paged to parse the message because the file system is duplex failed.
`NG,CODE 036`	No Good. Request follows a `WHEN` clause.
`PF,CODE 050`	Printout will conditionally follow. This acknowledgement is used if disk files are duplex failed and GULP is being paged from tape.
`PF,CODE 091`	Printout will conditionally follow.
`RL,CODE 180`	Retry Later. Execution of GULP function is in progress.
`RL,CODE 181`	Retry Later. Message processing in progress.
`RL,CODE 182`	Retry Later. Data set input mode in progress on another channel.
`RL,CODE 183`	Retry Later. Data set execution is in progress.
`RL,CODE 184`	Retry Later. Message print in progress.
`RL,CODE 185`	Retry Later. No General Buffer Table (GBT) available or GULP cannot be paged.

5. REFERENCES

PIDENTs
GULPUTPP
GULPUTXP
GULRUTCR

SEE PROPRIETARY NOTICE ON COVER PAGE

Practice 234-301-003 *1B Processor Generic Utility Program (GULP) Application - Description*

PA-4A002-01, *4ESS™ User's Manual* - Section E2A, Generic Utility Section

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DUMP:IOUS
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Prints the contents of the critical register for the specified input/output (I/O) unit.

2. FORMAT

DUMP:IOUS a**,IOUC** b**,CREG!**

3. EXPLANATION OF MESSAGE

a	I/O unit selector (IOUS) member number (0-7).
b	I/O unit controller (IOUC) member number (0-15).

4. SYSTEM RESPONSE

PF,CODE 091	Printout will conditionally follow.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DUMP:LIBSYS
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Dumps the library client input control block and auxiliary input control block if a client number is specified, or dumps the input control blocks of all client numbers if a client is not specified.

2. FORMAT

`DUMP:LIBSYS``[`**`,CLIENT`** `a]`**`!`**

3. EXPLANATION OF MESSAGE

`a`	Client number (0-7) whose input control block and auxiliary input control block is to be dumped. Default dumps all input control blocks of all client numbers.

4. SYSTEM RESPONSE

`PF`	Printout Follows. Request accepted, followed by a `DUMP:LIBSYS` output message.
`NG,CODE 040`	No Good. Library system not loaded.
`NG,CODE 043`	No Good. Client number out of range or client not active.

5. REFERENCES

PIDENT
LIBRINPT

Practice 254-280-214, *Library Control Program*

Output Message
`DUMP:LIBSYS`

SEE PROPRIETARY NOTICE ON COVER PAGE

WARNING
INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

ID . . . . . DUMP:MEMORY-SCS
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

WARNING
Because this message changes the memory or uses critical resources of the hardware unit, this message should only be used when directed by technical support.

1. PURPOSE

This command dumps (reads) the specified number of words of memory from either the Service Circuit System (SCS) controller or a Service Circuit Unit (SCU).

Format [1] is used to read memory of SCS controllers.
Format [2] is used to read memory of an SCU.

2. FORMAT

[1] **DUMP:MEMORY;SCS** a[,**CONTR** b],{**MRAM** c|**GRAM** d|**LRAM** e}[,**L** f]**!**

[2] **DUMP:MEMORY;SCS** a,**SCU** g,{**MRAM** h|**TRAM** i}[,**L** f]**!**

3. EXPLANATION OF MESSAGE

a — **SCS** member number in decimal (0-7).

b — Controller (0 or 1). Default is the active controller. Controller may not be specified if the frame is duplex or listen-only mode.

c — SCS controller micro-instruction Random Access Memory (RAM) memory address in hexadecimal. Valid range is 0 through FFFF.

d — SCS controller global RAM memory address in hexadecimal. Valid range is 0 through 3FFFF. Any address greater than 16 bits of data is specified in two 16-bit increments. For example, (3,FFFF) represents an address of 3FFFF.

e — SCS controller local RAM memory address in hexadecimal. Valid range is 0 thru FFFF.

f — Number of words to read in decimal (1-128). Default is 1.

g — **SCU** number in decimal (0-15).

h — SCU micro-instruction Read Only Memory (ROM) (0-3FFF)/RAM (4000-BFFF) memory address in hexadecimal. Valid range is 0 - BFFF.

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`i` SCU table RAM memory address in hexadecimal. Valid range is 0 thru FFFFF, where first hex digit is segment number. Any address greater than 16 bits of data (4 characters) is specified in two 16-bit increments. For example, (3,FFFF) represents an address of 3FFFF, location FFFF in segment 3. Default for the segment number is zero.

4. SYSTEM RESPONSE

`PF` Printout Follows. A request will be sent to the frame to read the specified memory. A `DUMP:MEMORY-SCS` output message follows, indicating the results of the request.

5. REFERENCES

PIDENT
SCSBPMEM

Input Message
`LOAD:MEMORY-SCS`

Output Messages
`DUMP:MEMORY-SCS`
`LOAD:MEMORY-SCS`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DUMP:MUP
WORK CENTER . . MOC
GENERIC . . . . . 4E22 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Causes the specified number of words from Master Control Complex (MCC) And Utility Processor (MUP) memory to be printed on the Teletypewriter (TTY).

2. FORMAT

DUMP:MUP,ADR a[**,L** b]**!**

3. EXPLANATION OF MESSAGE

a	An even numbered internal **MUP** address specified in hexadecimal. Only address between 0x0 and 0x0FFFFE, and 0x200000 and 0x3FFFFE are valid.
b	Number of 32-bit words from 1 to 112. Must be in decimal form. Default value = 1.

4. SYSTEM RESPONSE

?I,CODE 035	Identification field contains an error. Number of words to be dumped exceeds 112.
?I,CODE 044	Identification field contains an error. Mask specified by **SIZE** and **DISP** is invalid.
?R,DPLX FAIL	Insufficient system Resources are available to determine the validity of the message. Generic Utility Program (GULP) cannot be paged to parse the input message because the disks are duplex failed.
NG,CODE 036	No Good. Request follows a WHEN clause. This function cannot be performed on G-level.
PF,CODE 091	Printout will conditionally follow.
RL,CODE 180	Retry Later. Execution of GULP function is in progress.
RL,CODE 181	Retry Later. Message processing is in progress.
RL,CODE 182	Retry Later. Data set input mode is in progress on another channel.
RL,CODE 183	Retry Later. Data set execution is in progress.
RL,CODE 184	Retry Later. Message print is in progress.
RL,CODE 185	Retry Later. No General Buffer Table (GBT) available or GULP cannot be paged.

SEE PROPRIETARY NOTICE ON COVER PAGE

5. REFERENCES

PIDENTs
GULPUTPP
GULPUTXP
GULRUTCR

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DUMP:NCLK
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Prints the contents of the critical register for the network clock (NCLK).

2. FORMAT

`DUMP:NCLK 0,CREG!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`PF,CODE 091` Printout will conditionally follow.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DUMP:PSS
WORK CENTER . . MAC, MOC, NMOC, TEC, TOC
GENERIC . . . . . 4E21 and later
CLASS . . . . . ALL
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Causes the specified number of words from main memory to be printed on the Teletypewriter (TTY). Output format default will be octal.

DUMP from main memory may be used to print data collected on base level (format [1]), G level resulting from a generic utility flag (`WHEN:[X]ADR`) (format [2]), or after interrupts (format [3]).

If the On Condition (**OC**) parameter is used (format [3]), the input message `CLR:IDUMP` or `CLR:UTIL` can be used to remove the OC flag.

Format [1] is used to dump Program Store Secure (PSS) data collected on base level.
Format [2] is used to dump PSS data collected on G-level resulting from a generic utility flag (see the `WHEN:[X]ADR` input message).
Format [3] is used to dump PSS data collected after interrupts.

2. FORMAT

[1]
```
DUMP:PSS,{[INDIR a,]{ADR b|XADR c}
|INDIR a,UMEM d}
[,INC e]
[,SIZE f,DISP g]
[,L h]
[;{BIN|DEC}]!
```

[2]
```
DUMP:PSS,{[INDIR a,]{ADR b|XADR c}
|INDIR a,UMEM d
|INDIR a,iREG}
[,INC e]
[,SIZE f,DISP g]
[,L h]
[;{BIN|DEC}]!
```

[3]
```
DUMP:PSS,{[INDIR a,]{ADR b|XADR c}
|INDIR a,UMEM d
|INDIR a,iREG}
[,INC e]
[,L h]
;OC{j|k}!
```

SEE PROPRIETARY NOTICE ON COVER PAGE

3. EXPLANATION OF MESSAGE

PSS	Program store secure.
a	Number of levels of indirect addressing (0-7). Default value is 0.
b	Eight digit octal address. Address bits that are not specified will be zero filled but bits 23-29, Transition Address Register (TAR), will always be set to ones.
c	Ten digit address. Upper bits that are not specified will be zero filled. Default type is octal.
d	Utility memory indicator (0-7).
e	Increment added to address after all levels of indirectness have been calculated (-17777 - +17777). Default value is 0. Default type is octal.
f	Size of mask (1 - 24). Default type is decimal. Default value is 24.
g	Displacement of mask (0 - 23). Default type is decimal. Default value is 0.
h	Number of locations to be printed (1 - 128). Default type is decimal. Default value is 1. Binary dumps are limited to 64 locations.
i	One of the following list of Central Control (CC) register mnemonics: B, F, G, J, K, L, X, Y, Z.
j	One or more of the following list of interrupt source mnemonics: APUFS, CLIS, CSDS, ELS, IFDS, KL0S, ORDS, PADS, PCBS, PSBS, PUFS, SCDS. If more than one source is specified, the list must be enclosed in parentheses and separated by commas. Use input message `CLR:IDUMP` to remove the OC flag.
k	One or more of the following list of interrupt level mnemonics: BLEV, CLEV, DLEV, ELEV, FLEV, KLEV. If more than one level is specified, the list must be enclosed in parentheses and separated by commas. Use the `CLR:IDUMP` input message to remove the OC flag.
BIN	Output data printed in binary. Default type is octal.
DEC	Output data printed in decimal. Default type is octal.

4. SYSTEM RESPONSE

`?I,CODE 031`	Identification field contains an error. Utility Scratch Memory (UMEM) indicator number specified is not 0, 1, 2, 3, 4, 5, 6, or 7.
`?I,CODE 035`	Identification field contains an error. Number of words to be dumped exceeds maximum.
`?I,CODE 043`	Identification field contains an error. Address increment exceeds O'17777.
`?I,CODE 044`	Identification field contains an error. Mask specified by **SIZE** and **DISP** is invalid. (**SIZE** + **DISP** > D'24 is invalid).

SEE PROPRIETARY NOTICE ON COVER PAGE

`?R,DPLX FAIL`	Insufficient system Resources are available to determine the validity of the message. Generic Utility Program (GULP) cannot be paged to parse the message because the file system is duplex failed.
`NG,CODE 188`	Address specified is not equipped.
`PF,CODE 050`	Printout will conditionally follow. This acknowledgement is used if file system is duplex failed and GULP is being paged from tape.
`PF,CODE 091`	Printout will conditionally follow. If message is in a utility flag or is within a utility data set, printout will follow if flag is encountered or if data set is executed.
`RL,CODE 180`	Retry Later. Execution of GULP function is in progress.
`RL,CODE 181`	Retry Later. Message processing in progress.
`RL,CODE 182`	Retry Later. Data set input mode in progress on another channel.
`RL,CODE 183`	Retry Later. Data set execution is in progress.
`RL,CODE 185`	Retry Later. No General Buffer Table (GBT) available or GULP cannot be paged.

5. REFERENCES

PIDENTs
- GULPUTPP
- GULPUTXP
- GULRUTCR

Input Messages
- `CLR:IDUMP`
- `CLR:UTIL`
- `WHEN:ADR`
- `WHEN:XADR`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DUMP:REG
WORK CENTER . . MOC
GENERIC . . . . . 4E21 and later
CLASS . . . . . ALL
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Prints the contents of one or more central control (CC) registers. It is meaningful in the active system only after a `WHEN:[X]ADR` input message. The register values are fetched from the interrupt bins in the active system. If **`SIZE`** and **`DISP`** are input, only the bits specified by the mask are printed (right adjusted).

2. FORMAT

`DUMP:{ALL|aREG[,aREG]}[,SIZE b,DISP c]!`

3. EXPLANATION OF MESSAGE

`a`	One or more of the following register mnemonics: B, F, G, J, K, L, X, Y, Z. If more than one variable is input, they must be separated by a comma.
`ALL`	Display all CC registers.
`b`	Size of mask (1-24). Default type is decimal. Default value is 24.
`c`	Displacement of mask (0-23) from right-adjusted position Default type is decimal. Default value is 0.

4. SYSTEM RESPONSE

`?I,CODE 044`	Identification field contains an error. Mask specified by **`SIZE`** and **`DISP`** is invalid (**`SIZE`** + **`DISP`** > D'24 is invalid).
`?R,DPLX FAIL`	Insufficient system Resources are available to determine the validity of the message. Generic utility program (GULP) cannot be paged to parse the message because the file system is duplex failed.
`NG,CODE 188`	No Good. Address specified is not equipped.
`PF,CODE 050`	Printout will conditionally follow. This acknowledgement is used if file system is duplex failed and GULP is being paged from tape.
`PF,CODE 091`	Printout will conditionally follow.
`RL,CODE 180`	Retry Later. Execution of GULP function is in progress.
`RL,CODE 181`	Retry Later. Message processing is in progress.
`RL,CODE 182`	Retry Later. Data set input mode is in progress on another channel.
`RL,CODE 183`	Retry Later. Data set execution is in progress.
`RL,CODE 185`	Retry Later. No general buffer table (GBT) available or GULP cannot be paged.

SEE PROPRIETARY NOTICE ON COVER PAGE

5. REFERENCES

PIDENTs
GULPUTPP
GULPUTXP
GULRUTCR

Input Messages
`WHEN:ADR`
`WHEN:XADR`

Output Message
`DUMP:CC`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DUMP:SCLK
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Prints the contents of the critical registers for the system clock (SCLK).

2. FORMAT

`DUMP:SCLK 0,CREG!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`PF,CODE 091` Printout will conditionally follow.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DUMP:SCLK-NCSU
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Dumps a range of memory from the network clock synchronization unit (NCSU) through the system clock (SCLK) controller.

2. FORMAT

DUMP:SCLK 0,CONTR a**,NCSU 0,MEM** b-c**!**

3. EXPLANATION OF MESSAGE

a	Active SCLK controller.
b	First memory address to dump.
c	Last memory address to dump (c-b ≤ 200, in octal).

4. SYSTEM RESPONSE

PF,CODE 091	Printout will conditionally follow.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DUMP:SCS
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Format [1] dumps the Service Circuit System (SCS) frame CREG or IREG registers.
Format [2] dumps the Service Circuit Unit (SCU) IREG registers.

2. FORMAT

[1] **DUMP:SCS** a,[**CREG**|**IREG**]**!**

[2] **DUMP:SCS** a,[**CONTR** b,]**SCU** c,**IREG**]**!**

3. EXPLANATION OF MESSAGE

a	**SCS** member number.
b	Controller number (0 or 1).
c	**SCU** member number (0-15).

4. SYSTEM RESPONSE

PF,CODE 091	Printout will conditionally follow.

5. REFERENCES

PIDENTs
PULPDFSS
PULPMAIN

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DUMP:SP
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Dumps the specified matrix range in the specified signaling processor (SP).

2. FORMAT

DUMP:SP a,b c-d!

3. EXPLANATION OF MESSAGE

a	**SP** member number (0-31).
b	MDN — Miscellaneous distributor number.
	MSN — Miscellaneous scanner number.
	PP
	TDN — Trunk distributor number.
	TSN — Trunk scanner number.
c	First point to be dumped.
d	Last point to be dumped; c and d are complete 17-bit addresses of MDN, MSN, PP, TDN, TSN.

4. SYSTEM RESPONSE

PF,CODE 091	Printout will conditionally follow.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DUMP:SP-BUF
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Prints the buffer for the specified signaling processor (SP).

2. FORMAT

DUMP:SP a[,**CONTR** b],**BUF** c!

3. EXPLANATION OF MESSAGE

a **SP** member number (0-31).

b Controller number (0-1).

c

	Buffer Dumped	Size of Buffer
0	Dial pulse in worklist	128 words
1	Dial pulse out worklist	128 words
2	Digit buffer	128 words
3	Multi-frequency (MF) reception worklist	32 words
4	MF out worklist	32 words
5	Low-priority buffer	32 words
6	High-priority buffer	8 words
7	Seizure buffer	8 words
(SP2 ONLY)		
10	Digroup terminal (DT) start words	16 words
11	Outgoing DT maintenance message halves	32 words
12	Incoming DT maintenance message halves	32 words

4. SYSTEM RESPONSE

PF,CODE 091 Printout will conditionally follow.

SEE PROPRIETARY NOTICE ON COVER PAGE

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DUMP:SP-CREG
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Prints the critical registers for the specified signaling processor (SP).

2. FORMAT

DUMP:SP a,**CREG!**

3. EXPLANATION OF MESSAGE

a **SP** member number (0-31).

4. SYSTEM RESPONSE

PF,CODE 091 Printout will conditionally follow.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DUMP:SP-IREG
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Prints the internal registers for the specified signaling processor (SP).

2. FORMAT

DUMP:SP a,**IREG!**

3. EXPLANATION OF MESSAGE

a **SP** member number (0-31).

4. SYSTEM RESPONSE

PF,CODE 091 Printout will conditionally follow.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DUMP:SP-MEM
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Dumps the specified memory range for the specified signaling processor (SP).

2. FORMAT

DUMP:SP a[,**CONTR** b],**MEM** c-d!

3. EXPLANATION OF MESSAGE

a	**SP** member number (0-31).
b	Controller number (0-1).
c	First address to be dumped.
d	Last address to be dumped (d ≤ 3777, in octal, for SP). (d ≤ 5777, in octal, for SP2).

4. SYSTEM RESPONSE

PF,CODE 091	Printout will conditionally follow.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DUMP:TGR-CREG
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Prints the contents of the critical registers for the specified terminal access circuit (TAC).

2. FORMAT

DUMP:TGR a**,TER** b**,CREG!**

3. EXPLANATION OF MESSAGE

a	Terminal grouping (**TGR**) member number (0-15).
b	Terminal (**TER**) member number (0-15).

4. SYSTEM RESPONSE

PF,CODE 091	Printout will conditionally follow.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DUMP:TGR-IREG
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Prints the contents of the internal registers for the specified terminal access circuit (TAC).

2. FORMAT

DUMP:TGR a**,IREG!**

3. EXPLANATION OF MESSAGE

a Terminal grouping (**TGR**) member number (0-15).

4. SYSTEM RESPONSE

PF,CODE 091 Printout will conditionally follow.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DUMP:TGR-MEM
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Prints the contents of the terminal memory for the specified terminal access circuit (TAC).

2. FORMAT

DUMP:TGR a,**TER** b,**MEM** c-d!

3. EXPLANATION OF MESSAGE

a	Terminal grouping (**TGR**) member number (0-15).
b	Terminal (**TER**) member number (0-15).
c	First memory address to be dumped.
d	Last memory address to be dumped (d-c ≤ 177, in octal).

4. SYSTEM RESPONSE

PF,CODE 091	Printout will conditionally follow.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DUMP:TMSP-CONT
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Prints the memory for the specified time multiplexed switch pair (TMSP).

2. FORMAT

DUMP:TMSP a**,CONTR** b**,MEM (**c,d-e**)!**

3. EXPLANATION OF MESSAGE

a	**TMSP** member number (0-3).
b	Controller number (0-1).
c	Memory number to be dumped (0-177).
d	First time slot to be dumped.
e	Last time slot to be dumped (e-d ≤ 177, in octal).

4. SYSTEM RESPONSE

PF,CODE 091	Printout will conditionally follow.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DUMP:TMSP-CREG
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Prints the critical registers for the specified time multiplexed switch pair (TMSP).

2. FORMAT

DUMP:TMSP a**,CREG!**

3. EXPLANATION OF MESSAGE

a	**TMSP** member number (0-3).

4. SYSTEM RESPONSE

PF,CODE 091	Printout will conditionally follow.
RL	Retry Later.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DUMP:TMSP-IREG
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Prints the internal register for the specified time multiplexed switch pair (TMSP).

2. FORMAT

`DUMP:TMSP` `a`**`,IREG!`**

3. EXPLANATION OF MESSAGE

`a`	**`TMSP`** member number (0-3).

4. SYSTEM RESPONSE

`PF,CODE 091`	Printout will conditionally follow.
`RL`	Retry Later.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DUMP:TSI-CREG
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Prints the critical registers for the specified Time Slot Interchange (TSI).

2. FORMAT

DUMP:TSI a**,CREG!**

3. EXPLANATION OF MESSAGE

a **TSI** member number (0-63).

4. SYSTEM RESPONSE

PF,CODE 091 Printout will conditionally follow.

NOTE: If the member number variable is an Expanded Time Slot Interchange (XTSI), the echo message will be: DUMP:XTSI n,...NOT STARTED - ILLEGAL MESSAGE

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DUMP:TSI-MEM
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Prints the buffer memory D for the specified Time Slot Interchange (TSI).

2. FORMAT

DUMP:TSI a,**CONTR** b,**MEM(2,0,**c-d**)!**

3. EXPLANATION OF MESSAGE

a	**TSI** member number (0-63).
b	Controller member number (0-1).
c	First memory buffer memory D address to be dumped.
d	Last memory buffer memory D address to be dumped (d-c ≤ 177, in octal).

4. SYSTEM RESPONSE

PF,CODE 091	Printout will conditionally follow.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DUMP:TSI-MEME
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Prints the time-slot memory for the specified Time Slot Interchange (TSI).

2. FORMAT

DUMP:TSI a[,**CONTR** b],**SPC** c,**MEM (0**,d,e-f**)!**

3. EXPLANATION OF MESSAGE

a	**TSI** member number (0-63).
b	Controller member number (0-1).
c	Switching and Permuting Controller (**SPC**) member number (0-1).
d	Time-slot memory level (0-1777).
e	First memory address to be dumped.
f	Last memory address to be dumped (f-e ≤ 177, in octal).

4. SYSTEM RESPONSE

PF,CODE 091 Printout will conditionally follow.

NOTE: If the member number variable is an Expanded Time Slot Interchange (XTSI), the echo message will be: DUMP:XTSI n,...NOT STARTED - ILLEGAL MESSAGE

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DUMP:TSI-SPC
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Prints the busy-idle map memory for the specified Time Slot Interchange (TSI).

2. FORMAT

DUMP:TSI a[,**CONTR** b],**SPC** c,**MEM (1,0,**d-e**)!**

3. EXPLANATION OF MESSAGE

a	**TSI** member number (0-63).
b	Controller member number (0-1).
c	Switching and Permuting Controller (**SPC**) member number (0-1).
d	First memory address to be dumped.
e	Last memory address to be dumped (e-d ≤ 177, in octal).

4. SYSTEM RESPONSE

PF,CODE 091 Printout will conditionally follow.

NOTE: If the member number variable is an Expanded Time Slot Interchange (XTSI), the echo message will be: DUMP:XTSI n,...NOT STARTED - ILLEGAL MESSAGE

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DUMP:TSIFILE
WORK CENTER . . MOC
GENERIC . . . . . 4E21 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Displays 1 to 64 16-bit hex words of a Expanded Time Slot Interchange (**XTSI**) flash memory file starting at a user specified file address offset.

2. FORMAT

DUMP:TSIFILE;XTSI a,[**CONTR** b,]**FILE** c,**HADR** d,[**L** e]**!**

3. EXPLANATION OF MESSAGE

a	**XTSI** member number (0-63). (32 **XTSI** frames -- allows only even **XTSI**s).
b	**XTSI** controller number (0-1). Optional parameter. If simplex, the default is the active controller. If duplex failed, this parameter must be specified. Controller may not be specified if frame is duplex.
c	**XTSI** file descriptor number (0-127).
d	Hex address offset within a file (23 bit hex address).
e	Number of hex words to be read from the file (1-64). The default is 1 word.

4. SYSTEM RESPONSE

?D, MISS DATA	A keyword is missing a data argument.
?I, INV KW	There is an invalid keyword in the command line.
?I, MISS KW	There is a missing keyword.
?I, RANGE ER	An argument is out of range.
?I, XTRA KW	There are extra keywords in the command line.
PF	Printout Follows. The **XTSI** file dump request is accepted. An output message will follow to indicate the status of **XTSI** file dump request.
RL	Retry Later. The **XTSI** file dump request has been denied. Too many tasks are in progress.

5. REFERENCES

PIDENT
XTSIFILU

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Message

```
DUMP:TSIFILE
```

SEE PROPRIETARY NOTICE ON COVER PAGE

WARNING
INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

ID . . . . . DUMP:TSIMEM
WORK CENTER . . MOC
GENERIC . . . . . 4E24 Rel. 2 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

WARNING

1. PURPOSE

This command dumps (reads) the specified memory in either the Expanded Time Slot Interchange (**XTSI**) controller, Digital Signal Level 3 Unit (**D3U**), Signal Processing Unit (**SPU**) or In-Band Unit (**IBU**).

Format 1 is used to read memory of **XTSI** controllers.

Format 2 is used to read memory of a **D3U**.

Format 3 is used to read memory of a **SPU**.

Format 4 is used to read memory of a **IBU**.

Format 5 and 6 are used to read Time Slot Memory (TSM).

Format 7, 8 and 9 are used to read memory of a Controller Signal Processor (**CSP**) or an In-Band Unit (**IBU**).

2. FORMAT

[1] **DUMP:TSIMEM;XTSI** a[,**CONTR** b],{**MRAM** c|**GRAM** d|**LRAM** e|**CRAM** g}[,**L** h]**!**

[2] **DUMP:TSIMEM;XTSI** a,**D3U** i,**HADR** j[,**L** h]**!**

[3] **DUMP:TSIMEM;XTSI** a,**SPU** k,**HADR** j[,**L** h]**!**

[4] **DUMP:TSIMEM;XTSI** a,**IBU 0**,**HADR** j[,**L** h]**!**

[5] **DUMP:TSIMEM;XTSI** a,[**CONTR** b,]**SPC** l,**PRTI**0,**LEVEL** m,**ADR** n[,**L** h]**!**

[6] **DUMP:TSIMEM;XTSI** a,[**CONTR** b,]**SPC** l,**PRTI** {1|2|3},**ADR** n[,**L** h]**!**

[7] **DUMP:TSIMEM;XTSI** a,{**ES**|**MS**|**TBITS**} o[,**L** h]**!**

[8] **DUMP:TSIMEM;XTSI** a,**SPC** l,**PCIS** p[,**L** h]**!**

[9] **DUMP:TSIMEM;XTSI** a,**IBU 0**,{**SD**|**SCAN**|**MTBITS**} q[,**L** h]**!**

SEE PROPRIETARY NOTICE ON COVER PAGE

3. EXPLANATION OF MESSAGE

a	**XTSI** member number in decimal (0-63). Only even numbered **XTSI** member numbers are allowed (except where the Switching and Permuting Controller (**SPC**) keyword is specified).
b	Controller (0 or 1). Default is the active controller. Controller can be specified in a duplex frame when TSM type message is used, otherwise controller may not be specified if the frame is duplex or listen-only mode, or if this is read of Control-Bus Random Access Memory (**CRAM**) memory above H'10000000. If frame is duplex-failed, then controller must be specified.
c	**XTSI** controller Micro-Store Instruction Random Access Memory (**MRAM**) memory address in hexadecimal (0-FFFF).
d	**XTSI** controller Global Random Access Memory (**GRAM**) memory address in hexadecimal (0-3FFFF). Any address greater than 16 bits is specified in two 16-bit increments. For example, (3,FFFF) represents an address of 3FFFF.
e	**XTSI** controller Local Random Access Memory (**LRAM**) memory address in hexadecimal (0-FFFF).
g	**XTSI CRAM** memory address in hexadecimal (0-23FFFFFF). If value is greater than or equal to 10000000, then this would be an address for a Protection Switch Client (PSC). For PSCs, the command is rejected if the frame is duplex-failed. Using the **CRAM** keyword to address an Out Of Service (OOS) or unequipped PSC will cause an F-Level interrupt. Use Format [2] instead.
h	Number of "words" to read in decimal (1-128). Default = 1. The size of a word is variant with the memory type.
i	**D3U** number in decimal (0-7).
j	Address argument (0-401FFF) in **D3U** or (0-603C00) in **SPU**. Any address larger than 16 bits is specified in two 16-bit increments. Each address must also be preceded by the digit 0, 1 or 2. This indicates memory access type long, word or byte respectively. Each argument must be separated by a comma. For example (0,FF) represents an access type of "long" and an address of FF and (2,40,1FFF) represents an access type of "byte" and an address of 401FFF.
k	**SPU** number in decimal (0-11).
l	Switching and Permuting Controller (**SPC**) 0 or 1.
PRTI	Partition number (0-3).
m	A-link level number (0-7).
n	If **LEVEL** is used, octal range for 7 bit address (0-177) (decimal 127). If **LEVEL** is not used, octal range for 10 bits (0-1777).
ES	E-Store memory.

SEE PROPRIETARY NOTICE ON COVER PAGE

MS	M-Store memory.
PCIS	Per channel inhibit state memory.
TBITS	Trunk bits.
o	Controller Signal Processor (CSP) trunk designation, controller, in octal (0-7777).
SD	Signal distribute point.
SCAN	Scan point.
MTBITS	Miscellaneous trunk bits.
p	IBU trunk designation in octal (1-1760).
q	Controller Signal Processor (CSP) trunk designation in octal (3000-3430).

4. SYSTEM RESPONSE

PF	Printout Follows. A request will be sent to the frame to read the specified memory. A DUMP:TSIMEM output message follows, indicating the results of the request.

5. REFERENCES

PIDENT
XTSIMEMU

Input Message
LOAD:TSIMEM

Output Messages
DUMP:TSIMEM
LOAD:TSIMEM

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DUMP:UMEM
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Prints the contents of generic utility scratch memory (UMEM) locations.

2. FORMAT

DUMP:UMEM a[**,L** b][;{**BIN**|**DEC**}]**!**

3. EXPLANATION OF MESSAGE

a	Utility scratch memory indicator (0-7).
b	Number of locations to be dumped (1-8).
BIN	Output in binary format (default = octal).
DEC	Output in decimal format (default = octal).

4. SYSTEM RESPONSE

?I,CODE 031	Identification field contains an error. UMEM number specified is not 0, 1, 2, 3, 4, 5, 6 or 7.
?I,CODE 035	Identification field contains an error. Number of words to be dumped exceeds maximum.
?R,DPLX FAIL	Insufficient system Resources are available to determine the validity of the message. Generic utility program (GULP) cannot be paged to parse the message because the file system is duplex failed.

MATCHER INDR ADR NG

PF,CODE 050	Printout will conditionally follow. This acknowledgement is used if file system is duplex failed and GULP is being paged from tape.
PF,CODE 091	Printout will conditionally follow.
RL,CODE 180	Retry Later. Execution of GULP function is in progress.
RL,CODE 181	Retry Later. Message processing is in progress.
RL,CODE 182	Retry Later. Data set input mode is in progress on another channel.
RL,CODE 183	Retry Later. Data set execution is in progress.
RL,CODE 185	Retry Later. No general buffer table (GBT) available or GULP cannot be paged.

NOTE 1: Maximum length is difference between input address and the last address in the active CC buffer bus range.

SEE PROPRIETARY NOTICE ON COVER PAGE

5. REFERENCES

PIDENTs
GULPUTPP
GULPUTXP
GULRUTCR

Practice 234-301-003, *1B Processor Generic Utility Program (GULP) Application - Description*

PA-4A002-01, *4ESS™ User's Manual*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DUMP:VIF-CONTR
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Prints the memory for the specified voiceband interface frame (VIF).

2. FORMAT

DUMP:VIF a,**CONTR** b,**MEM** c-d!

3. EXPLANATION OF MESSAGE

a	**VIF** member number (1-127).
b	Controller member number (0 or 1).
c	First memory address.
d	Last memory address (d-c ≤ 177, in octal).

4. SYSTEM RESPONSE

PF,CODE 091	Printout will conditionally follow.
RL	Retry Later.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DUMP:VIF-CREG
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Prints the critical registers for the specified voiceband interface frame (VIF).

2. FORMAT

DUMP:VIF a**,CREG!**

3. EXPLANATION OF MESSAGE

a	**VIF** member number (1-127).

4. SYSTEM RESPONSE

PF,CODE 091	Printout will conditionally follow.
RL	Retry Later.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DUMP:VIF-IREG
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Prints the internal register for the specified voiceband interface frame (VIF).

2. FORMAT

`DUMP:VIF` `a`**`,IREG!`**

3. EXPLANATION OF MESSAGE

`a`	**`VIF`** member number (1-127).

4. SYSTEM RESPONSE

`PF,CODE 091`	Printout will conditionally follow.
`RL`	Retry Later.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DUMP:XS
WORK CENTER . . MAC, MOC, NMOC, TEC, TOC
GENERIC . . . . . 4E21 and later
CLASS . . . . . ALL
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Causes the specified number of words from extended main memory to be printed on the Teletypewriter (TTY). Output format default will be octal.

DUMP from extended main memory may be used to print data collected on base level (Format [1]), G level resulting from a generic utility flag (`WHEN:[X]ADR`) (Format [2]), or after interrupts (Format [3]).

If the On Condition (**OC**) parameter is used (Format [3]), the input message `CLR:IDUMP` or `CLR:UTIL` can be used to remove the OC flag.

Format [1] is used to dump Extended Non-Secure Call Store (XS) data collected on base level.
Format [2] is used to dump XS data collected on G-level resulting from a generic utility flag (see the `WHEN:[X]ADR` input message).
Format [3] is used to dump XS data collected after interrupts.

2. FORMAT

[1]
```
DUMP:XS,{[XSINDIR a,ID b,]{ADR c|XADR d}}
[,INC e]
[,SIZE f,DISP g]
[,L h]
[;{BIN|DEC}]!
```

[2]
```
DUMP:XS,{[XSINDIR a[,ID b,]]{ADR c|XADR d}
|XSINDIR a,iREG}
[,INC e]
[,SIZE f,DISP g]
[,L h]
[;{BIN|DEC}]!
```

[3]
```
DUMP:XS,{[XSINDIR a[,ID b],]{ADR c|XADR d}
|XSINDIR a,iREG}
[,INC e]
[,L h]
;OC{j|k}!
```

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3. EXPLANATION OF MESSAGE

XS	Extended nonsecure call store.
a	Number of levels of indirect addressing (0-2). Default value is 0. See NOTES 1 and 2.
b	File system ID tag. (Must be in file segments 1 through 3 since this is used for extended memory access.)
c	Eight digit octal address. Address bits that are not specified will be zero filled but bits 23-29, Transition Address Register (TAR), will always be set to ones. Used with Extended Non-Secure Call Store (XS) Indirectness (XSINDIR).
d	Ten digit address. Upper bits that are not specified will be zero filled. Default type is octal.
e	Increment added to address after all levels of indirectness have been calculated (-17777 - +17777). Default value is 0. Default type is octal.
f	Size of mask (1 - 24). Default type is decimal. Default value is 24.
g	Displacement of mask (0 - 23). Default type is decimal. Default value is 0.
h	Number of locations to be printed (1 - 128). Default type is decimal. Default value is 1. Binary dumps are limited to 64 locations.
i	One of the following list of Central Control (CC) register mnemonics: B, F, G, J, K, L, X, Y, Z.
j	One or more of the following list of interrupt source mnemonics: APUFS, CLIS, CSDS, ELS, IFDS, KL0S, ORDS, PADS, PCBS, PSBS, PUFS, SCDS. If more than one source is specified, the list must be enclosed in parentheses and separated by commas. Use input message `CLR:IDUMP` to remove the OC flag.
k	One or more of the following list of interrupt level mnemonics: BLEV, CLEV, DLEV, ELEV, FLEV, KLEV. If more than one level is specified, the list must be enclosed in parentheses and separated by commas. Use the `CLR:IDUMP` input message to remove the OC flag.
BIN	Output data printed in binary. Default type is octal.
DEC	Output data printed in decimal. Default type is octal.

NOTE 1: **XSINDIR** NUM,**ID** TAG,[**X**]**ADR** NUM input (Base and G-Level):
The contents of the specified address will be used as the disk offset along with the ID tag to determine the extended store address.

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NOTE 2: [**XSINDIR** NUM,x**REG**] or [**XSINDIR** NUM,[X]**ADR** NUM] input (G-Level only): The contents of the register or address specified MUST be a window address. The window for this window address must have been previously enabled in order to access the extended store address.

4. SYSTEM RESPONSE

?I,CODE 031	Identification field contains an error. Utility Scratch Memory (UMEM) indicator number specified is not 0, 1, 2, 3, 4, 5, 6, or 7.
?I,CODE 035	Identification field contains an error. Number of words to be dumped exceeds maximum.
?I,CODE 043	Identification field contains an error. Address increment exceeds O'17777.
?I,CODE 044	Identification field contains an error. Mask specified by **SIZE** and **DISP** is invalid. (**SIZE** + **DISP** > D'24 is invalid).
?I,CODE 118	Identification field contains an error. Keyword **ADR** is invalid for accessing extended store.
?I,CODE 119	Identification field contains an error. Keyword **INDIR** is invalid for accessing extended store.
?R,DPLX FAIL	Insufficient system Resources are available to determine the validity of the message. Generic Utility Program (GULP) cannot be paged to parse the message because the file system is duplex failed.
NG,CODE 125	No Good. Invalid **ID** tag for accessing extended store.
NG,CODE 188	No Good. Address specified is not equipped.
PF,CODE 050	Printout will conditionally follow. This acknowledgement is used if file system is duplex failed and GULP is being paged from tape.
PF,CODE 091	Printout will conditionally follow. If message is in a utility flag or is within a utility data set, printout will follow if flag is encountered or if data set is executed.
RL,CODE 180	Retry Later. Execution of GULP function is in progress.
RL,CODE 181	Retry Later. Message processing in progress.
RL,CODE 182	Retry Later. Data set input mode in progress on another channel.
RL,CODE 183	Retry Later. Data set execution is in progress.
RL,CODE 185	Retry Later. No General Buffer Table (GBT) available or GULP cannot be paged.

5. REFERENCES

PIDENTs
GULPUTPP
GULPUTXP
GULRUTCR

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Input Messages

```
CLR:IDUMP
CLR:UTIL
WHEN:ADR
WHEN:XADR
```

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ID . . . . . DUMP:XTSI-CREG
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E21 Rel. 4 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Prints the critical registers for the specified Expanded Time Slot Interchange (**XTSI**).

2. FORMAT

DUMP:XTSI a**,CREG!**

3. EXPLANATION OF MESSAGE

a **XTSI** member number (0-63).

4. SYSTEM RESPONSE

PF,CODE 091 Printout will conditionally follow.

NOTE: If the member number variable is a Time Slot Interchange (TSI), the echo message will be: DUMP:TSI n,...NOT STARTED - ILLEGAL MESSAGE

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID DUMP:XTSI-D3U
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E21 Rel. 4 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Dumps the maintenance data for the particular Digital Signal Level 3 Unit (**D3U**) of an Expanded Time Slot Interchange (**XTSI**) frame.

2. FORMAT

DUMP:XTSI a**,D3U** b**,IREG!**

3. EXPLANATION OF MESSAGE

a **XTSI** member number (0-63).

b **D3U** number (0-7).

4. SYSTEM RESPONSE

PF,CODE 091 Printout Follows.

NOTE: If the member number variable is a Time Slot Interchange (TSI), the echo message will be: DUMP:TSI n,...NOT STARTED - ILLEGAL MESSAGE

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

Input Message
LOAD:XTSI-D3U

Output Messages
DUMP:XTSI-D3U
LOAD:XTSI-D3U

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ID . . . . . DUMP:XTSI-IBU
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E24 Rel. 2 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Dumps the maintenance data for the particular In-Band Unit (**IBU**) of an Expanded Time Slot Interchange (**XTSI**) frame.

2. FORMAT

DUMP:XTSI a**,IBU 0,IREG!**

3. EXPLANATION OF MESSAGE

a **XTSI** member number (0-63).

4. SYSTEM RESPONSE

PF,CODE 091 Printout Follows.

NOTE: If the member number variable is a Time Slot Interchange (TSI), the echo message will be: DUMP:TSI n,...NOT STARTED - ILLEGAL MESSAGE

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

Input Message
LOAD:XTSI-IBU

Output Messages
DUMP:XTSI-IBU
LOAD:XTSI-IBU

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DUMP:XTSI-IREG
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E21 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Prints the internal controller registers for the specified Expanded Time Slot Interchange (**XTSI**) frame.

2. FORMAT

DUMP:XTSI a**,IREG!**

3. EXPLANATION OF MESSAGE

a **XTSI** member number (0-63).

4. SYSTEM RESPONSE

PF,CODE 091 Printout Follows.

NOTE: If the member number variable is a Time Slot Interchange (TSI), the echo message will be: DUMP:TSI n,...NOT STARTED - ILLEGAL MESSAGE

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

Input Message
DUMP:XTSI-IREG

Output Messages
DUMP:XTSI-IREG
LOAD:XTSI-IREG

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ID . . . . . DUMP:XTSI-SPU
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E24 Rel. 2 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Dumps the maintenance data for the particular Signal Processing Unit (**SPU**) of an Expanded Time Slot Interchange (**XTSI**) frame.

2. FORMAT

DUMP:XTSI a**,SPU** b**,IREG!**

3. EXPLANATION OF MESSAGE

a **XTSI** member number (0-63).

b **SPU** number (0-11).

4. SYSTEM RESPONSE

PF,CODE 091 Printout Follows.

NOTE: If the member number variable is a Time Slot Interchange (TSI), the echo message will be: DUMP:TSI n,...NOT STARTED - ILLEGAL MESSAGE

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

Input Message
LOAD:XTSI-SPU

Output Messages
DUMP:XTSI-SPU
LOAD:XTSI-SPU

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Quarterly Release (If applicable) :_____

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Comments: _____

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Input Messages

Volume 2

ELSE - OP(A-L)

IM-4B000-01
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September 2001

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EX:CC	EX:CC	4E19	1
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EX:CS	EX:CS	4E19	1
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LOAD:VIF	LOAD:VIF-EX	4E19	1
LOAD:VIF	LOAD:VIF-EXOOF	4E19	1
LOAD:VIF	LOAD:VIF-EXSIM	4E19	1
LOAD:VIF	LOAD:VIF-EXVIC	4E19	1
LOAD:VIF	LOAD:VIF-FA	4E19	1
LOAD:VIF	LOAD:VIF-FB	4E19	1
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LOAD:VIF	LOAD:VIF-LTI	4E19	1
LOAD:VIF	LOAD:VIF-LTS	4E19	1
LOAD:VIF	LOAD:VIF-RC	4E19	1
LOAD:VIF	LOAD:VIF-REFF	4E19	1
LOAD:VIF	LOAD:VIF-RESM	4E19	1
LOAD:VIF	LOAD:VIF-RESR	4E19	1
LOAD:VIF	LOAD:VIF-RMW	4E19	1
LOAD:VIF	LOAD:VIF-RSIEX	4E19	1
LOAD:VIF	LOAD:VIF-RSM	4E19	1
LOAD:VIF	LOAD:VIF-RTA	4E19	1

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Volume 2 Alphabetical Index (Continued)

MESSAGE NAME	MESSAGE ID	START GENERIC	ISSUE
LOAD:VIF	LOAD:VIF-RVICX	4E19	1
LOAD:VIF	LOAD:VIF-SAF	4E19	1
LOAD:VIF	LOAD:VIF-SAS	4E19	1
LOAD:VIF	LOAD:VIF-SEFF0	4E19	1
LOAD:VIF	LOAD:VIF-SEFF1	4E19	1
LOAD:VIF	LOAD:VIF-STF	4E19	1
LOAD:VIF	LOAD:VIF-STS	4E19	1
LOAD:VIF	LOAD:VIF-SVF0	4E19	1
LOAD:VIF	LOAD:VIF-SVF1	4E19	1
LOAD:VIF	LOAD:VIF-UFA	4E19	1
LOAD:VIF	LOAD:VIF-UFB	4E19	1
LOAD:VIF	LOAD:VIF-UGAF	4E19	1
LOAD:VIF	LOAD:VIF-UGAS	4E19	1
LOAD:VIF	LOAD:VIF-ULAF	4E19	1
LOAD:VIF	LOAD:VIF-ULAI	4E19	1
LOAD:VIF	LOAD:VIF-ULAS	4E19	1
LOAD:VIF	LOAD:VIF-ULBS	4E19	1
LOAD:VIF	LOAD:VIF-ULCSB	4E19	1
LOAD:VIF	LOAD:VIF-ULTF	4E19	1
LOAD:VIF	LOAD:VIF-ULTS	4E19	1
LOAD:VIF	LOAD:VIF-UPSW	4E19	1
LOAD:VIF	LOAD:VIF-URSM	4E19	1
LOAD:VIF	LOAD:VIF-USAF	4E19	1
LOAD:VIF	LOAD:VIF-USAS	4E19	1
LOAD:VIF	LOAD:VIF-UUSCB	4E19	1
LOAD:VIF	LOAD:VIF-VI	4E19	1
LOAD:VIF	LOAD:VIF-WRSM	4E19	1
LOAD:XS	LOAD:XS	4E21	1.2
LOAD:XTSI	LOAD:XTSI-D3U	4E22	1.6
LOAD:XTSI IBU	LOAD:XTSI-IBU	4E24R2	1.6
LOAD:XTSI	LOAD:XTSI-IREG	4E24R2	1.6
LOAD:XTSI	LOAD:XTSI-SPU	4E22	1.6
LOAD:UMEM	LOAD:UMEM	4E19	1.1
MON:CCISTRAP	MON:CCISTRAP	4E19	1
MON:CHAN	MON:CHAN	4E19	1
MON:DGSTAT	MON:DGSTAT	4E19	1.3
MON:IAOFC	MON:IAOFC	4E19	1
MON:IAOFCNT	MON:IAOFCNT	4E19	1
MON:IATSG	MON:IATSG	4E19	1
MON:IATSGCNT	MON:IATSGCNT	4E19	1

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Volume 2 Alphabetical Index (Continued)

MESSAGE NAME	MESSAGE ID	START GENERIC	ISSUE
MON:NCATANOM	MON:NCATANOM	4E19	1
MON:SUTRAP	MON:SUTRAP	4E19	1
OP:ALMSTAT	OP:ALMSTAT	4E19	1
OP:ANNSTAT	OP:ANNSTAT	4E19	1
OP:APSTATUS	OP:APSTATUS	4E19	1
OP:AUDSTAT	OP:AUDSTAT	4E19	1
OP:BANDSTAT	OP:BANDSTAT	4E19	1
OP:BP	OP:BP-SCS	4E19	1
OP:CCSTATUS	OP:CCSTATUS	4E20	1.1
OP:CGASTAT	OP:CGASTAT	4E19	1
OP:CHAN	OP:CHAN	4E19	1
OP:CLK	OP:CLK	4E19	1
OP:CSSTATUS	OP:CSSTATUS	4E19	1
OP:DCONN	OP:DCONN	4E19	1
OP:DGSTAT	OP:DGSTAT	4E21	1.3
OP:DTAC	OP:DTAC	4E19	1
OP:DUSTATUS	OP:DUSTATUS	4E19	1
OP:ERAPCOND	OP:ERAPCOND	4E19	1
OP:ERAPDATA	OP:ERAPDATA	4E19	1.2
OP:ERAPSRES	OP:ERAPSRES	4E19	1
OP:ERAPSUM	OP:ERAPSUM	4E19	1
OP:FHCSTAT	OP:FHCSTAT	4E19	1
OP:IAOFC	OP:IAOFC	4E19	1
OP:IAOFCNT	OP:IAOFCNT	4E19	1
OP:IATSG	OP:IATSG	4E19	1
OP:IATSGCNT	OP:IATSGCNT	4E19	1
OP:IFBSTAT	OP:IFBSTAT	4E19	1
OP:INHINT	OP:INHINT	4E19	1
OP:IODSC	OP:IODSC	4E19	1
OP:LCHAN	OP:LCHAN	4E19	1
OP:LIBSTAT	OP:LIBSTAT	4E22	1.4

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ID ELSE:0
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Causes a list of utility functions following the **ELSE** to be performed only when the IF expression of a non-peripheral flag message is evaluated as false. (This message appears only in non-peripheral flag message sequences where an IF expression is present.)

The following list is an example of a valid non-peripheral flag message sequence:

(1) `WHEN:ADR... /EOT`

(2) `IF:... /EOT`

(3) `DUMP:... /EOT`

(4) `ELSE:... /EOT`

(5) `LOAD:... !EOT`

2. FORMAT

ELSE:/

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

?A	Action field contains an error.
?R,DPLX FAIL	Insufficient system Resources are available to determine the validity of the message. Generic utility program (GULP) cannot be paged to parse the message because the file system is duplex failed.
PF,CODE 050	Printout will conditionally follow. This acknowledgement is used if file system is duplex failed and GULP is being paged from tape.
PF,CODE 091	Printout will conditionally follow.
RL,CODE 180	Retry Later. Execution of GULP function is in progress.
RL,CODE 181	Retry Later. Message processing is in progress.
RL,CODE 182	Retry Later. Data set input mode is in progress on another channel.
RL,CODE 183	Retry Later. Data set execution is in progress.
RL,CODE 185	Retry Later. No general buffer table (GBT) available or GULP cannot be paged.

SEE PROPRIETARY NOTICE ON COVER PAGE

5. REFERENCES

PIDENTs
GULPUTPP
GULPUTXP
GULRUTCR

Practice 234-301-003, *1B Processor Generic Utility Program (GULP) Application - Description*

PA-4A002-01, *4ESS™ User's Manual*, Generic Utility Section

Input Messages
`IF:CC`
`IF:CS`
`IF:CSS`
`IF:PSS`
`IF:REG`
`IF:UMEM`
`DUMP:CS`
`DUMP:CSS`
`DUMP:PSS`
`LOAD:CS`
`LOAD:CSS`
`LOAD:PSS`
`WHEN:ADR`

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ID . . . . . EX:API
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1A-APS
TYPE . . . . . Input

1. PURPOSE

Exercises the specified attached processor interface (API) diagnostic mode.

Format [1] is used to start the interactive diagnostic.
Format [2] is used to modify, that is, to add or delete, the options that apply during the diagnostic execution.
Format [3] is used to step the diagnostic execution.
Format [4] is used to loop within the diagnostic, advance to the specified address, or execute the specified phase or phases.
Format [5] is used to stop an infinite loop or continue execution of a phase currently suspended by Format [3] or [4].

2. FORMAT

[1] **EX:API** a**;START!**

[2] **EX:API** a[;[**RDT** b][,**DLT**]][:[**PAUSE** c][,**FFAIL**][,**SYNC** d] [,**ENABLE** e]]**!**

[3] **EX:API** a**;STEP**[f][**:PH** g]**!**

[4] **EX:API** a[**;RPT** h][:[**PH** g][,**ADR** i]]**!**

[5] **EX:API** a**!**

3. EXPLANATION OF MESSAGE

a — Member number of the **API** to be exercised (0-15).

START — Start the exercise of the specified unit. The exercise will be active until terminated by a STOP:MACLI input message.

b — The channel to which the output messages are redirected. Default is to output on the input channel. See the User Guidelines of the *Input Message Document* for a list of channel names.

DLT — Delete the action previously enabled. This applies to **FFAIL**, **PAUSE** c, **SYNC** d, and **ENABLE** e. The action to delete must be specified.

c — The address at which the diagnostic execution is suspended. The address must be a SEGINIT macro index word address specified in the diagnostic listing. Execution may be resumed by inputing **EX:API** with no optional parameters.

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FFAIL Suspend diagnostic execution after the first test failure has occurred. Execution is resumed by the EX: command, with no optional parameters specified.

NOTE: The diagnostic is suspended at the first legal segment point following the first test failure.

d The address to be executed to generate a synchronous (SYNC) pulse. The address must be a macro index word address specified in the diagnostic listing. The sync pulse is physically available at the back of the active central controller (CC) on the COAX connector labeled "GCPSYN".

e The test to be executed before enabling the functions loop, sync, advance, or step.

f The number of segments the diagnostic execution is stepped. If no phase is currently active, a phase number must be specified. If defaulted, one segment is executed.

g The specified phase numbers to be executed, which may be a single decimal number, a range (e.g., x-y), a list (e.g., x,y,...), or a combination of a range and a list. A list or combination must be enclosed in parentheses. If this parameter is specified, execution will be from the start of the phase; otherwise, execution will be from where the phase is suspended.

h The number of times the diagnostic is repeated. Maximum value is 255 times. If the **ADR** parameter with a range of addresses is specified, the default value is infinity; otherwise, the default value is one time.

i The specified address range to be executed. May be a single octal address or a range of octal addresses. All addresses must be SEGINIT macro index words specified in the diagnostic listing. If a single address is given, execution will advance up to the specified address and then be suspended. If a range of addresses is specified, the diagnostic will loop from the last address to the first address.

NOTE: For looping, the execution will always be from the start of the phase to the last address, then loop back to the first address. If no phase is currently active, a phase number must be specified.

NOTE: In the exercise mode, all diagnostics are executed as if they were running in an unconditional (UCL) mode, even though that parameter is not available as an input option. The same is true for the RAW function. Both UCL and RAW are described in the DGN:API input message.

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4. SYSTEM RESPONSE

`?R,DPLX FAIL`	Insufficient system Resources are available to determine the validity of the message. The diagnostics are not available from the disk system. (Clear the Duplex failure or use `SYSRTPAD/TPAD`.)
`NG`	No Good. Start message never sent or using channel other than the one used to start the diagnostic.
`PF`	Printout Follows. Followed by an `EX:API` output message.
`RL`	Retry Later. Indicates the diagnostic is not in the interactive mode or is not ready for input.

5. REFERENCES

PIDENTs
- APFRBASE
- DCONMAIN
- MIRA
- APDG--, where -- represents all valid phase numbers
  listed in PIDENT DCONTABL for PREFIX=APDG, UTYPE=1XLUAPI

Practice 254-200-205, *Diagnostic Program Application*
Practice 254-280-040, *Diagnostic Language - DL-1*

PA-4A002-01, *4ESS™ User's Manual*

Input Messages
- `CLR:MACLI`
- `DGN:API`
- `OP:MACLI`
- `STOP:MACLI`

Output Message
- `EX:API`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . EX:AUB
WORK CENTER . . MOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Exercises the specified auxiliary unit bus (AUB) in an interactive diagnostic mode.

In the exercise mode, all diagnostics are executed as if they were running in an unconditional (UCL) mode, even though that parameter is not available as an input option. The same is true for the `RAW` function. Both `UCL` and `RAW` are described in the `DGN:AUB` input message.

Format [1] is used to start the interactive diagnostic.
Format [2] is used to modify, that is, to add or delete, the options that apply during the diagnostic execution.
Format [3] is used to step the diagnostic execution.
Format [4] is used to loop within the diagnostic, advance to the specified address, or execute the specified phase or phases.
Format [5] is used to stop an infinite loop or continue execution of a phase currently suspended by Format [3] or [4].

2. FORMAT

[1] **EX:AUB** a**;START!**

[2] **EX:AUB** a[;[**RDT** b][,**DLT**]][:[**PAUSE** c][,**FFAIL**][,**SYNC** d] [,**ENABLE** e]]**!**

[3] **EX:AUB** a**;STEP**[f][:**PH** g]**!**

[4] **EX:AUB** a[;**RPT** h][:[**PH** g][,**ADR** i]]**!**

[5] **EX:AUB** a**!**

3. EXPLANATION OF MESSAGE

a — Member number of the **AUB** to be exercised (0 or 1).

START — Start the exercise of the specified unit. The exercise will be active until terminated by a `STOP:MACLI` input message.

b — The channel to which output messages are redirected. Default is to output on the input channel. See the User Guidelines of the *Input Message Document* for a list of channel names.

DLT — Delete the action previously enabled. This applies to **FFAIL**, **PAUSE** c, **SYNC** d, **ENABLE** e.

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c — Address at which the diagnostic execution is suspended. The address must be a SEGINIT macro index word address specified in the diagnostic listing. Execution may be resumed by inputing **EX:AUB** with no optional parameters.

FFAIL — Suspend diagnostic execution after the first test failure has occurred. Execution is resumed by the **EX:AUB** command with no optional parameters specified.

NOTE: The diagnostic is suspended at the first legal segment point following the first test failure.

d — The address to be executed to generate a synchronous (SYNC) pulse. The address must be a macro index word address specified in the diagnostic listing. The synchronous pulse is physically available at the back of the active central control (CC) on the coax connector labeled "GCPSYN".

e — Enable the functions loop, sync, advance, or step only after the test has been executed.

f — The number of segments the diagnostic execution is stepped. If no phase is currently active, a phase number must be specified. If defaulted, one segment is executed.

g — The phase number executed, which may be a single decimal number, a range (e.g., x-y), a list (e.g., x,y,...), or a combination of a range and list. A list or combination must be enclosed in parentheses. If this parameter is specified, execution will be from the start of the phase; otherwise, execution will be from where the phase is suspended.

h — The number of times the diagnostic is repeated. Maximum value is 255 times. If the **ADR** parameter with a range of addresses is specified, the default value is infinity; otherwise, the default value is one time.

i — The specified address range, which may be a single octal address or a range of octal addresses. All addresses must be SEGINIT macro index words specified in the diagnostic listing. If a single address is given, execution will advance up to the specified address and then be suspended. If a range of addresses is specified, the diagnostic will loop from the last address to the first address.

NOTE: For looping, the execution will always be from the start of the phase to the last address, then loop back to the first address. If no phase is currently active, a phase number must be specified.

Valid looping addresses are listed under the Data Table Test Location and Segment Loop Address Index at the back of the diagnostic program listing. Looping on invalid addresses (i.e., not specified in this index) may be possible but test results may not be valid. For valid addresses in PH 99, refer directly to the diagnostic program.

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4. SYSTEM RESPONSE

`?R,DPLX FAIL`	Insufficient system Resources are available to determine the validity of the message. The diagnostics are not available from the disk system. (Clear the Duplex failure or use `SYSRTPAD/TPAD`.)
`PF`	Printout Follows. Followed by an `EX:AUB` output message(s).

5. REFERENCES

PIDENT
ABDG

Practice 254-280-040, *Diagnostic Language - DL-1*
Practice 254-280-220, *Diagnostic Programs - Description*

PA-4A002-01, *4ESS™ User's Manual*

Input Messages
`DGN:AUB`
`STOP:MACLI`

Output Message
`EX:AUB`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . EX:AUI
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Exercises the specified auxiliary unit interface (AUI). The `UCL` and `RAW` functions described in the `DGN:` input messages are automatically invoked for this and all other `EX:` input messages.

Format [1] is used to start the interactive diagnostic.
Format [2] is used to modify, that is, to add or delete, the options that apply during the diagnostic execution.
Format [3] is used to step the diagnostic execution.
Format [4] is used to loop within the diagnostic, advance to the specified address, or execute the specified phase or phases.
Format [5] is used to stop an infinite loop or continue execution of a phase currently suspended by Format [3] or [4].

2. FORMAT

[1] **EX:AUI** a;**START!**

[2] **EX:AUI** a[;[**RDT** b][,**DLT**]][:[**PAUSE** c][,**FFAIL**][,**SYNC** d] [,**ENABLE** e]]**!**

[3] **EX:AUI** a;**STEP**[f][:**PH** g]**!**

[4] **EX:AUI** a[;**RPT** h][:[**PH** g][,**ADR** i]]**!**

[5] **EX:AUI** a**!**

3. EXPLANATION OF MESSAGE

a	Member number of the **AUI** to be exercised (0 or 1).
START	Start the exercise on the specified unit. The exercise will be active until terminated by a `STOP:MACLI` input message.
b	The channel to which the output messages are redirected. Default is to output on the input channel. See the User Guidelines of the *Input Message Document* for a list of channel names.
DLT	Delete the action previously enabled. This applies to **FFAIL**, **PAUSE** c, **SYNC** d, **ENABLE** e.

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`c` The address at which the diagnostic execution is suspended. The address must be a SEGINIT macro index word address specified in the diagnostic listing. Execution may be resumed by inputing **EX:AUI** with no optional parameters.

FFAIL Suspend diagnostic execution after the first test failure has occurred. Execution is resumed by the **EX:AUI** command with no optional parameters specified.

NOTE: The diagnostic is suspended at the first legal segment point following the first test failure.

`d` The address to be executed to generate a synchronous (SYNC) pulse. The address must be a macro index word address specified in the diagnostic listing. The synchronous pulse is physically available at the back of the active central control (CC) on the coax connector labeled "GCPSYN".

`e` The test to be executed before enabling the functions loop, sync, advance, or step.

`f` The number of segments the diagnostic execution is stepped. If no phase is currently active, a phase number must be specified. If defaulted, one segment is executed.

`g` The phase numbers to be executed, which may be a single decimal number, a range (x-y), a list (x,y,...), or a combination of a range and list. A list or combination must be enclosed in parentheses. If this parameter is specified, execution will be from where the phase is suspended.

`h` The number of times the diagnostic is repeated. Maximum value is 255. If the **ADR** parameter with a range of addresses is specified, the default value is infinity; else the default value is 1.

`i` The address range to be executed, which may be a single octal address or a range of octal addresses. All addresses must be SEGINIT macro index words specified in the diagnostic listing. If a single address is given, execution will advance up to the specified address and then be suspended. If a range of addresses is specified, the diagnostic will loop from the last address to the first address.

NOTE: For looping, the execution will always be from the start of the phase to the last address, then loop back to the first address. If no phase is currently active, a phase number must be specified.

Valid looping addresses are listed under the Data Table Test Location and Segment Loop Address Index at the back of the diagnostic program listing. Looping on invalid addresses (i.e., not specified in this index) may be possible but test results may not be valid.

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4. SYSTEM RESPONSE

`?R,DPLX FAIL`	Insufficient system Resources are available to determine the validity of the message. The diagnostics are not available from the disk system. (Clear the Duplex failure or use `SYSRTPAD/TPAD`.)
`PF`	Printout Follows. Followed by an `EX:AUI` output message.

5. REFERENCES

PIDENTs
AIDG--, where -- = all valid phase numbers
listed in PIDENT DCONTABL for PREFIX=AIDG, UTYPE=1XLUAUI

Practice 254-280-040, *Diagnostic Language - DL-1*
Practice 254-280-220, *Diagnostic Programs - Description*

PA-4A002-01, *4ESS™ User's Manual*

Input Messages
`DGN:AUI`
`STOP:MACLI`

Output Message
`EX:AUI`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . EX:CC
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Exercises the specified central control (CC). The UCL and RAW functions described in the DGN: input messages are automatically invoked for this and all other EX: input messages.

Format [1] is used to start the interactive diagnostic.
Format [2] is used to modify, that is, to add or delete, the options that apply during the diagnostic execution.
Format [3] is used to step the diagnostic execution.
Format [4] is used to loop within the diagnostic, advance to the specified address, or execute the specified phase or phases.
Format [5] is used to stop an infinite loop or continue execution of a phase currently suspended by Format [3] or [4].

2. FORMAT

[1] **EX:CC** a;**START**[:**PC**]!

[2] **EX:CC** a[;[**RDT** b][,**DLT**]][:[**PAUSE** c][,**FFAIL**][,**SYNC** d] [,**ENABLE** e]]!

[3] **EX:CC** a;**STEP**[f][:**PH** g]!

[4] **EX:CC** a[;**RPT** h][:[**PH** g][,**ADR** i]]!

[5] **EX:CC** a!

3. EXPLANATION OF MESSAGE

a — Member number of the **CC** to be exercised (0 or 1).

START — Start the exercise on the specified unit. The exercise will be active until terminated by a STOP:MACLI input message.

PC — Allow **PH 91** (the processor configuration test) and/or **PH 92** (the inter-CC power control test) to be executed when subsequent **EX**: commands specifying **PH 91** or **PH 92** are entered. An example of use might be:

EX:CC a; **START:PC!**

EX:CC a: **PH 91!**

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b — The channel to which the output messages are redirected. Default is to output on the input channel. See the User Guidelines of the *Input Message Document* for a list of channel names.

DLT — Delete the action previously enabled. This applies to **FFAIL**, **PAUSE** c, **SYNC** d, **ENABLE** e.

c — The address at which the diagnostic execution is suspended. The address must be a SEGINIT macro index word address specified in the diagnostic listing. Execution may be resumed by inputing **EX:CC** with no optional parameters.

FFAIL — Suspend diagnostic execution after the first test failure has occurred. Execution is resumed by the **EX:CC** command with no optional parameters specified.

NOTE: The diagnostic is suspended at the first legal segment point following the first test failure.

d — The address to be executed to generate a synchronous (SYNC) pulse. The address must be a macro index word address specified in the diagnostic listing. The synchronous pulse is physically available at the back of the active central control (CC) on the coax connector labeled "GCPSYN".

e — The test to be executed before enabling the functions loop, sync, advance, or step.

f — The number of segments the diagnostic execution is stepped. If no phase is currently active, a phase number must be specified. If defaulted, one segment is executed.

g — The phase numbers to be executed, which may be a single decimal number, a range (x-y), a list (x,y,...), or a combination of a range and list. A list or combination must be enclosed in parentheses. If this parameter is specified, execution will be from where the phase is suspended.

h — The number of times the diagnostic is repeated. Maximum value is 255. If the **ADR** parameter with a range of addresses is specified, the default value is infinity; else the default value is 1.

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`i` The address range to be executed, which may be a single octal address or a range of octal addresses. All addresses must be SEGINIT macro index words specified in the diagnostic listing. If a single address is given, execution will advance up to the specified address and then be suspended. If a range of addresses is specified, the diagnostic will loop from the last address to the first address.

NOTE: For looping, the execution will always be from the start of the phase to the last address, then loop back to the first address. If no phase is currently active, a phase number must be specified.

Valid looping addresses are listed under the Data Table Test Location and Segment Loop Address Index at the back of the diagnostic program listing. Looping on invalid addresses (i.e., not specified in this index) may be possible but test results may not be valid.

4. SYSTEM RESPONSE

`?R,DPLX FAIL` Insufficient system Resources are available to determine the validity of the message. The diagnostics are not available from the disk system. (Clear the Duplex failure or use `SYSRTPAD/TPAD`.)

`PF` Printout Follows. Followed by an `EX:CC` output message.

5. REFERENCES

PIDENTs
CCDG--, where -- = all valid phase numbers
listed in PIDENT DCONTABL for PREFIX=CCDG, UTYPE=1XLUCC

Practice 254-280-040, *Diagnostic Language - DL-1*
Practice 254-280-220, *Diagnostic Programs - Description*

PA-4A002-01, *4ESS™ User's Manual*

Input Messages
`DGN:CC`
`STOP:MACLI`

Output Message
`EX:CC`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . EX:CMSLINK
WORK CENTER . . MAC, MOC, NMOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Exercises the input/output (I/O) link between the 4ESS™ switch and circuit maintenance system (CMS) 1A. This message may be input from any channel, but output message will always go to CMS. A check of the entire link from CMS-ESS™ and back to CMS is only possible if this message is initiated from CMS 1A and not the 4ESS™ switch. If the message is initiated from the 4ESS™ switch only the output channel to CMS is checked.

NOTE: The test is sent to CMS on the primary CMS output channel (CMS2) if it is in service. Message is sent to CMS on CMS4 if CMS2 is out of service.

2. FORMAT

`EX:CMSLINK` `a!`

3. EXPLANATION OF MESSAGE

`a`	Text of up to 21 characters. A period is suggested instead of a blank between words.

4. SYSTEM RESPONSE

`?R,DPLX FAIL`	Insufficient system Resources are available to determine the validity of the message. The diagnostics are not available from the disk system. (Clear the Duplex failure or use `SYSRTPAD/TPAD`.)
`PF`	Printout Follows. Output message `EX:CMSLINK` will follow (sent to CMS).
`RL`	Retry Later. System resources not available.

5. REFERENCES

PIDENT
TMAD0005

Output Message
`EX:CMSLINK`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . EX:CS
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Exercises the specified call store (CS) in an interactive diagnostic mode. In the exercise mode, all diagnostics are executed as if they were running in an unconditional (UCL) mode, even though that parameter is not available as an input option. The same is true of the `RAW` function. Both `UCL` and `RAW` are described in the corresponding `DGN:CS` input message.

Format [1] is used to start the interactive diagnostic.
Format [2] is used to modify, that is, to add or delete, the options that apply during the diagnostic execution.
Format [3] is used to step the diagnostic execution.
Format [4] is used to loop within the diagnostic, advance to the specified address, or execute the specified phase or phases.
Format [5] is used to stop an infinite loop or continue execution of a phase currently suspended by Format [3] or [4].

2. FORMAT

[1] **EX:CS** a;**START**[,b]**!**

[2] **EX:CS** a[;[**RDT** c][,**DLT**]][:[**PAUSE** d][,**FFAIL**][,**SYNC** e][,**ENABLE** f]]**!**

[3] **EX:CS** a;**STEP**[g][:**PH** h]**!**

[4] **EX:CS** a[;**RPT** i][:[**PH** h][,**ADR** j][,**TSTADR** k][,**L** l][,**HIDATA** m]
[,**TSTPAT** n]**!**

[5] **EX:CS** a**!**

3. EXPLANATION OF MESSAGE

a — Member number of the **CS** to be exercised (0 to 39).

START — Start the exercise of the specified unit. The exercise will be active until terminated by a `STOP:MACLI` input message.

b — The margin for diagnosing the core store.

c — The channel to which the output messages are redirected. Default is to output on the input channel. See the User Guidelines of the *Input Message Document* for a list of channel names.

DLT — Delete the action previously enabled. This applies to **FFAIL**, **PAUSE** d, **SYNC** e, **ENABLE** f.

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d — The address at which the diagnostic execution is suspended. The address must be a SEGINIT macro index word address specified in the diagnostic listing. Execution may be resumed by inputing **EX:CS** with no optional parameters.

FFAIL — Suspend diagnostic execution after the first test failure has occurred. Execution is resumed by the **EX:CS** command with no optional parameters specified.

NOTE: The diagnostic is suspended at the first legal segment point following the first test failure.

e — The address to be executed to generate a synchronous (SYNC) pulse. The address must be a macro index word address specified in the diagnostic listing. The synchronous pulse is physically available at the back of the active central control (CC) on the coax connector labeled "GCPSYN".

f — The test to be executed before enabling the functions loop, sync, advance, or step.

g — The number of segments the diagnostic execution is stepped. If no phase is currently active, a phase number must be specified. If defaulted, one segment is executed.

h — The specified phase numbers to be executed, which may be a single decimal number, a range (e.g., x-y), a list (e.g., x,y,...), or a combination of a range and list. A list or combination must be enclosed in parentheses. If this parameter is specified, execution will be from the start of the phase; otherwise, execution will be from where the phase is suspended.

i — The number of times the diagnostic is to be repeated. Maximum value is 255 times. If the **ADR** parameter with a range of addresses is specified, the default value is infinity; otherwise, the default value is one time.

j — The address range to be executed, which may be a single octal address or a range of octal addresses. All addresses must be SEGINIT macro index words specified in the diagnostic listing. If a single address is given, execution will advance up to the specified address and then be suspended. If a range of addresses is specified, the diagnostic will loop from the last address to the first address.

NOTE: For looping, the execution will always be from the start of the phase to the last address, then loop back to the first address. If no phase is currently active, a phase number must be specified.

Valid looping addresses are listed under the Data Table Test Location and Segment Loop Address Index at the back of the diagnostic program listing. Looping on invalid addresses (i.e., not specified in this index) may be possible but test results may not be valid.

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NOTE: The following variables are only valid for **PH** = 97.

k	Test address (**TSTADR**) (bits 0-19) of the store to be exercised, the variable is any store address in octal. Maximum address is 3777777. Default is address 0.
l	Length of consecutive addresses to be exercised. Default length is 1. The length is specified in decimal.
m	The 8 data-bit test pattern for the high byte of the address to be used with **TSTADR**. Default value is 0.
n	The 24 data-bit test pattern (**TSTPAT**), to be used with **TSTADR**. Default is 0.

4. SYSTEM RESPONSE

?R,DPLX FAIL	Insufficient system Resources are available to determine the validity of the message. The diagnostics are not available from the disk system. (Clear the Duplex failure or use SYSRTPAD/TPAD.)
PF	Printout Follows. Followed by an EX:CS output message(s).

5. REFERENCES

PIDENTs
MUDG--, where -- = all valid phase numbers
listed in PIDENT DCONTABL for PREFIX=MUDG, UTYPE=1XLUCS

Practice 254-280-040, *Diagnostic Language - DL-1*
Practice 254-280-220, *Diagnostic Programs - Description*

PA-4A002-01, *4ESS™ User's Manual*

Input Messages
DGN:CS
STOP:MACLI

Output Message
EX:CS

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . EX:CSB
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Exercises the specified call store bus (CSB) in an interactive diagnostic mode. This input message has five forms as shown. In the exercise mode, all diagnostics are executed as if they were running in an unconditional (UCL) mode, even though that parameter is not available as an input option. The same is true for the `RAW` function. Both `UCL` and `RAW` are described in the `DGN:CSB` input message.

Format [1] is used to start the interactive diagnostic.
Format [2] is used to modify, that is, to add or delete, the options that apply during the diagnostic execution.
Format [3] is used to step the diagnostic execution.
Format [4] is used to loop within the diagnostic, advance to the specified address, or execute the specified phase or phases.
Format [5] is used to stop an infinite loop or continue execution of a phase currently suspended by Format [3] or [4].

2. FORMAT

[1] **EX:CSB** a**;START!**

[2] **EX:CSB** a[;[**RDT** b][,**DLT**]][:[**PAUSE** c][,**FFAIL**][,**SYNC** d] [,**ENABLE** e]]**!**

[3] **EX:CSB** a**;STEP**[f][:**PH** g]**!**

[4] **EX:CSB** a[**;RPT** h][:[**PH** g][,**ADR** i]]**!**

[5] **EX:CSB** a**!**

3. EXPLANATION OF MESSAGE

a — Member number of the **CSB** to be exercised (0 or 1).

START — Start the exercise of the specified unit. The exercise will be active until terminated by a `STOP:MACLI` input message.

b — The channel to which output messages are redirected. Default is to output on the input channel. See the User Guidelines of the *Input Message Document* for a list of channel names.

DLT — Delete the action previously enabled. This applies to **FFAIL**, **PAUSE** c, **SYNC** d, **ENABLE** e.

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c — The address at which the diagnostic execution is suspended. The address must be a SEGINIT macro index word address specified in the diagnostic listing. Execution may be resumed by inputing **EX:CSB** with no optional parameters.

FFAIL — Suspend diagnostic execution after the first test failure has occurred. Execution is resumed by the **EX:CSB** command with no optional parameters specified.

NOTE: The diagnostic is suspended at the first legal segment point following the first test failure.

d — The address to be executed to generate a synchronous (SYNC) pulse. The address must be a macro index word address specified in the diagnostic listing. The synchronous pulse is physically available at the back of the active central control (CC) on the coax connector labeled "GCPSYN".

e — The test to be executed before enabling the functions loop, sync, advance, or step.

f — The number of segments the diagnostic execution is stepped. If no phase is currently active, a phase number must be specified. If defaulted, one segment is executed.

g — The phase numbers, to be executed, which may be a single decimal number, a range (e.g., x-y), a list (e.g., x,y,...), or a combination of a range and list. A list or combination must be enclosed in parentheses. If this parameter is specified, execution will be from the start of the phase; otherwise, execution will be from where the phase is suspended.

h — The number of times the diagnostic is repeated. Maximum value is 255 times. If the **ADR** parameter with a range of addresses is specified, the default value is infinity; otherwise, the default value is one time.

i — Execute the specified address range. May be a single octal address or a range of octal addresses. All addresses must be SEGINIT macro index words specified in the diagnostic listing. If a single address is given, execution will advance up to the specified address and then be suspended. If a range of address is specified, the diagnostic will loop from the last address to the first address.

NOTE: For looping, the execution will always be from the start of the phase to the last address, then loop back to the first address. If no phase is currently active, a phase number must be specified.

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4. SYSTEM RESPONSE

`?R,DPLX FAIL`	Insufficient system Resources are available to determine the validity of the message. The diagnostics are not available from the disk system. (Clear the Duplex failure or use `SYSRTPAD/TPAD`.)
`PF`	Printout Follows. Followed by an `EX:CSB` output message(s).

5. REFERENCES

PIDENT
MBDG01

Practice 254-280-040, *Diagnostic Language - DL-1*
Practice 254-280-220, *Diagnostic Programs - Description*

PA-4A002-01, *4ESS™ User's Manual*

Input Messages
`DGN:CSB`
`STOP:MACLI`

Output Message
`EX:CSB`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . EX:DIF
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Exercises in an interactive diagnostic mode the specified Digital Interface Frame (DIF), Domestic Digital Interface Frame (DIF-E1[D]), or Digital Interface Frame-Export 1 (DIF-E1).

Format [1] is used to start the interactive diagnostic.
Format [2] is used to modify, that is, to add or delete, the options that apply during the diagnostic execution.
Format [3] is used to step the diagnostic execution.
Format [4] is used to loop within the diagnostic, advance to the specified address, or execute the specified phase or phases.
Format [5] is used to stop an infinite loop or continue execution of a phase currently suspended by Format [3] or [4].
Format [6] is used to specify a firmware diagnostic **LOOP** mode or terminate a diagnostic **LOOP** mode.

2. FORMAT

[1] **EX:DIF** a{,**CONTR** b|,**DIU** c};**START**[:[**PUB** d][,**GROWTH**] [,**PSW**][,**SELECT**]]!

[2] **EX:DIF** a[;[**RDT** e][,**DLT**]][:[**PAUSE** f][,**FFAIL**][,**SYNC** g] [,**ENABLE** h]]!

[3] **EX:DIF** a;**STEP**[i][:**PH** j]!

[4] **EX:DIF** a[;**RPT** k][:[**PH** j][,**ADR** l]]!

[5] **EX:DIF** a!

[6] **EX:DIF** a{;**LOOP**|;**ENDLP**}!

3. EXPLANATION OF MESSAGE

a	DIF, DIF-E1(D), or DIF-E1 member number to be exercised (0-31).
LOOP	Specifies firmware diagnostic **LOOP** mode. Allows DIF, DIF-E1(D), or DIF-E1 firmware diagnostic looping over first failing test.
ENDLP	Terminates the DIF, DIF-E1(D), or DIF-E1 firmware diagnostic LOOP mode.
b	Controller to be exercised (0 or 1).

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c	Digital Interface Unit (DIU) to be exercised (0-33).
START	Start the exercise of the specified unit. The exercise will be active until terminated by a `STOP:MACLI` input message.
d	Helper Peripheral Unit Bus (PUB) member number. This input is valid only when **CONTR** is specified and the DIF, DIF-E1(D), or DIF-E1 is in GROWTH or SPECIAL GROWTH.
GROWTH	Diagnose the growth parts in addition to the operational parts.
PSW	Execute Protection Switch (PSW) tests. This parameter applies only when **CONTR** is specified. Only phase 12 is affected when this parameter is specified.
SELECT	Enables execution of subunit bus selection tests. This parameter applies only to Digital Interface Controller (DIC) phase 23.
e	The channel to which the output messages are redirected. Default is output on the input channel.
DLT	Delete the action previously enabled. This applies to **FFAIL**, **PAUSE** f, **SYNC** g, **ENABLE** h. The action to delete must be specified.
f	The address at which the diagnostic execution is suspended. The address must be a valid segment point macro-index-word address specified in the diagnostic listing. If automatic segmenting is active, any index word address is valid; otherwise, the next index word address following the SEGMENT statement is valid. Execution may be resumed by inputing the **EX:DIF** message with no optional parameters.
FFAIL	Suspend diagnostic execution after the first test failure has occurred. Execution is resumed by the **EX:DIF** command with no optional parameters specified. **NOTE:** The diagnostic is suspended at the first legal segment point following the first test failure.
g	The address to be executed to generate a Synchronous (SYNC) pulse. The address must be a macro index word address specified in the diagnostic listing. The sync pulse is physically available on bit 36 of the PUB.
h	The test to be executed before enabling the function loop, sync, advance or step.
i	The number of segments the diagnostic execution are stepped. If no phase is currently active, a phase number must be specified. If defaulted, one segment is executed. If automatic segmenting is active, one segment equates to one DIAL statement.

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`j` The phase numbers to be executed, which may be a single decimal number, a range (e.g., x-y), a list (e.g., x,y,z...), or a combination of range and list. A list or combination must be enclosed in parentheses. If this parameter is specified, execution will be from the start of the phase.

`k` The number of times the diagnostic is repeated. Maximum value is 255. If the **ADR** parameter is specified with a range of addresses, the default value is infinity; otherwise, the default value is one.

`l` Execute the specified address range. The addresses must be a valid segment point macro-index-word addresses specified in the diagnostic listing. If automatic segmenting is active, any index word address is valid; otherwise, the next index word address following the SEGMENT statement is valid. May be a single octal address or a range of octal addresses. If a single address is given, execution will advance up to the specified address and then be suspended. If a range of addresses is specified, the diagnostic will loop from the last address to the first address.

NOTE: For looping, the execution will always be from the start of the phase to the last address, then loop back to the first address. If no phase is currently active, a phase number must be specified.

NOTE: In the exercise mode, all diagnostics are executed as if they were running in an Unconditional (UCL) mode, even though that parameter is not available as an input option. The same is true for the `RAW` function. Both `UCL` and `RAW` are described in the `DGN:DIF` input message.

4. SYSTEM RESPONSE

`?R,DPLX FAIL` Insufficient system Resources are available to determine the validity of the message. The diagnostics are not available from the disk system. (Clear the Duplex failure or use `SYSRTPAD/TPAD`.)

`NG` No Good. Start message never sent or using channel other than the one used to start the diagnostic.

`PF` Printout Follows. Followed by an `EX:DIF` output message(s).

`RL` Retry Later. Indicates the diagnostic is not in the interactive mode or is not ready for input.

5. REFERENCES

PIDENTs
- DCONMAIN
- MIRA
- PUDGCONT

Practice 234-180-020, *Diagnostic Language - DIAL*
Practice 234-180-260, *4ESS™ Peripheral Diagnostic Program - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

PA-4A002-01, *4ESS™ User's Manual*

Input Messages

```
CLR:MACLI
DGN:DIF
OP:MACLI
STOP:MACLI
```

Output Message

```
EX:DIF
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . EX:DT
WORK CENTER . . MOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Exercises the specified digroup terminal (DT) in an interactive diagnostic mode. In the exercise mode, all diagnostics are executed as if they were running in an unconditional (UCL) mode, even though that parameter is not available as an input option. The same is true for the `RAW` function. Both `UCL` and `RAW` are described in the `DGN:DT` input message.

Format [1] is used to start the interactive diagnostic.
Format [2] is used to modify, that is, to add or delete, the options that apply during the diagnostic execution.
Format [3] is used to step the diagnostic execution.
Format [4] is used to loop within the diagnostic, advance to the specified address, or execute the specified phase or phases.
Format [5] is used to stop an infinite loop or continue execution of a phase currently suspended by Format [3] or [4].

2. FORMAT

[1] **EX:DT** a{**,CONTR** b|**,DTU** c}**;START**[**,GROWTH**][**,PSW**]**!**

[2] **EX:DT** a[**;**[**RDT** d][**,DLT**]][**:**[**PAUSE** e][**,FFAIL**][**,SYNC** f]
[**,ENABLE** g]]**!**

[3] **EX:DT** a**;STEP**[h][**:PH** i]**!**

[4] **EX:DT** a[**;RPT** j][**:**[**PH** i][**,ADR** k]]**!**

[5] **EX:DT** a**!**

3. EXPLANATION OF MESSAGE

a	Member number of the **DT** to be exercised (0-127).
b	Controller to be exercised (0 or 1).
c	Digroup terminal unit (DTU) to be exercised (0-8).
START	Start the exercise of the specified unit. The exercise will be active until terminated by a `STOP:MACLI` input message.
d	The channel to which the output messages are redirected. Default is output on the input channel.

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`e` The address at which the diagnostic execution is suspended. The address must be a valid segment point macro index word address specified in the diagnostic listing. If automatic segmenting is active, any index word address is valid; otherwise, the next index word address following the SEGMENT statement is valid. Execution may be resumed by inputing the **EX:DT** message with no operational parameters.

FFAIL Suspend diagnostic execution after the first test failure has occurred. Execution is resumed by the **EX:DT** command with no optional parameters specified.

NOTE: The diagnostic is suspended at the first legal segment point following the first test failure.

`f` The address to be executed to generate a sync pulse. The address must be a macro index word address specified in the diagnostic listing. The sync pulse is physically available on bit 36 of the peripheral unit (PU) address bus.

`g` The test to be executed before enabling the functions loop, sync, advance or step.

`h` The number of segments the diagnostic execution is stepped. If no phase is currently active, a phase number must be specified. If defaulted, one segment is executed. If automatic segmenting is active, one segment equates to one DIAL statement.

`i` The phase numbers to be executed, which may be a single decimal number, a range (e.g., x-y), a list (e.g., x,y,z...), or a combination of range and list. A list or combination must be enclosed in parentheses. If this parameter is specified, execution will be from the start of the phase.

GROWTH Diagnose the growth parts in addition to the operational parts.

PSW Execute protection switch tests. This parameter applies only when **CONTR** is specified and only affects phase 10.

DLT Delete the action previously enabled. This applies to **FFAIL, PAUSE** `e`, **SYNC** `f`, **ENABLE** `g`. The action to delete must be specified.

`j` The number of times the diagnostic s repeated. Maximum value is 255. If the **ADR** parameter is specified with a range of addresses, the default value is infinity; otherwise, the default value is one.

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`k` The specified address range to be executed, which may be a single octal address or a range of octal addresses. The addresses must be a valid segment point macro index word addresses specified in the diagnostic listing. If automatic segmenting is active, any index word address is valid; otherwise, the next index word address following the SEGMENT statement is valid. If a single address is given, execution will advance up to the specified address and then be suspended. If a range of addresses is specified, the diagnostic will loop from the last address given to the first address.

NOTE: For looping, the execution will always be from the start of the phase to the last address, then loop back to the first address. If no phase is currently active, a phase number must be specified.

4. SYSTEM RESPONSE

`?R,DPLX FAIL` Insufficient system Resources are available to determine the validity of the message. The diagnostics are not available from the disk system. (Clear the Duplex failure or use `SYSRTPAD/TPAD`.)

`NG` No Good. Start message never sent or using channel other than the one used to start the diagnostic.

`PF` Printout Follows. Followed by an `EX:DT` output message(s).

`RL` Retry Later. Indicates the diagnostic is not in the interactive mode or is not ready for input.

5. REFERENCES

PIDENTs
- DCONMAIN
- MIRA
- PUDGDT

Practice 234-180-020, *Diagnostic Language - DIAL*
Practice 234-180-260, *4ESS™ Peripheral Diagnostic Program - Description*

PA-4A002-01, *4ESS™ User's Manual*

Input Messages
- `CLR:MACLI`
- `DGN:DT`
- `OP:MACLI`
- `STOP:MACLI`

Output Message
- `EX:DT`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . EX:EST
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Exercises the specified echo suppressor terminal (EST) in an interactive diagnostic mode. In the `EX:` mode, all diagnostics are executed as if they were running in an unconditional (`UCL`) mode, even though that parameter is not available as an input option. The same is true for the `RAW` function. Both `UCL` and `RAW` are described in the corresponding `DGN:EST` input message.

Format [1] is used to start the interactive diagnostic.
Format [2] is used to modify, that is, to add or delete, the options that apply during the diagnostic execution.
Format [3] is used to step the diagnostic execution.
Format [4] is used to loop within the diagnostic, advance to the specified address, or execute the specified phase or phases.
Format [5] is used to stop an infinite loop or continue execution of a phase currently suspended by Format [3] or [4].

2. FORMAT

[1] **EX:EST** a{,**CONTR** b|,**ESU** c};**START**[:[**PUB** d][,**GROWTH**] [,**PSW**][,**ESCSEL**]]!

[2] **EX:EST** a[;[**RDT** e][,**DLT**]][:[**PAUSE** f][,**FFAIL**][,**SYNC** g] [,**ENABLE** h]]!

[3] **EX:EST** a;**STEP**[i][:**PH** j]!

[4] **EX:EST** a[;**RPT** k][:[**PH** j][,**ADR** l]]!

[5] **EX:EST** a!

3. EXPLANATION OF MESSAGE

a	Echo suppressor terminal member number to be exercised (0-31).
b	Controller to be exercised (0 or 1).
c	Echo suppressor unit (**ESU**) to be exercised (0-14).
START	Start the exercise of the specified unit. The exercise will be active until terminated by a `STOP:MACLI` input message.
d	Helper peripheral unit bus (**PUB**) member number. This input is valid only when **CONTR** specified on the EST is in GROWTH or SPECIAL GROWTH.

SEE PROPRIETARY NOTICE ON COVER PAGE

GROWTH Diagnose the growth parts in addition to the operational parts.

PSW Execute protection switch tests. This parameter applies only when **CONTR** is specified. Only phase 12 is affected when this parameter is specified.

ESCSEL Enable controller to subunit bus selection tests. This parameter applies only when **ESU** is specified and only applies to echo suppressor unit (ESU) phase 3.

e The channel to which the output messages are redirected. Default is output on the input channel.

DLT Delete the action previously enabled. This applies to **FFAIL**, **PAUSE** f, **SYNC** g, **ENABLE** h. The action to delete must be specified.

f The address at which the diagnostic execution is suspended. The address must be a valid segment point macro-index-word address specified in the diagnostic listing. If automatic segmenting is active, any index word address is valid; otherwise, the next index word address following the segment statement is valid. Execution may be resumed by inputing the **EX:** message with no optional parameters.

FFAIL Suspend diagnostic execution after the first test failure has occurred. Execution is resumed by the **EX:** command with no optional parameters specified.

NOTE: The diagnostic is suspended at the first legal segment point following the first test failure.

g The address to be executed to generate a synchronous pulse. The address must be a macro index word address specified in the diagnostic listing. The sync pulse is physically available on bit 36 of the peripheral unit (PU) address bus.

h The test to be executed before enabling the function loop, sync, advance or step.

i The number of segments the diagnostic execution is stepped. If no phase is currently active, a phase number must be specified. If defaulted, one segment is executed. If automatic segmenting is active, one segment equates to one DIAL statement.

j The phase numbers to be executed, which may be a single decimal number, a range (eg, x-y), a list (eg, x,y,z...), or a combination of range and list. A list or combination must be enclosed in parentheses. If this parameter is specified, execution will be from the start of the phase.

k The number of times the diagnostic is repeated. Maximum value is 255. If the **ADR** parameter is specified with a range of addresses, the default value is infinity; otherwise, the default value is one.

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`l` The specified address range to be executed. The addresses must be a valid segment point macro-index-word addresses specified in the diagnostic listing. If automatic segmenting is active, any index word address is valid; otherwise, the next index word address following the segment statement is valid. May be a single octal address or a range of octal addresses. If a single address is given, execution will advance up to the specified address and then be suspended. If a range of addresses is specified, the diagnostic will loop from the last address to the first address.

NOTE: For looping, the execution will always be from the start of the phase to the last address, then loop back to the first address. If no phase is currently active, a phase number must be specified.

4. SYSTEM RESPONSE

`?R,DPLX FAIL` Insufficient system Resources are available to determine the validity of the message. The diagnostics are not available from the disk system. (Clear the Duplex failure or use `SYSRTPAD/TPAD`.)

`NG` No Good. Start message never sent or using channel other than the one used to start the diagnostic.

`PF` Printout Follows. Followed by an `EX:EST-PUB` output message(s).

`RL` Retry Later. Indicates the diagnostic is not in the interactive mode or is not ready for input.

5. REFERENCES

PIDENTs
- DCONMAIN
- MIRA
- PUDGEC-- if **`CONTR`** specified
- PUDGEU-- if **`ESU`** specified

Practice 234-180-020, *Diagnostic Language - DIAL*
Practice 234-180-260, *4ESS™ Peripheral Diagnostic Program - Description*

PA-4A002-01, *4ESS™ User's Manual*

Input Messages
- `DGN:EST`
- `STOP:MACLI`

Output Message
- `EX:EST-PUB`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . EX:IFB
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Exercises the specified interface bus (IFB). The `UCL` and `RAW` functions described in the `DGN:` input messages are automatically invoked for this and all other `EX:` input messages.

Format [1] is used to start the interactive diagnostic.
Format [2] is used to modify, that is, to add or delete, the options that apply during the diagnostic execution.
Format [3] is used to step the diagnostic execution.
Format [4] is used to loop within the diagnostic, advance to the specified address, or execute the specified phase or phases.
Format [5] is used to stop an infinite loop or continue execution of a phase currently suspended by Format [3] or [4].

2. FORMAT

[1] **EX:IFB** a**;START!**

[2] **EX:IFB** a[;[**RDT** b][,**DLT**]][:[**PAUSE** c][,**FFAIL**][,**SYNC** d] [,**ENABLE** e]]**!**

[3] **EX:IFB** a**;STEP**[f][:**PH** g]**!**

[4] **EX:IFB** a[**;RPT** h][:[**PH** g][,**ADR** i]]**!**

[5] **EX:IFB** a**!**

3. EXPLANATION OF MESSAGE

a — Member number of the **IFB** to be exercised (0 or 1).

START — Start the exercise on the specified unit. The exercise will be active until terminated by a `STOP:MACLI` input message.

b — The channel to which the output messages are redirected. Default is to output on the input channel. See the User Guidelines of the *Input Message Document* for a list of channel names.

DLT — Delete the action previously enabled. This applies to **FFAIL**, **PAUSE** c, **SYNC** d, **ENABLE** e.

c — The address at which the diagnostic execution is suspended. The address must be a SEGINIT macro index word address specified in the diagnostic listing. Execution may be resumed by inputing **EX:IFB** with no optional parameters.

SEE PROPRIETARY NOTICE ON COVER PAGE

FFAIL Suspend diagnostic execution after the first test failure has occurred. Execution is resumed by the **EX:IFB** command with no optional parameters specified.

NOTE: The diagnostic is suspended at the first legal segment point following the first test failure.

d The address to be executed to generate a synchronous (SYNC) pulse. The address must be a macro index word address specified in the diagnostic listing. The synchronous pulse is physically available at the back of the active central control (CC) on the coax connector labeled "GCPSYN".

e The test to be executed before enabling the functions loop, sync, advance, or step.

f The number of segments the diagnostic execution is stepped. If no phase is currently active, a phase number must be specified. If defaulted, one segment is executed.

g The phase numbers to be executed, which may be a single decimal number, a range (x-y), a list (x,y,...), or a combination of a range and list. A list or combination must be enclosed in parentheses. If this parameter is specified, execution will be from where the phase is suspended.

h The number of times the diagnostic is repeated. Maximum value is 255. If the **ADR** parameter with a range of addresses is specified, the default value is infinity; else the default value is 1.

i The address range to be executed, which may be a single octal address or a range of octal addresses. All addresses must be SEGINIT macro index words specified in the diagnostic listing. If a single address is given, execution will advance up to the specified address and then be suspended. If a range of addresses is specified, the diagnostic will loop from the last address to the first address.

NOTE: For looping, the execution will always be from the start of the phase to the last address, then loop back to the first address. If no phase is currently active, a phase number must be specified.

Valid looping addresses are listed under the Data Table Test Location and Segment Loop Address Index at the back of the diagnostic program listing. Looping on invalid addresses (i.e., not specified in this index) may be possible but test results may not be valid.

4. SYSTEM RESPONSE

?R,DPLX FAIL Insufficient system Resources are available to determine the validity of the message. The diagnostics are not available from the disk system. (Clear the Duplex failure or use SYSRTPAD/TPAD.)

SEE PROPRIETARY NOTICE ON COVER PAGE

`PF` Printout Follows. Followed by an `EX:IFB` output message.

5. REFERENCES

PIDENTs
IFDG--, where -- = all valid phase numbers
listed in PIDENT DCONTABL for PREFIX=IFDG, UTYPE=1XLUIFB

Practice 254-280-040, *Diagnostic Language - DL-1*
Practice 254-280-220, *Diagnostic Programs - Description*

PA-4A002-01, *4ESS™ User's Manual*

Input Messages
`DGN:IFB`
`STOP:MACLI`

Output Message
`EX:IFB`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . EX:IOUS
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Exercises the specified input/output unit selector (IOUS). The UCL and RAW functions described in the DGN: input messages are automatically invoked for all EX: input messages.

Format [1] is used to start the interactive diagnostic.
Format [2] is used to modify, that is, to add or delete, the options that apply during the diagnostic execution.
Format [3] is used to step the diagnostic execution.
Format [4] is used to loop within the diagnostic, advance to the specified address, or execute the specified phase or phases.
Format [5] is used to stop an infinite loop or continue execution of a phase currently suspended by Format [3] or [4].

2. FORMAT

[1] **EX:IOUS** a{,**IPUB** b|,**IOMP** c|,**IOUC** d};**START**[:[**PUB** e][,**PORT** f]]!

[2] **EX:IOUS** a[;[**RDT** g][,**DLT**]][:[**PAUSE** h][,**FFAIL**][,**SYNC** i] [,**ENABLE** j]]!

[3] **EX:IOUS** a;**STEP**[k][:**PH** l]!

[4] **EX:IOUS** a[;**RPT** m][:[**PH** l][,**ADR** n]]!

[5] **EX:IOUS** a!

3. EXPLANATION OF MESSAGE

a — Member number of the **IOUS** to exercise (0-7).

b — Member number of the interface peripheral unit bus (**IPUB**) exercise (0 or 1).

c — Member number of the input/output microprocessor (**IOMP**) to exercise for the input/output processor (IOP) frame only (0 or 1).

d — Member number of the input/output unit controller (**IOUC**) to exercise (0-15).

START — Start the exercise of the specified unit. The exercise will be active until terminated by a STOP:MACLI input message.

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`e` Helper peripheral unit bus (**PUB**) member number (0 or 1). This parameter can be used when IOUS phases are executed, and is designed to be used in a growth situation to specify the out-of-service bus when diagnosing the new unit.

`f` The port (0,1,2) used for the answer-back feature in which an ENQ inquiry character is sent on the port specified. Must be used in conjunction with an IOUS parameter and an IOUC parameter.

`g` The channel to which output messages are redirected. Default is to output on the input channel. See the User Guidelines of the *Input Message Document* for a list of channel names.

DLT Delete the action previously enabled. This applies to **FFAIL**, **PAUSE** `h`, **SYNC** `i`, **ENABLE** `j`. The action to delete must be specified.

`h` The address where the diagnostic execution is suspended. The address must be a SEGINIT macro index word address specified in the diagnostic listing. Execution may be resumed by inputing **EX:IOUS** with no optional parameters.

FFAIL Suspend diagnostic execution after the first test failure has occurred. Execution is resumed by the **EX:IOUS** command with no optional parameters specified.

NOTE: The diagnostic is suspended at the first legal segment point following the first test failure.

`i` The address, which when executed, generates a SYNC pulse. The address must be a macro index word address specified in the diagnostic listing. The SYNC pulse is physically available at the back of the active central control (CC) on the COAX connector labeled "GCPSYN".

`j` The test which must be executed to enable the functions loop, sync, advance, or step.

`k` The number of segments the diagnostic execution is stepped. If no phase is currently active, a phase number must be specified. If defaulted, one segment is executed.

`l` The phase number to be executed, which may be a single decimal number, a range (e.g., x-y), a list (e.g., x,y,...), or a combination of a range and list. If a list parameter is specified, execution will be from the start of the phase; otherwise, execution will be from where the phase is suspended.

`m` The number of times the diagnostic is repeated. Maximum value is 255 times. If the **ADR** parameter with a range of addresses is specified, the default value is infinity; otherwise, the default value is one time.

SEE PROPRIETARY NOTICE ON COVER PAGE

`n` The address range to be executed, which may be a single octal address or a range of octal addresses. All addresses must be SEGINIT macro index words specified in the diagnostic listing. If a single address is given, execution will advance up to the specified address and then be suspended. If a range of addresses is specified, the diagnostic will loop from the last address to the first address.

NOTE: For looping, the execution will always be from the start of the phase to the last address, then loop back to the first address. If no phase is currently active, a phase number must be specified.

Valid looping addresses are listed under the Data Table Test Location and Segment Loop Address Index at the back of the diagnostic program listing. Looping on invalid addresses (i.e., not specified in this index) may be possible, but test results may not be valid.

NOTE: In the exercise mode, all diagnostics are executed as if they were running in an unconditional (UCL) mode, even though that parameter is not available as an input option. The same is true for the `RAW` function. Both `UCL` and `RAW` are described in the `DGN:IOUS` input message.

4. SYSTEM RESPONSE

`?R,DPLX FAIL` Insufficient system Resources are available to determine the validity of the message. The diagnostics are not available from the disk system. (Clear the Duplex failure or use `SYSRTPAD/TPAD`.)

`NG` No Good. Start message never sent or using channel other than the one used to start the diagnostic.

`PF` Printout Follows. Followed by an `EX:IOUS` output message.

`RL` Retry Later. Indicates the diagnostic is not in the interactive mode or is not ready for input.

5. REFERENCES

PIDENTs
- DCONMAIN
- MIRA
- PFLRDGNH
- I2DG--, where -- represents all valid phase numbers listed in PIDENT DCONTABL for PREFIX=I2DG, UTYPE=1XLU - for IOF
- IODG--, where -- represents all valid phase numbers listed in PIDENT DCONTABL for PREFIX=IODG, UTYPE=1XLU - for IOP

Practice 254-200-205, *Diagnostic Program Application*
Practice 254-280-040, *Diagnostic Language - DL-1*

PA-4A002-01, *4ESS™ User's Manual*

SEE PROPRIETARY NOTICE ON COVER PAGE

Input Messages

```
CLR:MACLI
DGN:IOUS
OP:MACLI
STOP:MACLI
```

Output Message

```
EX:IOUS
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . EX:LIBSYS
WORK CENTER . . MAC, MOC, NMOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Starts execution of a library program, or inputs data to a library program that is currently active. If the package is not already in core, it will automatically be loaded from file store (FS) to core.

Format [1] is used to specify a particular library program that is to be started.
Format [2] is used to specify data to be placed in the input control block for an active program.

2. FORMAT

[1] **EX:LIBSYS:**[**PKG** a,]**PGM** b,**TASK** c[,**CLIENT** d]**!**

[2] **EX:LIBSYS:CLIENT** e[,**UNITNO** f][,**TESTNO** g][,**NWDS** h]**!**

3. EXPLANATION OF MESSAGE

a	Package (**PKG**) name of the package containing the program to be executed. A default can be set up using the SET:LIBSYS input message.
b	Program (**PGM**) name of the program within package a to be started.
c	Task number within program b to be started.
d	Client number (0-7) to be assigned to program b. If defaulted, the library system will assign an available client number.
e	Client number previously assigned by the library system, which indicates an input control block in which to place data.
f	Test number (**TESTNO**) to be stored in the input control block for client e.
g	Unit number (**UNITNO**) to be stored in the input control block for client e.
h	The number of words (**NWDS**) of data that will be stored in the input control block for client e using the IN:LIBSYS message.

4. SYSTEM RESPONSE

NG,CODE 060	No Good. Client number out of range.
NG,CODE 061	No Good. Invalid combination of keywords specified.

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`NG,CODE 062`	No Good. Invalid attempt to access the input control block while the lock is set.
`NG,CODE 063`	No Good. Invalid attempt to change **`NWDS`**.
`NG,CODE 064`	No Good. A package name was not specified and no default has been set up with a `SET:LIBSYS` input message.
`NG,CODE 065`	No Good. Program name not specified.
`NG,CODE 066`	No Good. Task number not specified.
`NG,CODE 067`	No Good. Internal error detected.
`OK`	Good. Requested data placed in the client's input control block.
`PF`	Printout Follows. Request accepted. An `EX:LIBSYS` output message will follow with the disposition of the request.

5. REFERENCES

PIDENT
LIBREXER

Practice 254-280-214, *Library Control Program*

Input Messages
`IN:LIBSYS`
`SET:LIBSYS`

Output Message
`EX:LIBSYS`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . EX:MUP
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Exercises the specified master control complex (MCC) and utility processor (MUP). The `UCL` and `RAW` functions described in the `DGN:` input messages are automatically invoked for this and all other `EX:` input messages.

Format [1] is used to start the interactive diagnostic.
Format [2] is used to modify, that is, to add or delete, the options that apply during the diagnostic execution.
Format [3] is used to step the diagnostic execution.
Format [4] is used to loop within the diagnostic, advance to the specified address, or execute the specified phase or phases.
Format [5] is used to stop an infinite loop or continue execution of a phase currently suspended by Format [3] or [4].

2. FORMAT

[1] **EX:MUP** a**;START!**

[2] **EX:MUP** a[;[**RDT** b][,**DLT**]][:[**PAUSE** c][,**FFAIL**][,**SYNC** d][,**ENABLE** e]]**!**

[3] **EX:MUP** a**;STEP**[f][:**PH** g]**!**

[4] **EX:MUP** a[**;RPT** h][:[**PH** g][,**ADR** i]]**!**

[5] **EX:MUP** a**!**

3. EXPLANATION OF MESSAGE

a	Member number of the **MUP** to be exercised (0 or 1).
START	Start the exercise on the specified unit. The exercise will be active until terminated by a `STOP:MACLI` input message.
b	The channel to which the output messages are redirected. Default is to output on the input channel. See the User Guidelines of the *Input Message Document* for a list of channel names.
DLT	Delete the action previously enabled. This applies to **FFAIL**, **PAUSE** c, **SYNC** d, **ENABLE** e.
c	The address at which the diagnostic execution is suspended. The address must be a SEGINIT macro index word address specified in the diagnostic listing. Execution may be resumed by inputing **EX:MUP** with no optional parameters.

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FFAIL Suspend diagnostic execution after the first test failure has occurred. Execution is resumed by the **EX:MUP** command with no optional parameters specified.

NOTE: The diagnostic is suspended at the first legal segment point following the first test failure.

d The address to be executed to generate a synchronous (SYNC) pulse. The address must be a macro index word address specified in the diagnostic listing. The synchronous pulse is physically available at the back of the active central control (CC) on the coax connector labeled "GCPSYN".

e The test to be executed before enabling the functions loop, sync, advance, or step.

f The number of segments the diagnostic execution is stepped. If no phase is currently active, a phase number must be specified. If defaulted, one segment is executed.

g The phase numbers to be executed, which may be a single decimal number, a range (x-y), a list (x,y,...), or a combination of a range and list. A list or combination must be enclosed in parentheses. If this parameter is specified, execution will be from where the phase is suspended.

h The number of times the diagnostic is repeated. Maximum value is 255. If the **ADR** parameter with a range of addresses is specified, the default value is infinity; else the default value is 1.

i The address range to be executed, which may be a single octal address or a range of octal addresses. All addresses must be SEGINIT macro index words specified in the diagnostic listing. If a single address is given, execution will advance up to the specified address and then be suspended. If a range of addresses is specified, the diagnostic will loop from the last address to the first address.

NOTE: For looping, the execution will always be from the start of the phase to the last address, then loop back to the first address. If no phase is currently active, a phase number must be specified.

Valid looping addresses are listed under the Data Table Test Location and Segment Loop Address Index at the back of the diagnostic program listing. Looping on invalid addresses (i.e., not specified in this index) may be possible but test results may not be valid.

4. SYSTEM RESPONSE

?R,DPLX FAIL Insufficient system Resources are available to determine the validity of the message. The diagnostics are not available from the disk system. (Clear the Duplex failure or use SYSRTPAD/TPAD.)

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`PF` Printout Follows. Followed by an `EX:MUP` output message.

5. REFERENCES

PIDENTs
MCDG--, where -- = all valid phase numbers
listed in PIDENT DCONTABL for PREFIX=MCDG, UTYPE=1XLUMUP

Practice 254-280-040, *Diagnostic Language - DL-1*
Practice 254-280-220, *Diagnostic Programs - Description*

PA-4A002-01, *4ESS™ User's Manual*

Input Messages
`DGN:MUP`
`STOP:MACLI`

Output Message
`EX:MUP`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . EX:NCLK
WORK CENTER . . MAC, MOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Exercises the specified network clock (NCLK) in an interactive diagnostic mode. In the exercise mode, all diagnostics are executed as if they were running in an unconditional (UCL) mode, even though that parameter is not available as an input option. The same is true for the `RAW` function. Both `UCL` and `RAW` are described in the corresponding `DGN:NCLK` input message.

Format [1] is used to start the interactive diagnostic.
Format [2] is used to modify, that is, to add or delete, the options that apply during the diagnostic execution.
Format [3] is used to step the diagnostic execution.
Format [4] is used to loop within the diagnostic, advance to the specified address, or execute the specified phase or phases.
Format [5] is used to stop an infinite loop or continue execution of a phase currently suspended by Format [3] or [4].

2. FORMAT

[1] **EX:NCLK** 0,**CHAIN** a;**START!**

[2] **EX:NCLK** 0[;[**RDT** b][,**DLT**]][:[**PAUSE** c][,**FFAIL**][,**SYNC** d]
[,**ENABLE** e]]**!**

[3] **EX:NCLK** 0;**STEP**[f][:**PH** g]**!**

[4] **EX:NCLK** 0[;**RPT** h][:[**PH** g][,**ADR** i]]**!**

[5] **EX:NCLK** 0**!**

3. EXPLANATION OF MESSAGE

a — Chain of the network clock to be exercised (0-3).

START — Start the exercise of the specified unit. The exercise will be active until terminated by a `STOP:MACLI` input message.

b — The channel to which the output messages are redirected. Default is output on the input channel.

DLT — Delete the action previously enabled. This applies to **FFAIL**, **PAUSE** c, **SYNC** d, **ENABLE** e. The action to delete must be specified.

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c — The address at which the diagnostic execution is suspended. The address must be a valid segment point macro index word address specified in the diagnostic listing. If automatic segmenting is active, any index word address is valid; otherwise, the next index word address following the SEGMENT statement is valid. Execution may be resumed by inputing **EX:NCLK** with no optional parameters.

FFAIL — Suspend diagnostic execution after the first test failure has occurred. Execution is resumed by the **EX:NCLK** command with no optional parameters specified.

NOTE: The diagnostic is suspended at the first legal segment point following the first test failure.

d — The address to be executed to generate a sync pulse. The address must be a macro index word address specified in the diagnostic listing. The sync pulse is physically available on bit 36 of the peripheral unit (PU) address bus.

e — The test to be executed before enabling the functions loop, sync, advance or step.

f — The number of segments the diagnostic execution is stepped. If no phase is currently active, a phase number must be specified. If defaulted, one segment is executed. If automatic segmenting is active, one segment equates to one DIAL statement.

g — The specified phase numbers to be executed, which may be a single decimal number, a range (eg, x-y), a list (eg, x,y,z...), or a combination of range and list. A list or combination must be enclosed in parentheses. If this parameter is specified, execution will be from the start of the phase.

h — The number of times the diagnostic is repeated. Maximum value is 255. If the **ADR** parameter is specified with a range of addresses, the default value is infinity; otherwise, the default value is one.

i — The specified address range to be executed, which may be a single octal address or a range of octal addresses. The addresses must be a valid segment point macro index word addresses specified in the diagnostic listing. If automatic segmenting is active, any index word address is valid; otherwise, the next index word address following the SEGMENT statement is valid. If a single address is given, execution will advance up to the specified address and then be suspended. If a range of addresses is specified, the diagnostic will loop from the last address to the first address.

NOTE: For looping, the execution will always be from the start of the phase to the last address, then loop back to the first address. If no phase is currently active, a phase number must be specified.

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4. SYSTEM RESPONSE

`?R,DPLX FAIL`	Insufficient system Resources are available to determine the validity of the message. The diagnostics are not available from the disk system. (Clear the Duplex failure or use `SYSRTPAD/TPAD`.)
`NG`	No Good. Start message never sent or using channel other than the one used to start the diagnostic.
`PF`	Printout Follows. Followed by an `EX:NCLK` output message(s).
`RL`	Retry Later. Indicates the diagnostic is not in the interactive mode or is not ready for input.

5. REFERENCES

PIDENTs
- DCONMAIN
- MIRA
- PUDGNC

Practice 234-180-020, *Diagnostic Language - DIAL*
Practice 234-180-260, *4ESS™ Peripheral Diagnostic Program - Description*

PA-4A002-01, *4ESS™ User's Manual*

Input Messages
- `CLR:MACLI`
- `DGN:NCLK`
- `OP:MACLI`
- `STOP:MACLI`

Output Message
- `EX:NCLK`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . EX:PCD
WORK CENTER . . MOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Exercises the specified power control distribution (PCD) frame in an interactive diagnostic mode.

Format [1] is used to start the interactive diagnostic.
Format [2] is used to modify, that is, to add or delete, the options that apply during the diagnostic execution.
Format [3] is used to step the diagnostic execution.
Format [4] is used to loop within the diagnostic, advance to the specified address, or execute the specified phase or phases.
Format [5] is used to stop an infinite loop or continue execution of a phase currently suspended by Format [3] or [4].

2. FORMAT

[1] **EX:PCD** a**;START!**

[2] **EX:PCD** a[;[**RDT** b][,**DLT**]][:[**PAUSE** c][,**FFAIL**][,**SYNC** d] [,**ENABLE** e]]**!**

[3] **EX:PCD** a**;STEP**[f][:**PH** g]**!**

[4] **EX:PCD** a[**;RPT** h][:[**PH** g][,**ADR** i]]**!**

[5] **EX:PCD** a**!**

3. EXPLANATION OF MESSAGE

a — Member number of the **PCD** to be exercised (0 or 1).

START — Start the exercise of the specified unit. The exercise will be active until terminated by a STOP:MACLI input message.

b — The channel to which output messages are redirected. Default is to output on the input channel. See the User Guidelines of the *Input Message Document* for a list of channel names.

DLT — Delete the action previously enabled. This applies to **FFAIL**, **PAUSE** c, **SYNC** d, **ENABLE** e. The action to delete must be specified.

c — The address where the diagnostic execution is suspended. The address must be a SEGINIT macro index word address specified in the diagnostic listing. Execution may be resumed by inputing the **EX:** message with no optional parameters.

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FFAIL Suspend diagnostic execution after the first test failure has occurred. Execution is resumed by the **EX** command with no optional parameters specified.

NOTE: The diagnostic is suspended at the first legal segment point following the first test failure.

d The address which generates a synchronous (SYNC) pulse. The address must be a macro index word address specified in the diagnostic listing. The synchronous pulse is physically available at the back of the active central control (CC) on the COAX connector labeled "GCPSYN".

e The test to be executed to enable the function loop, advance or step.

NOTE: In the **EX**: mode, all diagnostics are executed as if they were running in an unconditional (UCL) mode even though that parameter is not available as an input option. The same is true for the RAW function. Both UCL and RAW are described in the DGN: input message.

f The number of steps the diagnostic execution is stepped. If no phase is currently active, a phase number must be specified. If defaulted, one segment is executed.

g The phase numbers to be executed, which may be a single decimal number, a range (eg, x-y), a list (eg, x,y,...) or a combination of a range and list. A list or combination must be enclosed in parentheses. If this parameter is specified, execution will be from the start of the phase; otherwise, execution will be from where the phase is suspended.

h The number of times the diagnostic is repeated. Maximum value is 255 times. If the **ADR** parameter with a range of addresses is specified, the default value is infinity; otherwise, the default value is one time.

i The address range to be executed, which may be a single octal address or a range of octal addresses. All addresses must be SEGINIT macro index words specified in the diagnostic listing. If a single address is given, execution will advance up to the specified address and then be suspended. If a range of numbers is specified, the diagnostic will loop from the last address to the first address.

NOTE: For looping, the execution will always be from the start of the phase to the last address, then loop back to the first address. If no phase is currently active, a phase number must be specified.

Valid looping addresses are listed under the Data Table Test Location and Segment Loop Address Index at the back of the diagnostic program listing. Looping on invalid addresses (i.e., not specified in this index) may be possible but test results may not be valid.

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NOTE: In the exercise mode, all diagnostics are executed as if they were running in an unconditional (UCL) mode, even though that parameter is not available as an input option. The same is true for the `RAW` function. Both `UCL` and `RAW` are described in the `DGN:PCD` input message.

4. SYSTEM RESPONSE

`?R,DPLX FAIL`	Insufficient system Resources are available to determine the validity of the message. The diagnostics are not available from the disk system. (Clear the Duplex failure or use `SYSRTPAD/TPAD`.)
`NG`	No Good. Start message never sent or using channel other than the one used to start the diagnostic.
`PF`	Printout Follows. Followed by an `EX:PCD` output message.
`RL`	Retry Later. Indicates the diagnostic is not in the interactive mode or is not ready for input.

5. REFERENCES

PIDENTs
- DCONMAIN
- MIRA
- PDFR
- PDDG--, where -- represents all valid phase numbers
  listed in PIDENT DCONTABL for PREFIX=PDDG, UTYPE=1XLUPDF

Practice 254-200-205, *Diagnostic Program Application*
Practice 254-280-040, *Diagnostic Language - DL-1*

PA-4A002-01, *4ESS™ User's Manual*

Input Messages
- `CLR:MACLI`
- `DGN:PCD`
- `OP:MACLI`
- `STOP:MACLI`

Output Message
- `EX:PCD`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . EX:PS
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Exercises the specified program store (PS) in an interactive diagnostic mode. In the exercise mode, all diagnostics are executed as if they were running in an unconditional (UCL) mode, even though that parameter is not available as an input option. The same is true of the `RAW` function. Both `UCL` and `RAW` are described in the corresponding `DGN:PS` input message.

Format [1] is used to start the interactive diagnostic.
Format [2] is used to modify, that is, to add or delete, the options that apply during the diagnostic execution.
Format [3] is used to step the diagnostic execution.
Format [4] is used to loop within the diagnostic, advance to the specified address, or execute the specified phase or phases.
Format [5] is used to stop an infinite loop or continue execution of a phase currently suspended by Format [3] or [4].

2. FORMAT

[1] **EX:PS** a;**START**[,b]**!**

[2] **EX:PS** a[;[**RDT** c][,**DLT**]][:[**PAUSE** d][,**FFAIL**][,**SYNC** e][,**ENABLE** f]]**!**

[3] **EX:PS** a;**STEP**[g][:**PH** h]**!**

[4] **EX:PS** a[;**RPT** i][:[**PH** h][,**ADR** j][,**TSTADR** k][,**L** l][,**HIDATA** m]
[,**TSTPAT** n]**!**

[5] **EX:PS** a**!**

3. EXPLANATION OF MESSAGE

a — Member number of the **PS** to be exercised (0-13).

START — Start the exercise of the specified unit. The exercise will be active until terminated by a `STOP:MACLI` input message.

b — The margin settings for diagnosing the core store.

c — The channel to which the output messages are redirected. Default is to output on the input channel. See the User Guidelines of the *Input Message Document* for a list of channel names.

DLT — Delete the action previously enabled. This applies to **FFAIL**, **PAUSE** d, **SYNC** e, **ENABLE** f.

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`d` The address at which the diagnostic execution is suspended. The address must be a SEGINIT macro index word address specified in the diagnostic listing. Execution may be resumed by inputing the **EX:PS** command with no optional parameters specified.

FFAIL Suspend diagnostic execution after the first test failure has occurred. Execution is resumed by the **EX:PS** command with no optional parameters specified.

NOTE: The diagnostic is suspended at the first legal segment point following the first test failure.

`e` The address to be executed to generate a synchronous (SYNC) pulse. The address must be a macro index word address specified in the diagnostic listing. The synchronous pulse is physically available at the back of the active central control (CC) on the coax connector labeled "GCPSYN".

`f` The test to be executed before enabling the functions loop, sync, advance or step.

`g` The number of segments the diagnostic execution is stepped. If no phase is currently active, a phase number must be specified. If defaulted, one segment is executed.

`h` The specified phase numbers to be executed, which may be a single decimal number, a range (x-y), a list (x,y,...) or a combination of a range and list. A list or combination must be enclosed in parentheses. If this parameter is specified, execution will be from the start of the phase; otherwise, execution will be from where the phase is suspended.

`i` The number of times the diagnostic is repeated. Maximum value is 255 times. If the **ADR** parameter with a range of addresses is specified, the default value is infinity; otherwise, the default value is one time.

`j` The address range to be executed, which may be a single octal address or a range of octal addresses. All addresses must be SEGINIT macro index words specified in the diagnostic listing. If a single address is given, execution will advance up to the specified address and then be suspended. If a range of addresses is specified, the diagnostic will loop from the last address to the first address.

NOTE: For looping, the execution will always be from the start of the phase to the last address, then loop back to the first address. If no phase is currently active, a phase number must be specified.

Valid looping addresses are listed under the Data Table Test Location and Segment Loop Address Index at the back of the diagnostic program listing. Looping on invalid addresses (i.e., not specified in this index) may be possible but test results may not be valid.

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NOTE: The following variables are only valid for **PH** = 97.

k	Test address (**TSTADR**) (bits 0-19) of the store to be exercised, the variable is any store address in octal. Maximum address is 3777777. Default is address 0.
l	Length of consecutive addresses to be exercised. Default length is 1. The length is specified in decimal.
m	The 8 data-bit test pattern for the high byte of the address to be used with **TSTADR**. Default value is 0.
n	The 24 data-bit test pattern (**TSTPAT**), to be used with **TSTADR**. Default is 0.

4. SYSTEM RESPONSE

?R,DPLX FAIL	Insufficient system Resources are available to determine the validity of the message. The diagnostics are not available from the disk system. (Clear the Duplex failure or use SYSRTPAD/TPAD.)
PF	Printout Follows. Followed by an EX:PS output message.

5. REFERENCES

PIDENTs
MUDG--, where -- = all valid phase numbers
listed in PIDENT DCONTABL for PREFIX=MUDG, UTYPE=1XLUPS - core store

Practice 254-280-040, *Diagnostic Language - DL-1*
Practice 254-280-220, *Diagnostic Programs - Description*

PA-4A002-01, *4ESS™ User's Manual*

Input Messages
DGN:PS
STOP:MACLI

Output Message
EX:PS

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . EX:PSB
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Exercises the specified program store bus (PSB) in an interactive diagnostic mode. This input message has five forms as shown. In the EX: mode, all diagnostics are executed as if they were running in an unconditional (UCL) mode, even though that parameter is not available as an input option. The same is true for the RAW function. Both UCL and RAW are described in the DGN: input message.

Format [1] is used to start the interactive diagnostic.
Format [2] is used to modify, that is, to add or delete, the options that apply during the diagnostic execution.
Format [3] is used to step the diagnostic execution.
Format [4] is used to loop within the diagnostic, advance to the specified address, or execute the specified phase or phases.
Format [5] is used to stop an infinite loop or continue execution of a phase currently suspended by format [3] or [4].

2. FORMAT

[1] **EX:PSB** a**;START!**

[2] **EX:PSB** a[;[**RDT** b][,**DLT**]][:[**PAUSE** c][,**FFAIL**][,**SYNC** d] [,**ENABLE** e]]**!**

[3] **EX:PSB** a**;STEP**[f][:**PH** g]**!**

[4] **EX:PSB** a[**;RPT** h][:[**PH** g][,**ADR** i]]**!**

[5] **EX:PSB** a**!**

3. EXPLANATION OF MESSAGE

a — Member number of the **PSB** to be exercised (0 or 1).

START — Start the exercise of the specified unit. The exercise will be active until terminated by a STOP:MACLI input message.

b — The channel to which output messages are redirected. Default is to output on the input channel. See the User Guidelines of the *Input Message Document* for a list of channel names.

DLT — Delete the action previously enabled. This applies to **FFAIL**, **PAUSE** c, **SYNC** d, **ENABLE** e.

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c — The address at which the diagnostic execution is suspended. The address must be a SEGINIT macro index word address specified in the diagnostic listing. Execution may be resumed by inputting the **EX**: input message with no optional parameters.

FFAIL — Suspend diagnostic execution after the first test failure has occurred. Execution is resumed by the **EX** command with no optional parameters specified.

NOTE: The diagnostic is suspended at the first legal segment point following the first test failure.

d — The address to be executed to generate a synchronous (SYNC) pulse. The address must be a macro index word address specified in the diagnostic listing. The synchronous pulse is physically available at the back of the active central control (CC) on the coax connector labeled "GCPSYN".

e — The test to be executed before enabling the functions loop, sync, advance or step.

f — The number of segments the diagnostic execution is stepped. If no phase is currently active, a phase number must be specified. If defaulted, one segment is executed.

g — The specified phase numbers to be executed, which may be a single decimal number, a range (e.g., x-y), a list (e.g., x,y,...) or a combination of a range and list. A list or combination must be enclosed in parentheses. If this parameter is specified, execution will be from the start of the phase; otherwise, execution will be from where the phase is suspended.

h — The number of times the diagnostic is repeated. Maximum value is 255 times. If the **ADR** parameter with a range of addresses is specified, the default value is infinity; otherwise, the default value is one time.

i — The specified address range to be executed, which may be a single octal address or a range of octal addresses. All addresses must be SEGINIT macro index words specified in the diagnostic listing. If a single address is given, execution will advance up to the specified address and then be suspended. If a range of addresses is specified, the diagnostic will loop from the last address to the first address.

NOTE: For looping, the execution will always be from the start of the phase to the last address, then loop back to the first address. If no phase is currently active, a phase number must be specified.

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Valid looping addresses are listed under the Data Table Test Location and Segment Loop Address Index at the back of the diagnostic program listing. Looping on invalid addresses (i.e., not specified in this index) may be possible but test results may not be valid.

4. SYSTEM RESPONSE

`?R,DPLX FAIL` Insufficient system Resources are available to determine the validity of the message. The diagnostics are not available from the disk system. (Clear the Duplex failure or use `SYSRTPAD/TPAD`.)

`PF` Printout Follows. Followed by an `EX:PSB` input message.

5. REFERENCES

PIDENT
MBDG01

Practice 254-280-040, *Diagnostic Language - DL-1*
Practice 254-280-220, *Diagnostic Programs - Description*

PA-4A002-01, *4ESS™ User's Manual*

Input Messages
`DGN:PSB`
`EX:PSB`
`STOP:MACLI`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . EX:PUB
WORK CENTER . . MOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Exercises the specified peripheral unit bus (PUB) in an interactive diagnostic mode. In the exercise mode, all diagnostics are executed as if they were running in an unconditional (UCL) mode, even though that parameter is not available as an input option. The same is true for the `RAW` function. Both `UCL` and `RAW` are described in the corresponding `DGN:PUB-RPT` input message.

Format [1] is used to start the interactive diagnostic.
Format [2] is used to modify, that is, to add or delete, the options that apply during the diagnostic execution.
Format [3] is used to step the diagnostic execution.
Format [4] is used to loop within the diagnostic, advance to the specified address, or execute the specified phase or phases.
Format [5] is used to stop an infinite loop or continue execution of a phase currently suspended by Format [3] or [4].

2. FORMAT

[1] **EX:PUB** a;**START**[:[b c][,**GROWTH**]]!

[2] **EX:PUB** a[;[**RDT** d][,**DLT**]][:[**PAUSE** e][,**FFAIL**][,**SYNC** f] [,**ENABLE** g]]!

[3] **EX:PUB** a;**STEP**[h][:**PH** i]!

[4] **EX:PUB** a[;**RPT** j][:[**PH** i][,**ADR** k]]!

[5] **EX:PUB** a!

3. EXPLANATION OF MESSAGE

a	Peripheral unit bus number to be diagnosed (0 or 1).
START	Start the exercise of the specified unit. The exercise will be active until terminated by a `STOP:MACLI` input message.
b,c	Helper unit type and member number to be used. Valid helper units are: TMSP, TSI, SCLK, SP, or TGR. Specification of a unit type will effect the diagnosis of the bus circuitry at the specified unit.
GROWTH	Test the growth parts in addition to the operational parts.
d	The channel to which output messages are redirected. Default is output on the input channel.

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DLT Delete the action previously enabled. This applies to **FFAIL**, **PAUSE** e, **SYNC** f, **ENABLE** g. The action to delete must be specified.

e The address at which the diagnostic execution is suspended. The address must be a valid segment point macro index word address specified in the diagnostic listing. If automatic segmenting is active, any index word address is valid; otherwise, the next index word address following the SEGMENT statement is valid. Execution may be resumed by inputing the **EX:PUB** message with no optional parameters.

FFAIL Suspended diagnostic execution after the first test failure has occurred. Execution is resumed by the **EX:PUB** command with no optional parameters specified.

NOTE: The diagnostic is suspended at the first legal segment point following the first test failure.

f Generate a synchronous pulse at the execution of the address. The address must be a macro index word address specified in the diagnostic listing. The sync pulse is physically available on bit 36 of the peripheral unit (PU) address bus.

g The test to be executed before enabling the functions loop, sync, advance or step.

h The number of segments the diagnostic execution is stepped. If no phase is currently active, then a phase number must be specified. If defaulted one segment is executed. If automatic segmenting is active, one segment equates to one DIAL statement.

i The specified phase numbers to be executed, which may be a single decimal number, a range (e.g., x-y), a list (e.g., x,y,z,...), or a combination of range and list. A list or combination must be enclosed in parentheses. If this parameter is specified, execution will be from the start of the phase.

j The number of times the diagnostic is repeated. Maximum value is 255. If the **ADR** parameter is specified with a range of addresses, the default value is infinity; otherwise, the default value is one.

k The specified address range, to be executed, which may be a single octal address or a range of octal addresses. The addresses must be a valid segment point macro index word addresses specified in the diagnostic listing. If automatic segmenting is active, any index word address is valid; otherwise, the next word address following the SEGMENT statement is valid. If a single address is given, execution will advance up to the specified address and then be suspended. If a range of addresses is specified, the diagnostic will loop from the last address to the first address.

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NOTE: For looping, the execution will always be from the start of the phase to the last address, then loop back to the first address. If no phase is currently active, a phase number must be specified.

4. SYSTEM RESPONSE

`?R,DPLX FAIL`	Insufficient system Resources are available to determine the validity of the message. The diagnostics are not available from the disk system. (Clear the Duplex failure or use `SYSRTPAD/TPAD`.)
`NG`	No Good. Start message never sent or using channel other than the one used to start the diagnostic.
`PF`	Printout Follows. Followed by an `EX:PUB` output message(s).
`RL`	Retry Later. Indicates the diagnostic is not in the interactive mode or is not ready for input.

5. REFERENCES

PIDENTs
- DCONMAIN
- MIRA
- PUDGPB

Practice 234-180-020, *Diagnostic Language - DIAL*
Practice 234-180-260, *4ESS™ Peripheral Diagnostic Program - Description*

PA-4A002-01, *4ESS™ User's Manual*

Input Messages
- `CLR:MACLI`
- `DGN:PUB-RPT`
- `OP:MACLI`
- `STOP:MACLI`

Output Message
- `EX:PUB`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . EX:SCLK
WORK CENTER . . MAC, MOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Exercises the specified system clock (SCLK) in an interactive diagnostic mode. In the exercise mode, all diagnostics are executed as if they were running in an unconditional (UCL) mode, even though that parameter is not available as an input option. The same is true for the `RAW` function. Both `UCL` and `RAW` are described in the corresponding `DGN:SCLK-NCSU` input message.

Format [1] is used to start the interactive diagnostic.
Format [2] is used to modify, that is, to add or delete, the options that apply during the diagnostic execution.
Format [3] is used to step the diagnostic execution.
Format [4] is used to loop within the diagnostic, advance to the specified address, or execute the specified phase or phases.
Format [5] is used to stop an infinite loop or continue execution of a phase currently suspended by Format [3] or [4].
Format [6] is used to start the interactive diagnostic and allow the network clock (NCLK) synchronization unit (NCSU) as a subunit and the NCLK as a helper.

2. FORMAT

[1] **EX:SCLK** 0,{**IPUB** a| **CONTR** b}**;START!**

[2] **EX:SCLK** 0[;[**RDT** c][,**DLT**]][:[**PAUSE** d][,**FFAIL**][,**SYNC** e]
[,**ENABLE** f]]**!**

[3] **EX:SCLK** 0;**STEP**[g][:**PH** h]**!**

[4] **EX:SCLK** 0[;**RPT** i][:[**PH** h][,**ADR** j]]**!**

[5] **EX:SCLK** 0**!**

[6] **EX:SCLK** 0,{**IPUB** a|**CONTR** b|**NCSU** 0}**;START**[:**SCLK** 0,**NCSU** 0]
[:**NCLK** 0,**CHAIN** k]**!**

3. EXPLANATION OF MESSAGE

a	SCLK bus circuitry to be exercised (0 or 1).
b	Controller to be exercised (0 or 1).
START	Start the exercise of the specified unit. The exercise will be active until terminated by a `STOP:MACLI` input message.

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`c` The channel to which the output messages are redirected. Default is output on the input channel.

DLT Delete the action previously enabled. This applies to **FFAIL**, **PAUSE** `d`, **SYNC** `e`, **ENABLE** `f`. The action to delete must be specified.

`d` The address at which diagnostic execution is suspended. The address must be a valid segment point macro index word address specified in the diagnostic listing. If automatic segmenting is active, any index word address is valid; otherwise, the next index word address following the SEGMENT statement is valid. Execution may be resumed by inputing the **EX:SCLK** message with no optional parameters.

FFAIL Suspend diagnostic execution after the first test failure has occurred. Execution is resumed by the **EX:SCLK** command with no optional parameters specified.

NOTE: The diagnostic is suspended at the first legal segment point following the first test failure.

`e` The address to be executed to generate a synchronous pulse. The address must be a macro index word address specified in the diagnostic listing. The sync pulse is physically available on bit 36 of the peripheral unit (PU) address bus.

`f` The test to be executed before enabling the function loop, sync, advance, or step.

`g` The number of segments the diagnostic execution is stepped. If no phase is currently active, a phase number must be specified. If defaulted, one segment is executed. If automatic segmenting is active, one segment equates to one DIAL statement.

`h` The specified phase numbers to be executed, which may be a single decimal number, a range (e.g., x-y), a list (e.g., x,y,z...), or a combination of range and list. A list or combination must be enclosed in parentheses. If this parameter is specified, execution will be from the start of the phase.

`i` The number of times the diagnostic is repeated. Maximum value is 255. If the **ADR** parameter is specified with a range of addresses, the default value is infinity; otherwise, the default value is one.

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`j` The specified address range to be executed, which may be a single octal address or a range of octal addresses. The addresses must be valid segment point macro index word addresses specified in the diagnostic listing. If automatic segmenting is active, any index word address is valid; otherwise, the next index word address following the SEGMENT statement is valid. If a single address is given, execution will advance up to the specified address and then be suspended. If a range of addresses is specified, the diagnostic will loop from the last address to the first address.

NOTE: For looping, the execution will always be from the start of the phase to the last address, then loop back to the first address. If no phase is currently active, a phase number must be specified.

`k` Network clock chain (0-3) used as a helper.

4. SYSTEM RESPONSE

`?R,DPLX FAIL` Insufficient system Resources are available to determine the validity of the message. The diagnostics are not available from the disk system. (Clear the Duplex failure or use `SYSRTPAD/TPAD`.)

`NG` No Good. Start message never sent or using channel other than the one used to start the diagnostic.

`PF` Printout Follows. Followed by the `EX:SCLK` output message(s).

`RL` Retry Later. Indicates the diagnostic is not in the interactive mode or is not ready for input.

5. REFERENCES

PIDENTs
DCONMAIN
MIRA
PUDGSC--
PUDGSC99, if IPUB is specified

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Practice 234-180-020, *Diagnostic Language - DIAL*
Practice 234-180-260, *4ESS™ Peripheral Diagnostic Program - Description*

PA-4A002-01, *4ESS™ User's Manual*

Input Messages

```
CLR:MACLI
DGN:SCLK-NCSU
OP:MACLI
STOP:MACLI
```

Output Message

```
EX:SCLK
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . EX:SCS
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Exercises in an interactive diagnostic mode the Service Circuit System (SCS).

Format [1] is used to start the interactive diagnostic.
Format [2] is used to modify, that is, to add or delete, the options that apply during the diagnostic execution.
Format [3] is used to step the diagnostic execution.
Format [4] is used to loop within the diagnostic, advance to the specified address, or execute the specified phase or phases.
Format [5] is used to stop an infinite loop or continue execution of a phase currently suspended by Format [3] or [4].

2. FORMAT

[1] **EX:SCS** a{**,CONTR** b|**,SCU** c}**;START**[**:**[**PUB** d][**,GROWTH**]]**!**

[2] **EX:SCS** a[**;**[**RDT** e][**,DLT**]][**:**[**PAUSE** f][**,FFAIL**][**,SYNC** g]
[**,ENABLE** h]]**!**

[3] **EX:SCS** a**;STEP**[i][**:PH** j]**!**

[4] **EX:SCS** a[**;RPT** k][**:**[**PH** i][**,ADR** l]]**!**

[5] **EX:SCS** a**!**

3. EXPLANATION OF MESSAGE

a	**SCS** member number to be exercised (0-7).
b	Controller to be exercised (0 or 1).
c	Service Circuit Unit (**SCU**) to be exercised (0-15).
START	Start the exercise of the specified unit. The exercise will be active until terminated by a STOP:MACLI input message.
d	Helper Peripheral Unit Bus (**PUB**) member number. This input is valid only when **CONTR** is specified and the SCS is in GROWTH or SPECIAL GROWTH.
GROWTH	Diagnose the growth parts in addition to the operational parts.
e	The channel to which the output messages are redirected. Default is output on the input channel.

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DLT Delete the action previously enabled. This applies to **FFAIL**, **PAUSE** f, **SYNC** g, **ENABLE** h. The action to delete must be specified.

f The address at which the diagnostic execution is suspended. The address must be a valid segment point macro-index-word address specified in the diagnostic listing. If automatic segmenting is active, any index word address is valid; otherwise, the next index word address following the SEGMENT statement is valid. Execution may be resumed by inputing the **EX:SCS** message with no optional parameters.

FFAIL Suspend diagnostic execution after the first test failure has occurred. Execution is resumed by the **EX:SCS** command with no optional parameters specified.

NOTE: The diagnostic is suspended at the first legal segment point following the first test failure.

g The address to be executed to generate a Synchronous (SYNC) pulse. The address must be a macro index word address specified in the diagnostic listing. The sync pulse is physically available on bit 36 of the PUB.

h The test to be executed before enabling the function loop, sync, advance or step.

i The number of segments the diagnostic execution are stepped. If no phase is currently active, a phase number must be specified. If defaulted, one segment is executed. If automatic segmenting is active, one segment equates to one DIAL statement.

j The phase numbers to be executed, which may be a single decimal number, a range (e.g., x-y), a list (e.g., x,y,z...), or a combination of range and list. A list or combination must be enclosed in parentheses. If this parameter is specified, execution will be from the start of the phase.

k The number of times the diagnostic is repeated. Maximum value is 255. If the **ADR** parameter is specified with a range of addresses, the default value is infinity; otherwise, the default value is one.

l Execute the specified address range. The addresses must be a valid segment point macro-index-word addresses specified in the diagnostic listing. If automatic segmenting is active, any index word address is valid; otherwise, the next index word address following the SEGMENT statement is valid. May be a single octal address or a range of octal addresses. If a single address is given, execution will advance up to the specified address and then be suspended. If a range of addresses is specified, the diagnostic will loop from the last address to the first address.

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NOTE: For looping, the execution will always be from the start of the phase to the last address, then loop back to the first address. If no phase is currently active, a phase number must be specified.

NOTE: In the exercise mode, all diagnostics are executed as if they were running in an Unconditional (UCL) mode, even though that parameter is not available as an input option. The same is true for the `RAW` function. Both `UCL` and `RAW` are described in the `DGN:SCS` input message.

4. SYSTEM RESPONSE

`?R,DPLX FAIL`	Insufficient system Resources are available to determine the validity of the message. The diagnostics are not available from the disk system. (Clear the Duplex failure or use `SYSRTPAD/TPAD`.)
`NG`	No Good. Start message never sent or using channel other than the one used to start the diagnostic.
`PF`	Printout Follows. Followed by an `EX:SCS` output message(s).
`RL`	Retry Later. Indicates the diagnostic is not in the interactive mode or is not ready for input.

5. REFERENCES

PIDENTs
- DCONMAIN
- MIRA
- PUDGCONT

Practice 234-180-020, *Diagnostic Language - DIAL*
Practice 234-180-260, *4ESS™ Peripheral Diagnostic Program - Description*

PA-4A002-01, *4ESS™ User's Manual*

Input Messages
- `CLR:MACLI`
- `DGN:SCS`
- `OP:MACLI`
- `STOP:MACLI`

Output Message
- `EX:SCS`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . EX:SP
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Exercises the specified SP in an interactive diagnostic mode. In the exercise mode, all diagnostics are executed as if they were running in an unconditional (UCL) mode, even though that parameter is not available as an input option. The same is true for the `RAW` function. Both `UCL` and `RAW` are described in the corresponding `DGN:SP` input message.

Format [1] is used to start the interactive diagnostic.
Format [2] is used to modify, that is, to add or delete, the options that apply during the diagnostic execution.
Format [3] is used to step the diagnostic execution.
Format [4] is used to loop within the diagnostic, advance to the specified address, or execute the specified phase or phases.
Format [5] is used to stop an infinite loop or continue execution of a phase currently suspended by Format [3] or [4].

2. FORMAT

[1] **EX:SP** a{,**IPUB** b|,**CONTR** c};**START**[:[**PUB** d][,**PH** e][,**GROWTH**] [,**MML**][,**MEMORY**]]!

[2] **EX:SP** a[;[**RDT** f][,**DLT**]][:[**PAUSE** g][,**FFAIL**][,**SYNC** h] [,**ENABLE** i]]!

[3] **EX:SP** a;**STEP**[j][:**PH** e]!

[4] **EX:SP** a[;**RPT** k][:[**PH** e][,**ADR** l]]!

[5] **EX:SP** a!

3. EXPLANATION OF MESSAGE

a	Member number of the **SP** to be exercised (0-31).
b	SP bus circuitry to be exercised (0 or 1).
c	Controller to be diagnosed (0 or 1).
START	Start the exercise of the specified unit. The exercise will be active until terminated by a `STOP:MACLI` input message.
d	Helper peripheral unit bus (PUB) member number to be used (0 or 1). This input is valid only if the SP is in `GROWTH` or `SPECIAL GROWTH`.

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e — The specified phase numbers to be executed, which may be a single decimal number, a range (e.g., x-y), a list (e.g., x,y,z...), or a combination of range and list. A list or combination must be enclosed in parentheses. If this parameter is specified, execution will be from the start of the phase.

GROWTH — Diagnose the growth parts in addition to the operational parts.

MML — Execute the full matrix tests which check for nonclassical faults such as shorts between bits. Default is to execute the basic tests. Only the following phases for the indicated number type are affected when the **MML** parameter is specified.

Member type = SP (Phases 17,18,19, and 20)
Member type = SP 2 (Phases 20 and 21)
Member type = CRMTX (Phase 1)

MEMORY — Execute the full memory tests which check for nonclassical faults such as shorts between bits. Default is to execute the basic tests. Only phase 10 is affected when this parameter is specified.

f — The channel to which the output messages are redirected. Default is output on the input channel.

DLT — Delete the action previously enabled. This applies to **FFAIL**, **PAUSE** g, **SYNC** h, **ENABLE** i. The action to delete must be specified.

g — The address at which the diagnostic execution is suspended. The address must be a valid segment point macro index word address specified in the diagnostic listing. If automatic segmenting is active, an index word address is valid; otherwise, the next index word address following the SEGMENT statement is valid. Execution may be resumed by inputing **EX:SP** message with no optional parameters.

FFAIL — Suspend diagnostic execution after the first test failure has occurred. Execution is resumed by the **EX:SP** command with no optional parameters specified.

NOTE: The diagnostic is suspended at the first legal segment point following the first test failure.

h — The address to be executed to generate a synchronous pulse. The address must be a macro index word address specified in the diagnostic listing. The sync pulse is physically available on bit 36 of the peripheral unit (PU) address bus.

i — The test to be executed before enabling the function loop, sync, advance or step.

j — The number of segments the diagnostic execution is stepped. If no phase is currently active, a phase number must be specified. If defaulted, one segment is executed. If automatic segmenting is active, one segment equates to one DIAL statement.

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`k` The number of times the diagnostic is repeated. Maximum value is 255. If the **ADR** parameter is specified with a range of addresses, the default value is infinity; otherwise, the default value is one.

`l` The specified address range to be executed, which may be a single octal address or a range of octal addresses. The addresses must be a valid segment point macro index word addresses specified in the diagnostic listing. If automatic segmenting is active, any index word address is valid; otherwise, the next index word address following the `SEGMENT` statement is valid. If a single address is given, execution will advance up to the specified address and then be suspended. If a range of addresses is specified, the diagnostic will loop from the last address to the first address.

NOTE: For looping, the execution will always be from the start of the phase to the last address, then loop back to the first address. If no phase is currently active, a phase number must be specified.

4. SYSTEM RESPONSE

`?R,DPLX FAIL` Insufficient system Resources are available to determine the validity of the message. The diagnostics are not available from the disk system. (Clear the Duplex failure or use `SYSRTPAD/TPAD`.)

`NG` No Good. Start message never sent or using channel other than the one used to start the diagnostic.

`PF` Printout Follows. Followed by an `EX:SP-PUB` output message(s).

`RL` Retry Later. Indicates the diagnostic is not in the interactive mode or is not ready for input.

5. REFERENCES

PIDENTs
- DCONMAIN
- MIRA
- PUDGSP--, if CONTR is specified (MT=1)
- PUDGDP--, if CONTR is specified and unit is a SP2 (MT=2)
- PUDGSP--, if CONTR is specified and unit is a CRMTX (MT=4)
- PUDGPB05, if IPUB is specified
- PUDGSP99, if IPUB is specified

Practice 234-180-020, *Diagnostic Language - DIAL*
Practice 234-180-260, *4ESS™ Peripheral Diagnostic Program - Description*

PA-4A002-01, *4ESS™ User's Manual*

SEE PROPRIETARY NOTICE ON COVER PAGE

Input Messages

```
CLR:MACLI
DGN:SP
OP:MACLI
STOP:MACLI
```

Output Message

```
EX:SP-PUB
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . EX:SSD
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Exercises the specified scan and signal distributor (SSD). The `UCL` and `RAW` functions described in the `DGN:` input messages are automatically invoked for this and all other `EX:` input messages.

Format [1] is used to start the interactive diagnostic.
Format [2] is used to modify, that is, to add or delete, the options that apply during the diagnostic execution.
Format [3] is used to step the diagnostic execution.
Format [4] is used to loop within the diagnostic, advance to the specified address, or execute the specified phase or phases.
Format [5] is used to stop an infinite loop or continue execution of a phase currently suspended by Format [3] or [4].

2. FORMAT

[1] **EX:SSD** a**;START!**

[2] **EX:SSD** a[;[**RDT** b][,**DLT**]][:[**PAUSE** c][,**FFAIL**][,**SYNC** d] [,**ENABLE** e]]**!**

[3] **EX:SSD** a**;STEP**[f][:**PH** g]**!**

[4] **EX:SSD** a[**;RPT** h][:[**PH** g][,**ADR** i]]**!**

[5] **EX:SSD** a**!**

3. EXPLANATION OF MESSAGE

a	Member number of the **SSD** to be exercised (0 or 1).
START	Start the exercise on the specified unit. The exercise will be active until terminated by a `STOP:MACLI` input message.
b	The channel to which the output messages are redirected. Default is to output on the input channel. See the User Guidelines of the *Input Message Document* for a list of channel names.
DLT	Delete the action previously enabled. This applies to **FFAIL**, **PAUSE** c, **SYNC** d, **ENABLE** e.

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`c` The address at which the diagnostic execution is suspended. The address must be a SEGINIT macro index word address specified in the diagnostic listing. Execution may be resumed by inputing **`EX:SSD`** with no optional parameters.

`FFAIL` Suspend diagnostic execution after the first test failure has occurred. Execution is resumed by the **`EX:SSD`** command with no optional parameters specified.

NOTE: The diagnostic is suspended at the first legal segment point following the first test failure.

`d` The address to be executed to generate a synchronous (SYNC) pulse. The address must be a macro index word address specified in the diagnostic listing. The synchronous pulse is physically available at the back of the active central control (CC) on the coax connector labeled "GCPSYN".

`e` The test to be executed before enabling the functions loop, sync, advance, or step.

`f` The number of segments the diagnostic execution is stepped. If no phase is currently active, a phase number must be specified. If defaulted, one segment is executed.

`g` The phase numbers to be executed, which may be a single decimal number, a range (x-y), a list (x,y,...), or a combination of a range and list. A list or combination must be enclosed in parentheses. If this parameter is specified, execution will be from where the phase is suspended.

`h` The number of times the diagnostic is repeated. Maximum value is 255. If the **`ADR`** parameter with a range of addresses is specified, the default value is infinity; else the default value is 1.

`i` The address range to be executed, which may be a single octal address or a range of octal addresses. All addresses must be SEGINIT macro index words specified in the diagnostic listing. If a single address is given, execution will advance up to the specified address and then be suspended. If a range of addresses is specified, the diagnostic will loop from the last address to the first address.

NOTE: For looping, the execution will always be from the start of the phase to the last address, then loop back to the first address. If no phase is currently active, a phase number must be specified.

Valid looping addresses are listed under the Data Table Test Location and Segment Loop Address Index at the back of the diagnostic program listing. Looping on invalid addresses (i.e., not specified in this index) may be possible but test results may not be valid.

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4. SYSTEM RESPONSE

`?R,DPLX FAIL`	Insufficient system Resources are available to determine the validity of the message. The diagnostics are not available from the disk system. (Clear the Duplex failure or use `SYSRTPAD/TPAD`.)
`PF`	Printout Follows. Followed by an `EX:SSD` output message.

5. REFERENCES

PIDENTs
PDDG--, where -- = all valid phase numbers
listed in PIDENT DCONTABL for PREFIX=PDDG, UTYPE=1XLUSSD

Practice 254-280-040, *Diagnostic Language - DL-1*
Practice 254-280-220, *Diagnostic Programs - Description*

PA-4A002-01, *4ESS™ User's Manual*

Input Messages
`DGN:SSD`
`STOP:MACLI`

Output Message
`EX:SSD`

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ID . . . . . EX:TGR
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Exercises the specified terminal grouping (TGR) frame in an interactive diagnostic mode. In the exercise mode, all diagnostics are executed as if they were running in an unconditional (UCL) mode, even though that parameter is not available as an input option. The same is true for the `RAW` function. Both `UCL` and `RAW` are described in the corresponding `DGN:TGR` input message.

Format [1] is used to start the interactive diagnostic.
Format [2] is used to modify, that is, to add or delete, the options that apply during the diagnostic execution.
Format [3] is used to step the diagnostic execution.
Format [4] is used to loop within the diagnostic, advance to the specified address, or execute the specified phase or phases.
Format [5] is used to stop an infinite loop or continue execution of a phase currently suspended by Format [3] or [4].

2. FORMAT

[1] **EX:TGR** a{**,IPUB** b|**,CONTR** c|**,TER** d}**;START**[:[**PUB** e][**,GROWTH**] [**,ERRINJ**]]**!**

[2] **EX:TGR** a[**;**[**RDT** f][**,DLT**]][:[**PAUSE** g][**,FFAIL**][**,SYNC** h] [**,ENABLE** i]]**!**

[3] **EX:TGR** a**;STEP**[j][**:PH** k]**!**

[4] **EX:TGR** a[**;RPT** l][:[**PH** k][**,ADR** m]]**!**

[5] **EX:TGR** a**!**

3. EXPLANATION OF MESSAGE

a	Member number of the **TGR** to be exercised (0-15).
b	TGR bus circuitry to be exercised (0 or 1).
c	Controller to be exercised (0 or 1).
d	Terminal to be exercised (0-15).
START	Start the exercise of the specified unit. The exercise will be active until terminated by a `STOP:MACLI` input message.

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e — Helper peripheral unit bus (PUB) member number to be used (0 or 1). This input is valid only if the **CONTR** is specified and the TGR is in GROWTH or SPECIAL GROWTH.

GROWTH — Diagnose the growth parts in addition to the operational parts.

ERRINJ — Run in error interject mode.

f — The channel to which the output messages are redirected. Default is output on the input channel.

DLT — Delete the action previously enabled. This applies to **FFAIL**, **PAUSE** g, **SYNC** h, and **ENABLE** i. The action to delete must be specified.

g — The address at which the diagnostic execution is suspended. The address must be a valid segment point macro index word address specified in the diagnostic listing. If automatic segmenting is active, any index word address is valid; otherwise, the next index word address following the SEGMENT statement is valid. Execution may be resumed by inputing the **EX:TGR** message with no optional parameters.

FFAIL — Suspend diagnostic execution after the first test failure has occurred. Execution is resumed by the **EX:TGR** command with no optional parameters specified.

NOTE: The diagnostic is suspended at the first legal segment point following the first test failure.

h — The address to be executed to generate a synchronous pulse. The address must be a macro index word address specified in the diagnostic listing. The sync pulse is physically available on bit 36 of the peripheral unit (PU) address bus.

i — The test to be executed before enabling the functions loop, sync, advance, or step.

j — The number of segments the diagnostic execution is stepped. If no phase is currently active, a phase number must be specified. If defaulted, one segment is executed. If automatic segmenting is active, one segment equates to one DIAL statement.

k — The specified phase numbers to be executed, which may be a single decimal number, a range (x-y), a list (x,y,z...), or a combination of range and list. A list or combination must be enclosed in parentheses. If this parameter is specified, execution will be from the start of the phase.

See the DGN:TGR input message for a list of applicable phase numbers and their corresponding PIDENTs.

l — The number of times the diagnostic is repeated. Maximum value is 255. If the **ADR** parameter is specified with a range or addresses, the default value is infinity. Otherwise, the default value is one.

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`m` The specified address range to be executed. The addresses must be valid segment point macro index word addresses specified in the diagnostic listing. If automatic segmenting is active, any index word address is valid; otherwise, the next index word address following the `SEGMENT` statement is valid. May be a single octal address or a range of octal addresses. If a single address is given, execution will advance up to the specified address and then be suspended. If a range of addresses is specified, the diagnostic will loop from the last address to the first address.

NOTE: For looping, the execution will always be from the start of the phase to the last address, then loop back to the first address. If no phase is currently active, a phase number must be specified.

4. SYSTEM RESPONSE

`?R,DPLX FAIL` Insufficient system Resources are available to determine the validity of the message. The diagnostics are not available from the disk system. (Clear the Duplex failure or use `SYSRTPAD/TPAD`.)

`NG` No Good. Start message never sent or using channel other than the one used to start the diagnostic.

`PF` Printout Follows. Followed by an `EX:TGR-PUB` output message(s).

`RL` Retry Later. Indicates the diagnostic is not in the interactive mode or is not ready for input.

5. REFERENCES

PIDENTs
- DCONMAIN
- MIRA
- PUDGTA--, if CONTR is specified
- PUDGTE--, if TER is specified
- PUDGTA99, if IPUB is specified

Practice 234-180-020, *Diagnostic Language - DIAL*
Practice 234-180-260, *4ESS™ Peripheral Diagnostic Program - Description*

PA-4A002-01, *4ESS™ User's Manual*

Input Messages
- `CLR:MACLI`
- `DGN:TGR`
- `OP:MACLI`
- `STOP:MACLI`

Output Message
- `EX:TGR-PUB`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . EX:TMSP
WORK CENTER . . MAC, MOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Exercises the specified Time Multiplexed Switch Pair (**TMSP**) in an interactive diagnostic mode. In the exercise mode, all diagnostics are executed as if they were running in an Unconditional (UCL) mode, even though that parameter is not available as an input option. The same is true for the RAW function. Both UCL and RAW are described in the corresponding DGN:TMSP input message.

Format [1] is used to start the interactive diagnostic.
Format [2] is used to modify, that is, to add or delete, the options that apply during the diagnostic execution.
Format [3] is used to step the diagnostic execution.
Format [4] is used to loop within the diagnostic, advance to the specified address, or execute the specified phase or phases.
Format [5] is used to stop an infinite loop or continue execution of a phase currently suspended by Format [3] or [4].

2. FORMAT

[1] **EX:TMSP** a,{**CONTR** b|**C0IPUB** c|**C1IPUB** d};**START**[:[**CONTR** e]
[,**PUB** f][,**GROWTH**][,**MEMORY** [g]][,**LEVEL** h][,**SWITCH** i]
[,**TTSI** j][,**TCONTR** k][,**RTSI** l][,**RCONTR** m][,**OPTION** n]]!

[2] **EX:TMSP** a[;[**RDT** o][,**DLT**]][:[**PAUSE** p][,**FFAIL**][,**SYNC** q]
[,**ENABLE** r]]!

[3] **EX:TMSP** a;**STEP**[s][:**PH** t]!

[4] **EX:TMSP** a[;**RPT** u][:[**PH** t][,**ADR** v]]!

[5] **EX:TMSP** a!

3. EXPLANATION OF MESSAGE

a	Member number of the **TMSP** to be exercised (0-3).
b	Controller to be exercised (0-1).
c	Time Multiplexed Switch (TMS) controller 0 bus circuitry to be exercised (0-1).
d	TMS controller 1 bus circuitry to be exercised (0-1).
START	Start the exercise of the specified unit. The exercise will be active until terminated by a STOP:MACLI input message.

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`e` Execute the diagnostic using the specified Time Slot Interchange Frame (TSIF) controllers. This parameter specifies which TSIF controllers will be used by phase 8 as helper units. If defaulted, the standby controllers are used when possible.

`f` Helper Peripheral Unit Bus (**PUB**) member number to be used (`0-1`).

GROWTH Diagnose the growth parts in addition to the operational parts.

`g` The specified memory to be tested, which may be a single octal number (`0-177`). If no number is specified, all equipped memories will be tested. Only phase 5 is affected when this parameter is specified.

`h` The specified crosspoint level to be tested, which may be a single octal number 0-17. Default is that all equipped levels are tested. Only phase 8 is affected when this parameter is specified.

`i` The specified crosspoint switch to be tested, which may be a single octal number 0-17. Default is that all equipped switches are tested. Only phase 8 is affected when this parameter is specified.

`j` Member number of the Time Slot Interchange (TSI) to be used as the transmit TSI (`0-63`). Only phase 9 is affected when this parameter is specified.

`k` Transmit TSI controller (`0-1`). Only phase 9 is affected when this parameter is specified.

`l` Member number of the TSI to be used as the receive TSI (`0-63`).

`m` Receive TSI controller (`0-1`). Only phase 9 is affected when this parameter is specified.

`n` A 2-digit number to specify whether to run regular phase 9 or super phase 9, to start tests from the specified helper member(s), and to specify the holding time for each path set up in the diagnostic. The 2-digit number is interpreted as `xy`:

`x` = 0 for regular phase 9.
1 for super phase 9.
2 for regular phase 9 plus continue option.
3 for super phase 9 plus continue option.

`y` = 0 for 100 millisecond holding times.
1 for 500 millisecond holding times.
2 for 1 second holding times.
3 for 1 minute holding times.

`o` The channel to which the output messages are redirected. Default is output on the input channel.

DLT Delete the action previously enabled. This applies to **FFAIL**, **PAUSE** `p`, **SYNC** `q`, **ENABLE** `r`. The action to delete must be specified.

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p — The address at which the diagnostic execution is suspended. The address must be a valid segment point macro index word address specified in the diagnostic listing. If automatic segmenting is active, any index word address is valid; otherwise, the next index word address following the SEGMENT statement is valid. Execution may be resumed by inputing the **EX:TMSP** message with no optional parameters.

FFAIL — Suspend diagnostic execution after the first test failure has occurred. Execution is resumed by the **EX:TMSP** command with no optional parameters specified.

NOTE: The diagnostic is suspended at the first legal segment point following the first test failure.

q — The address to be executed to generate a synchronous pulse. The address must be a macro index word address specified in the diagnostic listing. The sync pulse is physically available on bit 36 of the Peripheral Unit (PU) address bus.

r — The test to be executed before enabling the functions, loop, sync, advance, or step.

s — The number of segments the diagnostic execution is stepped. If no phase is currently active, a phase number must be specified. If defaulted, one segment is executed. If automatic segmenting is active, one segment equates to one DIAL statement.

t — The specified phase numbers to be executed, which may be a single decimal number, a range (e.g., x-y), a list (e.g., x,y,z...), or a combination of range and list. A list or combination must be enclosed in parentheses. If this parameter is specified, execution will be from the start of the phase.

u — The number of times the diagnostic is repeated. Maximum value is 255. If the **ADR** parameter is specified with a range of addresses, the default value is infinity; otherwise, the default value is one.

v — The specified address range to be executed. The addresses must be valid segment point macro index word addresses specified in the diagnostic listing. If automatic segmenting is active, any index word address is valid; otherwise, the next index word address following the SEGMENT statement is valid. May be a single octal address or a range of octal addresses. If a single address is given, execution will advance up to the specified address and then be suspended. If a range of addresses is specified, the diagnostic will loop from the last address to the first address.

NOTE: For looping, the execution will always be from the start of the phase to the last address, then loop back to the first address. If no phase is currently active, a phase number must be specified.

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4. SYSTEM RESPONSE

`?R,DPLX FAIL`	Insufficient system Resources are available to determine the validity of the message. The diagnostics are not available from the disk system. (Clear the Duplex failure or use `SYSRTPAD/TPAD`.)
`NG`	No Good. Start message never sent or using channel other than the one used to start the diagnostic.
`PF`	Printout Follows. Followed by the `EX:TMSP-PUB` output message(s).
`RL`	Retry Later. Indicates the diagnostic is not in the interactive mode or is not ready for input.

5. REFERENCES

PIDENTs
- DCONMAIN
- MIRA
- PUDGTG01 through PUDGTG09, if CONTR is specified
- PUDGTG99, if C0IPUB or C1IPUB is specified

Practice 234-180-020, *Diagnostic Language - DIAL*
Practice 234-180-260, *4ESS™ Peripheral Diagnostic Program - Description*

PA-4A002-01, *4ESS™ User's Manual*

Input Messages
- `CLR:MACLI`
- `DGN:TMSP`
- `OP:MACLI`
- `STOP:MACLI`

Output Message
- `EX:TMSP-PUB`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . EX:TSI
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E21 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Exercises the specified Time Slot Interchange (**TSI**) frame in an interactive diagnostic mode. In the **EX:** mode, all diagnostics are executed as if they were running in an Unconditional (UCL) mode, even though that parameter is not available as an input option. The same is true for the RAW function. Both UCL and RAW are described in the corresponding DGN:TSI input message.

Format [1] is used to start the interactive diagnostic of the specified unit. The exercise will be active until terminated by a STOP:MACLI input message.

Format [2] is used to modify, that is, to add or delete, the options that apply during the diagnostic execution.

Format [3] is used to step the diagnostic execution.

Format [4] is used to loop within the diagnostic, advance to the specified address, or execute the specified phase or phases.

Format [5] is used to stop an infinite loop or continue execution of a phase currently suspended by Format [3] or [4].

2. FORMAT

[1] **EX:TSI** a{**,IPUB** b|**,CONTR** c}**;START**[:[**PUB** d][**,GROWTH**][**,COAX** e]]**!**

[2] **EX:TSI** a[**;**[**RDT** g][**,DLT**]][:[**PAUSE** g][**,FFAIL**][**,SYNC** h][**,ENABLE** i]]**!**

[3] **EX:TSI** a**;STEP**[j][**:PH** k]**!**

[4] **EX:TSI** a[**;RPT** l][:[**PH** k][**,ADR** m]]**!**

[5] **EX:TSI** a**!**

3. EXPLANATION OF MESSAGE

a	**TSI** frame member number to be diagnosed (0-63). Only even member numbers are valid for TSI-B.
b	**TSI** bus circuitry to be exercised (0 or 1).
c	Controller to be diagnosed (0 or 1).
d	Helper Peripheral Unit Bus (**PUB**) member number to be used (0 or 1). This input is valid only if the **TSI** is in GROWTH or SPECIAL GROWTH.

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GROWTH Diagnose the growth parts in addition to the operational parts.

e The specified out-of-service port over which the Echo Suppressor Unit (ESU) DS-120 loop tests are executed (in addition to the in-service ports).

f The channel to which the output messages are redirected. Default is output on the input channel.

DLT Delete the action previously enabled. This applies to **FFAIL**, **PAUSE**, **SYNC**, **ENABLE**. The action to delete must be specified.

g The address at which the diagnostic execution is suspended. The address must be a valid segment point macro index word address specified in the diagnostic listing. If automatic segmenting is active, any index word address is valid; otherwise, the next index word address following the SEGMENT statement is valid. Execution may be resumed by inputting the **EX:** message with no optional parameters.

FFAIL Suspend diagnostic execution after the first test failure has occurred. Execution is resumed by the **EX** command with no optional parameters specified.

NOTE: The diagnostic is suspended at the first legal segment point following the first test failure.

h The address to be executed to generate a **SYNC** pulse. The address must be a macro index word address specified in the diagnostic listing. The **SYNC** pulse is physically available on bit 36 of the Peripheral Unit (PU) address bus.

i The test to be executed before enabling the functions loop, **SYNC**, advance or step.

j The number of segments the diagnostic execution is stepped. If no phase is currently active, a phase number must be specified. Default is one segment executed. If automatic segmenting is active, one segment equates to one DIAL statement.

k The specified phase numbers to be executed, which may be a single decimal number, a range (e.g., x-y), a list (e.g., x,y,z...), or a combination of range and list. A list or combination must be enclosed in parentheses. If this parameter is specified, execution will be from the start of the phase.

l The number of times the diagnostic is repeated (1 - 255). If the **ADR** parameter is specified with a range of addresses, the default value is infinity; otherwise, the default value is one.

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`m` The specified address range to be executed. The addresses must be a valid segment point macro index word addresses specified in the diagnostic listing. If automatic segmenting is active, any index word address is valid; otherwise, the next index word address following the `SEGMENT` statement is valid. May be a single octal address or a range of octal addresses. If a single address is given, execution will advance up to the specified address and then be suspended. If a range of addresses is specified, the diagnostic will loop from the last address to the first address.

NOTE: For looping, the execution will always be from the start of the phase to the last address, then loop back to the first address. If no phase is currently active, a phase number must be specified.

4. SYSTEM RESPONSE

`?R,DPLX FAIL` Insufficient system Resources are available to determine the validity of the message. The diagnostics are not available from the disk system. (Clear the Duplex failure or use `SYSRTPAD/TPAD`.)

`NG` No Good. Start message never sent or using channel other than the one used to start the diagnostic.

`PF` Printout Follows. Followed by an `EX:TSI-PUB` output message(s).

`RL` Retry Later. Indicates the diagnostic is not in the interactive mode or is not ready for input.

5. REFERENCES

PIDENTs
DCONMAIN
MIRA
PUDGTI--, where -- represents all valid phase numbers
listed in PIDENT DCONTABL for PREFIX=PUDGTI, UTYPE=1XLUTSI

Practice 234-180-020, *Diagnostic Language - DIAL*
Practice 234-180-260, *4ESS™ Peripheral Diagnostic Program - Description*

PA-4A002-01, *4ESS™ User's Manual*

Input Messages
`CLR:MACLI`
`DGN:TSI`
`OP:MACLI`
`STOP:MACLI`

Output Message
`EX:TSI-PUB`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . EX:VIF
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Exercises the specified voiceband interface frame (VIF) in an interactive diagnostic mode. In the exercise mode, all diagnostics are executed as if they were running in an unconditional (UCL) mode, even though that parameter is not available as an input option. The same is true for the `RAW` function. Both `UCL` and `RAW` are described in the corresponding `DGN:VIF` input message.

Format [1] is used to start the interactive diagnostic.
Format [2] is used to modify, that is, to add or delete, the options that apply during the diagnostic execution.
Format [3] is used to step the diagnostic execution.
Format [4] is used to loop within the diagnostic, advance to the specified address, or execute the specified phase or phases.
Format [5] is used to stop an infinite loop or continue execution of a phase currently suspended by Format [3] or [4].

2. FORMAT

[1] **EX:VIF** a{**,CONTR** b|**,VIU** c}**;START**[**:**[**PUB** d][**,GROWTH**] [**,PSW**]**!**

[2] **EX:VIF** a[**;**[**RDT** e][**,DLT**]][**:**[**PAUSE** f][**,FFAIL**][**,SYNC** g] [**,ENABLE** h]]**!**

[3] **EX:VIF** a**;STEP**[i][**:PH** j]**!**

[4] **EX:VIF** a[**;RPT** k][**:**[**PH** j][**,ADR** l]]**!**

[5] **EX:VIF** a**!**

3. EXPLANATION OF MESSAGE

a	Voiceband interface frame member number to be exercised (0-127).
b	Controller to be exercised (0 or 1).
c	Voiceband interface unit (VIU) to be exercised (0-7).
START	Start the exercise of the specified unit. The exercise will be active until terminated by a `STOP:MACLI` input message.
d	Helper peripheral unit bus (PUB) member number. This input is valid only when **CONTR** is specified, and the VIF is in `GROWTH` or `SPECIAL GROWTH`.

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GROWTH Diagnose the growth parts in addition to the operational parts.

PSW Execute protection switch tests. This parameter applies only when **CONTR** is specified. Only phase 22 is affected when this parameter is specified.

e The channel to which the output messages are redirected. Default is output on the input channel.

DLT Delete the action previously enabled. This applies to **FFAIL**, **PAUSE** f, **SYNC** g, **ENABLE** h. The action to delete must be specified.

f The address at which the diagnostic execution is suspended. The address must be a valid segment point macro index word address specified in the diagnostic listing. If automatic segmenting is active, any index word address is valid; otherwise, the next index word address following the SEGMENT statement is valid. Execution may be resumed by inputing the **EX:VIF** message with no optional parameters.

FFAIL Suspend diagnostic execution after the first test failure has occurred. Execution is resumed by the **EX:VIF** command with no optional parameters specified.

NOTE: The diagnostic is suspended at the first legal segment point following the first test failure.

g The address to be executed to generate a synchronous pulse. The address must be a macro index word address specified in the diagnostic listing. The synchronous pulse is physically available on bit 36 of the peripheral unit (PU) address bus.

h The test to be executed before enabling the function loop, sync, advance or step.

i The number of segments the diagnostic execution is stepped. If no phase is currently active, a phase number must be specified. If defaulted, one segment is executed. If automatic segmenting is active, one segment equates to one DIAL statement.

j The specified phase numbers to be executed. May be a single decimal number, a range (x-y), a list (x,y,z...), or a combination of range and list. A list or combination must be enclosed in parentheses. If this parameter is specified, execution will be from the start of the phase.

k The number of times the diagnostic is repeated. Maximum value is 255. If the **ADR** parameter is specified with a range of addresses, the default value is infinity; otherwise, the default value is one.

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`l` The specified address range to be executed. The addresses must be a valid segment point macro index word addresses specified in the diagnostic listing. If automatic segmenting is active, any index word address is valid; otherwise, the next index word address following the `SEGMENT` statement is valid. May be a single octal address or a range of octal addresses. If a single address is given, execution will advance up to the specified address and then be suspended. If a range of addresses is specified, the diagnostic will loop from the last address to the first address.

NOTE: For looping, the execution will always be from the start of the phase to the last address, then loop back to the first address. If no phase is currently active, a phase number must be specified.

4. SYSTEM RESPONSE

`?R,DPLX FAIL` Insufficient system Resources are available to determine the validity of the message. The diagnostics are not available from the disk system. (Clear the Duplex failure or use `SYSRTPAD/TPAD`.)

`NG` No Good. Start message never sent or using channel other than the one used to start the diagnostic.

`PF` Printout Follows. Followed by an `EX:VIF` output message(s).

`RL` Retry Later. Indicates the diagnostic is not in the interactive mode or is not ready for input.

5. REFERENCES

PIDENTs
- DCONMAIN
- MIRA
- PUDGVC--, if CONTR specified
- PUDGVU--, if VIU specified

Practice 234-180-020, *Diagnostic Language - DIAL*
Practice 234-180-200, *4ESS™ Peripheral Diagnostic Program - Description*

PA-4A002-01, *4ESS™ User's Manual*

Input Messages
- `CLR:MACLI`
- `DGN:VIF`
- `OP:MACLI`
- `STOP:MACLI`

Output Message
- `EX:VIF`

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ID . . . . . EX:XPWR
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Exercises the specified miscellaneous power (XPWR) unit. The `UCL` and `RAW` functions described in the `DGN:` input messages are automatically invoked for this and all other `EX:` input messages.

Format [1] is used to start the interactive diagnostic.
Format [2] is used to modify, that is, to add or delete, the options that apply during the diagnostic execution.
Format [3] is used to step the diagnostic execution.
Format [4] is used to loop within the diagnostic, advance to the specified address, or execute the specified phase or phases.
Format [5] is used to stop an infinite loop or continue execution of a phase currently suspended by Format [3] or [4].

2. FORMAT

[1] **EX:XPWR** a**;START!**

[2] **EX:XPWR** a[;[**RDT** b][,**DLT**]][:[**PAUSE** c][,**FFAIL**][,**SYNC** d] [,**ENABLE** e]]**!**

[3] **EX:XPWR** a**;STEP**[f][**:PH** g]**!**

[4] **EX:XPWR** a[;**RPT** h][:[**PH** g][,**ADR** i]]**!**

[5] **EX:XPWR** a**!**

3. EXPLANATION OF MESSAGE

a	Member number of the **XPWR** to be exercised (0 or 1).
START	Start the exercise on the specified unit. The exercise will be active until terminated by a `STOP:MACLI` input message.
b	The channel to which the output messages are redirected. Default is to output on the input channel. See the User Guidelines of the *Input Message Document* for a list of channel names.
DLT	Delete the action previously enabled. This applies to **FFAIL**, **PAUSE** c, **SYNC** d, **ENABLE** e.

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`c` The address at which the diagnostic execution is suspended. The address must be a SEGINIT macro index word address specified in the diagnostic listing. Execution may be resumed by inputing **EX:XPWR** with no optional parameters.

FFAIL Suspend diagnostic execution after the first test failure has occurred. Execution is resumed by the **EX:XPWR** command with no optional parameters specified.

NOTE: The diagnostic is suspended at the first legal segment point following the first test failure.

`d` The address to be executed to generate a synchronous (SYNC) pulse. The address must be a macro index word address specified in the diagnostic listing. The synchronous pulse is physically available at the back of the active central control (CC) on the coax connector labeled "GCPSYN".

`e` The test to be executed before enabling the functions loop, sync, advance, or step.

`f` The number of segments the diagnostic execution is stepped. If no phase is currently active, a phase number must be specified. If defaulted, one segment is executed.

`g` The phase numbers to be executed, which may be a single decimal number, a range (x-y), a list (x,y,...), or a combination of a range and list. A list or combination must be enclosed in parentheses. If this parameter is specified, execution will be from where the phase is suspended.

`h` The number of times the diagnostic is repeated. Maximum value is 255. If the **ADR** parameter with a range of addresses is specified, the default value is infinity; else the default value is 1.

`i` The address range to be executed, which may be a single octal address or a range of octal addresses. All addresses must be SEGINIT macro index words specified in the diagnostic listing. If a single address is given, execution will advance up to the specified address and then be suspended. If a range of addresses is specified, the diagnostic will loop from the last address to the first address.

NOTE: For looping, the execution will always be from the start of the phase to the last address, then loop back to the first address. If no phase is currently active, a phase number must be specified.

Valid looping addresses are listed under the Data Table Test Location and Segment Loop Address Index at the back of the diagnostic program listing. Looping on invalid addresses (i.e., not specified in this index) may be possible but test results may not be valid.

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4. SYSTEM RESPONSE

`?R,DPLX FAIL`	Insufficient system Resources are available to determine the validity of the message. The diagnostics are not available from the disk system. (Clear the Duplex failure or use `SYSRTPAD/TPAD`.)
`PF`	Printout Follows. Followed by an `EX:XPWR` output message.

5. REFERENCES

PIDENTs
XPDG--, where -- = all valid phase numbers
listed in PIDENT DCONTABL for PREFIX=XPDG, UTYPE=1XLUXPWR

Practice 254-280-040, *Diagnostic Language - DL-1*
Practice 254-280-220, *Diagnostic Programs - Description*

PA-4A002-01, *4ESS™ User's Manual*

Input Messages
`DGN:XPWR`
`STOP:MACLI`

Output Message
`EX:XPWR`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . EX:XTSI
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E24 Rel. 2 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Exercises the specified Expanded Time Slot Interchange (**XTSI**) frame in an interactive diagnostic mode. In the **EX:** mode, all diagnostics are executed as if they were running in an Unconditional (UCL) mode, even though that parameter is not available as an input option. The same is true for the RAW function. Both UCL and RAW are described in the corresponding DGN:XTSI input message.

Format [1] is used to start the interactive diagnostic of the specified unit. The exercise will be active until terminated by a STOP:MACLI input message.

Format [2] is used to modify, that is, to add or delete, the options that apply during the diagnostic execution.

Format [3] is used to step the diagnostic execution.

Format [4] is used to loop within the diagnostic, advance to the specified address, or execute the specified phase or phases.

Format [5] is used to stop an infinite loop or continue execution of a phase currently suspended by Format [3] or [4].

2. FORMAT

[1] **EX:XTSI** a{**,IPUB** b|**,CONTR** c|**,D3U** d|**SPU** e|**IBU 0**}**;START**[**:**[**PUB** f][**,GROWTH**]]**!**

[2] **EX:XTSI** a[**;**[**RDT** g][**,DLT**]][**:**[**PAUSE** h][**,FFAIL**][**,SYNC** i][**,ENABLE** j]]**!**

[3] **EX:XTSI** a**;STEP**[k][**:PH** l]**!**

[4] **EX:XTSI** a[**;RPT** m][**:**[**PH** l][**,ADR** n]]**!**

[5] **EX:XTSI** a**!**

3. EXPLANATION OF MESSAGE

a	**XTSI** frame member number to be diagnosed (0-63). Only even member numbers are valid for **XTSI** frames.
b	**XTSI** bus circuitry to be exercised (0 or 1).
c	Controller to be diagnosed (0 or 1).

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d	Digital Signal Level 3 Unit (**D3U**) to be diagnosed (0-7).
e	Signal Processing Unit (**SPU**) to be diagnosed (0-11).
IBU 0	In-Band Unit (**IBU**) to be diagnosed.
f	Helper Peripheral Unit Bus (**PUB**) member number to be used (0 or 1). This input is valid only if the **XTSI** is in GROWTH or SPECIAL GROWTH.
GROWTH	Diagnose the growth parts in addition to the operational parts.
g	The channel to which the output messages are redirected. Default is output on the input channel.
DLT	Delete the action previously enabled. This applies to **FFAIL**, **PAUSE**, **SYNC**, **ENABLE**. The action to delete must be specified.
h	The address at which the diagnostic execution is suspended. The address must be a valid segment point macro index word address specified in the diagnostic listing. If automatic segmenting is active, any index word address is valid; otherwise, the next index word address following the SEGMENT statement is valid. Execution may be resumed by inputting the **EX:** message with no optional parameters.
FFAIL	Suspend diagnostic execution after the first test failure has occurred. Execution is resumed by the **EX** command with no optional parameters specified. **NOTE:** The diagnostic is suspended at the first legal segment point following the first test failure.
i	The address to be executed to generate a **SYNC** pulse. The address must be a macro index word address specified in the diagnostic listing. The **SYNC** pulse is physically available on bit 36 of the Peripheral Unit (PU) address bus.
j	The test to be executed before enabling the functions loop, **SYNC**, advance or step.
k	The number of segments the diagnostic execution is stepped. If no phase is currently active, a phase number must be specified. Default is one segment executed. If automatic segmenting is active, one segment equates to one DIAL statement.
l	The specified phase numbers to be executed, which may be a single decimal number, a range (e.g., x-y), a list (e.g., x,y,z...), or a combination of range and list. A list or combination must be enclosed in parentheses. If this parameter is specified, execution will be from the start of the phase.
m	The number of times the diagnostic is repeated (1-255). If the **ADR** parameter is specified with a range of addresses, the default value is infinity; otherwise, the default value is one.

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`n` The specified address range to be executed. The addresses must be a valid segment point macro index word addresses specified in the diagnostic listing. If automatic segmenting is active, any index word address is valid; otherwise, the next index word address following the `SEGMENT` statement is valid. May be a single octal address or a range of octal addresses. If a single address is given, execution will advance up to the specified address and then be suspended. If a range of addresses is specified, the diagnostic will loop from the last address to the first address.

NOTE: For looping, the execution will always be from the start of the phase to the last address, then loop back to the first address. If no phase is currently active, a phase number must be specified.

4. SYSTEM RESPONSE

`?R,DPLX FAIL` Insufficient system Resources are available to determine the validity of the message. The diagnostics are not available from the disk system. (Clear the Duplex failure or use `SYSRTPAD/TPAD`.)

`NG` No Good. Start message never sent or using channel other than the one used to start the diagnostic.

`PF` Printout Follows. Followed by an `EX:XTSI-PUB` output message(s).

`RL` Retry Later. Indicates the diagnostic is not in the interactive mode or is not ready for input.

5. REFERENCES

PIDENTs
DCONMAIN
MIRA
PUDGXT--, where -- represents all valid phase numbers
listed in PIDENT DCONTOLL for PREFIX=PUDGXT, UTYPE=1XLUTSI
PUDGDS--, where -- represents all valid phase numbers
listed in PIDENT DCONTOLL for PREFIX=PUDGDS, UTYPE=1XLUTSI
PUDGXS--, where -- represents all valid phase numbers
listed in PIDENT DCONTOLL for PREFIX=PUDGXS, UTYPE=1XLUTSI
PUDGIB--, where -- represents all valid phase numbers
listed in PIDENT DCONTOLL for PREFIX=PUDGIB, UTYPE=1XLUTSI

Practice 234-180-020, *Diagnostic Language - DIAL*

Practice 234-180-260, *4ESS™ Peripheral Diagnostic Program - Description*

PA-4A002-01, *4ESS™ User's Manual*

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Input Messages

```
CLR:MACLI
DGN:XTSI
OP:MACLI
STOP:MACLI
```

Output Message

```
EX:XTSI-PUB
```

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ID . . . . . EXC:UTILDS
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Controls execution of utility data set (UTILDS).

Format [1] is used to initiate execution.
Format [2] is used to pause during execution and wait for further instructions.
Format [3] is used to pause during execution and automatically continue.
Format [4] is used to resume execution.

2. FORMAT

[1] **EXC:UTILDS** a[**;NOPRINT**]**!**

[2] **EXC:UTILDS;WAIT**[b]**!**

[3] **EXC:UTILDS;WAIT** b**,RESUME!**

[4] **EXC:UTILDS;RESUME!**

3. EXPLANATION OF MESSAGE

a	Name of existing utility data set (1 to 9 alphanumeric characters, the first of which must be a letter).
b	The length of time data set execution is suspended (in seconds). The default value for Format [2] is 60 seconds.
RESUME	Continue execution of a data set following a wait.
NOPRINT	If specified, the printing of each line of the data set (when it is executed) and the resulting acknowledgment is inhibited only if the acknowledgment is a PF. The system response is always printed.

NOTE 1: Format [1], data set specified will be executed. If the **NOPRINT** option is defaulted, each line of the data set and the client acknowledgment will be printed as the execution proceeds. If specified, these acknowledgment messages will not be printed.

NOTE 2: Format [2], execution will be suspended for the specified number of seconds (if given) or for 60 seconds (if defaulted). If the **RESUME** command (Format [4]) is not received within the time given, execution of data set will be aborted.

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NOTE 3: Format [3], execution will be suspended for the specified number of seconds (during which time messages may be input at teletypewriter [TTY]). After the specified number of seconds, execution will automatically resume.

NOTE 4: Format [4] causes execution of a data set to resume. This command is used in conjunction with Format [2] and [3].

4. SYSTEM RESPONSE

`?I,CODE 012`	Identification field contains an error. Data set name does not exist.
`?R,DPLX FAIL`	Insufficient system Resources are available to determine the validity of the message. Generic utility program (GULP) cannot be paged to parse the message because the file system is duplex failed.
`NG,CODE 009`	No Good. No data set execution is active.
`NG,CODE 013`	No Good. Data set **`WAIT`** mode is not active.
`PF,CODE 050`	Printout will conditionally follow. This acknowledgement is used if file system is duplex failed and GULP is being paged from tape.
`PF,CODE 091`	Printout will conditionally follow.
`RL,CODE 180`	Retry Later. Execution of GULP function is in progress.
`RL,CODE 181`	Retry Later. Message processing is in progress.
`RL,CODE 182`	Retry Later. Data set input mode in progress on another channel.
`RL,CODE 183`	Retry Later. Data set execution in progress on another channel.
`RL,CODE 185`	Retry Later. No general buffer table (GBT) available or GULP cannot be paged.

5. REFERENCES

PIDENTs
GULPDSET
GULRUTCR

Practice 234-301-003, *1B Processor Generic Utility Program (GULP) Application - Description*

Output Message
`EXC:UTILDS`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID IF:A1B
WORK CENTER . . MOC
GENERIC . . . . . 4E21 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Allows specification of a condition that must be met in order for the generic utility functions following the `IF` clause to be executed. The `IF` may only occur immediately following a `WHEN` clause (see the `WHEN:ADR` or `WHEN:XADR` input message). It may be used with an `ELSE` clause (see the `ELSE:0` input message).

The first subfield identifies that which will be compared to the data defined in the last subfield. If the comparison satisfies the relation given, all utility functions following the `IF` (and preceding `ELSE`, if given) will be executed. If the relation is not satisfied, those functions following an `ELSE` clause will be executed. If no `ELSE` is given, no action will occur.

2. FORMAT

[1]
```
IF:A1B,
{[INDIR a,|XSINDIR b,[ID c,]]{ADR d|XADR e}
|INDIR a,UMEM f
|XSINDIR b,gREG
|INDIR a,gREG}
[,INC h][,SIZE i,DISP j]
;
{EQ|GE|LE|NE|GT|LT}
;
[+|-]{A1B|CS|CSS|PSS|XS},
{[INDIR a,|XSINDIR b,[ID c,]]{ADR d|XADR e}
|INDIR a,UMEM f
|XSINDIR b,gREG
|INDIR a,gREG}
[,INC h][,SIZE i,DISP j]/
```

[2]
```
IF:A1B,
{[INDIR a,|XSINDIR b,[ID c,]]{ADR d|XADR e}
|INDIR a,UMEM f
|XSINDIR b,gREG
|INDIR a,gREG}
[,INC h][,SIZE i,DISP j]
;
{EQ|GE|LE|NE|GT|LT}
;
CC,{ADR k|XADR l}/
```

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[3]
```
IF:A1B,
{[INDIR a,|XSINDIR b,[ID c,]]{ADR d|XADR e}
|INDIR a,UMEM f
|XSINDIR b,gREG
|INDIR a,gREG}
[,INC h][,SIZE i,DISP j]
;
{EQ|GE|LE|NE|GT|LT}
;
UMEM f/
```

[4]
```
IF:A1B,
{[INDIR a,|XSINDIR b,[ID c,]]{ADR d|XADR e}
|INDIR a,UMEM f
|XSINDIR b,gREG
|INDIR a,gREG}
[,INC h][,SIZE i,DISP j]
;
{EQ|GE|LE|NE|GT|LT}
;
gREG/
```

[5]
```
IF:A1B,
{[INDIR a,|XSINDIR b,[ID c,]]{ADR d|XADR e}
|INDIR a,UMEM f
|XSINDIR b,gREG
|INDIR a,gREG}
[,INC h][,SIZE i,DISP j]
;
{EQ|GE|LE|NE|GT|LT}
;
m/
```

3. EXPLANATION OF MESSAGE

A1B	Any 1B core memory.
a	Number of levels of indirect addressing (0-7). Default value is 0. Default type is octal. See NOTE 1.
b	Number of levels of indirect addressing (0-2). Default value is 0. Default type is octal. See NOTES 1, 3, and 4.
c	File system ID tag. (Must be in file segments 1 through 3 since this is used for extended memory access.)
d	Eight digit octal address. Used to access non extended non-secure call store (XS) memory. Default type is octal. Address bits 1-22 that are not specified will be zero filled, but bits 23-29 will be set to ones. See NOTE 1.

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e	Ten digit octal address. Used to access either XS or non-XS memory. Default type is octal. Upper bits 1-29 that are not specified will be zero filled.
f	Utility scratch memory indicator (0-7). Default type is octal. See NOTE 1.
g	Central control (CC) register mnemonics: B, F, G, J, K, L, X, Y, or Z.
h	Increment (-17777 to +17777) added to address after all levels of indirectness have been calculated. Default value is 0. Default type is octal. See NOTE 1.
i	Size of mask (1-24). Default value is 24. Default type is decimal. See NOTE 2.
j	Displacement of mask (0-23). Default value is 0. Default type is decimal. See NOTE 2.
EQ	Equal to.
GE	Greater than or equal to.
LE	Less than or equal to.
NE	Not equal to.
GT	Greater than.
LT	Less than.
+	Positive.
-	Negative.
CS	Nonsecure call store.
CSS	Call store secure.
PSS	Program store secure.
XS	Extended nonsecure call store.
CC	Central control.
k	Eight digit octal active CC address in the buffer bus range. The address range for the active CC is O'77776200-O'77776377. Address bits 1-22 that are not specified will be zero filled, but bits 23-29 will be set to ones. Default type is octal. See NOTE 1.
l	Ten digit octal active CC address in the buffer bus range. The address range for the active CC is O'7777776200-O'7777776377. Upper bits 1-29 that are not specified will be zero filled. Default type is octal. See NOTE 1.
m	Data to be compared. Default type is octal. See NOTE 1.

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NOTE 1: Numbers input for **ADR**, **XADR**, **INC**, **INDIR**, **XSINDIR**, **UMEM** and 'data to be compared' are assumed to be octal unless qualified by B', D' or H' - binary, decimal, or hexadecimal.

NOTE 2: Numbers input for **SIZE** and **DISP** are assumed to be decimal unless qualified by B', O' or H' - binary, octal, or hexadecimal.

NOTE 3: **XSINDIR** NUM,**ID** TAG,[**X**]**ADR** NUM input (Base and G-Level):
The contents of the specified address will be used as the disk offset along with the ID tag to determine the extended store address.

NOTE 4: [**XSINDIR** NUM,x**REG**] or [**XSINDIR** NUM,[**X**]**ADR** NUM] input (G-Level only):
The contents of the register or address specified MUST be a window address. The window for this window address must have been previously enabled in order to access the extended store address.

4. SYSTEM RESPONSE

?I,CODE 031	Identification field contains an error. Scratch utility memory indicator (**UMEM**) number specified is not 0, 1, 2, 3, 4, 5, 6, or 7.
?I,CODE 043	Identification field contains an error. Address increment exceeds O'17777.
?I,CODE 044	Identification field contains an error. Mask specified by **SIZE** and **DISP** is invalid (**SIZE** + **DISP** >D'24).
?I,CODE 118	Identification field contains an error. Keyword **ADR** is invalid for accessing extended store.
?I,CODE 119	Identification field contains an error. Keyword **INDIR** is invalid for accessing extended store.
?R,DPLX FAIL	Insufficient system Resources are available to determine the validity of the message. Generic utility program (GULP) cannot be paged to parse the message because the file system is duplex failed.
NG,CODE 125	No Good. Invalid **ID** tag for accessing extended store.
PF,CODE 050	Printout will conditionally follow. This acknowledgement is used if file system is duplex failed and GULP is being paged from tape.
PF,CODE 091	Printout will conditionally follow. Printout will follow if ALW:UTILMSG has been input and if the WHEN flag is encountered.
RL,CODE 180	Retry Later. Execution of GULP function is in progress.
RL,CODE 181	Retry Later. Message processing in progress.
RL,CODE 182	Retry Later. Data set input mode in progress on another channel.
RL,CODE 183	Retry Later. Data set execution is in progress.
RL,CODE 185	Retry Later. No general buffer table (GBT) available or GULP cannot be paged.

NOTE: A REPT:UTIL message may follow.

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5. REFERENCES

PIDENTs
GULPUTPP
GULPUTXP
GULRUTCR

Input Messages
`ALW:UTILMSG`
`ELSE:0`
`WHEN:ADR`
`WHEN:XADR`

Output Message
`REPT:UTIL`

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ID . . . . . IF:CC
WORK CENTER . . MOC
GENERIC . . . . . 4E21 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Allows specification of a condition that must be met in order for the generic utility functions following the IF clause to be executed. The IF may only occur immediately following a WHEN clause (see the WHEN:ADR or WHEN:XADR input message). It may be used with an ELSE clause (see the ELSE:0 input message).

The first subfield identifies that which will be compared to the data defined in the last subfield. If the comparison satisfies the relation given, all utility functions following the IF (and preceding ELSE, if given) will be executed. If the relation is not satisfied, those functions following an ELSE clause will be executed. If no ELSE is given, no action will occur.

2. FORMAT

[1]
```
IF:CC,{ADR a|XADR b}
;
{EQ|GE|LE|NE|GT|LT}
;
[+|-]{A1B|CS|CSS|PSS|XS},
{[INDIR c,|XSINDIR d,[ID e,]]{ADR m|XADR k}
|INDIR c,UMEM f
|XSINDIR d,gREG
|INDIR c,gREG}
[,INC h][,SIZE i,DISP j]/
```

[2]
```
IF:CC,{ADR a|XADR b}
;
{EQ|GE|LE|NE|GT|LT}
;
CC,ADR k/
CC,{ADR a|XADR b}
```

[3]
```
IF:CC,{ADR a|XADR b}
;
{EQ|GE|LE|NE|GT|LT}
;
UMEM f/
```

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[4] **IF:CC,**{**ADR** a|**XADR** b}
;
{**EQ**|**GE**|**LE**|**NE**|**GT**|**LT**}
;
g**REG/**

[5] **IF:CC,**{**ADR** a|**XADR** b}
;
{**EQ**|**GE**|**LE**|**NE**|**GT**|**LT**}
;
l/

3. EXPLANATION OF MESSAGE

a	Eight digit octal active CC address in the buffer bus range. The address range for the active CC is O'37776200-O'37776377. Address bits 1-22 that are not specified will be zero filled, but bits 23-29 will be set to ones. Default type is octal. See NOTE 1.
b	Ten digit octal active CC address in the buffer bus range. The address range for the active CC is O'7777776200-O'7777776377. Upper bits 1-29 that are not specified will be zero filled. Default type is octal. See NOTE 1.
EQ	Equal to.
GE	Greater than or equal to.
LE	Less than or equal to.
NE	Not equal to.
GT	Greater than.
LT	Less than.
+	Positive.
-	Negative.
A1B	Any 1B core memory.
CS	Nonsecure call store.
CSS	Call store secure.
PSS	Program store secure.
XS	Extended nonsecure call store.
c	Number of levels of indirect addressing (0-7). Default value is 0. Default type is octal. See NOTE 1.
d	Number of levels of indirect addressing (0-2). Default value is 0. Default type is octal. See NOTES 1, 3, and 4.
e	File system ID tag. (Must be in file segments 1 through 3 since this is used for extended memory access.)

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`f`	Utility scratch memory indicator (0-7). Default type is octal. See NOTE 1.
`g`	Central Control (CC) register mnemonics: B, F, G, J, K, L, X, Y, or Z.
`h`	Increment (-17777 to +17777) added to address after all levels of indirectness have been calculated. Default value is 0. Default type is octal. See NOTE 1.
`i`	Size of mask (1-24). Default value is 24. Default type is decimal. See NOTE 2.
`j`	Displacement of mask (0-23). Default value is 0. Default type is decimal. See NOTE 2.
`k`	Ten digit octal address. Used to access either Extended Non-Secure Call Store (XS) or non-XS memory. Default type is octal. Upper bits 1-29 that are not specified will be zero filled.
`CC`	Central control.
`k`	Active CC address number. Default type is octal.
`l`	Data to be compared. Default type is octal. See NOTE 1.
`m`	Eight digit octal address. Used to access non XS memory. Default type is octal. Address bits 1-22 that are not specified will be zero filled, but bits 23-29 will be set to ones. See NOTE 1.

NOTE 1: Numbers input for **`ADR`**, **`XADR`**, **`INC`**, **`INDIR`**, **`XSINDIR`**, **`UMEM`** and 'data to be compared' are assumed to be octal unless qualified by B', D' or H' - binary, decimal, or hexadecimal.

NOTE 2: Numbers input for **`SIZE`** and **`DISP`** are assumed to be decimal unless qualified by B', O' or H' - binary, octal, or hexadecimal.

NOTE 3: **`XSINDIR`** `NUM,`**`ID`** `TAG,[`**`X`**`]`**`ADR`** `NUM` input (Base and G-Level):
The contents of the specified address will be used as the disk offset along with the ID tag to determine the extended store address.

NOTE 4: [**`XSINDIR`** `NUM,x`**`REG`**] or [**`XSINDIR`** `NUM,[`**`X`**`]`**`ADR`** `NUM`] input (G-Level only):
The contents of the register or address specified MUST be a window address. The window for this window address must have been previously enabled in order to access the extended store address.

4. SYSTEM RESPONSE

`?I,CODE 031`	Identification field contains an error. Utility Scratch Memory Indicator (**`UMEM`**) number specified is not 0, 1, 2, 3, 4, 5, 6, or 7.
`?I,CODE 043`	Identification field contains an error. Address increment exceeds O'17777.
`?I,CODE 044`	Identification field contains an error. Mask specified by **`SIZE`** and **`DISP`** is invalid (**`SIZE`** + **`DISP`** >D'24).

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`?I,CODE 118`	Identification field contains an error. Keyword **`ADR`** is invalid for accessing extended store.
`?I,CODE 119`	Identification field contains an error. Keyword **`INDIR`** is invalid for accessing extended store.
`?R,DPLX FAIL`	Insufficient system Resources are available to determine the validity of the message. Generic Utility Program (GULP) cannot be paged to parse the message because the file system is duplex failed.
`NG,CODE 125`	No Good. Invalid **`ID`** tag for accessing extended store.
`PF,CODE 050`	Printout will conditionally follow. This acknowledgement is used if file system is duplex failed and GULP is being paged from tape.
`PF,CODE 091`	Printout will conditionally follow. Printout will follow if `ALW:UTILMSG` has been input and if the WHEN flag is encountered.
`RL,CODE 180`	Retry Later. Execution of GULP function is in progress.
`RL,CODE 181`	Retry Later. Message processing in progress.
`RL,CODE 182`	Retry Later. Data set input mode in progress on another channel.
`RL,CODE 183`	Retry Later. Data set execution is in progress.
`RL,CODE 185`	Retry Later. No General Buffer Table (GBT) available or GULP cannot be paged.

NOTE: A `REPT:UTIL` message may follow.

5. REFERENCES

PIDENTs
- GULPUTPP
- GULPUTXP
- GULRUTCR

Input Messages
- `ALW:UTILMSG`
- `ELSE:0`
- `WHEN:ADR`
- `WHEN:XADR`

Output Message
- `REPT:UTIL`

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ID . . . . . IF:CS
WORK CENTER . . MOC
GENERIC . . . . . 4E21 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Allows specification of a condition that must be met in order for the generic utility functions following the `IF` clause to be executed. The `IF` may only occur immediately following a `WHEN` clause (see the `WHEN:ADR` or `WHEN:XADR` input message). It may be used with an `ELSE` clause (see the `ELSE:0` input message).

The first subfield identifies that which will be compared to the data defined in the last subfield. If the comparison satisfies the relation given, all utility functions following the `IF` (and preceding `ELSE`, if given) will be executed. If the relation is not satisfied, those functions following an `ELSE` clause will be executed. If no `ELSE` is given, no action will occur.

2. FORMAT

[1]
```
IF:CS,
{[INDIR a,|XSINDIR b,[ID c,]]{ADR d|XADR e}
|INDIR a,UMEM f
|XSINDIR b,gREG
|INDIR a,gREG}
[,INC h][,SIZE i,DISP j]
;
{EQ|GE|LE|NE|GT|LT}
;
[+|-]{A1B|CS|CSS|PSS|XS},
{[INDIR a,|XSINDIR b,[ID c,]]{ADR d|XADR e}
|INDIR a,UMEM f
|XSINDIR b,gREG
|INDIR a,gREG}
[,INC h][,SIZE i,DISP j]/
```

[2]
```
IF:CS,
{[INDIR a,|XSINDIR b,[ID c,]]{ADR d|XADR e}
|INDIR a,UMEM f
|XSINDIR b,gREG
|INDIR a,gREG}
[,INC h][,SIZE i,DISP j]
;
{EQ|GE|LE|NE|GT|LT}
;
CC,{ADR k|XADR l}/
```

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[3]
```
IF:CS,
{[INDIR a,|XSINDIR b,[ID c,]]{ADR d|XADR e}
|INDIR a,UMEM f
|XSINDIR b,gREG
|INDIR a,gREG}
[,INC h][,SIZE i,DISP j]
;
{EQ|GE|LE|NE|GT|LT}
;
UMEM f/
```

[4]
```
IF:CS,
{[INDIR a,|XSINDIR b,[ID c,]]{ADR d|XADR e}
|INDIR a,UMEM f
|XSINDIR b,gREG
|INDIR a,gREG}
[,INC h][,SIZE i,DISP j]
;
{EQ|GE|LE|NE|GT|LT}
;
gREG/
```

[5]
```
IF:CS,
{[INDIR a,|XSINDIR b,[ID c,]]{ADR d|XADR e}
|INDIR a,UMEM f
|XSINDIR b,gREG
|INDIR a,gREG}
[,INC h][,SIZE i,DISP j]
;
{EQ|GE|LE|NE|GT|LT}
;
m/
```

3. EXPLANATION OF MESSAGE

CS Nonsecure call store.

a Number of levels of indirect addressing (0-7). Default value is 0. Default type is octal. See NOTE 1.

b Number of levels of indirect addressing (0-2). Default value is 0. Default type is octal. See NOTES 1, 3, and 4.

c File system ID tag. (Must be in file segments 1 through 3 since this is used for extended memory access.)

d Eight digit octal address. Used to access non extended non-secure call store (XS) memory. Default type is octal. Address bits 1-22 that are not specified will be zero filled, but bits 23-29 will be set to ones. See NOTE 1.

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e	Ten digit octal address. Used to access either XS or non-XS memory. Default type is octal. Upper bits 1-29 that are not specified will be zero filled.
f	Utility scratch memory indicator (0-7). Default type is octal. See NOTE 1.
g	Central control (CC) register mnemonics: B, F, G, J, K, L, X, Y, or Z.
h	Increment (-17777 to +17777) added to address after all levels of indirectness have been calculated. Default value is 0. Default type is octal. See NOTE 1.
i	Size of mask (1-24). Default value is 24. Default type is decimal. See NOTE 2.
j	Displacement of mask (0-23). Default value is 0. Default type is decimal. See NOTE 2.
EQ	Equal to.
GE	Greater than or equal to.
LE	Less than or equal to.
NE	Not equal to.
GT	Greater than.
LT	Less than.
+	Positive.
-	Negative.
A1B	Any 1B core memory.
CSS	Call store secure.
PSS	Program store secure.
XS	Extended nonsecure call store.
CC	Central control.
k	Eight digit octal active CC address in the buffer bus range. The address range for the active CC is O'77776200-O'77776377. Address bits 1-22 that are not specified will be zero filled, but bits 23-29 will be set to ones. Default type is octal. See NOTE 1.
l	Ten digit octal active CC address in the buffer bus range. The address range for the active CC is O'7777776200-O'7777776377. Upper bits 1-29 that are not specified will be zero filled. Default type is octal. See NOTE 1.
m	Data to be compared. Default type is octal. See NOTE 1.

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NOTE 1: Numbers input for **ADR**, **XADR**, **INC**, **INDIR**, **XSINDIR**, **UMEM** and 'data to be compared' are assumed to be octal unless qualified by B', D' or H' - binary, decimal, or hexadecimal.

NOTE 2: Numbers input for **SIZE** and **DISP** are assumed to be decimal unless qualified by B', O' or H' - binary, octal, or hexadecimal.

NOTE 3: **XSINDIR** NUM,**ID** TAG,[**X**]**ADR** NUM input (Base and G-Level):
The contents of the specified address will be used as the disk offset along with the ID tag to determine the extended store address.

NOTE 4: [**XSINDIR** NUM,x**REG**] or [**XSINDIR** NUM,[**X**]**ADR** NUM] input (G-Level only):
The contents of the register or address specified MUST be a window address. The window for this window address must have been previously enabled in order to access the extended store address.

4. SYSTEM RESPONSE

?I,CODE 031	Identification field contains an error. Scratch utility memory indicator (**UMEM**) number specified is not 0, 1, 2, 3, 4, 5, 6, or 7.
?I,CODE 043	Identification field contains an error. Address increment exceeds O'17777.
?I,CODE 044	Identification field contains an error. Mask specified by **SIZE** and **DISP** is invalid (**SIZE** + **DISP** >D'24).
?I,CODE 118	Identification field contains an error. Keyword **ADR** is invalid for accessing extended store.
?I,CODE 119	Identification field contains an error. Keyword **INDIR** is invalid for accessing extended store.
?R,DPLX FAIL	Insufficient system Resources are available to determine the validity of the message. Generic utility program (GULP) cannot be paged to parse the message because the file system is duplex failed.
NG,CODE 125	No Good. Invalid **ID** tag for accessing extended store.
PF,CODE 050	Printout will conditionally follow. This acknowledgement is used if file system is duplex failed and GULP is being paged from tape.
PF,CODE 091	Printout will conditionally follow. Printout will follow if ALW:UTILMSG has been input and if the WHEN flag is encountered.
RL,CODE 180	Retry Later. Execution of GULP function is in progress.
RL,CODE 181	Retry Later. Message processing in progress.
RL,CODE 182	Retry Later. Data set input mode in progress on another channel.
RL,CODE 183	Retry Later. Data set execution is in progress.
RL,CODE 185	Retry Later. No general buffer table (GBT) available or GULP cannot be paged.

NOTE: A REPT:UTIL message may follow.

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5. REFERENCES

PIDENTs
GULPUTPP
GULPUTXP
GULRUTCR

Input Messages
`ALW:UTILMSG`
`ELSE:0`
`WHEN:ADR`
`WHEN:XADR`

Output Message
`REPT:UTIL`

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ID . . . . . IF:CSS
WORK CENTER . . MOC
GENERIC . . . . . 4E21 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Allows specification of a condition that must be met in order for the generic utility functions following the `IF` clause to be executed. The `IF` may only occur immediately following a `WHEN` clause (see the `WHEN:ADR` or `WHEN:XADR` input message). It may be used with an `ELSE` clause (see the `ELSE:0` input message).

The first subfield identifies that which will be compared to the data defined in the last subfield. If the comparison satisfies the relation given, all utility functions following the `IF` (and preceding `ELSE`, if given) will be executed. If the relation is not satisfied, those functions following an `ELSE` clause will be executed. If no `ELSE` is given, no action will occur.

2. FORMAT

[1]
```
IF:CSS,
{[INDIR a,|XSINDIR b,[ID c,]]{ADR d|XADR e}
|INDIR a,UMEM f
|XSINDIR b,gREG
|INDIR a,gREG}
[,INC h][,SIZE i,DISP j]
;
{EQ|GE|LE|NE|GT|LT}
;
[+|-]{A1B|CS|CSS|PSS|XS},
{[INDIR a,|XSINDIR b,[ID c,]]{ADR d|XADR e}
|INDIR a,UMEM f
|XSINDIR b,gREG
|INDIR a,gREG}
[,INC h][,SIZE i,DISP j]/
```

[2]
```
IF:CSS,
{[INDIR a,|XSINDIR b,[ID c,]]{ADR d|XADR e}
|INDIR a,UMEM f
|XSINDIR b,gREG
|INDIR a,gREG}
[,INC h][,SIZE i,DISP j]
;
{EQ|GE|LE|NE|GT|LT}
;
CC,{ADR k|XADR l}/
```

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[3]
```
IF:CSS,
{[INDIR a,|XSINDIR b,[ID c,]]{ADR d|XADR e}
|INDIR a,UMEM f
|XSINDIR b,gREG
|INDIR a,gREG}
[,INC h][,SIZE i,DISP j]
;
{EQ|GE|LE|NE|GT|LT}
;
UMEM f/
```

[4]
```
IF:CSS,
{[INDIR a,|XSINDIR b,[ID c,]]{ADR d|XADR e}
|INDIR a,UMEM f
|XSINDIR b,gREG
|INDIR a,gREG}
[,INC h][,SIZE i,DISP j]
;
{EQ|GE|LE|NE|GT|LT}
;
gREG/
```

[5]
```
IF:CSS,
{[INDIR a,|XSINDIR b,[ID c,]]{ADR d|XADR e}
|INDIR a,UMEM f
|XSINDIR b,gREG
|INDIR a,gREG}
[,INC h][,SIZE i,DISP j]
;
{EQ|GE|LE|NE|GT|LT}
;
m/
```

3. EXPLANATION OF MESSAGE

CSS	Call store secure.
a	Number of levels of indirect addressing (0-7). Default value is 0. Default type is octal. See NOTE 1.
b	Number of levels of indirect addressing (0-2). Default value is 0. Default type is octal. See NOTES 1, 3, and 4.
c	File system ID tag. (Must be in file segments 1 through 3 since this is used for extended memory access.)
d	Eight digit octal address. Used to access non extended non-secure call store (XS) memory. Default type is octal. Address bits 1-22 that are not specified will be zero filled, but bits 23-29 will be set to ones. See NOTE 1.

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e	Ten digit octal address. Used to access either XS or non-XS memory. Default type is octal. Upper bits 1-29 that are not specified will be zero filled.
f	Utility scratch memory indicator (0-7). Default type is octal. See NOTE 1.
g	Central control (CC) register mnemonics: B, F, G, J, K, L, X, Y, or Z.
h	Increment (-17777 to +17777) added to address after all levels of indirectness have been calculated. Default value is 0. Default type is octal. See NOTE 1.
i	Size of mask (1-24). Default value is 24. Default type is decimal. See NOTE 2.
j	Displacement of mask (0-23). Default value is 0. Default type is decimal. See NOTE 2.
EQ	Equal to.
GE	Greater than or equal to.
LE	Less than or equal to.
NE	Not equal to.
GT	Greater than.
LT	Less than.
+	Positive.
-	Negative.
A1B	Any 1B core memory.
CS	Nonsecure call store.
PSS	Program store secure.
XS	Extended nonsecure call store.
CC	Central control.
k	Eight digit octal active CC address in the buffer bus range. The address range for the active CC is O'77776200-O'77776377. Address bits 1-22 that are not specified will be zero filled, but bits 23-29 will be set to ones. Default type is octal. See NOTE 1.
l	Ten digit octal active CC address in the buffer bus range. The address range for the active CC is O'7777776200-O'7777776377. Upper bits 1-29 that are not specified will be zero filled. Default type is octal. See NOTE 1.
m	Data to be compared. Default type is octal. See NOTE 1.

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NOTE 1: Numbers input for **ADR**, **XADR**, **INC**, **INDIR**, **XSINDIR**, **UMEM** and 'data to be compared' are assumed to be octal unless qualified by B', D' or H' - binary, decimal, or hexadecimal.

NOTE 2: Numbers input for **SIZE** and **DISP** are assumed to be decimal unless qualified by B', O' or H' - binary, octal, or hexadecimal.

NOTE 3: **XSINDIR** NUM,**ID** TAG,[**X**]**ADR** NUM input (Base and G-Level):
The contents of the specified address will be used as the disk offset along with the ID tag to determine the extended store address.

NOTE 4: [**XSINDIR** NUM,x**REG**] or [**XSINDIR** NUM,[**X**]**ADR** NUM] input (G-Level only):
The contents of the register or address specified MUST be a window address. The window for this window address must have been previously enabled in order to access the extended store address.

4. SYSTEM RESPONSE

?I,CODE 031	Identification field contains an error. Scratch utility memory indicator (**UMEM**) number specified is not 0, 1, 2, 3, 4, 5, 6, or 7.
?I,CODE 043	Identification field contains an error. Address increment exceeds O'17777.
?I,CODE 044	Identification field contains an error. Mask specified by **SIZE** and **DISP** is invalid (**SIZE** + **DISP** >D'24).
?I,CODE 118	Identification field contains an error. Keyword **ADR** is invalid for accessing extended store.
?I,CODE 119	Identification field contains an error. Keyword **INDIR** is invalid for accessing extended store.
?R,DPLX FAIL	Insufficient system Resources are available to determine the validity of the message. Generic utility program (GULP) cannot be paged to parse the message because the file system is duplex failed.
NG,CODE 125	No Good. Invalid **ID** tag for accessing extended store.
PF,CODE 050	Printout will conditionally follow. This acknowledgement is used if file system is duplex failed and GULP is being paged from tape.
PF,CODE 091	Printout will conditionally follow. Printout will follow if ALW:UTILMSG has been input and if the WHEN flag is encountered.
RL,CODE 180	Retry Later. Execution of GULP function is in progress.
RL,CODE 181	Retry Later. Message processing in progress.
RL,CODE 182	Retry Later. Data set input mode in progress on another channel.
RL,CODE 183	Retry Later. Data set execution is in progress.
RL,CODE 185	Retry Later. No general buffer table (GBT) available or GULP cannot be paged.

NOTE: A REPT:UTIL message may follow.

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5. REFERENCES

PIDENTs
GULPUTPP
GULPUTXP
GULRUTCR

Input Messages
`ALW:UTILMSG`
`ELSE:0`
`WHEN:ADR`
`WHEN:XADR`

Output Message
`REPT:UTIL`

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ID . . . . . IF:PSS
WORK CENTER . . MOC
GENERIC . . . . . 4E21 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Allows specification of a condition that must be met in order for the generic utility functions following the `IF` clause to be executed. The `IF` may only occur immediately following a `WHEN` clause (see the `WHEN:ADR` or `WHEN:XADR` input message). It may be used with an `ELSE` clause (see the `ELSE:0` input message).

The first subfield identifies that which will be compared to the data defined in the last subfield. If the comparison satisfies the relation given, all utility functions following the `IF` (and preceding `ELSE`, if given) will be executed. If the relation is not satisfied, those functions following an `ELSE` clause will be executed. If no `ELSE` is given, no action will occur.

2. FORMAT

[1]
```
IF:PSS,
{[INDIR a,|XSINDIR b,[ID c,]]{ADR d|XADR e}
|INDIR a,UMEM f
|XSINDIR b,gREG
|INDIR a,gREG}
[,INC h][,SIZE i,DISP j]
;
{EQ|GE|LE|NE|GT|LT}
;
[+|-]{A1B|CS|CSS|PSS|XS},
{[INDIR a,|XSINDIR b,[ID c,]]{ADR d|XADR e}
|INDIR a,UMEM f
|XSINDIR b,gREG
|INDIR a,gREG}
[,INC h][,SIZE i,DISP j]/
```

[2]
```
IF:PSS,
{[INDIR a,|XSINDIR b,[ID c,]]{ADR d|XADR e}
|INDIR a,UMEM f
|XSINDIR b,gREG
|INDIR a,gREG}
[,INC h][,SIZE i,DISP j]
;
{EQ|GE|LE|NE|GT|LT}
;
CC,{ADR k|XADR l}/
```

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[3]
```
IF:PSS,
{[INDIR a,|XSINDIR b,[ID c,]]{ADR d|XADR e}
|INDIR a,UMEM f
|XSINDIR b,gREG
|INDIR a,gREG}
[,INC h][,SIZE i,DISP j]
;
{EQ|GE|LE|NE|GT|LT}
;
UMEM f/
```

[4]
```
IF:PSS,
{[INDIR a,|XSINDIR b,[ID c,]]{ADR d|XADR e}
|INDIR a,UMEM f
|XSINDIR b,gREG
|INDIR a,gREG}
[,INC h][,SIZE i,DISP j]
;
{EQ|GE|LE|NE|GT|LT}
;
gREG/
```

[5]
```
IF:PSS,
{[INDIR a,|XSINDIR b,[ID c,]]{ADR d|XADR e}
|INDIR a,UMEM f
|XSINDIR b,gREG
|INDIR a,gREG}
[,INC h][,SIZE i,DISP j]
;
{EQ|GE|LE|NE|GT|LT}
;
m/
```

3. EXPLANATION OF MESSAGE

PSS	Program store secure.
a	Number of levels of indirect addressing (0-7). Default value is 0. Default type is octal. See NOTE 1.
b	Number of levels of indirect addressing (0-2). Default value is 0. Default type is octal. See NOTES 1, 3, and 4.
c	File system ID tag. (Must be in file segments 1 through 3 since this is used for extended memory access.)
d	Eight digit octal address. Used to access non extended non-secure call store (XS) memory. Default type is octal. Address bits 1-22 that are not specified will be zero filled, but bits 23-29 will be set to ones. See NOTE 1.

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e	Ten digit octal address. Used to access either XS or non-XS memory. Default type is octal. Upper bits 1-29 that are not specified will be zero filled.
f	Utility scratch memory indicator (0-7). Default type is octal. See NOTE 1.
g	Central control (CC) register mnemonics: B, F, G, J, K, L, X, Y, or Z.
h	Increment (-17777 to +17777) added to address after all levels of indirectness have been calculated. Default value is 0. Default type is octal. See NOTE 1.
i	Size of mask (1-24). Default value is 24. Default type is decimal. See NOTE 2.
j	Displacement of mask (0-23). Default value is 0. Default type is decimal. See NOTE 2.
EQ	Equal to.
GE	Greater than or equal to.
LE	Less than or equal to.
NE	Not equal to.
GT	Greater than.
LT	Less than.
+	Positive.
-	Negative.
A1B	Any 1B core memory.
CS	Nonsecure call store.
CSS	Call store secure.
XS	Extended nonsecure call store.
CC	Central control.
k	Eight digit octal active CC address in the buffer bus range. The address range for the active CC is O'77776200-O'77776377. Address bits 1-22 that are not specified will be zero filled, but bits 23-29 will be set to ones. Default type is octal. See NOTE 1.
l	Ten digit octal active CC address in the buffer bus range. The address range for the active CC is O'7777776200-O'7777776377. Upper bits 1-29 that are not specified will be zero filled. Default type is octal. See NOTE 1.
m	Data to be compared. Default type is octal. See NOTE 1.

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NOTE 1: Numbers input for **ADR**, **XADR**, **INC**, **INDIR**, **XSINDIR**, **UMEM** and 'data to be compared' are assumed to be octal unless qualified by B', D' or H' - binary, decimal, or hexadecimal.

NOTE 2: Numbers input for **SIZE** and **DISP** are assumed to be decimal unless qualified by B', O' or H' - binary, octal, or hexadecimal.

NOTE 3: **XSINDIR** NUM,**ID** TAG,[**X**]**ADR** NUM input (Base and G-Level):
The contents of the specified address will be used as the disk offset along with the ID tag to determine the extended store address.

NOTE 4: [**XSINDIR** NUM,x**REG**] or [**XSINDIR** NUM,[**X**]**ADR** NUM] input (G-Level only):
The contents of the register or address specified MUST be a window address. The window for this window address must have been previously enabled in order to access the extended store address.

4. SYSTEM RESPONSE

?I,CODE 031	Identification field contains an error. Scratch utility memory indicator (**UMEM**) number specified is not 0, 1, 2, 3, 4, 5, 6, or 7.
?I,CODE 043	Identification field contains an error. Address increment exceeds O'17777.
?I,CODE 044	Identification field contains an error. Mask specified by **SIZE** and **DISP** is invalid (**SIZE** + **DISP** >D'24).
?I,CODE 118	Identification field contains an error. Keyword **ADR** is invalid for accessing extended store.
?I,CODE 119	Identification field contains an error. Keyword **INDIR** is invalid for accessing extended store.
?R,DPLX FAIL	Insufficient system Resources are available to determine the validity of the message. Generic utility program (GULP) utility cannot be paged to parse the message because the file system is duplex failed.
NG,CODE 125	No Good. Invalid **ID** tag for accessing extended store.
PF,CODE 050	Printout will conditionally follow. This acknowledgement is used if file system is duplex failed and GULP is being paged from tape.
PF,CODE 091	Printout will conditionally follow. Printout will follow if ALW:UTILMSG has been input and if the WHEN flag is encountered.
RL,CODE 180	Retry Later. Execution of GULP function is in progress.
RL,CODE 181	Retry Later. Message processing in progress.
RL,CODE 182	Retry Later. Data set input mode in progress on another channel.
RL,CODE 183	Retry Later. Data set execution is in progress.
RL,CODE 185	Retry Later. No general buffer table (GBT) available or GULP cannot be paged.

NOTE: A REPT:UTIL message may follow.

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5. REFERENCES

PIDENTs
GULPUTPP
GULPUTXP
GULRUTCR

Input Messages
`ALW:UTILMSG`
`ELSE:0`
`WHEN:ADR`
`WHEN:XADR`

Output Message
`REPT:UTIL`

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ID . . . . . IF:REG
WORK CENTER . . MOC
GENERIC . . . . . 4E21 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Allows specification of a condition that must be met in order for the generic utility functions following the IF clause to be executed. The IF may only occur immediately following a WHEN clause (see WHEN:ADR or WHEN:XADR input message). It may be used with an ELSE clause (see the ELSE:0 input message).

The first subfield identifies that which will be compared to the data defined in the last subfield. If the comparison satisfies the relation given, all utility functions following the IF (and preceding ELSE, if given) will be executed. If the relation is not satisfied, those functions following an ELSE clause will be executed. If no ELSE is given, no action will occur.

2. FORMAT

[1]
```
IF:aREG
;
{EQ|GE|LE|NE|GT|LT}
;
[+|-]{A1B|CS|CSS|PSS|XS},
{[INDIR b,|XSINDIR c,[ID d,]]{ADR e|XADR f}
|INDIR b,UMEM g
|XSINDIR c,aREG
|INDIR b,aREG}
[,INC h][,SIZE i,DISP j]/
```

[2]
```
IF:aREG
;
{EQ|GE|LE|NE|GT|LT}
;
CC,{ADR k|XADR l}/
```

[3]
```
IF:aREG
;
{EQ|GE|LE|NE|GT|LT}
;
UMEM g/
```

[4]
```
IF:aREG
;
{EQ|GE|LE|NE|GT|LT}
;
aREG/
```

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[5] **IF:**a**REG**
;
{**EQ**|**GE**|**LE**|**NE**|**GT**|**LT**}
;
m/

3. EXPLANATION OF MESSAGE

a	Central control (CC) register mnemonics: B, F, G, J, K, L, X, Y, or Z.
EQ	Equal to.
GE	Greater than or equal to.
LE	Less than or equal to.
NE	Not equal to.
GT	Greater than.
LT	Less than.
+	Positive.
-	Negative.
A1B	Any 1B core memory.
CS	Nonsecure call store.
CSS	Call store secure.
PSS	Program store secure.
XS	Extended nonsecure call store.
b	Number of levels of indirect addressing (0-7). Default value is 0. Default type is octal. See NOTE 1.
c	Number of levels of indirect addressing (0-2). Default value is 0. Default type is octal. See NOTES 1, 3, and 4.
d	File system ID tag. (Must be in file segments 1 through 3 since this is used for extended memory access.)
e	Eight digit octal address. Used to access non extended non-secure call store (XS) memory. Default type is octal. Address bits 1-22 that are not specified will be zero filled, but bits 23-29 will be set to ones. See NOTE 1.
f	Ten digit octal address. Used to access either XS or non-XS memory. Default type is octal. Upper bits 1-29 that are not specified will be zero filled.
g	Utility scratch memory indicator (0-7). Default type is octal. See NOTE 1.
h	Increment (-17777 to +17777) added to address after all levels of indirectness have been calculated. Default value is 0. Default type is octal. See NOTE 1.

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`i` Size of mask (1-24). Default value is 24. Default type is decimal. See NOTE 2.

`j` Displacement of mask (0-23). Default value is 0. Default type is decimal. See NOTE 2.

`CC` Central control.

`k` Eight digit octal active CC address in the buffer bus range. The address range for the active CC is O'77776200-O'77776377. Address bits 1-22 that are not specified will be zero filled, but bits 23-29 will be set to ones. Default type is octal. See NOTE 1.

`l` Ten digit octal active CC address in the buffer bus range. The address range for the active CC is O'7777776200-O'7777776377. Upper bits 1-29 that are not specified will be zero filled. Default type is octal. See NOTE 1.

`m` Data to be compared. Default type is octal. See NOTE 1.

NOTE 1: Numbers input for **`ADR`**, **`XADR`**, **`INC`**, **`INDIR`**, **`XSINDIR`**, **`UMEM`** and 'data to be compared' are assumed to be octal unless qualified by B', D' or H' - binary, decimal, or hexadecimal.

NOTE 2: Numbers input for **`SIZE`** and **`DISP`** are assumed to be decimal unless qualified by B', O' or H' - binary, octal, or hexadecimal.

NOTE 3: **`XSINDIR`** `NUM,`**`ID`** `TAG,[`**`X`**`]`**`ADR`** `NUM` input (Base and G-Level):
The contents of the specified address will be used as the disk offset along with the ID tag to determine the extended store address.

NOTE 4: [**`XSINDIR`** `NUM,x`**`REG`**] or [**`XSINDIR`** `NUM,[`**`X`**`]`**`ADR`** `NUM`] input (G-Level only):
The contents of the register or address specified MUST be a window address. The window for this window address must have been previously enabled in order to access the extended store address.

4. SYSTEM RESPONSE

`?I,CODE 031` Identification field contains an error. Scratch utility memory indicator (**`UMEM`**) number specified is not 0, 1, 2, 3, 4, 5, 6, or 7.

`?I,CODE 043` Identification field contains an error. Address increment exceeds O'17777.

`?I,CODE 044` Identification field contains an error. Mask specified by **`SIZE`** and **`DISP`** is invalid (**`SIZE`** + **`DISP`** >D'24).

`?I,CODE 118` Identification field contains an error. Keyword **`ADR`** is invalid for accessing extended store.

`?I,CODE 119` Identification field contains an error. Keyword **`INDIR`** is invalid for accessing extended store.

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`?R,DPLX FAIL`	Insufficient system Resources are available to determine the validity of the message. Generic utility program (GULP) cannot be paged to parse the message because the file system is duplex failed.
`NG,CODE 125`	No Good. Invalid **`ID`** tag for accessing extended store.
`PF,CODE 050`	Printout will conditionally follow. This acknowledgement is used if file system is duplex failed and GULP is being paged from tape.
`PF,CODE 091`	Printout will conditionally follow. Printout will follow if `ALW:UTILMSG` has been input and if the WHEN flag is encountered.
`RL,CODE 180`	Retry Later. Execution of GULP function is in progress.
`RL,CODE 181`	Retry Later. Message processing in progress.
`RL,CODE 182`	Retry Later. Data set input mode in progress on another channel.
`RL,CODE 183`	Retry Later. Data set execution is in progress.
`RL,CODE 185`	Retry Later. No general buffer table (GBT) available or GULP cannot be paged.

NOTE: A `REPT:UTIL` message may follow.

5. REFERENCES

PIDENTs
GULPUTPP
GULPUTXP
GULRUTCR

Input Messages
`ALW:UTILMSG`
`ELSE:0`
`WHEN:ADR`
`WHEN:XADR`

Output Message
`REPT:UTIL`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . IF:UMEM
WORK CENTER . . MOC
GENERIC . . . . . 4E21 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Allows specification of a condition that must be met in order for the generic utility functions following the IF clause to be executed. The IF may only occur immediately following a WHEN clause (see the WHEN:ADR or WHEN:XADR input message). It may be used with an ELSE clause (see the ELSE:0 input message).

The first subfield identifies that which will be compared to the data defined in the last subfield. If the comparison satisfies the relation given, all utility functions following the IF (and preceding ELSE, if given) will be executed. If the relation is not satisfied, those functions following an ELSE clause will be executed. If no ELSE is given, no action will occur.

2. FORMAT

[1]
```
IF:UMEM a
;
{EQ|GE|LE|NE|GT|LT}
;
[+|-]{A1B|CS|CSS|PSS|XS},
{[INDIR b,|XSINDIR c,[ID d,]]{ADR e|XADR f}
|INDIR b,UMEM a
|XSINDIR c,gREG
|INDIR b,gREG}
[,INC h][,SIZE i,DISP j]/
```

[2]
```
IF:UMEM a
;
{EQ|GE|LE|NE|GT|LT}
;
CC,{ADR k|XADR l}/
```

[3]
```
IF:UMEM a
;
{EQ|GE|LE|NE|GT|LT}
;
UMEM a/
```

[4]
```
IF:UMEM a
;
{EQ|GE|LE|NE|GT|LT}
;
gREG/
```

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[5] **IF:UMEM** a
;
{**EQ**|**GE**|**LE**|**NE**|**GT**|**LT**}
;
m/

3. EXPLANATION OF MESSAGE

a	Utility scratch memory indicator (0-7). Default type is octal. See NOTE 1.
EQ	Equal to.
GE	Greater than or equal to.
LE	Less than or equal to.
NE	Not equal to.
GT	Greater than.
LT	Less than.
+	Positive.
-	Negative.
A1B	Any 1B core memory.
CS	Nonsecure call store.
CSS	Call store secure.
PSS	Program store secure.
XS	Extended nonsecure call store.
b	Number of levels of indirect addressing (0-7). Default value is 0. Default type is octal. See NOTE 1.
c	Number of levels of indirect addressing (0-2). Default value is 0. Default type is octal. See NOTES 1, 3, and 4.
d	File system ID tag. (Must be in file segments 1 through 3 since this is used for extended memory access.)
e	Eight digit octal address. Used to access non extended non-secure call store (XS) memory. Default type is octal. Address bits 1-22 that are not specified will be zero filled, but bits 23-29 will be set to ones. See NOTE 1.
f	Ten digit octal address. Used to access either XS or non-XS memory. Default type is octal. Upper bits 1-29 that are not specified will be zero filled.
g	Central control (CC) register mnemonics: B, F, G, J, K, L, X, Y, or Z.
h	Increment (-17777 to +17777) added to address after all levels of indirectness have been calculated. Default value is 0. Default type is octal. See NOTE 1.

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`i` Size of mask (1-24). Default value is 24. Default type is decimal. See NOTE 2.

`j` Displacement of mask (0-23). Default value is 0. Default type is decimal. See NOTE 2.

CC Central control.

`k` Eight digit octal active CC address in the buffer bus range. The address range for the active CC is O'77776200-O'77776377. Address bits 1-22 that are not specified will be zero filled, but bits 23-29 will be set to ones. Default type is octal. See NOTE 1.

`l` Ten digit octal active CC address in the buffer bus range. The address range for the active CC is O'7777776200-O'7777776377. Upper bits 1-29 that are not specified will be zero filled. Default type is octal. See NOTE 1.

`m` Data to be compared. Default type is octal. See NOTE 1.

NOTE 1: Numbers input for **ADR**, **XADR**, **INC**, **INDIR**, **XSINDIR**, **UMEM** and 'data to be compared' are assumed to be octal unless qualified by B', D' or H' - binary, decimal, or hexadecimal.

NOTE 2: Numbers input for **SIZE** and **DISP** are assumed to be decimal unless qualified by B', O' or H' - binary, octal, or hexadecimal.

NOTE 3: **XSINDIR** NUM,**ID** TAG,[**X**]**ADR** NUM input (Base and G-Level):
The contents of the specified address will be used as the disk offset along with the ID tag to determine the extended store address.

NOTE 4: [**XSINDIR** NUM,x**REG**] or [**XSINDIR** NUM,[**X**]**ADR** NUM] input (G-Level only):
The contents of the register or address specified MUST be a window address. The window for this window address must have been previously enabled in order to access the extended store address.

4. SYSTEM RESPONSE

`?I,CODE 031` Identification field contains an error. Scratch utility memory indicator (**UMEM**) number specified is not 0, 1, 2, 3, 4, 5, 6, or 7.

`?I,CODE 043` Identification field contains an error. Address increment exceeds O'17777.

`?I,CODE 044` Identification field contains an error. Mask specified by **SIZE** and **DISP** is invalid (**SIZE** + **DISP** >D'24).

`?I,CODE 118` Identification field contains an error. Keyword **ADR** is invalid for accessing extended store.

`?I,CODE 119` Identification field contains an error. Keyword **INDIR** is invalid for accessing extended store.

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`?R,DPLX FAIL`	Insufficient system Resources are available to determine the validity of the message. Generic utility program (GULP) cannot be paged to parse the message because the file system is duplex failed.
`NG,CODE 125`	No Good. Invalid **`ID`** tag for accessing extended store.
`PF,CODE 050`	Printout will conditionally follow. This acknowledgement is used if file system is duplex failed and GULP is being paged from tape.
`PF,CODE 091`	Printout will conditionally follow. Printout will follow if `ALW:UTILMSG` has been input and if the WHEN flag is encountered.
`RL,CODE 180`	Retry Later. Execution of GULP function is in progress.
`RL,CODE 181`	Retry Later. Message processing in progress.
`RL,CODE 182`	Retry Later. Data set input mode in progress on another channel.
`RL,CODE 183`	Retry Later. Data set execution is in progress.
`RL,CODE 185`	Retry Later. No general buffer table (GBT) available or GULP cannot be paged.

NOTE: A `REPT:UTIL` message may follow.

5. REFERENCES

PIDENTs
- GULPUTPP
- GULPUTXP
- GULRUTCR

Input Messages
- `ALW:UTILMSG`
- `ELSE:0`
- `WHEN:ADR`
- `WHEN:XADR`

Output Message
- `REPT:UTIL`

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ID . . . . . IF:XS
WORK CENTER . . MOC
GENERIC . . . . . 4E21 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Allows specification of a condition that must be met in order for the generic utility functions following the `IF` clause to be executed. The `IF` may only occur immediately following a `WHEN` clause (see the `WHEN:ADR` or `WHEN:XADR` input message). It may be used with an `ELSE` clause (see the `ELSE:0` input message).

The first subfield identifies that which will be compared to the data defined in the last subfield. If the comparison satisfies the relation given, all utility functions following the `IF` (and preceding `ELSE`, if given) will be executed. If the relation is not satisfied, those functions following an `ELSE` clause will be executed. If no `ELSE` is given, no action will occur.

2. FORMAT

[1]
```
IF:XS,
{[INDIR a,|XSINDIR b,[ID c,]]{ADR d|XADR e}
|INDIR a,UMEM f
|XSINDIR b,gREG
|INDIR a,gREG}
[,INC h][,SIZE i,DISP j]
;
{EQ|GE|LE|NE|GT|LT}
;
[+|-]{A1B|CS|CSS|PSS|XS},
{[INDIR a,|XSINDIR b,[ID c,]]{ADR d|XADR e}
|INDIR a,UMEM f
|XSINDIR b,gREG
|INDIR a,gREG}
[,INC h][,SIZE i,DISP j]/
```

[2]
```
IF:XS,
{[INDIR a,|XSINDIR b,[ID c,]]{ADR d|XADR e}
|INDIR a,UMEM f
|XSINDIR b,gREG
|INDIR a,gREG}
[,INC h][,SIZE i,DISP j]
;
{EQ|GE|LE|NE|GT|LT}
;
CC,{ADR k|XADR l}/
```

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[3]
```
IF:XS,
{[INDIR a,|XSINDIR b,[ID c,]]{ADR d|XADR e}
|INDIR a,UMEM f
|XSINDIR b,gREG
|INDIR a,gREG}
[,INC h][,SIZE i,DISP j]
;
{EQ|GE|LE|NE|GT|LT}
;
UMEM f/
```

[4]
```
IF:XS,
{[INDIR a,|XSINDIR b,[ID c,]]{ADR d|XADR e}
|INDIR a,UMEM f
|XSINDIR b,gREG
|INDIR a,gREG}
[,INC h][,SIZE i,DISP j]
;
{EQ|GE|LE|NE|GT|LT}
;
gREG/
```

[5]
```
IF:XS,
{[INDIR a,|XSINDIR b,[ID c,]]{ADR d|XADR e}
|INDIR a,UMEM f
|XSINDIR b,gREG
|INDIR a,gREG}
[,INC h][,SIZE i,DISP j]
;
{EQ|GE|LE|NE|GT|LT}
;
m/
```

3. EXPLANATION OF MESSAGE

XS	Extended nonsecure call store.
a	Number of levels of indirect addressing (0-7). Default value is 0. Default type is octal. See NOTE 1.
b	Number of levels of indirect addressing (0-2). Default value is 0. Default type is octal. See NOTES 1, 3, and 4.
c	File system ID tag. (Must be in file segments 1 through 3 since this is used for extended memory access.)
d	Eight digit octal address. Used to access non extended non-secure call store (XS) memory. Default type is octal. Address bits 1-22 that are not specified will be zero filled, but bits 23-29 will be set to ones. See NOTE 1.

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e	Ten digit octal address. Used to access either XS or non-XS memory. Default type is octal. Upper bits 1-29 that are not specified will be zero filled.
f	Utility scratch memory indicator (0-7). Default type is octal. See NOTE 1.
g	Central control (CC) register mnemonics: B, F, G, J, K, L, X, Y, or Z.
h	Increment (-17777 to +17777) added to address after all levels of indirectness have been calculated. Default value is 0. Default type is octal. See NOTE 1.
i	Size of mask (1-24). Default value is 24. Default type is decimal. See NOTE 2.
j	Displacement of mask (0-23). Default value is 0. Default type is decimal. See NOTE 2.
EQ	Equal to.
GE	Greater than or equal to.
LE	Less than or equal to.
NE	Not equal to.
GT	Greater than.
LT	Less than.
+	Positive.
-	Negative.
A1B	Any 1B core memory.
CS	Nonsecure call store.
CSS	Call store secure.
PSS	Program store secure.
CC	Central control.
k	Eight digit octal active CC address in the buffer bus range. The address range for the active CC is O'77776200-O'77776377. Address bits 1-22 that are not specified will be zero filled, but bits 23-29 will be set to ones. Default type is octal. See NOTE 1.
l	Ten digit octal active CC address in the buffer bus range. The address range for the active CC is O'7777776200-O'7777776377. Upper bits 1-29 that are not specified will be zero filled. Default type is octal. See NOTE 1.
m	Data to be compared. Default type is octal. See NOTE 1.

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NOTE 1: Numbers input for **ADR**, **XADR**, **INC**, **INDIR**, **XSINDIR**, **UMEM** and 'data to be compared' are assumed to be octal unless qualified by B', D' or H' - binary, decimal, or hexadecimal.

NOTE 2: Numbers input for **SIZE** and **DISP** are assumed to be decimal unless qualified by B', O' or H' - binary, octal, or hexadecimal.

NOTE 3: **XSINDIR** NUM,**ID** TAG,[**X**]**ADR** NUM input (Base and G-Level):
The contents of the specified address will be used as the disk offset along with the ID tag to determine the extended store address.

NOTE 4: [**XSINDIR** NUM,x**REG**] or [**XSINDIR** NUM,[**X**]**ADR** NUM] input (G-Level only):
The contents of the register or address specified MUST be a window address. The window for this window address must have been previously enabled in order to access the extended store address.

4. SYSTEM RESPONSE

?I,CODE 031	Identification field contains an error. Scratch utility memory indicator (**UMEM**) number specified is not 0, 1, 2, 3, 4, 5, 6, or 7.
?I,CODE 043	Identification field contains an error. Address increment exceeds O'17777.
?I,CODE 044	Identification field contains an error. Mask specified by **SIZE** and **DISP** is invalid (**SIZE** + **DISP** >D'24).
?I,CODE 118	Identification field contains an error. Keyword **ADR** is invalid for accessing extended store.
?I,CODE 119	Identification field contains an error. Keyword **INDIR** is invalid for accessing extended store.
?R,DPLX FAIL	Insufficient system Resources are available to determine the validity of the message. Generic utility program (GULP) cannot be paged to parse the message because the file system is duplex failed.
NG,CODE 125	No Good. Invalid **ID** tag for accessing extended store.
PF,CODE 050	Printout will conditionally follow. This acknowledgement is used if file system is duplex failed and GULP is being paged from tape.
PF,CODE 091	Printout will conditionally follow. Printout will follow if ALW:UTILMSG has been input and if the WHEN flag is encountered.
RL,CODE 180	Retry Later. Execution of GULP function is in progress.
RL,CODE 181	Retry Later. Message processing in progress.
RL,CODE 182	Retry Later. Data set input mode in progress on another channel.
RL,CODE 183	Retry Later. Data set execution is in progress.
RL,CODE 185	Retry Later. No general buffer table (GBT) available or GULP cannot be paged.

NOTE: A REPT:UTIL message may follow.

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5. REFERENCES

PIDENTs
GULPUTPP
GULPUTXP
GULRUTCR

Input Messages
`ALW:UTILMSG`
`ELSE:0`
`WHEN:ADR`
`WHEN:XADR`

Output Message
`REPT:UTIL`

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ID . . . . . IN:CGALIST
WORK CENTER . . MOC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Adds or deletes a carrier group to or from the carrier group alarm (CGA) test list.

2. FORMAT

IN:CGALIST;{ADD|DLT}:{OTAN a**|TAN** b**|CIN** c**|TSN** d**}!**

3. EXPLANATION OF MESSAGE

ADD Add the carrier group to the list.

DLT Delete the carrier group from the list.

a Octal trunk appearance number (OTAN) of any trunk in the carrier group.

b TSI-SP-PORT-CHANNEL trunk appearance number (TAN) of trunk:

- TSI — A 2-digit decimal number indicating the time slot interchange (TSI) member number, range 00-63.
- SP — A 1-digit decimal number indicating signaling processor (SP) of TSI, range 0-1.
- PORT — A 1-digit decimal number indicating port of time slot interchange (TSI), range 0-6.
- CHANNEL — A 3-digit decimal number indicating channel, range 0-127.

c Circuit identification number (CIN) of any trunk in the carrier group.

d SP-ROW-POINT trunk scanner number (TSN) of trunk.

- SP — A 2-digit decimal number indicating the SP member number, range 00-31.
- ROW — A 3-digit decimal number indicating the row in the SP, range 000-255.
- POINT — A 2-digit decimal number indicating the point in the row, range 00-15.

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4. SYSTEM RESPONSE

`?I`	Identification field contains an error. Trunk input may not be in a carrier alarm group.
`NG`	No Good. When adding to the CGA test list, the carrier group alarm is already on the CGA test list.
`OK`	Good. Carrier group alarm added or deleted from carrier group alarm test list.
`PF`	Printout Follows. Followed by an `IN:CGALIST` output message.

5. REFERENCES

PIDENTs
CGAP00
TMAD0005

Output Message
`IN:CGALIST`

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ID . . . . . IN:ERAPCOND
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Specifies a condition on an individual item of an error analysis record for a subsequent retrieval/search operation (see input message `OP:ERAPSRES`). The condition specified is retained in (disk) storage until deleted by a `CLR:ERAPCOND` input message or until the error analysis disk area is zeroed.

Format [1] is used to compare operand 1 data to a specified value.
Format [2] is used to compare operand 1 data to corresponding operand 2 data.

NOTE: At least one of the options **DATA2** h, **ITEM2** i or **WORD2** j, or **MASK2** k must be present for Format [2].

2. FORMAT

[1] **IN:ERAPCOND** a:**DATA1** b,{**ITEM1** c|**WORD1** d}[,**MASK1** e],f,**VALUE** g!

[2] **IN:ERAPCOND** a:**DATA1** b,{**ITEM1** c|**WORD1** d}[,**MASK1** e],f[,**DATA2** h] [,{**ITEM2** i|**WORD2** j}][,**MASK2** k]!

3. EXPLANATION OF MESSAGE

a — Any condition name selected by the user (1 to 3 characters).

b — Data type name; see Tables A, B, and C under input message `OP:ERAPDATA`.

c — Item name, up to six characters; valid inputs depend upon the input for variable b as follows:

— Record type from Table A under input message `OP:ERAPDATA`:

MFN	Maintenance file number
SRP0	
SRP1	Subrecords
SRP2	Present
SRP3	Indicator
SRP4	Words
TOD	Time of day

NOTE: For specific record types, see list of item names in Table E under input message `OP:ERAPDATA`.

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— File type from Table B under input message OP:ERAPDATA:

DATE

MFNUM Maintenance file number

— Subrecord type from Table C under input message OP:ERAPDATA:

See Table E under input message OP:ERAPDATA and Table 1 under output message OP:ERAPDATA. **ITEM1** or **ITEM2** options are not available for all subrecords in Table C. See the OP:ERAPDATA input message Table E. Use the **WORD** option to obtain the output for those subrecords not shown in Table E.

d Decimal word number counted from 0, identifying position of word in a subrecord or from 1 for a record.

e Octal mask.

f Arithmetic comparison:

DF — Arithmetic comparison not logically equal (different from).

EQ — Arithmetic comparison for equal to.

GE — Arithmetic comparison for greater than or equal to.

GT — Arithmetic comparison for greater than.

LE — Arithmetic comparison for less than or equal to.

LT — Arithmetic comparison for less than.

NE — Arithmetic comparison for not equal to.

SA — Arithmetic comparison logically equal (same as).

g Octal value, with the following exception: if c is either a date or time of day, then g must be of the form D'llmmnn. For date, ll=month, mm=day, and nn=year (e.g., D'011776). For time of day, ll=hours, mm=minutes, and nn=seconds (e.g., 080000).

h Data type name, as in b.

i Item name, up to six characters, as in c.

j Decimal word number, as in d.

k Octal mask.

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NOTE: The condition specified by this message is of the form:

Operand 1, Conditional, Operand 2.

Operand 1 is specified by the arguments of the keywords **DATA1**, **ITEM1** or **WORD1**, and **MASK1**. It is intended to refer to the contents of a named item (**ITEM1**) or word (**WORD1**) drawn from a named type of data (**DATA1**), with the item contents optionally masked (**MASK1**). Valid choices of the arguments of **DATA1** and **ITEM1** are listed in the description of input message OP:ERAPDATA.

Operand 2 is specified by the argument of keyword **VALUE** or, alternatively, by the arguments of keywords **DATA2**, **ITEM2** or **WORD2**, and **MASK2**. It may be a value (**VALUE**) against which Operand 1 is to be compared, or it may refer to the contents of an item in the same manner as Operand 1. In the latter case, at least one of the keywords **DATA2**, **ITEM2**, **WORD2** or **MASK2** must appear. The defaults for **DATA2**, **ITEM2**, **WORD2** and **MASK2** are the arguments specified by the corresponding keywords in Operand 1 (**DATA1**, **ITEM1**, **WORD1**, **MASK1**).

NOTE: If Operand 2 refers to an item or word, both Operand 1 and 2 must pertain to the same file type. (See list of error analysis program (ERAP) file types in description of input message OP:ERAPDATA.)

The conditional is specified by one of the keywords **EQ**, **GE**, **LE**, **NE**, **GT**, **LT**, **SA**, and **DF**.

4. SYSTEM RESPONSE

?I,INC DATA	Identification field contains an error. See explanation of message note.
PF	Printout Follows. Followed by an IN:ERAPCOND output message.

5. REFERENCES

PIDENTs
ERAP
ERIF

Practice 254-200-215, *Error Analysis Program Application*
Practice 254-280-320, *Error Analysis Program*

Input Messages
CLR:ERAPCOND
OP:ERAPCOND
OP:ERAPDATA
OP:ERAPSRES

Output Messages
IN:ERAPCOND
OP:ERAPDATA

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ID . . . . . IN:ERAPDATA
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Makes a record of a frame repair and links the frame repair to some previous system action such as an interrupt, a diagnostic, or a trouble location procedure (TLP) search. This link is established by supplying both the trouble report number (TRNUM), which records the frame repair, and the maintenance file number (MFNUM), which records the previous system activity which presumably prompted the frame repair.

Format [1] is used to create REPAIREC record.
Format [2] is used to create TTYINPUT record.

2. FORMAT

[1] **IN:ERAPDATA REPAIREC:**a[,b],**MFNUM** c,**TRNUM** d[,**EQPTLOC** e] [,**TLPPOS** f]**!**

[2] **IN:ERAPDATA TTYINPUT:**[**MFNUM** g,]**DATA** h**!**

3. EXPLANATION OF MESSAGE

REPAIREC Indicates the type of error analysis program (ERAP) record which will be generated.

TTYINPUT Indicates the type of ERAP record which will be generated.

a,b Unit type-member number and optionally the subunit type-member number identifying the frame being repaired.

c The maintenance file number associated with the system action which prompted the frame repair. If the system action resulted in a TLP search, then the **MFNUM** printed with the ANALY:TLPF-SUM summary data message should be used. If the system action was an interrupt which caused no TLP search, then the **MFNUM** printed with the REPT:0 interrupt message should be used. If no **MFNUM** can be associated with the frame repair, then zero (0) should be used.

d The trouble report number associated with the frame repair.

e Equipment location where the location is specified as bhh-vv (i.e., 126-14) using the standard notation for the absolute location of the piece of equipment replaced in repairing the frame. (b = bay, hh = horizontal distance from the floor and vv = vertical location.)

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This parameter should be omitted only if the repair was not a simple replacement of some piece of equipment. One example would be the correcting of a backplane short.

Pack reseats which results in frame repairs should also be recorded using this message.

`f` Position of the faulty piece of equipment in the list of `SUSPECTED FAULTY EQUIPMENT` generated when a TLP search is done following a failing diagnostic. This parameter should not be omitted if a TLP search was associated with the frame repair, regardless of whether the faulty piece of equipment was on the resultant list or not. Zero (0) should be used if the equipment was not on the `SUSPECTED FAULTY EQUIPMENT` list.

`g` The maintenance file number to be assigned to the **`TTYINPUT`** record, if specified. Otherwise a new **`MFNUM`** will be assigned by ERAP.

`h` One octal word of data to be stored in the **`TTYINPUT`** record.

4. SYSTEM RESPONSE

`?D` Data field contains an error. **`EQPTLOC`** data format invalid.

`?E` Syntax Error exists in the message but cannot be resolved to the proper field.

`?I,INV DATA` Identification field contains an error. Argument of **`IN:ERAPDATA`** not recognized.

`OK` ERAP record generated.

`RL` Retry Later. ERAP buffers full (wait until the buffers can be processed).

ERAP inhibited from collection the specified record type (allow the collection of the specific record type).

5. REFERENCES

PIDENTs
- DRPPSUPR
- ERAP
- ERIF

Practice 234-180-270, *Diagnostic Results Post-Processing Program - Description*
Practice 234-280-230, *Trouble Location Procedure Programs - Description*
Practice 254-200-215, *Error Analysis Program Application*
Practice 254-280-320, *Error Analysis Program*

PA-4A002-01, *4ESS™ User's Manual*, Section C.3, Trouble Location Procedures

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Output Messages

```
ANALY:TLPF-SUM
REPT:0
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . IN:LIBSYS
WORK CENTER . . MAC, MOC, NMOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Inputs data to the input control block (ICB) associated with library client a. The flag word in the ICB is accessed by the **SET** and **RESET** options. The other options allow loading of data into the auxiliary ICB associated with the ICB.

2. FORMAT

```
IN:LIBSYS:[PGM a,TASK b][,CLIENT c][,SET d][,RESET e]
      [,WORD f,{OCT g|DEC h|ASC i|BCD j}]!
```

3. EXPLANATION OF MESSAGE

a	Program name of the program within the package (PKG) name.
b	Task number within programs (**PGM** a).
c	Client number (0-7) of the client whose ICB is to be loaded with data.
d	Bit position or list of bit positions to be set to 1 in the flags of the ICB.
e	Bit position or list of bit positions to be reset to 0 in the flags of the ICB.
f	Word number in the auxiliary ICB at which to start loading the data specified by **OCT**, **DEC**, **ASC** or **BCD**. If not specified, data will be loaded in the next available address in the auxiliary ICB.
g	Octal data to be loaded in the auxiliary ICB, where e is the value for a single word or a list of values.
h	Decimal data to be loaded in the auxiliary ICB, where f is the value for a single word or a list of values.
i	ASCII data, whose value in binary is to be loaded in the auxiliary ICB, where g is the data for a single word, or a list of data.
j	Binary coded decimal data to be loaded in the auxiliary ICB, where h is the value for a single word or a list of values.

4. SYSTEM RESPONSE

NG,CODE 040	No Good. Library system not loaded.
NG,CODE 041	No Good. More than one of **OCT**, **DEC**, **ASC**, or **BCD** specified.
NG,CODE 042	No Good. Client number not specified.
NG,CODE 043	No Good. Client number out of range or not active.

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`NG,CODE 044`	No Good. Argument expected for **`WORD`** keyword but not specified.
`NG,CODE 045`	No Good. Word number out of range.
`NG,CODE 046`	No Good. Internal error detected.
`OK`	Good. Requested action completed.

5. REFERENCES

PIDENT
LIBRINPT

Practice 254-280-214, *Library Control Program*

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WARNING
INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

ID . . . . . IN:OWBUF
WORK CENTER . . MOC
GENERIC . . . . . 4E21 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

WARNING
Caution should be exercised when using this message so as not to permanently lose capabilities in the main memory or file system.

1. PURPOSE

Initiates Step 1 of permanent overwrite procedure. It causes the data at the given start address and the data contained in the following locations to be placed in a temporary rollback buffer (see **DATA** b). The new data input in the message is also saved. This buffer is saved until the hash sums and file system copies are changed in Step 3 in the UPD:HDATA input message.

The "UPD IN PROG" lamp on the master control complex (MCC) is turned on and remains on during overwrite procedure.

Main memory addresses consists of 30 bits. The full 30 bit address may be specified using format [2] or just the lower 23 bits are used with format [1].

Format [1] and format [2] is used to overwrite main memory data.
Format [3] is used to overwrite the library KCODE.
Format [4] and format [5] is used to overwrite file system only data.

2. FORMAT

[1] **IN:OWBUF:ADR** a**,DATA** b[**,OLDDATA** c]**!**

[2] **IN:OWBUF:XADR** d**,DATA** b**!**

[3] **IN:OWBUF:PKG** e**,ADR** f**,DATA** b[**,OLDDATA** c]**!**

[4] **IN:OWBUF:FS,ID** g**,ADR** h**,DATA** b[**,OLDDATA** c]**!**

[5] **IN:OWBUF:FS,PKG** e**,ID LIB,ADR** f**,DATA** b[**,OLDDATA** c]**!**

3. EXPLANATION OF MESSAGE

a — Absolute main memory address at which overwrite is to start. Default data type is octal. Up to eight octal digits are allowed. Any missing upper bits (from 1 to 22) will be zero filled. Bits 23-29 will be set to ones.

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`b` List of the data to overwrite in octal. The number of arguments given determines the number of words to be overwritten. If more than one word is to be overwritten, the list of numbers must be enclosed in parentheses and separated by commas.

`c` If specified, this data will be compared to data currently in the system, and if a mismatch occurs, the message will be rejected.

`d` Absolute main memory address at which overwrite is to start. Up to 10 octal digits are allowed. Any missing bits are zero filled

`e` Mnemonic library package name.

`f` Address equals relative address into the library pident plus octal 200. Default data type is octal.

`g` Mnemonic for file system ID tag for hashed data:

- `GEN` — Generic data.
- `LIB` — Library data.
- `MERGE` — Hash sums, system maps.
- `NWM` — Network management.
- `ODA` — Office data assembler (ODA) data for file segment 0.
- `ODA1` — ODA data for file segment 1, on backed up ODA tape write / read program (TWRP) tape.
- `ODA2` — ODA data for file segment 2, on backed up ODA TWRP tape.
- `ODA3` — ODA data for file segment 3, on backed up ODA TWRP tape.
- `PGPGM` — Paged program data.
- `RCRB` — Recent change rollback area.
- `TPM` — Traffic/plant measurements.

`h` Relative file system address.

4. SYSTEM RESPONSE

`?D,CODE 004` Data field contains an error. **XADR** keyword not allowed.

`?D,CODE 005` Data field contains an error. Missing **ADR** or **XADR** keyword.

`?D,CODE 101` Data field contains an error. No argument for keyword **ID**.

`?D,CODE 102` Data field contains an error. No argument for keyword **PKG**.

`?D,CODE 103` Data field contains an error. No argument for keyword **FPKG**.

`?D,CODE 104` Data field contains an error. No argument for keyword **ADR**.

`?D,CODE 105` Data field contains an error. No argument for keyword **DATA**.

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`?D,CODE 106`	Data field contains an error. Number of arguments of **OLDDATA** is different from number of arguments of **DATA**.
`?D,CODE 187`	Data field contains an error. No argument for keyword **XADR**.
`?E,CODE 100`	Syntax error exists in the message but cannot be resolved Check the *Input Message Document* to verify that no extra keywords have been input.
`?R,DPLX FAIL`	Insufficient system Resources are available to determine the validity of the message. Generic utility program (GULP) cannot be paged to parse the message because the file system is duplex failed.
`NG,CODE 110`	No Good. Overwrites of system merge ID tag cannot be mixed with overwrites of other ID tags.
`NG,CODE 111`	No Good. Overwrite overlaps two ID tags.
`NG,CODE 112`	No Good. Wrong ID tag specified for a library file system only overwrite.
`NG,CODE 114`	No Good. Invalid ID tag mnemonic.
`NG,CODE 115`	No Good. Incorrect ID tag specified for a file system only overwrite.
`NG,CODE 120`	No Good. Part or all of non-library main memory overwrite is not backed up on file system.
`NG,CODE 121`	No Good. File system backup range is not contiguous.
`NG,CODE 122`	No Good. **PKG, ADR** conversion failed. This is due to either invalid or unknown **PKG** name, relative address larger than size of **PKG**, or library package not loaded.
`NG,CODE 123`	No Good. **FPKG, ADR** conversion failed. Invalid **FPKG** name.
`NG,CODE 124`	No Good. Library overwrite outside of CS-library KCODE address range.
`NG,CODE 132`	No Good. Previously input `COPY:OWBUF` request has not yet completed. Enter `STOP:OVRWRT`.
`NG,CODE 134`	No Good. Previously input `UPD:HDATA` request has not yet completed. Enter `STOP:OVRWRT`.
`NG,CODE 140`	No Good. Overwrite buffer full.
`NG,CODE 141`	No Good. Library program not loaded in CS-library KCODE.
`NG,CODE 143`	No Good. Input overwrite overlaps with overwrite currently in buffer.
`NG,CODE 144`	No Good. Old data specified in message does not match data in system.
`NG,CODE 161`	No Good. 1B file system reject — core **ADR** is out of range. Seek help.
`NG,CODE 162`	No Good. 1B file system reject — file system address mismatches ID tag.
`NG,CODE 163`	No Good. 1B file system reject — write request not multiple of 32.

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`NG,CODE 164`	No Good. 1B file system reject — size too big.
`NG,CODE 166`	No Good. 1B file system reject — blocked.
`NG,CODE 167`	No Good. 1B file system reject — write (trouble) to in-service file.
`NG,CODE 168`	No Good. 1B file system reject — queue invalid for GULP.
`NG,CODE 169`	No Good. 1B file system reject — mutilated queue.
`NG,CODE 170`	No Good. 1B file system reject — no queue specified.
`NG,CODE 188`	No Good. Address is not equipped.
`PF`	Printout Follows.
`PF,CODE 050`	Printout will conditionally follow. This acknowledgement is used if file system is duplex failed and GULP is being paged from tape.
`RL,CODE 131`	Retry Later. Overwrite in progress from another channel.
`RL,CODE 145`	Retry Later. Library system in transition state. Wait a few seconds and reenter the message.
`RL,CODE 160`	Retry Later. File system queue full.
`RL,CODE 180`	Retry Later. Execution of GULP function is in progress.
`RL,CODE 181`	Retry Later. Message processing in progress.
`RL,CODE 182`	Retry Later. Dataset input mode in progress on another channel.
`RL,CODE 183`	Retry Later. Dataset execution is in progress.
`RL,CODE 185`	Retry Later. No general buffer table (GBT) available or failure to page in GULP.

5. REFERENCES

PIDENTs
- GULPOWRT
- GULRUTCR
- IOCPIMC1
- IOCPOMC1

Input Messages
- `COPY:OWBUF`
- `STOP:OVRWRT`
- `UPD:HDATA`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . IN:SDYGRP
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Adds or deletes an international trunk subgroup (TSG) to or from the international trunk subgroup study exclusion list. The subgroup study exclusion list will allow up to 200 trunk subgroups. This applies to tape recording of international call detailed recording (ICDR) calls only.

2. FORMAT

IN:SDYGRP;{ADD|DLT}:CIN a!

3. EXPLANATION OF MESSAGE

ADD	Add a trunk subgroup to list.
DLT	Delete a trunk subgroup from list.
a	Circuit identification number (CIN) or any international trunk.

4. SYSTEM RESPONSE

NG,CODE 001	No Good. List overflow, 200 trunk subgroups already on list.
NG,CODE 002	No Good. Trunk subgroup is already on list, cannot be added twice.
NG,CODE 003	No Good. Trunk subgroup to be deleted from list was not on list.
NG,CODE 004	No Good. List active; deactivate the list with command INH:SDYGRP before adding or deleting trunk subgroups.
NG,CODE 005	No Good. Trunk subgroup is not international.
NG,CODE 006	No Good. Tape recording of ICDR calls is inhibited.
OK	Good. Trunk subgroups have been added to or deleted from international trunk subgroup study exclusion list.

5. REFERENCES

PIDENT
ICDRPRGM

Input Messages
ALW:SDYGRP
CLR:SDYGRP
INH:SDYGRP
OP:SDYGRP

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . IN:UTILDS
WORK CENTER . . MAC, MOC, NMOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Places the generic utility system in a mode to save all utility messages that follow in the file system (FS). These messages may be referenced at a later time by the data set name specified. The message `STOP:IN-UTILDS` ends the data set.

2. FORMAT

`IN:UTILDS` `a!`

3. EXPLANATION OF MESSAGE

`a`	Data set name (1 to 9 alphanumeric characters, the first of which must be a letter).

4. SYSTEM RESPONSE

`?I,CODE 033`	Identification field contains an error. Data set name already exists. Rename.
`?R,DPLX FAIL`	Insufficient system Resources are available to determine the validity of the message. Generic utility program (GULP) cannot be paged to parse the message because the file system is duplex failed.
`NG,CODE 032`	No Good. A utility input mode already exists.
`PF,CODE 050`	Printout will conditionally follow. This acknowledgement is used if file system is duplex failed and GULP is being paged from tape.
`PF,CODE 091`	Printout will conditionally follow. Data set opened.
`RL,CODE 021`	Retry Later. Data set reference table is full. Five data sets is maximum allowed.
`RL,CODE 180`	Retry Later. Execution of GULP function in progress.
`RL,CODE 181`	Retry Later. Message processing in progress.
`RL,CODE 182`	Retry Later. Data set input mode in progress on another channel.
`RL,CODE 183`	Retry Later. Data set execution in progress.
`RL,CODE 185`	Retry Later. No general buffer table (GBT) available or failure to page in GULP.

SEE PROPRIETARY NOTICE ON COVER PAGE

5. REFERENCES

PIDENT
GULPDSET

Practice 234-301-003, *1B Processor Generic Utility Program (GULP) Application - Description*

Input Messages
`CLR:UTILDS`
`EXC:UTILDS`
`OP:UTILDS`
`OP:UTLDSTAB`
`STOP:IN-UTILDS`
`UPD:UTILDS`

SEE PROPRIETARY NOTICE ON COVER PAGE

WARNING
INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

ID INH:0
WORK CENTER . . MAC, MOC, NMOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

WARNING
Because this input message inhibits particular maintenance interrupt levels, the service affected area is dependent upon the level of interrupt being served. Since errors are reported to the central processor via the interrupt levels, a particular failure could not be noted or corrected.

1. PURPOSE

Inhibits the occurrence of the specified maintenance interrupt or maintenance interject actions in the central control (CC). The interrupt/interject sources to be inhibited are specified mnemonically as described. One or more interrupt/interject levels may be specified.

2. FORMAT

INH:[**ALEV** a][,**BLEV** b][,**DLEV** c][,**ELEV** d][,**FLEV** e][,**KLEV** f][,**INJ** g];**UCL!**

3. EXPLANATION OF MESSAGE

a — A-level maintenance interrupts:

UTAS — Utility A-level interrupt source.

b — B-level maintenance interrupts:

INBS — Internal error.

PSBS — Pulse source failure.

c — D-level maintenance interrupts:

CSDS — Call store failure.

IFDS — Interface bus error.

ORDS — Invalid transfer.

PADS — Protected area failure.

SCDS — Stack overflow.

d — E-level maintenance interrupts:

ES — E-level source.

e — F-level maintenance interrupts:

APEPU — Peripheral unit answer parity summary.

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`APUFS` — Autonomous unit failure.

`ASWEPU` — Peripheral unit all-seems-well error summary.

`PUFS` — Peripheral unit failure.

`f` K-level maintenance interrupts:

`KL0S` — K-level source 0.

`g` Maintenance interjects:

`APUT` — Autonomous peripheral unit trouble.

`UCL` Keyword unconditional is required because the use of this input message could lead to a service-affecting outage. See explanation in **CAUTION**.

NOTE: The mnemonics used for the sources are the same as the COMPOOL defined symbols with the IN1I prefix removed.

4. SYSTEM RESPONSE

`?I,INV DATA` Identification field contains an error. Attempt to inhibit an invalid interrupt/interject source or one that is permanently inhibited in the system.

`?I,MISS KW` Identification field contains an error. Required keyword **`UCL`** omitted.

`OK` Good. Request completed.

5. REFERENCES

PIDENT
MACPROUT

Practice 254-280-210, *Maintenance Control Program*

Input Message
`ALW:0`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INH:APMSG
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . APSMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Disables the sending and receiving of 3B attached processor system (APS) input/output (I/O) messages at 1A processor I/O channels.

This message inhibits 1A processor I/O channels from sending or receiving APS messages. The APMSG INHIBITED flag will be set and the master control complex (MCC) program control off norm lamp will light.

2. FORMAT

`INH:APMSG!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`OK` Good. Indicates that the request was completed.

5. REFERENCES

PIDENT
IOCPUSR1

Input Messages
`ALW:APMSG`
`APMSG:0`

Output Message
`REPT:APMSG`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INH:APS
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Stops the automatic recovery process for the attached processor system (APS) link to the 3B computer.

Inhibits the automatic recovery function. The capability of automatically restoring the attached processor communication link when duplex failed is inhibited.

2. FORMAT

INH:APS a;**AUTORCVY!**

3. EXPLANATION OF MESSAGE

a	**APS** number (0-7).

4. SYSTEM RESPONSE

?I,INVD	Identification field contains an error. Indicates an invalid message format.
NG,INVD	No Good. Indicates an invalid APS number was input.
NG,MIS	No Good. Indicates a missing argument in message (**AUTORCVY** keyword was not specified).
OK	Good. Indicates that auto recovery is inhibited.

5. REFERENCES

PIDENTs
APFRBASE
APFRILEV

Input Message
ALW:APS

Output Message
REPT:APS

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INH:AUD
WORK CENTER . . MAC, MOC, NMOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Inhibits the audit program or programs specified from executing.

2. FORMAT

`INH:AUD:NUM` `a`**`!`**

3. EXPLANATION OF MESSAGE

`a` Number of the audit program to be inhibited. May be a single number or a list of numbers. See the `AUD:NUM` input message for a list of audit number descriptions.

4. SYSTEM RESPONSE

`PF` Printout Follows. The specified audit(s) is now inhibited. An `OP:AUDSTAT` output message will follow with a list of all inhibited audits. Additionally, an `OP:AUDSTAT` output message will be printed every 15 minutes along with a list of all inhibited audits.

`PF` Printout Follows. An `OP:AUDSTAT` output message follows with a list of all inhibited audits. Additionally, an `OP:AUDSTAT` output message prints every 15 minutes when audits exist in an off-normal condition.

5. REFERENCES

PIDENT
AUDSCTRL

Input Message
`AUD:NUM`

Output Message
`OP:AUDSTAT`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INH:AUDMSG
WORK CENTER . . MAC, MOC, NMOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Inhibits or truncates the printing of certain classes of audit messages. Format [1] inhibits or truncates the specified portion of the audit messages for the specified class of audits. Format [2] totally inhibits the audit messages for the specified audit system audits and also inhibits phase escalation (that is, puts audits in the quiet mode).

2. FORMAT

[1] **INH:AUDMSG[OPER|MTCE|AUD|ALL][:TEXT|DATA|ALL]!**

[2] **INH:AUDMSG:NUM** a**!**

3. EXPLANATION OF MESSAGE

OPER Operational program defensive check failure client or class of audit message.

MTCE Maintenance program defensive check failure client or class of audit message.

AUD Audit program errors detected client or class of audit message.

ALL All of the previous clients (**OPER**, **MTCE**, **AUD**). **ALL** is the default value.

TEXT Eliminates text explanation and data dumps from the audit printout.

DATA Eliminates only the data jumps from the audit printout.

ALL Inhibits the audit message completely. **ALL** is the default value.

a Number of the audit program(s) to be placed in the quiet mode. (Quiet mode inhibits audit messages and phase escalation.) This variable may be a single number or a list.

NOTE: The value **ALL** cannot be entered for variable a.

4. SYSTEM RESPONSE

?I,RANGE ERR Identification field contains an error. Nonexistent audit requested.

PF Printout Follows. In response to message Format [2], a printout follows (OP:AUDSTAT output message).

SEE PROPRIETARY NOTICE ON COVER PAGE

`OK` Good. In response to message Format [1], the requested messages are inhibited or truncated. The master control complex (MCC) lamp "TTY MESSAGE INHIBITED" lights. If all message levels for all clients are inhibited, the "INHIBIT AUDIT PRINTOUT" MCC key lights.

NOTE: The MCC lamp "PROGRAM CONTROL OFF NORMAL" lights when the **`INH:AUDMSG:NUM`** input message is entered. This is a program-off normal condition since the audits in the quiet mode cannot escalate to a phase.

NOTE: Following the system response, the `OP:AUDSTAT` output message follows with a list of all of the audits in the quiet mode. This list is printed every 15 minutes if audits exist in an off-normal state.

NOTE: Audit will be in quiet mode for 3 hours after input message.

5. REFERENCES

PIDENT
AUDSCTRL

Input Messages
`ALW:AUDMSG`
`OP:AUDSTAT`

Output Message
`OP:AUDSTAT`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INH:CAMAONI
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Puts centralized automatic message accounting (CAMA) operator number identification (ONI) suspension into effect, allowing all calls on the COP queue to complete free.

2. FORMAT

`INH:CAMAONI!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`ONI`	Suspension lamp at master control complex (MCC) turned on.
`PF`	Printout Follows.

5. REFERENCES

PIDENT
CAMA0000

Practice 234-180-110, *Call Processing Programs*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INH:CATLAS
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Inhibits the centralized automatic trouble locating and analysis system (CATLAS-2) feature to operate in the normal mode.

This message will inhibit the normal mode of stored program control system (SPCS)/switching control center system (SCCS) interface for CATLAS-2 repair operations. The SPCS will remain in this mode until the `ALW:CATLAS` message is entered. This message should be used when the SCCS computer becomes unavailable.

2. FORMAT

`INH:CATLAS!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`OK`	Good.
`NG,CODE 001`	No Good. Indicates CATLAS-2 feature is not defined in office dependent data.

5. REFERENCES

PIDENT
DRPSUPR

Input Message
`ALW:CATLAS`

Output Messages
`REPT:CAT01`
`REPT:CAT03`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INH:DGRPT
WORK CENTER . . MOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

To inhibit the daily (20 minutes past midnight) output of all digroups (digroup terminal [DT] and digital interface frame [DIF]) which have out-of-frame or slip counts that have reached threshold limits (maintenance and out-of-service thresholds).

2. FORMAT

INH:DGRPT!

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

OK Good. Request is processed.

5. REFERENCES

PIDENT
TMAD0005

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INH:DGSTAT
WORK CENTER . . MOC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Inhibits slips on Digroup Terminal (DT) or Digital Interface Frame (DIF) Digroups (DG) from being reported on the specified digroup. Also, the list option can be used to inhibit the entire slip monitor list.

2. FORMAT

```
INH:DGSTAT;SLIP:{TSN a|TAN b|OTAN c|CIN d|DIF e,DIU f,DG g|DT h,
      DTU i,DG j|LIST}!
```

3. EXPLANATION OF MESSAGE

SLIP Slip monitor list.

a SP-ROW-POINT Trunk Scanner Number (TSN) of any trunk in the digroup:

- POINT — A 2-digit decimal number indicating the point in the row, range 00-15.
- ROW — A 3-digit decimal number indicating the row in the Signaling Processor (SP), range 000-255.
- SP — A 2-digit decimal number indicating the SP member number, range 00-31.

b TSI-SP-PORT-CHANNEL Trunk Appearance Number (TAN) of any trunk in the digroup:

- CHANNEL — 3-digit decimal number indicating channel, range 0-127.
- PORT — A 1-digit decimal number indicating port of Time Slot Interchange (TSI), range 0-6.
- SP — A 1-digit decimal number indicating SP of TSI, range 0-1.
- TSI — A 2-digit decimal number indicating the TSI member number, range 00-63.

c Octal TAN of any trunk in the digroup.

d Circuit Identification Number (CIN) of any trunk in the digroup.

e Digital Interface Frame (DIF) number of digroup.

f Digital Interface Unit (DIU) number of digroup.

SEE PROPRIETARY NOTICE ON COVER PAGE

`g`	Digroup number.
`h`	Digroup Terminal (DT) number of digroup.
`i`	Digroup Terminal Unit (DTU) number of digroup.
`j`	Digroup number.
`LIST`	Entire monitor list.

4. SYSTEM RESPONSE

`?D`	Data field contains an error.
`?E`	Syntax Error exists in the message but cannot be resolved to the proper field.
`NG`	No Good. Digroup not currently being monitored.
`OK`	Good. Request accepted. Slips on specified digroup or entire monitor list inhibited.
`RL`	Retry Later.

5. REFERENCES

PIDENTs
TMAD0005
TMAD0061

Input Messages
`ALW:DGSTAT`
`MON:DGSTAT`
`STOP:MON-DGSTT`

SEE PROPRIETARY NOTICE ON COVER PAGE

WARNING
INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

ID . . . . . INH:DIF
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E
TYPE . . . . . Input

WARNING
This message, with the `APUT` or `APUF` option, should only be used when directed by a growth procedure or technical support.

1. PURPOSE

Resets Digital Interface Frame (DIF) buffers and pests.

Format [1] is used to set a particular DIF controller(s) APUT, APUF, BLM, or DBOV pest.
Format [2] is used to set the Digital Interface Unit (DIU) pest in the DIF.
Format [3] is used to set the Digroup (DG) pest in the particular DIU or DIF.

2. FORMAT

[1] **`INH:DIF`** `a,{`**`APUT`**`|`**`APUF`**`|`**`BLM`**`|`**`DBOV`**`}!`

[2] **`INH:DIF`** `a,`**`DIU`** `b,`**`SPEC!`**

[3] **`INH:DIF`** `a,`**`DIU`** `b,`**`DG`** `c!`

3. EXPLANATION OF MESSAGE

`a`	Digital interface frame (0 to 31).
`b`	Digital interface unit (0 to 33).
`c`	Digroup (1 to 5).
`APUT`	Autonomous peripheral trouble.
`APUF`	Autonomous peripheral failure.
`BLM`	Base level maintenance pest.
`DBOV`	Digital buffer overflow pest.

4. SYSTEM RESPONSE

`PF`	Printout Follows. The input message will be echoed when pesting has been scheduled.

5. REFERENCES

PIDENT
ERATPEST

SEE PROPRIETARY NOTICE ON COVER PAGE

Input Message
`ALW:DIF`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INH:DT
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Pests either all digroup terminals (DTs) or specified digroup terminal units (DTUs).

Format [1] is used to pest an entire DT.
Format [2] is used to pest the specified or all DTUs.

2. FORMAT

[1] **INH:DT** a,**SPEC!**

[2] **INH:DT** a,**DTU** b,{**SPEC**|**ALL**}**!**

3. EXPLANATION OF MESSAGE

a	**DT** number (1-127).
b	**DTU** number (0-8).
SPEC	Specified DTU only.
ALL	All DTUs on this DT.

4. SYSTEM RESPONSE

PF	Printout Follows. The input message is echoed when the pest request is sent to the DT message handler.

5. REFERENCES

PIDENT
ERATPEST

Input Message
ALW:DT

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INH:ERAP
WORK CENTER . . MOC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Turns off the collection of the traffic/plant measurement report or inhibits specified error analysis functions. The collection of the traffic/measurement report is activated by the ALW:ERAP input message.

Format [1] is used to inhibit a specified error analysis function.
Format [2] is used to turn-off the collection of traffic/plant measurement report.

2. FORMAT

[1] **INH:ERAP** a!

[2] **INH:ERAP:MEASREPT** b!

3. EXPLANATION OF MESSAGE

a — Function to be inhibited. The argument a can be any of the error analysis program (ERAP) record type names or file type names listed in the description of input message OP:ERAPDATA. For each type of data named in a, the result of the **INH:ERAP** message is to inhibit the collection of that type data by ERAP. For example, if a = (MLHIST,SAWSFILE), then the collection of MLHIST (e.g., interrupt) records is inhibited, along with SAWSBKFL, SAWSEXFL, SAWSIFHF records. Other choices of a are described.

ALL — Inhibits all ERAP functions except teletypewriter (TTY) input/output. This includes **DRAF**, **AUDT**, **PACK**, **UNLDILBF**, **UNLDBIBF** and all data collection.

ALLBLD — Inhibits collection of data on base level; this includes all records with the exception of MLHIST, MLPHSE and PHSEHST.

AUDT — Inhibits the auditing of the error analysis data base (see messages AUD:ERAPDATA).

DRAF — Inhibits the processing (data reduction and formatting) of data and permanent storage on disk, but does not inhibit the collection of raw (unprocessed) data.

SEE PROPRIETARY NOTICE ON COVER PAGE

NORMAL Inhibits all "normal" ERAP functions except TTY input/output. This includes **UNLDILBF**, **UNLDBLBF**, **DRAF**, **AUDT**, **PACK** and all data collection except for record types RAWDGNP, RAWDGNA and traffic/plant measurement reports.

NORMALBLD Same as **ALLBLD**, but does not inhibit the collection of RAWDGNP and RAWDGNA.

OTHERDGN Inhibits the collection of all diagnostic records except those automatically requested by fault recovery programs.

PACK Inhibits the repacking of permanently stored data (see messages CLR:ERAPDATA and UPD:ERAP).

UNLDBLBF Inhibits the unloading of the "base level buffer" from core to file store. This choice affects all record types other than MLHIST (compare **UNLDILBF**).

UNLDILBF Inhibits the unloading of the interrupt level buffer from core to file store. The only record type involved is MLHIST, i.e., RAW MLHIST records may be collected in a core buffer but the transfer of the buffer contents to file store will be inhibited.

NOTE: The inhibit flags are reset by phases 2, 3, 4 and also whenever the base call store (CS) is pumped (zeroed).

b Number of the traffic/plant measurement report, the collection of which is to be inhibited (decimal number, between 1 and 23, multiple arguments not allowed).

4. SYSTEM RESPONSE

?D,MISS KW Data field contains an error. Invalid message of the form **INH:ERAP!** or **INH:ERAP a:NOPRINT!** (keyword **MEASREPT** missing.)

?D,XTRA KW Data field contains an error. Keyword **NOPRINT** not allowed with keyword **MEASREPT** or **INH:ERAP** message.

?I,INV CHAR Identification field contains an error. Argument of keyword **ERAP** not recognized.

?I,INV DATA Identification field contains an error. Argument of keyword **MEASREPT** not between 1 and 23.

SEE PROPRIETARY NOTICE ON COVER PAGE

5. REFERENCES

PIDENTs
ERAP
ERIF

Practice 254-280-320, *Error Analysis Program*
Practice 254-200-215, *Error Analysis Program Application*

Input Messages
`ALW:ERAP`
`AUD:ERAPDATA`
`CLR:ERAPDATA`
`OP:ERAPDATA`
`UPD:ERAP`
`VER:MEASREPT`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INH:EST
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Sets specified pests for the echo suppressor terminal (EST).

2. FORMAT

INH:EST a,{**KCODE**|**APUT**|**APUF**|**ALL**|**ESU** b,**SPEC**}**!**

3. EXPLANATION OF MESSAGE

a	**EST** member number (1-31).
KCODE	All seems well (ASW) and parity errors at the central control (CC).
APUT	Autonomous interjects.
APUF	Autonomous F-levels.
ALL	Autonomous interjects and F-levels.
b	Echo suppressor unit (**ESU**) number (0-14).
SPEC	Specified pests only.

4. SYSTEM RESPONSE

PF	Printout Follows. The input message will be echoed when the pest is set.

5. REFERENCES

PIDENT
ERATPEST

Input Messages
ALW:EST
OP:PERIFINH

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INH:FNS
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Inhibits the specified fan system (FNS) within the specified 1B processor frame and causes the fans to go to full speed. The FNS remains inhibited until initialized and brought back into service with the `ALW:FNS` input message.

2. FORMAT

`INH:FNS` `a!`

3. EXPLANATION OF MESSAGE

`a`	A 1-digit decimal number specifying the **`FNS`** to be inhibited (`0` or `1`).

4. SYSTEM RESPONSE

`?E`	Syntax Error exists in the message but cannot be resolved to the proper field.
`?I`	Identification field contains an error. Invalid **`FNS`** specified. Must be `0` or `1`.
`NG`	No Good. Scan and signal distributor out-of-service (SSD OOS).
`OK`	Good. FNS inhibited.

5. REFERENCES

PIDENTs
MCCMEPS1
FNFRBASE

Input Messages
`ALW:FNS`
`CLR:FNS`
`TEST:FNS`

Output Messages
`ALW:FNS`
`CLR:FNS`
`REPT:FAN-ST`
`TEST:FNS`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INH:IAOFC
WORK CENTER . . MOC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Inhibits a previously defined call irregularity office trap to prevent it from outputting data according to its defined schedule.

2. FORMAT

INH:IAOFC,TRAPN a!

3. EXPLANATION OF MESSAGE

a	Trap number to be inhibited (32-35).

4. SYSTEM RESPONSE

?D	Data field contains an error. **TRAPN** is not valid for an office (OFC) trap. Must be 32-35.
?E	Syntax Error exists in the message but cannot be resolved to the proper field.
NG	No Good. Trap specified has not been previously defined.
OK	Good. Specified trap has been inhibited from outputting data.
RL	Retry Later.

5. REFERENCES

PIDENTs
TMAD0002
TMAD0005
TMADTRAP

Practice 234-100-051, *Call Irregularities Facility For Data Output On Request*

Input Messages
ALW:IAOFC
MON:IAOFC
STOP:MON-IAOFC

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INH:IATSG
WORK CENTER . . MOC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Inhibits a previously defined call irregularity trunk subgroup trap to prevent it from outputting data according to its defined schedule.

2. FORMAT

INH:IATSG,TRAPN a!

3. EXPLANATION OF MESSAGE

a	Trap number to be inhibited (1-31).

4. SYSTEM RESPONSE

?D	Data field contains an error. **TRAPN** is not valid for a trunk subgroup (TSG) trap. Must be 1-31.
?E	Syntax Error exists in the message but cannot be resolved to the proper field.
NG	No Good. Trap specified has not been previously defined.
OK	Good. Specified trap has been inhibited from outputting data.
RL	Retry Later.

5. REFERENCES

PIDENTs
TMAD0002
TMAD0005
TMADTRAP

Practice 234-100-051, *Call Irregularities Facility For Data Output On Request*

Input Messages
ALW:IATSG
MON:IATSG
STOP:MON-IATSG

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INH:IATSGCNT
WORK CENTER . . MOC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Inhibits a previously defined call irregularity trunk subgroup counting trap to prevent it from collecting or outputting data according to its defined schedule. The current counts are outputted as of the time of the inhibit.

2. FORMAT

INH:IATSGCNT,TRAPN a**!**

3. EXPLANATION OF MESSAGE

a	Trap number to be inhibited (1-15).

4. SYSTEM RESPONSE

?D	Data field contains an error. **TRAPN** is not valid for a trunk subgroup (TSG) counting trap. Must be 1-15.
?E	Syntax Error exists in the message but cannot be resolved to the proper field.
NG	No Good. Trap specified has not been previously defined.
OK	Good. Specified trap has been inhibited from outputting data. Current trap count data will be output by REPT:IATSG message if counting is active for **TRAPN** a.
RL	Retry Later.

5. REFERENCES

PIDENTs
TMAD0002
TMAD0005
TMADTRAP

Practice 234-100-051, *Call Irregularities Facility For Data Output On Request*

Input Messages
ALW:IATSGCNT
MON:IATSGCNT
STOP:MON-IATS

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Message
REPT:IATSG

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INH:IOUS
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Causes the all seems well (ASW) and parity pests for the specified input/output unit selector (IOUS) to be applied at the central control (CC).

2. FORMAT

INH:IOUS a,**KCODE!**

3. EXPLANATION OF MESSAGE

a **IOUS** member number.

4. SYSTEM RESPONSE

PF Printout Follows. The input message is echoed when the requested pest is set.

5. REFERENCES

PIDENT
ERATPEST

Input Message
ALW:IOUS

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INH:LCHAN
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

This message inhibits processing on the given logical channel or channels. If the channel was previously in an active state, the external user's session will be aborted and any queued output messages for the channel discarded.

2. FORMAT

`INH:LCHAN;CHAN` `a!`

3. EXPLANATION OF MESSAGE

`a`	Channel or channels to be inhibited. A list of one or more channel names or a list of one or more octal channel numbers.

4. SYSTEM RESPONSE

`?I,INV DATA`	Identification field contains an error. Either the channel name is invalid, the channel number is out of range, or the channel is ineligible for logical channel operation.
`NG`	No Good. The channel has no valid channel memory block assigned.
`OK`	Good. The channel has been inhibited and any external user's session aborted.

5. REFERENCES

PIDENTs
IOCPIMC4
IOCPMACC

Input Messages
`ALW:LCHAN`
`OP:LCHAN`

Output Message
`OP:LCHAN`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INH:LIBMSG
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Deactivates the auxiliary input facility for a specified client.

2. FORMAT

`INH:LIBMSG:CLIENT` `a!`

3. EXPLANATION OF MESSAGE

`a`	Library client number (0-7). If the specified client (client a) is an owner of the facility, the facility is freed up and any queued clients for this facility can now request ownership. (The order for activation attempts is based on the client with the shortest channel list.) If client a is on queue for a facility, the client is removed from the queue.

4. SYSTEM RESPONSE

`NG,CODE 1`	No Good. Received `INH`: message on a channel not in client `a` channel list.
`NG,CODE 2`	No Good. Client `a` has not requested the auxiliary input facility.
`PF`	Printout Follows. Acceptable input.

5. REFERENCES

PIDENT
LIBRINPT

Practice 254-280-214, *Library Control Program*

Input Messages
`ALW:LIBMSG`
`EX:LIBSYS`

Output Messages
`ALW:LIBMSG`
`INH:LIBMSG`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INH:MACLI
WORK CENTER . . MOC
GENERIC . . . . . 4E23 Rel. 3 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Format [1] inhibits either the routine exercises or all automatically scheduled jobs in the maintenance and administration classes. The inhibit mode will time out in 24 hours.

Format [2] inhibits aborting of General Utility Program (**GULP**) commands during interrupts, as long as the interrupt occurs on a time segment other than the **GULP**. This mode will time out in 1 hour.

See the ALW:MACLI input message to manually terminate the inhibit mode at any time.

2. FORMAT

[1] **INH:MACLI,CLASS MTCE;{REX|ALL}!**

[2] **INH:MACLI,CLASS GUTL;ALL!**

3. EXPLANATION OF MESSAGE

REX Inhibits the routine exercises in the maintenance class.

ALL For Format [1] inhibits all automatically scheduled jobs in the maintenance and administration classes. For Format [2] inhibits aborting all **GULP** commands.

4. SYSTEM RESPONSE

OK Good. Request accepted and completed.

5. REFERENCES

PIDENT
MACPROUT

Practice 254-280-210, *Maintenance Control Program*

Input Message
ALW:MACLI

Output Message
REPT:MACLI-GUTL

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INH:MUPAUD
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Inhibit the specified master control complex (MCC) and utility processor (MUP) automatic audits.

NOTE: **INH:MUPAUD** inhibits only automatic audits (not manual audits). Therefore, TEST:MUPAUD is still available after **INH:MUPAUD**.

2. FORMAT

INH:MUPAUD,MUP a:**BANK** b[,**NUM** {c|(c,c[,c...])}]!

3. EXPLANATION OF MESSAGE

a — Member number of the **MUP** (0 or 1).

b — MUP audit bank number from 0 to 3. Must be in decimal form.

c — MUP audit numbers from 1 to 32 in the audit bank. Must be in decimal form.

NUM — Optional. If **NUM** key word and its arguments are not specified, then all the audits in the specified audit bank will be inhibited. Otherwise, the only specified audits will be inhibited.

NOTE: The MUP audit data structure consists of four audit banks and each audit bank has 32 audits. Currently, seven audits in audit bank 0 have been implemented:

BANK 0, NUM 1 — Dual asynchronous receiver transmitter (DUART) counter and timer audits.

BANK 0, NUM 2 — User stack list audits.

BANK 0, NUM 3 — Memory management structure audits.

BANK 0, NUM 4 — Memory parity audits.

BANK 0, NUM 5 — MCC matrix data structure audit.

BANK 0, NUM 6 — Three phase audit of internal page translation tables for correct data and verifies that cross-referencing is correct.

BANK 0, NUM 7 — General MCC global variables audit.

SEE PROPRIETARY NOTICE ON COVER PAGE

4. SYSTEM RESPONSE

`?E`	Syntax Error exists in the message but cannot be resolved to the proper field.
`?I,INV KW`	Identification field contains an error.
`PF`	Printout Follows.
`RL,CODE 002`	Retry Later. Unable to submit request to maintenance control program (MACP) (system resources).
`RL,CODE 003`	Retry Later. Another **`INH:MUPAUD`** is in progress.

5. REFERENCES

PIDENT
MCFRMAUD

Input Messages
`ALW:MUPAUD`
`OP:MUPAUD`
`STOP:MUPAUD`
`TEST:MUPAUD`

Output Messages
`ALW:MUPAUD`
`INH:MUPAUD`
`OP:MUPAUD`
`TEST:MUPAUD`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INH:NCATANOM
WORK CENTER . . MOC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . IATRAP
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Inhibits a previously defined non-call associated temporary signaling connection anomaly (NCATANOM) trap to prevent it from outputting data according to its defined schedule.

2. FORMAT

INH:NCATANOM,TRAPN a**!**

3. EXPLANATION OF MESSAGE

a	**NCATANOM** trap number to be inhibited (0-1).

4. SYSTEM RESPONSE

?D	Data field contains an error. **TRAPN** is not valid for **NCATANOM** trap. Must be 0-1.
?E	Syntax Error exists in the message but cannot be resolved to the proper field.
NG	No Good. Trap specified has not been previously defined.
OK	Good. Specified trap has been inhibited from outputting data.
RL	Retry Later.

5. REFERENCES

PIDENTs
NCATFH
TMAD0005

Input Messages
ALW:NCATANOM
MON:NCATANOM
OP:NCATANOM
STOP:MON-NCATANOM

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INH:NCLK
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Causes the specified chain in the network clock (NCLK) to be pested internally.

2. FORMAT

INH:NCLK 0,CHAIN a**,SPEC!**

3. EXPLANATION OF MESSAGE

a	Network clock chain (0-3).
SPEC	Specified chain only.

4. SYSTEM RESPONSE

PF	Printout Follows. The input message will be echoed when the pesting is done.

5. REFERENCES

PIDENT
ERATPEST

Input Message
ALW:NCLK

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INH:RINGOVLD
WORK CENTER . . MAC, MOC, NMOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Disables the sending and receiving of messages between the 1A and the direct link nodes (DLNs). Since these messages are used to determine if the common network interface (CNI) ring is in overload, no ring overload controls will be implemented.

This message should not be used unless the CNI ring is in overload for a known reason and controls are not desired.

2. FORMAT

INH:RINGOVLD!

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

PF Printout Follows. Indicates that the request was completed.

5. REFERENCES

PIDENT
OVLDPRGM

Input Message
ALW:RINGOVLD

Output Messages
REPT:RING-OVLDCD
REPT:RING-OVLDIF
REPT:RING-OVLDNR

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INH:SCLK
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Sets the specified pest of the system clock (SCLK).

Format [1] is used to set all seems well (ASW) and parity pests for the system clock at the central control (CC).
Format [2] is used to set specified pest in the controller.
Format [3] is used to set the network clock (NCLK) synchronous (SYNC) unit pest.

2. FORMAT

[1] **INH:SCLK 0,KCODE!**

[2] **INH:SCLK 0,CONTR** a,{**ABM**|**ASW**|**ALL**}**!**

[3] **INH:SCLK 0,NCSU 0,SPEC!**

3. EXPLANATION OF MESSAGE

a	Controller half (0 or 1).
ASW	All-seems-well pest.
ABM	AB matcher pest.
ALL	Both AB matcher and all-seems-well pest.
KCODE	ASW and parity pests for the system clock will be set at the CC.
NCSU	Sets the SYNC unit pest.

4. SYSTEM RESPONSE

PF	Printout Follows. The input message will be echoed when the pesting is done.

5. REFERENCES

PIDENT
ERATPEST

Input Message
ALW:SCLK

SEE PROPRIETARY NOTICE ON COVER PAGE

WARNING
INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

ID . . . . . INH:SCS
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

WARNING

NOTE: This warning applies only to offices served by an Announcement Administration Processor (AAP).
WARNING: Use of the `LAN` option will prevent AAP access to SCUs via the LAN. During the period that the LAN is inhibited, the AAP cannot update stored announcements and cannot perform announcement maintenance.
In offices served by an AAP, use the `INH:SCS x,LAN` input message only when directed to do so by a growth or maintenance procedure or at the direction of technical support or announcement administration personnel.
Refer to AT&T 234-151-077 *Service Circuit Maintenance* **for further information.**

1. PURPOSE

Set Service Circuit System (SCS) pests.

Format [1] is used to set the specified SCS controller(s) Automonous Peripheral Unit Trouble (APUT), Automonous Peripheral Unit Failure (APUF), Base Level Maintenance (BLM) pest, and Local Area Network (LAN).
Format [2] is used to set the Service Circuit Unit (SCU) pest in the SCS.

2. FORMAT

[1] **`INH:SCS`** `a,{`**`APUT|APUF|BLM|LAN`**`}`**`!`**

[2] **`INH:SCS`** `a,`**`SCU`** `b,`**`SPEC!`**

3. EXPLANATION OF MESSAGE

`a`	**`SCS`** (0 - 7).
`b`	**`SCU`** (0 - 15).
`APUT`	Autonomous peripheral unit trouble.
`APUF`	Autonomous peripheral unit failure.
`BLM`	Base level maintenance.
`LAN`	Local area network. Using this all SCS's LAN pests will be set regardless of which SCS number is chosen.

SEE PROPRIETARY NOTICE ON COVER PAGE

4. SYSTEM RESPONSE

PF	Printout Follows. The input message will be echoed when pesting has been scheduled.

5. REFERENCES

PIDENT
ERATPES1

Practice 234-151-077, *Service Circuit Maintenance*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INH:SDUREPT
WORK CENTER . . MOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Inhibits the printing of `REPT:SDU` output messages.

2. FORMAT

`INH:SDUREPT!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`OK`	Good. The request has been accepted.

5. REFERENCES

PIDENT
TMADTOCA

Input Message
`ALW:SDUREPT`

Output Message
`REPT:SDU`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INH:SDYGRP
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Inhibits the international trunk subgroup study exclusion list. This applies to tape recording of international call detailed recording (ICDR) calls only.

2. FORMAT

INH:SDYGRP!

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

OK	Good. The list has been inhibited.
NG	No Good. Tape recording of ICDR calls is inhibited.

5. REFERENCES

PIDENT
ICDRPRGM

Input Messages
ALW:SDYGRP
CLR:SDYGRP
IN:SDYGRP
OP:SDYGRP

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INH:SP
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

This message has two forms, as shown, to set the specified signaling processor (SP) pest.

Format [1] is used to set SP, all seems well (ASW), and parity pests at the central control (CC).
Format [2] is used to set the SP controller internal pest at the CC.

2. FORMAT

[1] **INH:SP** a,**KCODE!**

[2] **INH:SP** a,**CONTR** b,{**ALL**|**PEST** c,**SPEC**}**!**

3. EXPLANATION OF MESSAGE

a	**SP** member number (0-31).
b	Controller half (0 or 1).
c	Pest number (0-6).
KCODE	ASW and parity pests are set for the specified SP at the CC.
ALL	Causes all pests to be set.
SPEC	Causes only the request to be set.

4. SYSTEM RESPONSE

PF	Printout Follows. The input message is outputted to the teletypewriter (TTY) when the pesting action is done.

5. REFERENCES

PIDENT
ERATPEST

Input Message
ALW:SP

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INH:STRMEX
WORK CENTER . . MOC
GENERIC . . . . . 4E19 only
CLASS . . . . . PMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Inhibits the stream exerciser program from running. This is used to test the direct memory access (DMA) capability between the 1B processor and attached processor system (APS) This command should only be used during preretrofit testing of the 1B processor. This command is entered from the 1B processor terminal.

2. FORMAT

`INH:STRMEX!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`NG,CODE 07`	No Good. Stream exerciser was not allowed to run.
`NG,CODE 08`	No Good. Stream exerciser has not finished sending messages.
`OK`	Good. Stream exerciser was inhibited.

5. REFERENCES

PIDENT
FNCTSUBS

Input Messages
`ALW:STRMEX`
`SET:STRMEX`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INH:TGR
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

This message has three forms, as shown, to perform pesting operations.

In the controller form, the specified controller will be pested. In the terminal form, the specified terminal(s) will be pested.

Format [1] is used to pest KCODE pests at the central control (CC) of all seems well (ASW) and pest errors.
Format [2] is used to pest a controller.
Format [3] is used to pest terminals.

2. FORMAT

[1] **INH:TGR** a,**KCODE!**

[2] **INH:TGR** a,**CONTR** b,**SPEC!**

[3] **INH:TGR** a,**TER** c,{**SPEC**|**ALL**}**!**

3. EXPLANATION OF MESSAGE

a	Terminal grouping (**TGR**) member number (0-15).
b	Controller half (0-1).
c	Terminal number (0-15).
KCODE	ASW and parity pests will be set for the specified TGR at the CC.
SPEC	The specified terminal will be pested. All terminals are pested when **CONTR** b is specified.
ALL	All terminals within the TGR will be pested.

4. SYSTEM RESPONSE

PF	Printout Follows. The input message will be echoed when the pesting is done.

5. REFERENCES

PIDENT
ERATPEST

SEE PROPRIETARY NOTICE ON COVER PAGE

Input Message
ALW:TGR

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INH:TLP
WORK CENTER . . MOC
GENERIC . . . . . 4E22 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Inhibits the Trouble Location Procedure (TLP) search process, and/or prevents a specific unit or set of units from enqueuing the TLP summary data in the TLP Disk Queue (TLPQUEUE).

See Trouble Location Procedure Description 4ESS™ Switch, Practice 234-010-215, in regard to the concepts of:

(a) The TLPQUEUE,

(b) The TLP summary data,

(c) Enqueuing the TLP summary data in the TLPQUEUE, and

(d) The TLP search process.

NOTE: When a unit is inhibited it is removed from the list of units currently allowed to enqueue the TLP summary data. The current list of allowed units is part of the status data printed in response to the input message `OP:TLPQUEUE`.

Inhibiting a unit does not remove any TLPQUEUE files for that unit that may already be in the TLPQUEUE; nor does it prevent the TLP search process from using the TLP summary data already in the TLPQUEUE for an inhibited unit.

Once the TLP search process is inhibited, the `ALW:TLP:SRCH` input message must be used to restart the TLP search process.

Inhibiting the TLP search process does not prevent enqueuing of the TLP summary data in the TLPQUEUE.

NOTE: Units that use the Engineered Data (ED) TLP process do not use the TLPQUEUE or the search process, and are not inhibited by this command. These units include the 1B processor cabinet units, the Expanded Time Slot Interchange (XTSI) unit, and the Service Circuit System (SCS) unit.

2. FORMAT

```
INH:TLP[:[SRCH][,ALL][,API][,DIF][,DT][,EST][,ESU][,IOUS][,NCLK]
      [,PUB][,SCLK][,SP][,TER][,TGR][,TMSP][,TSI]]!
```

SEE PROPRIETARY NOTICE ON COVER PAGE

3. EXPLANATION OF MESSAGE

SRCH Inhibit the TLP search process.

ALL Inhibit all the units from enqueuing the TLP summary data.

API Inhibit the Attached Processor Interface (API) from enqueuing the TLP summary data.

DIF Inhibit the Digital Interface Frame (DIF) from enqueuing the TLP summary data.

DT Inhibit the Digroup Terminal (DT) from enqueuing the TLP summary data.

EST Inhibit the Echo Suppressor Terminal (EST) from enqueuing the TLP summary data.

ESU Inhibit the Echo Suppressor Unit (ESU) from enqueuing the TLP summary data.

IOUS Inhibit the Input/Output Unit Selector (IOUS) from enqueuing the TLP summary data.

NCLK Inhibit the Network Clock (NCLK) from enqueuing the TLP summary data.

PUB Inhibit the Peripheral Unit Bus (PUB) from enqueuing the TLP summary data.

SCLK Inhibit the System Clock (SCLK) from enqueuing the TLP summary data.

SP Inhibit the Signaling Processor (SP) from enqueuing the TLP summary data.

TER Inhibit the Terminal (TER) from enqueuing the TLP summary data.

TGR Inhibit the Terminal Grouping (TGR) from enqueuing the TLP summary data.

TMSP Inhibit the Time Multiplexed Switch Pair (TMSP) from enqueuing the TLP summary data.

TSI Inhibit the Time Slot Interchange (TSI) from enqueuing the TLP summary data.

4. SYSTEM RESPONSE

OK Good. Any unit or units specified are now removed from the list of units allowed to enqueue the TLP summary data in the TLPQUEUE.

If the **SRCH** option was used and if no TLP searches are currently in progress, all new searches will be inhibited. If a TLP search was currently in progress, it will be aborted and no new TLP searches will be started.

SEE PROPRIETARY NOTICE ON COVER PAGE

5. REFERENCES

PIDENTs
DRPPASUB
DRPPSSUB
DRPSUPR

Practice 234-010-215 *Trouble Location Procedure - Description*

PA-4A002-01, *4ESS™ User's Manual*, Section C.3, Trouble Location Procedures

Input Messages
`ALW:TLP`
`CLR:TLPQUEUE`
`OP:TLPQUEUE`

Output Message
`ANALY:TLPF-ABO`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INH:TMSP
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Pests the specified time multiplexed switch (TMS) controller internally.

2. FORMAT

INH:TMSP a,{**KCODE**|**CONTR** b,**SPEC**}**!**

3. EXPLANATION OF MESSAGE

a	TMS pair (**TMSP**) member number (0-3).
b	Controller half (0-1).
KCODE	All seems well (ASW) and parity pest will be set at the central control (CC).
SPEC	Only specified controller to be pested.

4. SYSTEM RESPONSE

PF	Printout Follows. The input message will be echoed when the action is done.

5. REFERENCES

PIDENT
ERATPEST

Input Message
ALW:TMSP

SEE PROPRIETARY NOTICE ON COVER PAGE

WARNING
INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

ID . . . . . INH:TSI
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E21 and later
CLASS . . . . . PMTC
APPLICATION . . 4E
TYPE . . . . . Input

WARNING
Port pesting will remove the talking path over that port but will not remove the connecting trunks. This message form must not be used in an operational office except as specified in growth procedures.

1. PURPOSE

This message performs pesting operations.

Format [1] is used to set at the Central Control (CC) the All Seems Well (ASW) and parity pest for the specified Time Slot Interchange (TSI).

Format [2] is used to pest the specified TSI internally.

Format [3] is used to pest the specified ports.

Format [4] is used to set **TSI APUT** or **APUF** frame pests.

2. FORMAT

[1] **INH:TSI** a,**KCODE!**

[2] **INH:TSI** a,**CONTR** b,**SPEC!**

[3] **INH:TSI** a,**SPC** c,{**ALL**|**PORT** d}**!**

[4] **INH:TSI** a,{**APUT**|**APUF**}**!**

3. EXPLANATION OF MESSAGE

a	**TSI** member number (0-63).
b	Controller (0 or 1).
c	Switching and Permuting Controller (SPC) within **TSI** (0 or 1).
d	Port within **SPC** (0-6).
ALL	All ports within **SPC**.
APUF	Autonomous Peripheral Unit Failure.
APUT	Autonomous Peripheral Unit Trouble.

SEE PROPRIETARY NOTICE ON COVER PAGE

4. SYSTEM RESPONSE

`DENIED`	The port that pesting was requested on is operational. Port pesting is not on it unless the connecting voice in Voiceband Interface Unit (VIU) or Digital Interface Unit (DIU) or Service Circuit Unit (SCU) is out of service.
`PF`	Printout Follows. The input message will be echoed when the pesting is done.

NOTE: If the member number variable is an Expanded Time Slot Interchange (XTSI), the echo message will be: `INH:XTSI n,...NOT STARTED - ILLEGAL MESSAGE`

5. REFERENCES

PIDENT
ERATPEST

Input Message
`ALW:TSI`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INH:USGMEAS-TS
WORK CENTER . . MAC
GENERIC . . . . . 4E19 and later
CLASS . . . . . TRFM
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Inhibits usage measurements from being collected on the specified time slot interchange (TSI). Two input messages are required to inhibit usage measurements from being collected on an entire TSI frame. A separate message is required to enter each TSI frame and switching and permuting controller (SPC) designation.

2. FORMAT

`INH:USGMEAS:TSI` `a,`**`SPC`** `b!`

3. EXPLANATION OF MESSAGE

`a`	**`TSI`** frame number (00-63).
`b`	Switching and permuting controller (**`SPC`**) (0,1).

4. SYSTEM RESPONSE

`PF`	Printout Follows. Followed by an `INH:USGMEAS` output message.

5. REFERENCES

PIDENT
TRAFMSGS

Practice 234-152-1x4, *Traffic and Plant Measurements - Machine Administration Center*
(Where x is the 2nd number of the generic issue [i.e., for 4E19 x=9].)

Translation Guide, 4ESS™, TG-4, Division 10
Section 2b
Section 2a, `INH:USGMEAS`
Section 2d, `OP:MEASTSI!`

Output Messages
`INH:USGMEAS`
`OP:MEASTSI`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INH:UTIL
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Deactivates all generic utility flags temporarily. This function is implemented by setting the utility G level inhibit. All flags will then be ignored until another `ALW:UTIL` input message is received.

2. FORMAT

`INH:UTIL!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`?R,DPLX FAIL`	Insufficient system Resources are available to determine the validity of the message. Generic utility program (GULP) cannot be paged to parse the message because the file system is duplex failed.
`PF,CODE 050`	Printout will conditionally follow. This acknowledgement is used if file system is duplex failed and GULP is being paged from tape.
`PF,CODE 091`	Printout will conditionally follow.
`RL,CODE 180`	Retry Later. Execution of GULP function is in progress.
`RL,CODE 181`	Retry Later. Message processing in progress.
`RL,CODE 182`	Retry Later. Data set input mode in progress on another channel.
`RL,CODE 183`	Retry Later. Data set execution is in progress.
`RL,CODE 185`	Retry Later. No general buffer table (GBT) available or failure to page in GULP.

5. REFERENCES

PIDENTs
GULPUTPP
GULPUTXP
GULRUTCR

Practice 234-301-003, *1B Processor Generic Utility Program (GULP) Application - Description*

PA-4A002-01, *4ESS™ User's Manual*

SEE PROPRIETARY NOTICE ON COVER PAGE

Input Message
ALW:UTIL

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INH:UTILMSG
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Suppresses printing of optional generic utility messages (successful address calculation confirmation message and the utility flag encountered message).

2. FORMAT

`INH:UTILMSG!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`?R,DPLX FAIL`	Insufficient system Resources are available to determine the validity of the message. Generic utility program (GULP) cannot be paged to parse the message because the file system is duplex failed.
`PF,CODE 050`	Printout will conditionally follow. This acknowledgement is used if file system is duplex failed and GULP is being paged from tape.
`PF,CODE 091`	Printout will conditionally follow.
`RL,CODE 180`	Retry Later. Execution of GULP function is in progress.
`RL,CODE 181`	Retry Later. Message processing in progress.
`RL,CODE 182`	Retry Later. Data set input mode in progress on another channel.
`RL,CODE 183`	Retry Later. Data set execution is in progress.
`RL,CODE 185`	Retry Later. No general buffer table (GBT) available or failure to page in GULP.

5. REFERENCES

PIDENTs
GULPUTPP
GULPUTXP
GULRUTCR

Practice 234-301-003, *1B Processor Generic Utility Program (GULP) Application - Description*

PA-4A002-01, *4ESS™ User's Manual*

SEE PROPRIETARY NOTICE ON COVER PAGE

Input Message
ALW:UTILMSG

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INH:VCNT
WORK CENTER . . MAC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Inhibits vacant code processing on data, based on its vacant code class, trunk group, ABCDEF digits, or a combination of these.

NOTE: The following combinations are not valid:

NUMSUB, **CIN**
NUMSUB, **CIN** and 3 or 6 digits
ORIGINWT,**CIN** and 3 or 6 digits
ORIGINWT and 3 or 6 digits
SSPFAIL, **CIN**
SSPFAIL, **CIN** and 3 or 6 digits
UNAUCAMA and 6 digits
UNAUCAMA,**CIN** and 6 digits

NOTE: To inhibit the trunk group, a circuit identification number (CIN) must be input with "any assigned" traffic number.

Format [1] is used to inhibit vacant code processing on specified data:

2. FORMAT

[1] **INH:VCNT:**{**CALLSCRN**|**CCISOUT**|**DIGCOUNT**|**DNHRTTS**|**DNHRVTS**|**FRAUDPRE**|**INWTSCRN**|**MISCAMA**|**MISCFAIL**|**NCATANOM**|**NUMSUB**|**ORIGINWT**|**SSPFAIL**|**TNSFAIL**|**UNAUCAMA**|**VCNTCODE**|**WATSFAIL**}
[,**CIN** a][,**DIGITS** b]**!**

[2] **INH:VCNT:ALL!**

3. EXPLANATION OF MESSAGE

CALLSCRN Inhibit ’call denial screening’ vacant code class.

CCISOUT Inhibit ’subsequent office failure’ vacant code class.

DIGCOUNT Inhibit ’incorrect number of digits’ vacant code class.

DNHRTTS Inhibit terminating toll switch’ vacant code class. This class also includes real time network routing (RTNR) failures.

DNHRVTS Inhibit via toll switch’ vacant code class. This class also includes real time network routing (RTNR) failures.

FRAUDPRE Inhibit ’fraud prevention’ vacant code class.

SEE PROPRIETARY NOTICE ON COVER PAGE

INWTSCRN	Inhibit band exceeded' vacant code class.
MISCAMA	Inhibit 'misdirected centralized automatic message accounting (CAMA)' vacant code class.
MISCFAIL	Inhibit 'miscellaneous failure' vacant code class.
NCATANOM	Inhibit anomaly failure' vacant code class.
NUMSUB	Inhibit 'number substitution failure' vacant code class.
ORIGINWT	Inhibit 'originating inward wide area telephone service (INWATS) not allowed' vacant code class.
SSPFAIL	Inhibit 'service switching point failure' vacant code class.
TNSFAIL	Inhibit 'transit network selection failure' vacant code class.
UNAUCAMA	Inhibit 'unauthorized centralized automatic message accounting (CAMA)' vacant code class.
VCNTCODE	Inhibit 'vacant code' vacant code class.
WATSFAIL	Inhibit failure' vacant code class.
a	Trunk group with any assigned traffic number.
b	3 or 6 input digits.
ALL	Inhibits all vacant code processing. An `ALW:VCNT:ALL` command must be input to remove these inhibits.

4. SYSTEM RESPONSE

?D	Data field contains an error. Number of digits is not 3 or 6.
?E	Syntax Error exists in the message but cannot be resolved to the proper field.
?I	Identification field contains an error. Invalid combination of keywords.
NG	No Good. No such inhibit set.
OK	Good. Message correct.
RL	Retry Later. No storage available to process message.

5. REFERENCES

PIDENT
VCNTANAL

Practice 234-180-247, *Vacant Code Analysis Program - Software Description*

Input Message
`ALW:VCNT`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INH:VERMSG
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Suppresses all verify output on the input channel except for error messages. This message remains in effect until canceled by the `ALW:VERMSG` message.

2. FORMAT

`INH:VERMSG!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`OK`	Good. Data will be inhibited (excluding error messages and processing complete message).
`NG`	No Good. Data already inhibited on this channel.

5. REFERENCES

PIDENT
VRFY01

Input Message
`ALW:VERMSG`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INH:VIF
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Causes the specified pest(s) to be set in a voiceband interface frame (VIF).

2. FORMAT

INH:VIF a,{**IFL0**|**IFL1**|**IPUT0**|**IPUT1**|**BASM**|**ALL**}**!**

3. EXPLANATION OF MESSAGE

a	**VIF** member number (0-127).
IFL0	F-level pest in controller 0.
IFL1	F-level pest in controller 1.
IPUT0	Interject pest in controller 0.
IPUT1	Interject pest in controller 1.
BASM	Special BASM pest in both controllers.
ALL	All of the previous pests.

4. SYSTEM RESPONSE

PF	Printout Follows. The input message will be echoed when the pest is done.

5. REFERENCES

PIDENT
ERATPEST

Input Message
ALW:VIF

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INH:VSSID
WORK CENTER . . TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Inhibits an announcement from allowing one of the following functions to be applied to the announcement: **EXTUPD**, **STBYACT**, or **UPDREPT**. A REPT:VSSID message is output to the operational input/output (I/O) channel assigned to the particular announcement as a result of this input message.

2. FORMAT

INH:VSSID a,**SID** b;{**EXTUPD**|**STBYACT**|**UPDREPT**}!

3. EXPLANATION OF MESSAGE

a	Voice storage system (VSS) identification (**VSSID**).
b	Service identification (**SID**).
EXTUPD	External updates on VSS or direct producer types of announcements.
STBYACT	Delay activation of a standby announcement from VSS, direct producer, manual recording, or barge-in type of announcement.
UPDREPT	Automatic update received reports from VSS, direct producer, or manual recording updates.

4. SYSTEM RESPONSE

?D	Data field contains an error.
?E	Syntax Error exists in the message but cannot be resolved to the proper field.
OK	Good. Request accepted.
PF	Printout Follows. (Output message prints for failures only, stating the reasons for failures.)
RL	Retry Later.

5. REFERENCES

PIDENTs
ANNHTTYM
TMAD0005

Output Message
REPT:VSSID

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INH:WPAD
WORK CENTER . . MAC, MOC, NMOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Inhibits write protect on program store and call store communities.

2. FORMAT

INH:WPAD!

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

OK Good. Request has been accepted.

5. REFERENCES

PIDENT
WPADCNTL

Input Messages
ALW:WPAD
OP:INHINT

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INH:XALM
WORK CENTER . . MOC
GENERIC . . . . . 4E21 Rel. 4 and later
CLASS . . . . . TOC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

The purpose of this message set is to inhibit the printing to the 1B Maintenance Channel of any Digital Signal Level 3 (**DS3**) and/or Digital Signal Level 1 (**DS1**) Facility Alarms or Alarm Abatements occurring on Expanded Time Slot Interchanges (**XTSI**s).

Format [1] is used to inhibit the printing to the Maintenance channel of all **XTSI DS1** and **DS3** Facility Alarms or alarm abatements.

Format [2] is used to inhibit the printing to the Maintenance channel of all **XTSI DS1** facility alarms or alarm abatements.

Format [3] is used to inhibit the printing to the Maintenance channel of all **XTSI DS3** facility alarms or alarm abatements.

Format [4] is used to inhibit the printing to the Maintenance channel of all **DS3** facility alarms or alarm abatements for the input **XTSI**.

Format [5] is used to inhibit the printing to the Maintenance channel of all **DS1** facility alarms or alarm abatements for the input **XTSI**.

Format [6] is used to inhibit the printing to the Maintenance channel of all **DS3** facility alarms or alarm abatements for the input **XTSI** and Digital Signal Level 3 Interface Unit (**D3U**).

Format [7] is used to inhibit the printing to the Maintenance channel of all **DS1** facility alarms or alarm abatements for the input **XTSI** and **D3U**.

2. FORMAT

[1] **INH:XALM!**

[2] **INH:XALM;DS1!**

[3] **INH:XALM;DS3!**

[4] **INH:XALM;DS3:XTSI** a**!**

[5] **INH:XALM;DS1:XTSI** a**!**

[6] **INH:XALM;DS3:XTSI** a**,D3U** b**!**

[7] **INH:XALM;DS1:XTSI** a**,D3U** b**!**

SEE PROPRIETARY NOTICE ON COVER PAGE

3. EXPLANATION OF MESSAGE

a	**XTSI** member number.
b	**D3U** unit number (0-5).

4. SYSTEM RESPONSE

?D	Data field contains an error. Illegal or invalid data input.
OK	Good. Request accepted.

5. REFERENCES

PIDENT
TMTCXTMM
TMTCXTSI

Input Messages
ALW:XALM
OP:XALM

Output Messages
REPT:XALM
REPT:XTSI

SEE PROPRIETARY NOTICE ON COVER PAGE

WARNING
INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

ID . . . . . INH:XTSI
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E24 Rel. 2 and later
CLASS . . . . . PMTC
APPLICATION . . 4E
TYPE . . . . . Input

WARNING
Port pesting will remove the talking path over that port but will not remove the connecting trunks. This message form must not be used in an operational office except as specified in growth procedures.

1. PURPOSE

This message performs pesting operations.

Format [1] is used to set at the Central Control (CC) the All Seems Well (ASW) and parity pest for the specified Expanded Time Slot Interchange (**XTSI**).

Format [2] is used to set **XTSI**, Autonomous Peripheral Unit Trouble (**APUT**), Autonomous Peripheral Unit Failure (**APUF**), Control Bus and Image Administration (**CIA**), or Base Level Maintenance (**BLM**) frame pests.

Format [3] is used to set the Digital Signal Level 3 Unit (**D3U**) pest in the **XTSI** frame.

Format [4] is used to set the Signal Processing Unit (**SPU**) pest in the **XTSI** frame.

Format [5] is used to set the In-Band Unit (**IBU**) pest in the **XTSI** frame.

2. FORMAT

[1] **INH:XTSI** a,**KCODE!**

[2] **INH:XTSI** a,{**APUT**|**APUF**|**CIA**|**BLM**}**!**

[3] **INH:XTSI** a,**D3U** b,**SPEC!**

[4] **INH:XTSI** a,**SPU** c,**SPEC!**

[5] **INH:XTSI** a,**IBU 0**,**SPEC!**

3. EXPLANATION OF MESSAGE

a	**XTSI** member number (0-63).
APUF	Autonomous Peripheral Unit Failure.
APUT	Autonomous Peripheral Unit Trouble.
CIA	CIASUM pest.

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BLM	Base Level Maintenance pest.
b	**D3U** number (0-7).
c	**SPU** number (0-11).

4. SYSTEM RESPONSE

PF	Printout Follows. The input message will be echoed when the pesting is done.

NOTE: If the member number variable is a Time Slot Interchange (TSI), the echo message will be: `INH:TSI n,...NOT STARTED - ILLEGAL MESSAGE`

5. REFERENCES

PIDENT
ERATPEST
XTSIPEST

Input Message
ALW:XTSI

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INIT:ALM
WORK CENTER . . MOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Initializes the alarm system.

The alarm system is initialized by:

1. Terminating all active software alarms.
2. Terminating all routing and configuring of alarms set up by the `RTE:ALM` and `CFR:ALMGRP` input messages.
3. Terminating all foreign alarm transfers (master control complex "FOR ATR" switch).
4. Reinitializing message classes MOCC, MOCR, TEC1, TEC2, TEC3, TEC4, TEC5, and TOC.
5. Releasing all alarm grid circuit relays.
6. Setting all alarm grid scan points to on-hook accept.

NOTE: Any active hardware (equipment) alarms will rereport following this message. Any alarm transfers (internal or external) and alarm groupings (internal or external) will have to be manually reestablished following this message.

2. FORMAT

`INIT:ALM!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`PF`	Printout Follows. Followed by an `INIT:ALM` output message with the `COMPL` keyword.

5. REFERENCES

PIDENT
ALRM01

Input Messages
`CFR:ALMGRP`
`RTE:ALM`

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Message

```
INIT:ALM
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INIT:DFSTAT
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Initializes or cancels the duplex fail status of the specified unit and subunit.

NOTE: Before any unit duplex failure status is initialized, that unit/subunit should be diagnosed all tests passed (ATP) / conditional ATP (CATP). Ensure that unit controllers initialized are compatible (e.g., Time slot interchange (TSI) / voiceband interface frame (VIF) controllers).

Initializing the specified equipments' duplex fail status allows those units and subunits to be restored by the next phase 3 if the access tests pass. Using the **CANCEL** instruction cancels the initialization performed by a previous **INIT:DFSTAT** message.

NOTE: After all desired units have been initialized, one of the duplex failed units should be conditionally restored. The resultant phase 3 will restore all initialized units providing they pass access tests.

2. FORMAT

INIT:DFSTAT[**;CANCEL**]:a b,**CONTR** c!

3. EXPLANATION OF MESSAGE

a	Unit type to be restored (for example: SP, TSI, TMSP, NCLK, TGR, DT).
b	Unit member number. The maximum number allowable depends on the unit type specified. Not all offices use the maximum number.
c	Controller member number (0 or 1).
CANCEL	Cancels a previous **INIT:DFSTAT** message.

4. SYSTEM RESPONSE

NG — No Good. Unit duplex fail status has not been initialized because one of the following errors was encountered:

1. Specificed unit not in duplex fail table.
2. Mate controller already specified using previous message.
3. Missing or invalid parameters.
4. Unit does not have zero-start capability.

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OK	Good. Specified unit duplex fail status initialized.

5. REFERENCES

PIDENT
ERATSUBS

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INIT:DGSTAT
WORK CENTER . . MOC, TEC, TOC
GENERIC . . . . . 4E22 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Initializes digroup status memory for the specified digroup. Sets all items to zero, except for LCA, RMA, DGO, LSA, RSA, L3A, A3A, R3A and IGN status. Stops any camp-on in progress. Requests updated alarm information from fault recovery.

When Expanded Time Slot Interchange (**XTSI**)-II Performance Monitoring (PM) is in effect the **INIT:DGSTAT** function for **XTSI** trunks will only request updated digroup alarm status and updating of PM-I data will not occur.

If a manual camp-on (ANALY:DIGROUP input message) is stopped, a message is sent to the Teletypewriter (TTY) channel which requested the camp-on, stating that the camp-on has been terminated. The **NUM** option can be specified when the digroup is on a Digital Interface Frame (**DIF**) or Expanded Time Slot Interchange (**XTSI**).

2. FORMAT

```
INIT:DGSTAT,{OTAN a|TAN b|CIN c|TSN d|DT e,DTU f,DG g|
      DIF h,DIU j,DG g|XTSI k,D3U l,DG m}[:NUM n]!
```

3. EXPLANATION OF MESSAGE

a — Octal Trunk Appearance Number (**OTAN**) of any trunk in the digroup.

b — TSI-SP-PORT-CHANNEL Trunk Appearance Number (**TAN**) of any trunk in the digroup.

- TSI — 2-digit decimal number indicating the Time Slot Interchange (TSI) member number, range 00-63.
- SP — 1-digit decimal member number indicating the SP of TSI, range 0-1.
- PORT — 1-digit decimal number indicates the port of TSI, range 0-6.
- CHANNEL — 3-digit decimal number indicating the channel, range 0-127.

c — Circuit Identification Number (**CIN**) of any trunk in the digroup.

d — A Trunk Scanner Number (**TSN**) in reference to a Digital Interface Frame (**DIF**) is broken down into a DIF-DIU-CHANNEL as follows:

- DIF — A 2-digit decimal number indicating the **DIF** member number, range 00-31.

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`DIU` — A 2-digit decimal number indicating the digital interface unit number, range 00-31.

`CHANNEL` — A 3-digit decimal number indicating the channel, range 0-127.

A Trunk Scanner Number (**TSN**) in reference to a Digroup Terminal (**DT**) is broken down into an SP-ROW-POINT as follows:

`SP` — 2-digit decimal number indicating the SP member number, range 00-31.

`ROW` — 3-digit decimal number indicating the row in the SP, range 000-255.

`POINT` — 2-digit decimal number indicating the point in the row, range 00-15.

NOTE: **TSN** d can be entered in octal by using the form **TSN O'**d.

e	Digroup Terminal (**DT**) number of digroup.
f	Digroup Terminal Unit (**DTU**) number of digroup.
g	Digroup number.
h	Digital Interface Frame (**DIF**) member number of digroup.
j	Digital Interface Unit (**DIU**) member number of digroup.
k	Expanded Time Slot Interchange (**XTSI**) member number.
l	**D3U** unit number (0-5).
m	Digroup (**DG**) number (1-28).
n	Number of **DIF** or **XTSI** digroups (maximum # = 5120).

4. SYSTEM RESPONSE

?D	Data field contains an error. Trunk or digroup data is invalid, e.g., out of range, or **DT**, **XTSI** or **DIF** identified is nonoperational.
?E	Syntax Error exists in the message but cannot be resolved to the proper field.
PF	Printout Follows. An INIT:DGSTAT output message will follow.
RL	Retry Later.

5. REFERENCES

PIDENTs
TMAD0005
TMAD0061
TMTCXTSI

Practice 234-100-052, *Digital Facility Trunk Trouble Reporting*

SEE PROPRIETARY NOTICE ON COVER PAGE

Input Messages
ANALY:DIGROUP
OP:DGSTAT

Output Message
INIT:DGSTAT

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INIT:FERAOVRD
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Controls the flow of the CONSULT FERA function.

2. FORMAT

INIT:FERAOVRD:{DEACT|ACTIVATE|REPORT}!

3. EXPLANATION OF MESSAGE

DEACT Default state.

ACTIVATE Override decision.

REPORT Override decision with a message to print out to indicate such a system state.

4. SYSTEM RESPONSE

None.

5. REFERENCES

PIDENT
FERAMANC

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INIT:LIBSYS
WORK CENTER . . MOC
GENERIC . . . . . 4E19 through 4E21
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Initializes the file store (FS) library program area by removing the specified packages. This input message does not cause the remaining packages to be repacked. Any packages resident inside library KCODE memory are erased.

2. FORMAT

INIT:LIBSYS,{PKG a|**ALL}!**

3. EXPLANATION OF MESSAGE

a	A list of package names to be removed from the library file store area.
ALL	Remove all packages from the library file store area.

4. SYSTEM RESPONSE

PF	Printout Follows. The initialization has been started and final disposition will be reported by an INIT:LIBSYS output message.
RL	Retry Later. Another library control function is in progress. (LOAD:LIBSYS, **INIT:LIBSYS**, UPD:LIBSYS, OP:LIBSTAT, IN:OWBUF[lib]).

5. REFERENCES

PIDENT
LIBRLOAD

Input Messages
IN:OWBUF
LOAD:LIBSYS
OP:LIBSTAT
UPD:LIBSYS

Output Message
INIT:LIBSYS

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INIT:MSGCLS
WORK CENTER . . MAC, MOC, NMOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Initializes an output message class or classes to the predefined set of channels.

2. FORMAT

INIT:MSGCLS a!

3. EXPLANATION OF MESSAGE

a — Message class or classes to be initialized. Initialize all the allowable classes to their predefined channels if a is ALL, or a can be one or more of the following:

ALLRC — All recent change channels.

ALLTCA — All trunk control area channels.

APSMTC — APS messages.

AUD — Audit messages.

CC — Central control messages.

CCIS — Common channel interoffice signaling messages.

DGN — Diagnostic messages.

FADS — File store, auxiliary data system, and auxiliary unit (AU) bus messages.

FOR — Fault recognition messages.

GROWTH — Growth messages.

INTPH — Interrupt and phase messages.

NMGT — Network management messages.

PTERM — Peripheral terminal equipment messages.

PUB — Peripheral unit bus messages.

RC — Recent change messages.

SERA — Switching error analysis message.

SP — Signal processor messages.

STOR — Core store and bus messages.

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`TDN` — Time division network messages.

`TERA` — Trunk error analysis messages.

The following message classes can only be changed by the `INIT:MSGCLS ALL!` input message:

`ALLMC` — All maintenance center messages.*

`MOC` — Maintenance operation center repair messages.*

`MOCC` — Maintenance operation center control messages.*

`TEC1` — Terminal equipment center 1 messages.*

`TEC2` — Terminal equipment center 2 messages.*

`TEC3` — Terminal equipment center 3 messages.*

`TEC4` — Terminal equipment center 4 messages.*

`TEC5` — Terminal equipment center 5 messages.*

`TOC1` — Trunk operations center 1 messages.*

`TOC2` — Trunk operations center 2 messages.*

NOTE *: See the `INIT:ALM` input message for these classes. These classes are also initialized on a Phase 2 or higher.

4. SYSTEM RESPONSE

`?I,INV DATA` Identification field contains an error. One or more of the classes requested cannot be changed.

`NG` No Good. More classes were requested than could be handled with a single request.

`OK` Good. The requested classes have been initialized.

5. REFERENCES

PIDENT
IOCPREA1

Input Message
`INIT:ALM`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INIT:NMDSYS
WORK CENTER . . MAC, MOC, NMOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . NMGT
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Initializes the network management display system.

All network management terminal activity is aborted, and work being done on any page is lost. The terminals are returned to the control page directory. All network management terminals should be in the receive mode before the message is issued.

NOTE: This message should be used with discretion because loss of data at the display terminals or in the on site operations report (OSOR) system could occur. If this message does not clear a problem, an audit should be run between the display system's hashed disk data and the current display system backup tape (`AUD:NWM;NCG`).

2. FORMAT

`INIT:NMDSYS!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`OK` Good.

5. REFERENCES

PIDENT
NMDSEXEC

Input Message
`AUD:NWM`

SEE PROPRIETARY NOTICE ON COVER PAGE

WARNING
INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

ID . . . . . INIT:PERIFINH
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

WARNING
This message should be used only on the instructions of AT&T or the Product Engineering Control Center (PECC).

Do not use the `INIT:PERIFINH` **input command to allow the SCS LAN. (See the** `ALW:SCS` **input message.)**

1. PURPOSE

Initializes peripheral pest table, including all peripheral unit pest records, KCODE pests, and APUF, PUF, APUT, ASW, and parity.

Implementation of **`INIT:PERIFINH`** does not change the pests in hardware. Running PUCNAUDS will update hardware from software.

This command should NOT be used to allow the local area network (LAN) for service circuit systems (SCSs) when it is originally in the inhibited state (it is harmless when run if the announcement administration processor AAP LAN is already allowed). The SCS LAN should be allowed only by invoking the `ALW:SCS x,LAN` input command.

2. FORMAT

`INIT:PERIFINH!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`OK` Good.

5. REFERENCES

PIDENT
ERATPEST

Input Message
`ALW:SCS`

SEE PROPRIETARY NOTICE ON COVER PAGE

WARNING
INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

ID . . . . . INIT:PMOS
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

WARNING
Format [2] may cause the system to hang-up. Use this message format only at low traffic hours.

1. PURPOSE

Starts or stops the specified task(s) executing under the Peripheral Maintenance Operating System (PMOS).

Format [1] is used to start or stop specified PMOS tasks.
Format [2] is used to stop all PMOS tasks.

2. FORMAT

[1] **`INIT:PMOS,TCRTNUM`** `a;{`**`ACTIVATE`**`|`**`DEACT`**`}`**`!`**

[2] **`INIT:PMOS;ALL!`**

3. EXPLANATION OF MESSAGE

`ACTIVATE` Start Specified **`PMOS`** tasks.

`DEACT` Stop specified **`PMOS`** tasks.

`a` The particular task number value for either the Task Control Block (TCB) or the Timed Routine Coordinator (TRC). In general, the input message `OP:PMOS` is used to find the `a` value for **`TCRTNUM`**.

4. SYSTEM RESPONSE

`OK` Good. Indicates particular action has been taken.

5. REFERENCES

PIDENTs
PMOSIOHN
PMOSMAIN

Input Message
`OP:PMOS`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INIT:PMOS-UTIL
WORK CENTER . . MOC
GENERIC . . . . . 4E24 Rel. 2 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Enables or disables specified utility functions.

Format [1] requests the Local Variable Stack (LVS) audit.

Format [2] requests the frame / Central Control (CC) bus routing trap.

Format [3] disables all Input/Output (I/O) controlled utility functions.

2. FORMAT

[1] **`INIT:PMOS;UTIL,LVSAUD`**`[:[`**`DEPTH`** `a][,`**`TASKID`** `b]]`**`!`**

[2] **`INIT:PMOS;UTIL,FRMROUT!`**

[3] **`INIT:PMOS;UTIL,END!`**

3. EXPLANATION OF MESSAGE

`a`	Percentage (`0-100`, in decimal) of stack usage. Default is 100 percent.
`b`	Peripheral Maintenance Operating System (**`PMOS`**) task, represented by an octal number in Table 1. Default is all tasks.

4. SYSTEM RESPONSE

`OK`	Good. Request accepted and completed.

5. REFERENCES

PIDENTs
PMOSMAIN
PMOSPRIM
PMOSTBLE

Output Messages
`REPT:PMOS-LVS`
`REPT:PMOS-TSKID`
`REPT:PMOS-UTIL`

SEE PROPRIETARY NOTICE ON COVER PAGE

Table 1
TASK IDENTIFICATION

Value	*Task Name*
0	PUFR
1	TNFR_ISOL
2	SYNC_ISOL
3	DIFR_ISOL
4	SCSFR_ISOL
5	FRDIMREQ
6	FRDILAUD
7	FRDILAMP
10	FRDIPCSC
11	XTSI_PSC_FRDIPCSC
12	FRDIPRE
13	FRDIPOST
14	FRDISWCH
15	TOPIC
16	FERA_FREC
17	FERA_ROUTINE
20	FERA_DF_AUDIT
21	FERA_TST_RTN
22	FERA_DF_TIMEOUT
23	BOOTCNTL
24	DIF_BOOTSTRAP
25	SCS_BOOTSTRAP
26	DIF_PEST_UPDATE
27	SCS_PEST_UPDATE
30	DIFR_TIMED_AUDIT
31	SCS_TIMED_AUDIT
32	CLK_SWIP
33	RUN_ESTAB_CLK
34	AUTON_MESSDISP
35	MESSDISP_POLLING
36	PMOS_TTY
37	MEDIC_AUDIT
40	TIMED_ENTRY
41	DIF_PEST_APUFS
42	DIF_PST_CLEANUP
43	SCS_PST_CLEANUP
44	SCS_PEST_APUFS
45	DIF_UNPEST_BOVFL

SEE PROPRIETARY NOTICE ON COVER PAGE

Table 1 (continued)
TASK IDENTIFICATION

Value	*Task Name*
46	SCS_UNPEST_BOVFL
47	DIFEPUMP
50	UTIL_AUDIT
51	PREDFN_OD_ALARMS
52	PARALLEL_DIF_POLLING
53	PARALLEL_SCS_POLLING
54	SCS_ANN_UPD_RESP_HNDLR
55	SCS_COPY_RESP_HNDLR
56	SCS_FORMAT_RESP_HNDLR
57	SCS_DISK_COPY
60	SCS_DISK_FORMAT
61	SCS_DISK_LOAD
62	SCS_DISK_DUMP
63	SCS_START_3B_COPY
64	COPY3B_SCS_FILES
65	SCS_CONTR_GEN_UPD
66	FERA_UNPEST_APUT
67	SCS_BP_MEM_UTIL
70	SCS_BP_RESP_HNDLR
71	XTSI_BOOTCNTL
72	XTSI_BOOTSTRAP
73	XTSI_PEST_UPDATE
74	PARALLEL_XTSI_POLLING
75	XTSI_DISK_COPY
76	XTSI_DISK_DUMP
77	XTSI_DISK_LOAD
100	XTSI_START_3B_COPY
101	COPY3B_XTSI_FILES
102	XTSI_START_GEN_UPD
103	XTSI_READ_CONTR_MEM_UTIL
104	XTSI_WRITE_CONTR_MEM_UTIL
105	XTSI_READ_D3U_MEM_UTIL
106	XTSI_WRITE_D3U_MEM_UTIL
107	XTSI_BP_UTIL
110	XTSI_ORD_LPBK
111	XTSI_AUDIT_LPBK
112	XTSI_DIAG_REQ
113	DIF_INITDG

SEE PROPRIETARY NOTICE ON COVER PAGE

Table 1 (continued)
TASK IDENTIFICATION

Value	*Task Name*
114	XTSI_FILE_COPY
115	XTSI_FILE_DUMP
116	XTSI_FILE_LOAD
117	XTSI_PEST_APUFS
120	XTSI_PST_CLEANUP
121	Internal PMOS spare task ID (not available for use)
122-123	Spare TASK IDS available for future use
124	XTSI_SPU_MULTI_RRES
125-126	Spare TASK IDS available for future use
127	XTSI_UPDATE_PSC_PARMS
130	XTSI_PM_24HR_SYNC
131	XTSI_SU_ODA_AUD
132	XTSI_SCHED_SU_ODA_AUD
133	XTSI_UNPEST_APUT

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INIT:PMSTAT
WORK CENTER . . MOC, TEC, TOC
GENERIC . . . . . 4E22 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Initializes Performance Monitoring (PM) status memory for the specified Expanded Time Slot Interchange (**XTSI**) Digital Signal Level 1 (DS1)s. Sets current DS1 PM registers 0 and 33 to zero, and all other registers to reflect "non-valid data". A request to initialize PM status memory will be blocked if an OP:PMSTAT message is processing the same **XTSI** concurrently.

2. FORMAT

```
INIT:PMSTAT,{OTAN a|TAN b|CIN c|TSN d|XTSI e,D3U f,DG g|ALL}
      [:NUM h]!
```

3. EXPLANATION OF MESSAGE

a — Octal trunk appearance number (**OTAN**) of any trunk in the DS1.

b — TSI-SPC-PORT-CHANNEL Trunk Appearance Number (**TAN**) of any trunk in the DS1:

- TSI — A 2-digit decimal number indicating the TSI member number (00-63).
- SPC — A 1-digit decimal number indicating Signaling Processor (SP) of TSI (0-1).
- PORT — A 1-digit decimal number indicating port of Time Slot Interchange (TSI) (0-7).
- CHANNEL — A 3-digit decimal number indicating channel (0-127).

c — Circuit Identification Name (**CIN**) of any trunk in the DS1.

d — Trunk Scanner Number (**TSN**) is broken down into SP-ROW-POINT:

- SP — A 2-digit decimal number indicating the pseudo SP number (00-31).
- ROW — A 3-digit decimal number indicating the row in the SP (000-255).
- POINT — A 2-digit decimal number indicating the point in the row (00-15).

NOTE: The **TSN** can be entered in octal by using the format **TSN O'd**.

e — Expanded Time Slot Interchange (**XTSI**) number (0-63).

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f	Digital Signal Level 3 Unit (**D3U**) (0-5).
g	Digroup (**DG**) (1-28).
h	Number of consecutive DS1s to look at starting from the specified one. That one must be operational.
ALL	Performance measurement registers for all **XTSI**s, **D3U**s and **DG**s equipped will be reset.

4. SYSTEM RESPONSE

?D	Data field contains an error. Trunk, **XTSI** or digroup data is invalid, e.g. out of range, or equipment identified is nonoperational.
?E	Syntax Error exists in the message but cannot be resolved to the proper field. Invalid message syntax, e.g. invalid combination of keywords.
NG	No Good. **XTSI**-II PM unavailable.
PF	Printout Follows. An INIT:PMSTAT output message will follow.
RL	Retry Later.
RL CODE 1	Retry Later. Group OP:PMSTAT in progress.
RL CODE 2	Retry Later. No Trunk Maintenance Register (TMR) available.

5. REFERENCES

PIDENTs
TMTCXTSI

Input Message
OP:PMSTAT

Output Message
INIT:PMSTAT

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INIT:PUEXINIT
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Initializes the peripheral unit exercise (PUEX) schedule table to the maximum count for all units. On the next running of PUEX, the schedule table will indicate that all units are scheduled to run.

2. FORMAT

INIT:PUEXINIT!

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

OK Good. Request completed.

5. REFERENCES

None.

SEE PROPRIETARY NOTICE ON COVER PAGE

WARNING
INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

ID . . . . . INIT:SCHAN
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E
TYPE . . . . . Input

WARNING
This message may result in lost calls.

1. PURPOSE

This message is used to initialize input/output (I/O) signaling system data structures for the specified client. This message is used during signaling link growth to initialize the following:

- input and output buffers
- per-link traffic counters
- buffer occupancy monitors

2. FORMAT

`INIT:SCHAN``[;a]!`

3. EXPLANATION OF MESSAGE

`a` Client to be initialized:

`ALL`

`ASTN` — Alternate signaling transport network.

4. SYSTEM RESPONSE

`?I,INV KW` Identification field contains an error. Indicates the keyword is not recognized. Check the keyword and re-enter the message.

`OK` Good. Indicates that initialization has completed successfully.

5. REFERENCES

PIDENTs
IOCPIMC4
IOCPIOH4

SEE PROPRIETARY NOTICE ON COVER PAGE

WARNING
INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

ID . . . . . INIT:SCS
WORK CENTER . . MOC
GENERIC . . . . . 4E22 Rel. 4 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

WARNING
Both `TYP 0` and `TYP 1` affect the contents of the disk. Both erase all announcements on the disk, `TYP 0` also affects system files.

1. PURPOSE

The service circuit system (SCS) disk format utility commands is used to:

1. Format the specified service circuit unit (SCU) disk.
2. Set some static flags on the disk to indicate whether the disk has been formatted.
3. Form the file descriptor table if the disk pair zero is being formatted and save that on the disk.
4. Initialize the data structure that are used for announcement tables.
5. Set the Final Handling announcement table in disk pair 0 to the default state.

NOTE: Two disk packs are required to implement a disk pair. Where a disk pack (such as the TN4000) contains more than one disk drive, each drive forms part of a mirrored pair with a disk on the adjacent pack. When an INIT operation is specified by a trouble clearing procedure, growth procedure, or support organization, it may be appropriate to repeat the INIT operation for the second disk in the pair. If the need to perform the INIT operation for each pair is unclear, consult with your designated support organization.

2. FORMAT

`INIT:SCS` a**`,SCU`** b**`,DSK`** c**`,BUS`** d[**`,TYP`** e]**`!`**

3. EXPLANATION OF MESSAGE

a	Is the **`SCS`** member number (`0-7`).
b	Is the **`SCU`** member number (`0-15`).
c	Is the **`SCU`** disk pair number that needs to be formatted (`0-1`).
d	Is the **`SCU`** disk bus number (`0-1`). This specifies which disk of the disk pair will be formatted.

SEE PROPRIETARY NOTICE ON COVER PAGE

`e` Indicates the type of disk formatting to be performed:

`0` — Indicates both a hardware and software format should be performed.

`1` — Indicates only a software format should be performed.

The hardware format affects the physical disk.

The software format initializes the data structures and the tables.

The default is a software format.

4. SYSTEM RESPONSE

`?D` Data field contains an error. The SCU disk format request has been denied because an expected keyword argument is missing.

`?I` Identification field contains an error. The SCU disk format request has been denied for one of the following reasons:

1. An expected keyword is missing.
2. A keyword argument is out-of-range.
3. There are too many keywords or keyword arguments.

`PF` Printout Follows. The SCU disk request is accepted. An output message will follow to indicate the status of SCU disk format request.

`RL` Retry Later. The SCU disk format request has been denied because too many tasks are in-progress. Please retry later.

5. REFERENCES

PIDENT
SCSFPUMP

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INIT:TLP
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Initializes all call store memory used for trouble location procedure (TLP); removes all entries from the TLPQUEUE; and cancels any TLP MACP clients, such as `OP:TLPQUEUE`, `CLR:TLPQUEUE`, etc..

This message also resets the TLPFILE number generator, and can be used to recover the TLP function for any state which cannot be recovered using the other TLP messages (`INH:TLP`, `ALW:TLP`, etc.).

2. FORMAT

`INIT:TLP!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`PF`	Printout Follows. The list of TLPFILEs removed from the TLPQUEUE will follow.

5. REFERENCES

PIDENTs
DRPPASUB
DRPSUPR

Practice 254-280-230, *Diagnostic Results Post - Processing Program*

PA-4A002-01, *4ESS™ User's Manual*, Section C.3, Trouble Location Procedures

Input Messages
`ALW:TLP`
`CLR:TLPQUEUE`
`INH:TLP`
`OP:TLPQUEUE`

Output Message
`INIT:TLPQUEUE`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INIT:TPDT
WORK CENTER . . TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Demand request to reinitialize the test position directory table from unit type translation data.

This table is used to direct incoming 101 calls to a particular test position. When issued, this message will destroy any rerouting or modifications of the directory table initiated with the `RTE:TP` input message.

2. FORMAT

`INIT:TPDT!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`OK`	Good. Request successfully initiated.
`RL`	Retry Later. System resources not available or another **`INIT:TPDT`** request is already in progress.

5. REFERENCES

PIDENT
TACCSUPV

Input Message
`RTE:TP`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INIT:TVMASTR
WORK CENTER . . MOC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . TRFM
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Starts the initialization process for the televote master with **MAPN** a.

If **ZEROCNT** is present, then all master counters associated with the service are to be zeroed.

If **ZEROCNT** is present and the service is currently active, then the request will be refused unless **UCL** is also present.

If a sponsor DDD number appears in translations, then the dial-up connection will be established and outputting of counts will begin as soon as possible.

2. FORMAT

INIT:TVMASTR,MAPN a[,**ZEROCNT**[;**UCL**]]!

3. EXPLANATION OF MESSAGE

a	**MAPN** of televote master.

4. SYSTEM RESPONSE

?D,INVD	Data field contains an error. Service identified by **MAPN** does not appear in translations.
?D,MISD	Data field contains an error. No data for **MAPN**.
?D,MISK	Data field contains an error. Required keyword **MAPN** is missing.
?D,RANE	Data field contains an error. **MAPN** is out of range.
?E,INCK	Syntax Error exists in the message but cannot be resolved to the proper field. **UCL** is present but not **ZEROCNT**.
NG	No Good. **ZEROCNT** is present but not **UCL** and service is active.
OK	Good. Initialization process started.

5. REFERENCES

PIDENT
TVTECTRL

Translation Guide, 4ESS™, TG-4, Division 3, Section 10
Translation Guide, 4ESS™, TG-4, Division 10

SEE PROPRIETARY NOTICE ON COVER PAGE

ID LOAD:A1B
WORK CENTER . . MOC
GENERIC . . . . . 4E21 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Causes the data given in the data field to be written into the designated location(s) of main memory. If the **INC** keyword appears in the data field, then the following data will be added to the data currently in the designated location(s). This function may be used to alter non-hashed data or to temporarily alter hashed data. If **SIZE** and **DISP** are specified, only data in the corresponding mask will be altered. A maximum of 128 locations may be altered.

Format [1] is used to perform **LOAD** on base level.
Format [2] is used to perform **LOAD** on G level as part of a generic utility flag (see the WHEN:[X]ADR input message).

2. FORMAT

[1]
```
LOAD:A1B,{[INDIR a,|XSINDIR b,ID c,]{ADR d|XADR e}
|INDIR a,UMEM f}
[,INC g]
[,SIZE h,DISP i]
[,L j]
:
{k|INC l}!
```

[2]
```
LOAD:A1B,{[INDIR a,|XSINDIR b[,ID c,]]{ADR d|XADR e}
|INDIR a,UMEM f
|INDIR a,mREG|XSINDIR b,mREG}
[,INC g]
[,SIZE h,DISP i]
[,L j]
:
{k|INC l}!
```

3. EXPLANATION OF MESSAGE

A1B	Any 1B core memory.
a	Number of levels of indirect addressing (0 - 7). Default value is 0.
b	Number of levels of indirect addressing (0 - 2). Default value is 0. See NOTES 1 and 2.
c	File system ID tag. (Must be in file segments 1 through 3 since this is used for extended memory access.)

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d	Eight digit octal address. Address bits that are not specified will be zero filled but bits 23-29, transition address register (TAR), will always be set to ones.
e	Ten digit address. Upper bits that are not specified will be zero filled. Default type is octal.
f	Utility memory indicator (0-7).
g	Increment (-17777 to +17777) added to address after all levels of indirectness have been calculated. Default value is 0. Default type is octal.
h	Size of mask (1-24). Default value is 24. Default type is decimal.
i	Displacement of mask (0-23). Default value is 0. Default type is decimal.
j	Number of locations to be written (1-128). Default value is 1. Default type is decimal.
k	Data to be written (0-77777777). Default type is octal.
l	Data to be added to current value in memory (0-77777777). Default type is octal.
m	One of the following lists of central control (CC) register mnemonics: B, F, G, J, K, L, X, Y, Z. This option is meaningful only after a `WHEN:ADR` or `WHEN:XADR` input message with the `ADR` or `XADR` keyword.

NOTE 1: **`XSINDIR`** `NUM,`**`ID`** `TAG,[`**`X`**`]`**`ADR`** `NUM` input (Base and G-Level):
The contents of the specified address will be used as the disk offset along with the ID tag to determine the extended store address.

NOTE 2: [**`XSINDIR`** `NUM,x`**`REG`**] or [**`XSINDIR`** `NUM,[`**`X`**`]`**`ADR`** `NUM`] input (G-Level only):
The contents of the register or address specified MUST be a window address. The window for this window address must have been previously enabled in order to access the extended store address.

4. SYSTEM RESPONSE

`?I,CODE 031`	Identification field contains an error. **`UMEM`** number specified is not 0, 1, 2, 3, 4, 5, 6, or 7.
`?I,CODE 035`	Identification field contains an error. Number of words to be written exceeds 128.
`?I,CODE 042`	Identification field contains an error. Attempt to write active central control (CC) buffer bus location.
`?I,CODE 043`	Identification field contains an error. Address increment exceeds O'17777.
`?I,CODE 044`	Identification field contains an error. Mask specified by **`SIZE`** and **`DISP`** is invalid. (**`SIZE`** + **`DISP`** > D'24 is invalid).

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`?I,CODE 118`	Identification field contains an error. Keyword **`ADR`** is invalid for accessing extended store.
`?I,CODE 119`	Identification field contains an error. Keyword **`INDIR`** is invalid for accessing extended store.
`?R,DPLX FAIL`	Insufficient system Resources are available to determine the validity of the message. Generic utility program (GULP) cannot be paged to parse the message because the file system is duplex failed.
`NG,CODE 125`	No Good. Invalid **`ID`** tag for accessing extended store.
`NG,CODE 188`	No Good. Address specified is not equipped.
`PF,CODE 050`	Printout will conditionally follow. This acknowledgement is used if file system is duplex failed and GULP is being paged from tape.
`PF,CODE 091`	Printout will conditionally follow. If message is in a utility flag or is within a utility data set, printout will follow only if flag is encountered or if data is executed.
`RL,CODE 180`	Retry Later. Execution of GULP function is in progress.
`RL,CODE 181`	Retry Later. Message processing in progress.
`RL,CODE 182`	Retry Later. Data set input mode in progress on another channel.
`RL,CODE 183`	Retry Later. Data set execution is in progress.
`RL,CODE 185`	Retry Later. No general buffer table (GBT) available or failure to page in GULP.

NOTE: A `REPT:UTIL` message may follow.

5. REFERENCES

PIDENTs
- GULPUTPP
- GULPUTXP
- GULRUTCR

Input Messages
- `WHEN:ADR`
- `WHEN:XADR`

Output Messages
- `LOAD:A1B`
- `REPT:UTIL`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:CS
WORK CENTER . . MOC
GENERIC . . . . . 4E21 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Causes the data given in the data field to be written into the designated location(s) of main memory. If the **INC** keyword appears in the data field, then the following data will be added to the data currently in the designated location(s). This function may be used to alter non-hashed data or to temporarily alter hashed data. If **SIZE** and **DISP** are specified, only data in the corresponding mask will be altered. A maximum of 128 locations may be altered.

Format [1] is used to perform **LOAD** on base level.
Format [2] is used to perform **LOAD** on G level as part of a generic utility flag (see the WHEN:[X]ADR input message).

2. FORMAT

[1]
```
LOAD:CS,{[INDIR a,]{ADR b|XADR c}
|INDIR a,UMEM d}
[,INC e]
[,SIZE f,DISP g]
[,L h]
:
{i|INC j}!
```

[2]
```
LOAD:CS,{[INDIR a,]{ADR b|XADR c}
|INDIR a,UMEM d
|INDIR a,kREG}
[,INC e]
[,SIZE f,DISP g]
[,L h]
:
{i|INC j}!
```

3. EXPLANATION OF MESSAGE

CS Nonsecure call store.

a Number of levels of indirect addressing (0 - 7). Default value is 0.

b Eight digit octal address. Address bits that are not specified will be zero filled but bits 23-29, transition address register (TAR), will always be set to ones.

c Ten digit address. Upper bits that are not specified will be zero filled. Default type is octal.

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d	Utility memory indicator (0-7).
e	Increment (-17777 to +17777) added to address after all levels of indirectness have been calculated. Default value is 0. Default type is octal.
f	Size of mask (1-24). Default value is 24. Default type is decimal.
g	Displacement of mask (0-23). Default value is 0. Default type is decimal.
h	Number of locations to be written (1-128). Default value is 1. Default type is decimal.
i	Data to be written (0-77777777). Default type is octal.
j	Data to be added to current value in memory (0-77777777). Default type is octal.
k	One of the following lists of central control (CC) register mnemonics: B, F, G, J, K, L, X, Y, Z. This option is meaningful only after a `WHEN:ADR` or `WHEN:XADR` input message with the `ADR` or `XADR` keyword.

4. SYSTEM RESPONSE

`?I,CODE 031`	Identification field contains an error. **UMEM** number specified is not 0, 1, 2, 3, 4, 5, 6, or 7.
`?I,CODE 035`	Identification field contains an error. Number of words to be written exceeds 128.
`?I,CODE 042`	Identification field contains an error. Attempt to write active central control (CC) buffer bus location.
`?I,CODE 043`	Identification field contains an error. Address increment exceeds O'17777.
`?I,CODE 044`	Identification field contains an error. Mask specified by **SIZE** and **DISP** is invalid. (**SIZE** + **DISP** > D'24 is invalid).
`?R,DPLX FAIL`	Insufficient system Resources are available to determine the validity of the message. Generic utility program (GULP) cannot be paged to parse the message because the file system is duplex failed.
`NG,CODE 188`	No Good. Address specified is not equipped.
`PF,CODE 050`	Printout will conditionally follow. This acknowledgement is used if file system is duplex failed and GULP is being paged from tape.
`PF,CODE 091`	Printout will conditionally follow. If message is in a utility flag or is within a utility data set, printout will follow only if flag is encountered or if data is executed.
`RL,CODE 180`	Retry Later. Execution of GULP function is in progress.
`RL,CODE 181`	Retry Later. Message processing in progress.
`RL,CODE 182`	Retry Later. Data set input mode in progress on another channel.

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`RL,CODE 183` Retry Later. Data set execution is in progress.

`RL,CODE 185` Retry Later. No general buffer table (GBT) available or failure to page in GULP.

NOTE: A `REPT:UTIL` message may follow.

5. REFERENCES

PIDENTs
GULPUTPP
GULPUTXP
GULRUTCR

Input Messages
`WHEN:ADR`
`WHEN:XADR`

Output Messages
`LOAD:CS`
`REPT:UTIL`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:CSS
WORK CENTER . . MOC
GENERIC . . . . . 4E21 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Causes the data given in the data field to be written into the designated location(s) of main memory. If the **INC** keyword appears in the data field, then the following data will be added to the data currently in the designated location(s). This function may be used to alter non-hashed data or to temporarily alter hashed data. If **SIZE** and **DISP** are specified, only data in the corresponding mask will be altered. A maximum of 128 locations may be altered.

Format [1] is used to perform **LOAD** on base level.
Format [2] is used to perform **LOAD** on G level as part of a generic utility flag (see the WHEN:[X]ADR input message).

2. FORMAT

[1]
```
LOAD:CSS,{[INDIR a,]{ADR b|XADR c}
|INDIR a,UMEM d}
[,INC e]
[,SIZE f,DISP g]
[,L h]
:
{i|INC j}!
```

[2]
```
LOAD:CSS,{[INDIR a,]{ADR b|XADR c}
|INDIR a,UMEM d
|INDIR a,kREG}
[,INC e]
[,SIZE f,DISP g]
[,L h]
:
{i|INC j}!
```

3. EXPLANATION OF MESSAGE

CSS	Call store secure.
a	Number of levels of indirect addressing (0 - 7). Default value is 0.
b	Eight digit octal address. Address bits that are not specified will be zero filled but bits 23-29, transition address register (TAR), will always be set to ones.
c	Ten digit address. Upper bits that are not specified will be zero filled. Default type is octal.

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d	Utility memory indicator (0-7).
e	Increment (-17777 to +17777) added to address after all levels of indirectness have been calculated. Default value is 0. Default type is octal.
f	Size of mask (1-24). Default value is 24. Default type is decimal.
g	Displacement of mask (0-23). Default value is 0. Default type is decimal.
h	Number of locations to be written (1-128). Default value is 1. Default type is decimal.
i	Data to be written (0-77777777). Default type is octal.
j	Data to be added to current value in memory (0-77777777). Default type is octal.
k	One of the following lists of central control (CC) register mnemonics: B, F, G, J, K, L, X, Y, Z. This option is meaningful only after a `WHEN:ADR` or `WHEN:XADR` input message with the `ADR` or `XADR` keyword.

4. SYSTEM RESPONSE

`?I,CODE 031`	Identification field contains an error. **UMEM** number specified is not 0, 1, 2, 3, 4, 5, 6, or 7.
`?I,CODE 035`	Identification field contains an error. Number of words to be written exceeds 128.
`?I,CODE 042`	Identification field contains an error. Attempt to write active central control (CC) buffer bus location.
`?I,CODE 043`	Identification field contains an error. Address increment exceeds O'17777.
`?I,CODE 044`	Identification field contains an error. Mask specified by **SIZE** and **DISP** is invalid. (**SIZE** + **DISP** > D'24 is invalid).
`?R,DPLX FAIL`	Insufficient system Resources are available to determine the validity of the message. Generic utility program (GULP) cannot be paged to parse the message because the file system is duplex failed.
`NG,CODE 188`	No Good. Address specified is not equipped.
`PF,CODE 050`	Printout will conditionally follow. This acknowledgement is used if file system is duplex failed and GULP is being paged from tape.
`PF,CODE 091`	Printout will conditionally follow. If message is in a utility flag or is within a utility data set, printout will follow only if flag is encountered or if data is executed.
`RL,CODE 180`	Retry Later. Execution of GULP function is in progress.
`RL,CODE 181`	Retry Later. Message processing in progress.
`RL,CODE 182`	Retry Later. Data set input mode in progress on another channel.

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`RL,CODE 183` Retry Later. Data set execution is in progress.

`RL,CODE 185` Retry Later. No general buffer table (GBT) available or failure to page in GULP.

NOTE: A `REPT:UTIL` message may follow.

5. REFERENCES

PIDENTs
GULPUTPP
GULPUTXP
GULRUTCR

Input Messages
`WHEN:ADR`
`WHEN:XADR`

Output Messages
`LOAD:CSS`
`REPT:UTIL`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:DIF-BUF
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Loads a range of a specified buffer. If both controllers are in service, then loading only one controller will cause mismatches and F-level interrupts.

2. FORMAT

LOAD:DIF a,[**CONTR** b,]**BUF (**c,d,e-f**)**:g[,**MSK** h]**!**

3. EXPLANATION OF MESSAGE

a	Member number of digital interface frame (**DIF**), domestic digital interface frame (DIF-E1[D]), or digital interface frame-export 1 (DIF-E1).
b	Controller (0 or 1). Default is both controllers.
c	Buffer number. (See the DUMP:DIF-BUF input message for buffer numbers.)
d	0 - If pointers to be left untouched.
	1 - If pointers to be set to start and end addresses.
e	Relative start address within each buffer range.
f	Relative end address within each buffer range.
g	Data.
h	Mask, in octal. Default is 77777777.

4. SYSTEM RESPONSE

PF,CODE 091	Printout will conditionally follow.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

Input Message
DUMP:DIF-BUF

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Message
`DUMP:DIF-BUF`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:DIF-CREG
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Loads a Digital Interface Frame (DIF) critical register with the data specified through a mask. If both controllers are in service, then loading only one controller will cause mismatches and F-level interrupts.

2. FORMAT

LOAD:DIF a,[**CONTR** b,]{**CREG**|**IREG**} c:d[,**MSK** e]**!**

3. EXPLANATION OF MESSAGE

a — **DIF** member number.

b — Controller (0 or 1). Default is both controllers.

c — Registers:

0 — Invalid
1 — Hardware status register (Note, exercise caution when loading this register.)
2 — Invalid
3 — Invalid
4 — Invalid
5 — Invalid
6 — Controller Error Source Register (ESR)
7 — Controller pest
10 — Maintenance Processor Error Source Register (MPESR) hardware
11 — MPESR firmware
12 — Digital Interface Unit (DIU) 33-32 summary ESR
13 — DIU 31-24 summary ESR
14 — DIU 23-16 summary ESR
15 — DIU 15-8 summary ESR
16 — DIU 7-0 summary ESR
17 — Clock ESR
20 — Signal processor ESR
21 — Internal bus ESR
22 — Exercise register
23 — Protection switch request register low
24 — Protection switch request register high
25 — Extended bus cutoff low
26 — Extended bus cutoff high
27 — Arithmetic Unit Data Register (AUDR)
30 — Signaling Processor (SP) trunk counter 0

SEE PROPRIETARY NOTICE ON COVER PAGE

31 — SP trunk counter 1
32 — Buffer status register
33 — High priority pointers
34 — Low priority pointers
35 — Digit buffer pointers
36 — Seizure buffer pointers
37 — Maintenance buffer pointers
40 — Signal Processor Error Source Register (SPESR)
41 — SP status register
42 — SP single step write
43 — SIN0
44 — SIN1
45 — DIU 23-16 LUSP link data
46 — DIU 15-8 LUSP link data
50 — DIU 33-32 LUSP link data
51 — DIU 31-24 LUSP link data
52 — DIU 23-16 LUSP link pest
53 — DIU 15-8 LUSP link pest
54 — DIU 7-0 LUSP link pest
55 — DIU 33-32 LUSP link pest
56 — DIU 31-24 LUSP link pest
57 — Maintenance Processor (MP) buffer status register
60 — DIU 33 common raw alarm data
61 — DIU 32 common raw alarm data
62 — DIU 31 common raw alarm data
63 — DIU 30 common raw alarm data
64 — DIU 29 common raw alarm data
65 — DIU 28 common raw alarm data
66 — DIU 27 common raw alarm data
67 — DIU 26 common raw alarm data
70 — DIU 25 common raw alarm data
71 — DIU 24 common raw alarm data
72 — DIU 23 common raw alarm data
73 — DIU 22 common raw alarm data
74 — DIU 21 common raw alarm data
75 — DIU 20 common raw alarm data
76 — DIU 19 common raw alarm data
77 — DIU 18 common raw alarm data
100 — DIU 17 common raw alarm data
101 — DIU 16 common raw alarm data
102 — DIU 15 common raw alarm data
103 — DIU 14 common raw alarm data
104 — DIU 13 common raw alarm data
105 — DIU 12 common raw alarm data
106 — DIU 11 common raw alarm data
107 — DIU 10 common raw alarm data
110 — DIU 9 common raw alarm data
111 — DIU 8 common raw alarm data
112 — DIU 7 common raw alarm data
113 — DIU 6 common raw alarm data

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114 — DIU 5 common raw alarm data
115 — DIU 4 common raw alarm data
116 — DIU 3 common raw alarm data
117 — DIU 2 common raw alarm data
120 — DIU 1 common raw alarm data
121 — DIU 0 common raw alarm data
122 — CCPST1 DIU 33-32
123 — CCPST1 DIU 31-24
124 — CCPST0 DIU 23-16
125 — CCPST0 DIU 15-8
126 — CCPST0 DIU 7-0
127 — Maintenance Processor (MP) interrupt enable state
130 — MP routine test inhibit state 1
131 — MP routine test inhibit state 0
132 — MP maintenance buffer seizure flag
133 — DACPST1 DIU 33-32
134 — DACPST1 DIU 31-24
135 — DACPST0 DIU 23-16
136 — DACPST0 DIU 15-8
137 — DACPST0 DIU 7-0
140 — DRFPST1 DIU 33-32
141 — DRFPST1 DIU 31-24
142 — DRFPST0 DIU 23-16
143 — DRFPST0 DIU 15-8
144 — DRFPST0 DIU 7-0
145 — Protection switch software status low 2
146 — Protection switch software status low 1
147 — Protection switch software status low 0
150 — Protection switch software status high 2
151 — Protection switch software status high 1
152 — Protection switch software status high 0
153 — Suspect DIU raw data
154 — Suspect DIU lower half
155 — Suspect DIU raw data
156 — Suspect DIU upper half
157 — Overflow

`d` Data.

`e` Mask in octal. Default is 77777777.

4. SYSTEM RESPONSE

`PF,CODE 091` Printout will conditionally follow.

SEE PROPRIETARY NOTICE ON COVER PAGE

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

Input Message
`DUMP:DIF-CREG`

Output Message
`DUMP:DIF-CREG`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:DIF-EXCRAM
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Loads a range of executive buffer random access memory (EXCRAM) into the domestic digital interface frame (DIF-E1[D]), or into the digital interface frame-export 1 (DIF-E1). If both controllers are in service, then loading only one controller will cause mismatches and F-level interrupts.

2. FORMAT

LOAD:DIF a,[**CONTR** b,]**EXCRAM** c-d:e[,**MSK** f]**!**

3. EXPLANATION OF MESSAGE

a	DIF-E1(D) or DIF-E1 member number.
b	Controller (0 or 1). Default is both controllers.
c	Starting memory address (0-1777, in octal); (d-c ≤ 10, in octal).
d	Last memory address (0-1777, in octal); (d-c ≤ 10, in octal).
e	Data to be loaded.
f	Mask.

4. SYSTEM RESPONSE

PF,CODE 091	Printout will conditionally follow.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

Input Message
DUMP:DIF-EXCRAM

Output Message
DUMP:DIF-EXCRAM

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:DIF-IREG
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Loads the internal registers associated with a particular Digital Interface Unit (DIU). If both controllers are in service, then loading only one controller will cause mismatches and F-level interrupts.

2. FORMAT

LOAD:DIF a,[**CONTR** b,]**DIU** c,**IREG** d:e[,**MSK** f]**!**

3. EXPLANATION OF MESSAGE

a — Digital Interface Frame (**DIF**) member number.

b — Controller (0 or 1). Default is both controllers.

c — **DIU** number.

d

- 0 — Invalid.
- 1 — Digroup 1 alarm data.
- 2 — Digroup 1 report function data.
- 3 — Unused.
- 4 — Digroup 2 alarm data.
- 5 — Digroup 2 report function data.
- 6 — Unused.
- 7 — Digroup 3 alarm data.
- 10 — Digroup 3 report function data.
- 11 — Unused.
- 12 — Digroup 4 alarm data.
- 13 — Digroup 4 report function data.
- 14 — Unused.
- 15 — Digroup 5 alarm data.
- 16 — Digroup 5 report function data.
- 17 — Unused.

SEE PROPRIETARY NOTICE ON COVER PAGE

20 — DIU common alarm data.

21-77 — Invalid.

`e` Data.

`f` Mask. Default is 377.

4. SYSTEM RESPONSE

PF,CODE 091 Printout will conditionally follow.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

Input Message
`DUMP:DIF-IREG`

Output Message
`DUMP:DIF-IREG`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:DIF-MAPRT
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Loads a range of the map rate table (MAPRT) into the domestic digital interface frame (DIF-E1[D]), or into the digital interface frame-export 1 (DIF-E1). If both controllers are in service, then loading only one controller will cause mismatches and F-level interrupts.

2. FORMAT

LOAD:DIF a,[**CONTR** b,]**MAPRT** c-d:e[,**MASK** f]**!**

3. EXPLANATION OF MESSAGE

a	DIF-E1(D) or DIF-E1 member number.
b	Controller (0 or 1). Default is both controllers.
c	Starting memory address (0-177, in octal); (d-c ≤ 10, in octal).
d	Last memory address (0-177, in octal); (d-c ≤ 10, in octal).
e	Data to be loaded.
f	Mask.

4. SYSTEM RESPONSE

PF,CODE 091	Printout will conditionally follow.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

Input Message
DUMP:DIF-MAPRT

Output Message
DUMP:DIF-MAPRT

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:DIF-MEM
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Loads the digital interface frame (DIF) memory. If both controllers are in service, then loading only one controller will cause mismatches and F-level interrupts.

2. FORMAT

LOAD:DIF a,[**CONTR** b,]**MEM** c-d:e[,**MSK** f]**!**

3. EXPLANATION OF MESSAGE

a	**DIF** member number.
b	Controller (0 or 1). Default is both controllers.
c	Start address (10000 to 17777, in octal = Hard core random access memory [RAM]).
d	End address (10000 to 17777, in octal = Hard core RAM) (where d-c ≤ 10).
e	Data.
f	Mask, in octal. Default is 77777777.

4. SYSTEM RESPONSE

PF,CODE 091	Printout will conditionally follow.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

Input Message
DUMP:DIF-MEM

Output Message
DUMP:DIF-MEM

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:DIF-PTSRPS
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Loads a range of P-bit trunk status rate pointer store (PTSRPS) for the domestic digital interface frame (DIF-E1[D]), or for the digital interface frame-export 1 (DIF-E1). If both controllers are in service, then loading only one controller will cause mismatches and F-level interrupts.

2. FORMAT

LOAD:DIF a,[**CONTR** b,]**PTSRPS** c-d:e[,**MSK** f]**!**

3. EXPLANATION OF MESSAGE

a	DIF-E1(D) or DIF-E1 member number.
b	Controller (0 or 1). Default is both controllers.
c	Starting memory address (0-7777, in octal); (d-c ≤ 10, in octal).
d	Last memory address (0-7777, in octal); (d-c ≤ 10, in octal).
e	Data to be loaded.
f	Mask.

4. SYSTEM RESPONSE

PF,CODE 091 Printout will conditionally follow.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

Input Message
DUMP:DIF-PTSRPS

Output Message
DUMP:DIF-PTSRPS

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:DIF-PTSS
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Loads a range of P-bit trunk status store (PTSS) into the domestic digital interface frame (DIF-E1[D]), or into the digital interface frame-export 1 (DIF-E1), memory. If both controllers are in service, then loading only one controller will cause mismatches and F-level interrupts.

2. FORMAT

LOAD:DIF a,[**CONTR** b,]**PTSS** c-d:e[,**MSK** f]**!**

3. EXPLANATION OF MESSAGE

a	DIF-E1(D) or DIF-E1 member number.
b	Controller (0 or 1). Default is both controllers.
c	Starting memory address (0-7777, in octal); (d-c ≤ 10, in octal).
d	Last memory address (0-7777, in octal); (d-c ≤ 10, in octal).
e	Data to be loaded.
f	Mask.

4. SYSTEM RESPONSE

PF,CODE 091	Printout will conditionally follow.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

Input Message
DUMP:DIF-PTSS

Output Message
DUMP:DIF-PTSS

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:DIF-SPSTS
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Loads a range of signaling processor (SP) state translator store (SPSTS) memory for the domestic digital interface frame (DIF-E1[D]), or for the digital interface frame-export 1 (DIF-E1). If both controllers are in service, then loading only one controller will cause mismatches and F-level interrupts.

2. FORMAT

LOAD:DIF a,[**CONTR** b,]**SPSTS** c-d:e[,**MSK** f]**!**

3. EXPLANATION OF MESSAGE

a	DIF-E1(D) or DIF-E1 member number.
b	Controller (0 or 1). Default is both controllers.
c	Starting memory address (0-27777, in octal); (d-c ≤ 10, in octal).
d	Last memory address (0-27777, in octal); (d-c ≤ 10, in octal).
e	Data to be loaded.
f	Mask.

4. SYSTEM RESPONSE

PF,CODE 091	Printout will conditionally follow.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

Input Message
DUMP:DIF-SPSTS

Output Message
DUMP:DIF-SPSTS

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:DIF-SPTSS
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Loads a range of signaling processor (SP) trunk status store (SPTSS) memory into the domestic digital interface frame (DIF-E1[D]), or into the digital interface frame-export 1 (DIF-E1). If both controllers are in service, then loading only one controller will cause mismatches and F-level interrupts.

2. FORMAT

LOAD:DIF a,[**CONTR** b,]**SPTSS** c-d:e[,**MSK** f]**!**

3. EXPLANATION OF MESSAGE

a	DIF-E1(D) or DIF-E1 member number.
b	Controller (0 or 1). Default is both controllers.
c	Starting memory address (0-7777, in octal); (d-c ≤ 10, in octal).
d	Last memory address (0-7777, in octal); (d-c ≤ 10, in octal).
e	Data to be loaded.
f	Mask.

4. SYSTEM RESPONSE

PF,CODE 091	Printout will conditionally follow.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

Input Message
DUMP:DIF-SPTSS

Output Message
DUMP:DIF-SPTSS

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:DIF-TBIT
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Loads the specified digital interface frame (DIF) TBITs. If both controllers are in service, then loading only one controller will cause mistakes and F-level interrupts.

2. FORMAT

LOAD:DIF a,[**CONTR** b,]**TBIT** c-d:e[,**MSK** f]**!**

3. EXPLANATION OF MESSAGE

a	**DIF** member number.
b	Controller (0 or 1). Default is both controllers.
c	Start address - first TBIT in 17-bit TST format.
d	End address - last TBIT in 17-bit TST format (d-c ≤ 10).
e	Data.
f	Mask, in octal. Default is 77777777.

4. SYSTEM RESPONSE

PF,CODE 091	Printout will conditionally follow.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

Input Message
DUMP:DIF-TBIT

Output Message
DUMP:DIF-TBIT

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:DIF-USN
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Sets or resets a range of E-bit store numbers (ESNs), M-bit store numbers (MSNs), or per channel inhibit signaling store numbers (U-bit store numbers [USNs]). If both controllers are in service, then loading only one controller will cause mismatches and F-level interrupts.

2. FORMAT

LOAD:DIF a,[**CONTR** b,]{**USN**|**MSN**|**ESN**}c-d:e[,**MSK** f]**!**

3. EXPLANATION OF MESSAGE

a	Digital interface frame (**DIF**) member number.
b	Controller (0 or 1). Default is both controllers.
c	Start address.
d	End address (d-c ≤ 10).
e	Data.
f	Mask, in octal. Default is 77777777.
USN	Per channel inhibit signaling store number.
MSN	M-bit store number.
ESN	E-bit store number.

4. SYSTEM RESPONSE

PF,CODE 091	Printout will conditionally follow.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:DISK-SCS
WORK CENTER . . MOC
GENERIC . . . . . 4E22 Rel. 4 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Writes one word (16 bits) of hexadecimal data onto the designated location of the specified Service Circuit Unit (SCU) disk pair.

2. FORMAT

LOAD:DISK;SCS a**,SCU** b**,DSK** c{**,FILE** d|**,RAW**[**,BUS** e]}**,HADR (**f1,f2**)**[**:HDATA** g]**!**

3. EXPLANATION OF MESSAGE

a	Service Circuit System (**SCS**) member number (0-7).
b	**SCU** member number (0-15).
c	SCU disk pair number (0-1). This specifies the SCU disk pair the data will be written to.
d	SCU file descriptor number (1-42).
e	SCU disk bus number (0-1). For a load disk raw request, the SCU bus number specifies on which disk of the disk pair the data will be written. For a load disk file request, the data will be written to both disks of the specified SCU disk pair.
f1,f2	Address on the disk. The address is either 24 bits (for file load) or 32 bits (for raw load). The address is in hexadecimal which should be broken into two 16 bit words (f1 is the high address and f2 is the low address).
g	Data in hexadecimal consisting of 16 bits.

4. SYSTEM RESPONSE

?D — Data field contains an error. The SCU disk load request has been denied. An expected keyword argument is missing.

?I — Identification field contains an error. The SCU disk load request has been denied for one of the following reasons:

1. An expected keyword is missing.
2. A keyword argument is out-of-range.
3. There are too many keywords or keyword arguments.

PF — Printout Follows. The SCU disk load request is accepted. An output message will follow to indicate the status of SCU disk load request.

SEE PROPRIETARY NOTICE ON COVER PAGE

RL	Retry Later. The SCU disk load request has been denied. Too many tasks in progress.

5. REFERENCES

PIDENT
SCSFPUMP

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:EST-CREG
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Loads the specified critical register with data through a mask.

2. FORMAT

LOAD:EST a[,**CONTR** b],**CREG** c:d[,**MSK** e]**!**

3. EXPLANATION OF MESSAGE

a — Echo suppressor terminal (1-31).

b — Controller (0 or 1).

c —
0 — Controller 0 status register.*
1 — Controller 1 status register.*
2 — Unit status register.
3 — Error source register 1.
4 — Error source register 2.
5 — Error source register 3.
6 — Error source register 4.
7 — Pest register 12.
10 — Pest register 34.
11 — Unit summary register.
12 — Unit pest register.
13 — Exercise register.
14 — Protection switch request register.
15 — Unit power alarm register.

NOTE *: Mask not to be specified. Use upper half (bits 23 through 12) of x...x as enables.

d — Data to be loaded.

e — Mask that data is to be loaded through.

4. SYSTEM RESPONSE

OK — Good. Message format is correct.

RL — Retry Later.

SEE PROPRIETARY NOTICE ON COVER PAGE

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:EST-ESU
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Loads the trunk status store.

2. FORMAT

LOAD:EST a[,**CONTR** b],**ESU** c,**TSMEM** d-e:f!

3. EXPLANATION OF MESSAGE

a	Echo suppressor terminal (1-31).
b	Controller (0 or 1).
c	Echo suppressor unit (**ESU**) (0-15).
d	Bits 10 through 7 are ESU and 6 through 0 are starting address.
e	Bits 10 through 7 are ESU and 6 through 0 are ending address.
f	0 — Disabled and split. 1 — Disabled and full. 2 — Enabled and split. 3 — Enabled and full.

4. SYSTEM RESPONSE

OK	Good. Message format is correct.
RL	Retry Later.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:EST-LLMEM
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Loads the last look store random access memory (LLRAM) with the specified function.

2. FORMAT

LOAD:EST a[**,CONTR** b]**,LLMEM** c:d**!**

3. EXPLANATION OF MESSAGE

a — Echo suppressor terminal (1-31).

b — Controller (0 or 1).

c — Last look store address (LLSADR). Bits 4 through 1 select echo suppressor unit (ESU) and bit 0 selects word 1 or 0. LLSADR may be 0 for functions d=0, 1, 2, 11.

d — Function to be performed to LLSRAM:

0 — Halt autonomous random access memory (RAM) updating.
1 — Write RAM to all 0's.
2 — Write RAM to all 1's.
3 — Write last look store address (LLSADR) row to 0, all other rows to 1.
4 — Write LLSADR row to 1, all other rows to 0.
5 — Write 0 to two contiguous rows, all other rows to 1.
6 — Write 1 to two contiguous rows, all other rows to 0.
7 — Write LLSADR row to 0.
10 — Write LLSADR row to 1.
11 — Freeze RAM (inhibit RAM writes), RAM can still be read, USR register continues to get unit error summary from ESUs.

4. SYSTEM RESPONSE

OK — Good. Message format is correct.

RL — Retry Later.

SEE PROPRIETARY NOTICE ON COVER PAGE

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:LIBSYS
WORK CENTER . . MAC, MOC, NMOC, TEC, TOC
GENERIC . . . . . 4E22 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Loads core from the File Store (**FS**) library area or loads the **FS** library area from the library tape.

Format [1] is used to load core from the library **FS** area.
Format [2] is used to load the library **FS** area from tape.

The 3B command `VER:UPDATE:TAPE,MT x!`, will display the tape header of the tape which is used for the `LOAD:` message.

NOTE: An `INIT:LIBSYS` is executed immediately, this causes a delay between the start of the **LOAD:LIBSYS** command and access to the 3B tape drive.

NOTE: The **LOAD:LIBSYS** command will not work with a library tape created using the 3B command `COPY:UPDATE:LIB...`.

2. FORMAT

[1] **LOAD:LIBSYS**[,**CORE**];**FS:PKG** a[,**GEN** bbbbbbbbbbbb]**!**

[2] **LOAD:LIBSYS,FS;TAPE:TD** c**!**

3. EXPLANATION OF MESSAGE

CORE	Load the specified library package from **FS** into core.
TAPE	Load **FS** area from a library tape.
FS	Load core from the **FS** area or load the library **FS** area from tape.
GEN	ID of current generic. Entered only when a duplex fail condition exists.
a	Library package.
b	Generic ID.
c	3B tape device number (0 or 1).

4. SYSTEM RESPONSE

NG	No Good. Invalid combination requested (**FS** to **FS**).
PF	Printout Follows. Load request is accepted, and disposition of the request will be reported by an output message.

SEE PROPRIETARY NOTICE ON COVER PAGE

`RL` Retry Later.

— Another library control function is in progress. (`LOAD`, `INIT`, `UPD:LIBSYS`, `OP:LIBSTAT`, `IN:OWBUF`[lib]).
— Cannot load library packages if an `AUD:` (System Audit Of Stores Using Tape [SAST]) message is in progress.
— Cannot load library packages if the 3B is duplex failed.

5. REFERENCES

PIDENT
LIBRLOAD

Practice 254-280-214, *Library Control Program*

Input Messages
`IN:OWBUF`
`LOAD:LIBSYS`
`OP:LIBSTAT`

SEE PROPRIETARY NOTICE ON COVER PAGE

WARNING
INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

ID . . . . . LOAD:MEMORY-SCS
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

WARNING
Because this message changes the memory or uses critical resources of the hardware unit, this message should only be used when directed by technical support.

1. PURPOSE

This command loads (writes) the specified word of memory into either the Service Circuit System (SCS) controller or a Service Circuit Unit (SCU).

Format [1] is used to write memory of SCS controllers.
Format [2] is used to write memory of an SCU.

2. FORMAT

[1] **LOAD:MEMORY;SCS** a[,**CONTR** b],{**MRAM** c|**GRAM** d|**LRAM** e}
:HDATA f[,**HMSK** g]**!**

[2] **LOAD:MEMORY;SCS** a,**SCU** h,{**MRAM** i|**TRAM** j}:**HDATA** k[,**HMSK** l]**!**

3. EXPLANATION OF MESSAGE

a — **SCS** member number in decimal (0-7).

b — Controller (0 or 1). Default is the active controller. Controller may not be specified if the frame is duplex or listen-only mode.

c — SCS controller micro-instruction Random Access Memory (RAM) memory address in hexadecimal. Valid range is 0 through FFFF.

NOTE: The controller program memory audit must be turned off before the controller micro-instruction RAM memory is written to prevent interrupts. Contact the Technical Assistance Center for further information.

d — SCS controller global RAM memory address in hexadecimal. Valid range is 0 through 3FFFF. Any address greater than 16 bits of data is specified in two 16-bit increments. For example, (3,FFFF) represents an address of 3FFFF.

e — SCS controller local RAM memory address in hexadecimal. Valid range is 0 thru FFFF.

SEE PROPRIETARY NOTICE ON COVER PAGE

`f` Controller data to write in hexadecimal. **LRAM** or **GRAM** data is 32 bits and **MRAM** instruction is 64 bits. To represent more than 16 bits of data, the input data is specified in multiple 16-bit increments. For example, (1A1A,2B2B,3C3C,4FFF) represents the hex number 1A1A2B2B3C3C4FFF.

`g` 32-bit Mask in hexadecimal. Default mask is FFFFFFFF. A mask cannot be specified for **MRAM**. Any mask larger than 16 bits of data is specified in two 16-bit increments. For example, (3,FFFF) represents a mask of 0003FFFF.

`h` **SCU** number in decimal (0-15).

`i` SCU micro-instruction RAM memory address in hexadecimal. Valid range is 4000 - BFFF.

`j` SCU table RAM memory address in hexadecimal. Valid range is 0 thru FFFFF, where first hex digit is segment number. Any address greater than 16 bits of data (4 characters) is specified in two 16-bit increments. For example, (3,FFFF) represents an address of 3FFFF, location FFFF in segment 3. Default for the segment number is zero.

`k` SCU data to load in hexadecimal. **TRAM** data is 16 bits and **MRAM** instruction is 48 bits. To represent more than 16 bits of data, the input data is specified in multiple 16-bit increments. For example, (2B2B,3C3C,4FFF) represents the hex number 2B2B3C3C4FFF.

`l` 16-bit Mask in hexadecimal. Default mask is FFFF. A mask cannot be specified for **MRAM**.

4. SYSTEM RESPONSE

`PF` Printout Follows. A request will be sent to the frame to write the specified word of memory. A `LOAD:MEMORY—SCS` output message follows, indicating the results of the request.

5. REFERENCES

PIDENT
SCSBPMEM

Input Message
`DUMP:MEMORY-SCS`

Output Messages
`DUMP:MEMORY-SCS`
`LOAD:MEMORY-SCS`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:MUP
WORK CENTER . . MOC
GENERIC . . . . . 4E22 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Causes the data given in the data field to be written into the designated location(s) of the Master Control Complex (MCC) And Utility Processor (MUP) memory. If **SIZE** and **DISP** are specified, only data in the corresponding mask will be altered. A maximum of 112 locations may be altered.

2. FORMAT

LOAD:MUP,ADR a[**,L** b]**:(**c,d**)!**

3. EXPLANATION OF MESSAGE

a	An even numbered internal MUP address specified in hexadecimal. Only address between 0x200000 and 0x3FFFFE are valid.
b	Number of 32-bit words from 1 to 112. Must be in decimal form. Default value = 1.
c	Upper 8 bits of data to be written in hexadecimal (0-FF).
d	Lower 24 bits of data to be written in hexadecimal (0-FFFFFF).

4. SYSTEM RESPONSE

?I,CODE 035	Identification field contains an error. Number of words to be written exceeds 112.
?I,CODE 044	Identification field contains an error. Mask specified by **SIZE** and **DISP** is invalid.
?R,DPLX FAIL	Insufficient system Resources are available to determine the validity of the message. Generic Utility Program (GULP) cannot be paged to parse the input message because the disks are duplex failed.
NG,CODE 036	No Good. Request follows a WHEN clause. This function cannot be performed on G-level.
PF,CODE 091	Printout will conditionally follow.
RL,CODE 180	Retry Later. Execution of GULP function is in progress.
RL,CODE 181	Retry Later. Message processing is in progress.
RL,CODE 182	Retry Later. Data set input mode is in progress on another channel.
RL,CODE 183	Retry Later. Data set execution is in progress.
RL,CODE 184	Retry Later. Message print is in progress.

SEE PROPRIETARY NOTICE ON COVER PAGE

`RL,CODE 185` Retry Later. No General Buffer Table (GBT) available or GULP cannot be paged.

5. REFERENCES

PIDENTs
GULPUTPP
GULPUTXP
GULRUTCR

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:NCLK
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Loads the specified critical register (CREG) in the network clock (NCLK).

2. FORMAT

LOAD:NCLK 0,CHAIN a**,CREG** b**:0!**

3. EXPLANATION OF MESSAGE

a — Chain (0-3).

b
- 0 — Set counter preset.
- 1 — Release solenoid.
- 2 — Inhibit outgoing signaling characteristics (OSCs) 0 to combiner for counter.
- 3 — Inhibit OSC 1 to combiner for counter.
- 4 — Inhibit OSC 0 to combiner for fanout.
- 5 — Inhibit OSC 1 to combiner for fanout.
- 6 — Inhibit phase or level to error summary.
- 7 — Inhibit 0-0 master select to error summary.
- 10 — Inhibit 0-1 master select to error summary.
- 11 — Inhibit 1-0 master select to error summary.
- 12 — Inhibit 1-1 master select to error summary.
- 13 — Set oscillator level detector error.
- 14 — Set master select level detector error.
- 15 — Set phase lock error.
- 16 — Set master phase unlock error detector.
- 17 — Set intra-bay counter select.
- 20 — Set inter-bay counter 0 select.
- 21 — Set inter-bay counter 1 select.
- 22 — Set program disconnect.
- 23 — Reset program disconnect.

SEE PROPRIETARY NOTICE ON COVER PAGE

24 — Convert 3-way match to 2-way(ac).

25 — Convert 3-way match to 2-way(ab).

26 — Common clear number 1.

27 — Common clear number 2.

30 — Common clear number 3.

31 — Common clear number 4.

32 — Common clear number 5.

33 — Common clear number 6.

34 — Set error inhibit.

35 — Reset error inhibit.

36 — Test sequence zero.

37 — Test sequence one.

40 — Set phase unlock error detector local.

41 — Set phase lock oven monitor.

42 — Disable external c leg to matcher.

43 — Disable external b leg to matcher.

44 — Set disconnect interlock.

4. SYSTEM RESPONSE

OK	Good. Message format is correct.
RL	Retry Later.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:PSS
WORK CENTER . . MOC
GENERIC . . . . . 4E21 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Causes the data given in the data field to be written into the designated location(s) of main memory. If the **INC** keyword appears in the data field, then the following data will be added to the data currently in the designated location(s). This function may be used to alter non-hashed data or to temporarily alter hashed data. If **SIZE** and **DISP** are specified, only data in the corresponding mask will be altered. A maximum of 128 locations may be altered.

Format [1] is used to perform **LOAD** on base level.
Format [2] is used to perform **LOAD** on G level as part of a generic utility flag (see the WHEN:[X]ADR input message).

2. FORMAT

[1]
```
LOAD:PSS,{[INDIR a,]{ADR b|XADR c}
|INDIR a,UMEM d}
[,INC e]
[,SIZE f,DISP g]
[,L h]
:
{i|INC j}!
```

[2]
```
LOAD:PSS,{[INDIR a,]{ADR b|XADR c}
|INDIR a,UMEM d
|INDIR a,kREG}
[,INC e]
[,SIZE f,DISP g]
[,L h]
:
{i|INC j}!
```

3. EXPLANATION OF MESSAGE

PSS	Program store secure.
a	Number of levels of indirect addressing (0 - 7). Default value is 0.
b	Eight digit octal address. Address bits that are not specified will be zero filled but bits 23-29, transition address register (TAR), will always be set to ones.
c	Ten digit address. Upper bits that are not specified will be zero filled. Default type is octal.

SEE PROPRIETARY NOTICE ON COVER PAGE

d	Utility memory indicator (0-7).
e	Increment (-17777 to +17777) added to address after all levels of indirectness have been calculated. Default value is 0. Default type is octal.
f	Size of mask (1-24). Default value is 24. Default type is decimal.
g	Displacement of mask (0-23). Default value is 0. Default type is decimal.
h	Number of locations to be written (1-128). Default value is 1. Default type is decimal.
i	Data to be written (0-77777777). Default type is octal.
j	Data to be added to current value in memory (0-77777777). Default type is octal.
k	One of the following lists of central control (CC) register mnemonics: B, F, G, J, K, L, X, Y, Z. This option is meaningful only after a `WHEN:ADR` or `WHEN:XADR` input message with the `ADR` or `XADR` keyword.

4. SYSTEM RESPONSE

?I,CODE 031	Identification field contains an error. **UMEM** number specified is not 0, 1, 2, 3, 4, 5, 6, or 7.
?I,CODE 035	Identification field contains an error. Number of words to be written exceeds 128.
?I,CODE 042	Identification field contains an error. Attempt to write active central control (CC) buffer bus location.
?I,CODE 043	Identification field contains an error. Address increment exceeds O'17777.
?I,CODE 044	Identification field contains an error. Mask specified by **SIZE** and **DISP** is invalid. (**SIZE** + **DISP** > D'24 is invalid).
?R,DPLX FAIL	Insufficient system Resources are available to determine the validity of the message. Generic utility program (GULP) cannot be paged to parse the message because the file system is duplex failed.
NG,CODE 188	No Good. Address specified is not equipped.
PF,CODE 050	Printout will conditionally follow. This acknowledgement is used if file system is duplex failed and GULP is being paged from tape.
PF,CODE 091	Printout will conditionally follow. If message is in a utility flag or is within a utility data set, printout will follow only if flag is encountered or if data is executed.
RL,CODE 180	Retry Later. Execution of GULP function is in progress.
RL,CODE 181	Retry Later. Message processing in progress.
RL,CODE 182	Retry Later. Data set input mode in progress on another channel.

SEE PROPRIETARY NOTICE ON COVER PAGE

`RL,CODE 183` Retry Later. Data set execution is in progress.

`RL,CODE 185` Retry Later. No general buffer table (GBT) available or failure to page in GULP.

NOTE: A `REPT:UTIL` message may follow.

5. REFERENCES

PIDENTs
GULPUTPP
GULPUTXP
GULRUTCR

Input Messages
`WHEN:ADR`
`WHEN:XADR`

Output Messages
`LOAD:PSS`
`REPT:UTIL`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:REG
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Enables data to be placed directly into a central control (CC) register of an active CC. Allows data to be incremented. Only used with a `WHEN:ADR` input message.

2. FORMAT

```
LOAD:aREG
:
{b|INC c}!
```

3. EXPLANATION OF MESSAGE

a	One of the following CC register mnemonics: B, F, G, J, K, L, X, Y, Z.
b	Number to be placed in register. Default number type=octal. Number may be positive or negative.
c	Number to be added to current value. Default type=octal. Number may be positive or negative.

4. SYSTEM RESPONSE

`?R,DPLX FAIL`	Insufficient system Resources are available to determine the validity of the message. Generic utility program (GULP) cannot be paged to parse the message because the file system is duplex failed.
`INVALID KEYWORD`	
`PF,CODE 050`	Printout will conditionally follow. This acknowledgement is used if file system is duplex failed and GULP is being paged from tape.
`PF,CODE 091`	Printout will conditionally follow.
`RL,CODE 180`	Retry Later. Execution of GULP function is in progress.
`RL,CODE 181`	Retry Later. Message processing is in progress.
`RL,CODE 182`	Retry Later. Data input mode is in progress on another channel.
`RL,CODE 183`	Retry Later. Data set execution is in progress.
`RL,CODE 185`	Retry Later. No general buffer table (GBT) available or failure to page in GULP.

SEE PROPRIETARY NOTICE ON COVER PAGE

5. REFERENCES

PIDENTs
GULPUTPP
GULPUTXP
GULRUTCR

Practice 234-301-003, *1B Processor Generic Utility Program (GULP) Application - Description*

PA-4A002-01, *4ESS™ User's Manual*

Input Message
`WHEN:ADR`

Output Message
`LOAD:REG`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:SCLK-NCSU
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Loads the network clock synchronization unit (NCSU) memory through the system clock (SCLK).

2. FORMAT

LOAD:SCLK 0,CONTR a**,NCSU 0,MEM** b-c:d[**,MSK** e]**!**

3. EXPLANATION OF MESSAGE

a	Active **SCLK** controller.
b	First memory address.
c	Last memory address (c-b≤10).
d	Data to be loaded (8 bits only).
e	Mask (377, if defaulted).

4. SYSTEM RESPONSE

PF,CODE 091	Printout will conditionally follow.

5. REFERENCES

PIDENT
PULP

SEE PROPRIETARY NOTICE ON COVER PAGE

WARNING
INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

ID . . . . . LOAD:SCS
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E
TYPE . . . . . Input

WARNING

1. PURPOSE

Format [1] loads the Service Circuit System (SCS) CREG or IREG registers with the data specified through a mask.
Format [2] loads the Service Circuit Unit (SCU) IREG registers with the data specified through a mask.

2. FORMAT

[1] **LOAD:SCS** a,{**CREG**|**IREG**} b:c[,**MSK** d]!

[2] **LOAD:SCS** a,**SCU** e,**IREG** f:c[,**MSK** d]!

3. EXPLANATION OF MESSAGE

a **SCS** member number (0-7).

b Register numbers.

0 — INVALID - Software status register.
1 — HWSTATUS - Hardware status register.
2 — INVALID - Maintenance response data.
3 — INVALID - Frame software status.
4 — INVALID - SCU out of service register.
5 — CESR - Controller error source register.
6 — PEST - Controller pest register.
7 — CONTROL - Controller control register.
10 — INVALID - Extended bus link status low.
11 — INVALID - Extended bus link status high.
12 — EBLKADR - Extended bus link address.
13 — GRESR - Global ram error source register.
14 — INVALID - Global ram control memory.
15 — INVALID - Global address memory 0.
16 — INVALID - Global address memory 1.

SEE PROPRIETARY NOTICE ON COVER PAGE

17 — EXESR - Exec error source register.
20 — INVALID - Exec control/status memory low.
21 — INVALID - Exec control/status memory high.
22 — INVALID - Exec frame pointer.
23 — INVALID - Exec program counter.
24 — INVALID - Exec sanity timer.
25 — INVALID - Exec stack boundary low.
26 — INVALID - Exec stack boundary high.
27 — INVALID - Exec stack pointer.
30 — INVALID - Exec interrupt/mask register.
31 — RLPBPTR - Read low priority buffer pointer.
32 — WLPBPTR - Write low priority buffer pointer.
33 — RDBPTR - Read digit buffer pointer.
34 — WDBPTR - Write digit buffer pointer.
35 — MBPTRS - Maintenance buffer pointer.
36 — SDOWMBPTR - Shadow maintenance buffer pointer.
37 — INVALID - Maintenance buffer status.
40 — INVALID - SCU error source register 00.
41 — INVALID - SCU error source register 01.
42 — INVALID - SCU error source register 02.
43 — INVALID - SCU error source register 03.
44 — INVALID - SCU error source register 04.
45 — INVALID - SCU error source register 05.
46 — INVALID - SCU error source register 06.
47 — INVALID - SCU error source register 07.
50 — INVALID - SCU error source register 08.
51 — INVALID - SCU error source register 09.
52 — INVALID - SCU error source register 10.
53 — INVALID - SCU error source register 11.
54 — INVALID - SCU error source register 12.
55 — INVALID - SCU error source register 13.
56 — INVALID - SCU error source register 14.
57 — INVALID - SCU error source register 15.

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60 — INVALID - Firmware error buffer 0.
61 — INVALID - Firmware error buffer 1.
62 — INVALID - Firmware error buffer 2.
63 — INVALID - Firmware error buffer 3.
64 — INVALID - Firmware error buffer 4.
65 — INVALID - Firmware error buffer 5.
66 — INVALID - Firmware error buffer 6.
67 — INVALID - Firmware error buffer 7.
70 — INVALID - Firmware error buffer 8.
71 — INVALID - Firmware error buffer 9.
72 — INVALID - Extended bus memory reset.
73 — INVALID - Extended bus link address.
74 — INVALID - Extended bus link status low memory.
75 — INVALID - Extended bus link status high memory.

`c` Data.

`d` Mask in octal. Default is 77777777.

`e` **`SCU`** member number (`0-15`).

`f` Register numbers.

0 — INVALID - SCU unit status.
1 — INVALID - SCU error source register.
2 — HWSTATUS - SCU hardware status.
3 — INVALID - SCU translation data0.
4 — INVALID - SCU translation data1.
5 — INVALID - SCU translation data2.

4. SYSTEM RESPONSE

`PF,CODE 091` Printout will conditionally follow.

5. REFERENCES

PIDENTs
PULPDFSS
PULPMAIN

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:SP-ABORT
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Aborts the pulse point CYCLE operation for signaling processors (SPs).

2. FORMAT

LOAD:SP a,**ABORT 0:0!**

3. EXPLANATION OF MESSAGE

a	**SP** member number (decimal 0-31) currently being cycled.

4. SYSTEM RESPONSE

PF	Printout Follows.
RL	Retry Later.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

Input Message
LOAD:SP-CYCLE

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:SP-CYCLE
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Writes a pulse point or row of pulse points once per executive control base level cycle. Only one cycle operation may be active at any given time.

2. FORMAT

LOAD:SP a**,CYCLE (**b,c-d**):**e[**,MSK** f]**!**

3. EXPLANATION OF MESSAGE

a	Signal processor (**SP**) member number (decimal 0-31).
b	Time limit, less than or equal to 20 minutes (octal).
c-d	17-bit pulse point miscellaneous distributor number (MDN) range (octal, all points must be in same SP row).
e	Right-justified octal data to be written to pulse point(s).
f	Octal mask data is to be written through.

4. SYSTEM RESPONSE

PF	Printout Follows.
RL	Retry Later.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

Input Message
LOAD:SP-MEM

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:SP-IREG
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Loads the signaling processor (SP) internal register (IREG).

2. FORMAT

LOAD:SP a[,**CONTR** b],**IREG** c:d[,**MSK** e]!

3. EXPLANATION OF MESSAGE

a **SP** number (decimal 0-31).

b Controller number (0 or 1).

c
0 — Controller zero status register.
1 — Controller one status register.
2 — Error source register 1.
3 — Error source register 2.
4 — Pest register.
5 — Memory address register.
6 — Memory data register.
7 — Memory access test points.
10 — Coder.
11 — Matrix address register.
12 — Matrix work register.
13 — Matrix hold register.
14 — Miscellaneous control register.
15 — Matrix access test points.
16 — Maintenance processor (MP) work register.
17 — DP work register.
20 — T-bit shift register.
21 — Present look shift register.
22 — Executive and DP out sequencer control register.
23 — Scan and digit sequencer control register.
24 — Matrix and MF out sequencer control register.
25 — Millisecond clock.
26 — Extended millisecond clock A.
27 — Extended millisecond clock B.
30 — Clock error detector register.
31 — Pointer status.
32 — High-priority buffer read pointer.
33 — High-priority buffer write pointer.
34 — Seizure buffer read pointer.
35 — Seizure buffer write pointer.

SEE PROPRIETARY NOTICE ON COVER PAGE

36 — Low-priority buffer read pointer.
37 — Low-priority buffer write pointer.
40 — Digit buffer read pointer.
41 — Digit buffer write pointer.
42 — DP OUT worklist read pointer.
43 — DP OUT worklist write pointer.
44 — DP IN worklist read pointer.
45 — DP IN worklist write pointer.

FOR SP2

46 — Error source register 3.
47 — Receiver routing for lower Digroup terminal (DT) ports.
50 — Receiver routing for upper DT ports.
51 — Temporary buffer status for all DTs.
52 — DT counter.
53 — I/O and message distributor sequencer state.
54 — DT interface sanity timer.
55 — DT shift register A address.
56 — DT shift register B address.
57 — DT shift register A data and op code.
60 — DT shift register B data and op code.

`d` Data to be loaded into register.

`e` Mask through which data is loaded.

4. SYSTEM RESPONSE

`OK` Good. Message format is correct.

`RL` Retry Later.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:SP-MEM
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Loads the signaling processor (SP) memory.

2. FORMAT

LOAD:SP a[,**CONTR** b],**MEM** c-d:e[,**MSK** f]!

3. EXPLANATION OF MESSAGE

a	**SP** number (decimal 0-31).
b	Controller number (0 or 1).
c	First memory address to be loaded.
d	Last memory address to be loaded (≤ 3777 for SP)(≤ 577 for SP2) [(c-d)+1 ≤ 10].
e	Data to be loaded in specified memory.
f	Mask through which data is loaded.

4. SYSTEM RESPONSE

OK	Good. Message is correct.
RL	Retry Later.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:SP-TDN
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Loads the time division network (TDN), miscellaneous distributor number (MDN), or processor peripheral (PP) parts of the signaling processor (SP) with the specified data.

2. FORMAT

LOAD:SP a,{**TDN**|**MDN**|**PP**} b-c:d!

3. EXPLANATION OF MESSAGE

a	**SP** number (decimal 0-31).
b	First matrix point to loaded.
c	Last matrix point to be loaded.
d	Right adjusted data for setting each point in row of signal distribution matrix from d & (777760) to c & (777760).

4. SYSTEM RESPONSE

OK	Good. Message is correct.
RL	Retry Later.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

WARNING
INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

ID . . . . . LOAD:TMSP-CREG
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

WARNING

1. PURPOSE

Loads the Time Multiplexed Switch Pair (TMSP) Critical Register (CREG).

2. FORMAT

LOAD:TMSP a,**CONTR** b,**CREG** c:d[,**MSK** e]!

3. EXPLANATION OF MESSAGE

a	**TMSP** (0-3).
b	Controller (0-1).
c	0 — Lower status register. 1 — Upper status register. 2 — Error Source Register (ESR) 0. 3 — ESR 1. 4 — Lower status register with ESR clear.
d	Data to be loaded into register.
e	Mask through which data is loaded.

4. SYSTEM RESPONSE

OK	Good. Message is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

WARNING
INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

ID . . . . . LOAD:TMSP-MEM
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

WARNING

1. PURPOSE

Loads the specified Time Multiplexed Switch Pair (TMSP) memory.

2. FORMAT

LOAD:TMSP a[,**CONTR** b],**MEM(**c,d-e**):**f[,**MSK** g]**!**

3. EXPLANATION OF MESSAGE

a	**TMSP** (0-3).
b	Controller (0-1).
c	Memory within Time Multiplexed Switch (TMS) to be loaded (0-177).
d	First memory address to be loaded (0-177).
e	Last memory address to be loaded.
f	Data to be loaded into specified memory address(s).
g	Mask through which data is loaded.

4. SYSTEM RESPONSE

OK	Good. Message is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

WARNING
INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

ID . . . . . LOAD:TSI-CREG
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

WARNING

1. PURPOSE

Loads the specified Time Slot Interchange (**TSI**) Critical Register (**CREG**).

2. FORMAT

LOAD:TSI a,**CONTR** b,**CREG** c:d[,**MSK** e]!

3. EXPLANATION OF MESSAGE

a — **TSI** member (0-63).

b — Controller number (0-1).

c — Register bits:

- 0 — Status register bits (0-11).
- 1 — Status register bits (12-24).
- 2 — Error Source Register (ESR) bits (0-11).
- 3 — ESR bits (12-24).
- 4 — Status register bits (0-11) with ESR clear.

d — Data to be loaded into register.

e — Mask through which data is loaded.

4. SYSTEM RESPONSE

PF,CODE 091 — Printout Follows. Printout will conditionally follow.

NOTE: If the member number variable is an Expanded Time Slot Interchange (XTSI), the echo message will be: LOAD:XTSI n,...NOT STARTED - ILLEGAL MESSAGE

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

Input Message
DUMP:TSI-CREG

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Messages

```
DUMP:TSI-CREG
LOAD:TSI-CREG
```

SEE PROPRIETARY NOTICE ON COVER PAGE

WARNING
INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

ID . . . . . LOAD:TSI-MEM
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

WARNING

1. PURPOSE

Loads the specified Time Slot Interchange (TSI) memory.

2. FORMAT

LOAD:TSI a[,**CONTR** b],**SPC** c,**MEM (**d,e,f-g**)**:h[,**MSK** i]**!**

3. EXPLANATION OF MESSAGE

a — **TSI** member (0-63).

b — Controller number (0-1).

c — Switching And Permuting Controller (**SPC**) number (0-1).

d — Time Slot Interchange Frame (TSIF) memory types:

- 0 — Receive Time-Slot Memory (RTSM).
- 1 — Transmit Time-Slot Memory (TTSM).
- 2 — Busy-Idle Memory Map (BIMM).
- 3 — Buffer Memory Address Map (BMAM).

e — Level (0-127) for RTSM or TTSM.
0 for non-RTSM or non-TTSM.

f — First word.

g — Last word (g-h $\leq$ 177).

h — Data to be loaded into specified memory address(s).

i — Mask through which data is loaded.

4. SYSTEM RESPONSE

OK — Good. Message is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Message
LOAD:TSI-MEM

SEE PROPRIETARY NOTICE ON COVER PAGE

WARNING
INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

ID . . . . . LOAD:TSIFILE
WORK CENTER . . MOC
GENERIC . . . . . 4E21 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

WARNING
This is a field support only feature and should not be used unless the user knows exactly what they are doing. Major system problems can occur if this command is mis-used.

1. PURPOSE

Writes one word (16 bits) of hexadecimal data onto the flash memory residing in the Expanded Time Slot Interchange (**XTSI**).

Before running the load command, the user should inhibit the flash audit (via the load memory command) so that the **XTSI** will not catch checksum errors in the file being modified. The user will also be responsible for re-starting the flash audit after command completion.

2. FORMAT

LOAD:TSIFILE;XTSI a,[**CONTR** b,]**FILE** c,**HADR** d:**HDATA** e!

3. EXPLANATION OF MESSAGE

a	**XTSI** member number (0-63) (32 **XTSI** frames-allows only even **XTSI** numbers).
b	**XTSI** controller number (0-1). Optional parameter. If duplex, this field must be left blank. If simplex, the default is the active controller. If duplex failed, this parameter must be specified.
c	**XTSI** file descriptor number (0-127). For **XTSI** Controller (XTC) files only (files 0-11), writing to active files (file versions that are currently in use) will be disallowed.
d	Hex address offset within a file (23 bit hex address).
e	16 bit hex data.

4. SYSTEM RESPONSE

?D, MISS DATA	There is a missing data argument.
?I, INV KW	There is an invalid keyword in the command line.
?I, MISS KW	Keyword is missing a variable.
?I, RANGE ER	An argument is out of range.
?I, XTRA KW	There are extra keywords in the command line.

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`PF` Printout Follows. The **`XTSI`** file load request is accepted. An output message will follow to indicate the status of **`XTSI`** file load request.

`RL` Retry Later. The **`XTSI`** file load request has been denied. Too many tasks are in progress.

5. REFERENCES

PIDENT
XTSIFILU

Output Messages
`COPY:TSIFILE`
`COPY:XTSI`
`DUMP:TSIFILE`
`LOAD:TSIFILE`

SEE PROPRIETARY NOTICE ON COVER PAGE

WARNING
INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

ID . . . . . LOAD:TSIMEM
WORK CENTER . . MOC
GENERIC . . . . . 4E24 Rel. 2 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

WARNING

1. PURPOSE

This command loads (writes) the specified memory into either the Expanded Time Slot Interchange (**XTSI**) controller, Digital Signal Level 3 Unit (**D3U**), Signal Processing Unit (**SPU**) or In-Band Unit (**IBU**).

Format 1 is used to write memory of **XTSI** controllers.

Format 2 is used to write memory of a **D3U**.

Format 3 is used to write memory of a **SPU**.

Format 4 is used to write memory for an **IBU**.

Format 5 and 6 are used to write Time Slot Memory (TSM).

Format 7, 8 and 9 are used to write memory of a Controller Signal Processor (CSP) or an In-Band Unit (**IBU**).

2. FORMAT

[1] **LOAD:TSIMEM;XTSI** a[,**CONTR** b],{**MRAM** c|**GRAM** d|**LRAM** e|**CRAM** g}
:HDATA h[,**HMSK** i]**!**

[2] **LOAD:TSIMEM;XTSI** a,**D3U** j,**HADR** k:**HDATA** l[,**HMSK** m]**!**

[3] **LOAD:TSIMEM;XTSI** a,**SPU** n,**HADR** k:**HDATA** l[,**HMSK** m]**!**

[4] **LOAD:TSIMEM;XTSI** a,**IBU 0**,**HADR** k:**HDATA** l[,**HMSK** m]**!**

[5] **LOAD:TSIMEM;XTSI** a,[**CONTR** b,]**SPC** o,**PRTI** 0,**LEVEL** p,**ADR** q:**DATA** r
[,**MASK1** s]**!**

[6] **LOAD:TSIMEM;XTSI** a,[**CONTR** b,]**SPC** o,**PRTI 1|2|3**,**ADR** q:**DATA** r
[,**MASK1** s]**!**

[7] **LOAD:TSIMEM;XTSI** a,{**ES|MS|TBITS**} t:**DATA** u**!**

[8] **LOAD:TSIMEM;XTSI** a,**SPC** o,**PCIS** v:**DATA** u**!**

[9] **LOAD:TSIMEM;XTSI** a,**IBU 0**,{**SD|MTBITS**} w:**DATA** u**!**

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3. EXPLANATION OF MESSAGE

a — **XTSI** member number in decimal (0-63). Only even numbered **XTSI** member numbers are allowed (except where the keyword Switching and Permuting Controller (**SPC**) is specified).

b — Controller (0 or 1). Default is the active controller. Using TSM type message controller can be used in a duplex frame, otherwise controller may not be specified if the frame is duplex or listen-only mode, or if this is a read of Control-Bus Random Access Memory (**CRAM**) memory above H'10000000. If the frame is duplex-failed, then controller must be specified.

c — **XTSI** controller Micro-Instruction Random Access Memory (**MRAM**) memory address in hexadecimal (0 - FFFF).

NOTE: Controller program memory audit must be turned off before the controller micro-instruction Random Access Memory (RAM) memory is written to prevent interrupts. Contact the Technical Assistance Center for further information.

d — **XTSI** controller Global Random Access Memory (**GRAM**) memory address in hexadecimal (0 - 3FFFF). Any address greater than 16 bits is specified in two 16-bit increments. For example, (3,FFFF) represents an address of 3FFFF.

e — **XTSI** controller Local Random Access Memory (**LRAM**) memory address in hexadecimal (0 - FFFF).

g — **XTSI CRAM** memory address in hexadecimal (0 - 23FFFFFF). If value is greater than or equal to 10000000, then this would be an address for a Protection Switch Client (PSC). For PSCs, the command is rejected if the frame is duplex-failed. Any address greater than 16 bits is specified in two 16-bit increments. For example, (23FF,FFFF) represents an address of 23FFFFFF.

h — Controller data to write in hexadecimal. **LRAM**, **GRAM**, and **CRAM** data is 32 bits and **MRAM** instruction is 64 bits. To represent more than 16 bits of data, the input data is specified in multiple 16-bit increments. For example, (1A1A,2B2B,3C3C,4FFF) represents the hex number 1A1A2B2B3C3C4FFF. Leading zeroes are not required.

i — 32-bit Mask in hexadecimal. Default mask is FFFFFFFF. A mask can not be specified for **MRAM**. Any mask larger than 16 bits of data is specified in two 16-bit increments. For example, (3,FFFF) represents a mask of 0003FFFF.

j — **D3U** number in decimal (0-7).

k — Address argument contains valid hexadecimal range (0 - 401FFF) in **D3U** or (0 - 603C00) in **SPU**. Any address larger than 16 bits is specified in two 16-bit increments. Each address must also be preceded by the digit 0, 1 or 2 to indicate memory access type long, word or byte respectively and separated by a comma. For example (0,FF) represents

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an access type of "long" and an address of FF and (2,40,1FFF) represents an access type of "byte" and an address of 401FFF.

`l` — **D3U** or **SPU** data to write in hexadecimal. Writes are done in 4-byte data increments. When representing more than 16 bits of data, the input data is specified in multiple 16-bit increments. For example, (1A1A,2B2B) represents the 32-bit hex number 1A1A2B2B. Leading zeroes are not required; if the leading digits are not specified, these digits will default to zero.

`m` — 32-bit Mask in hexadecimal. Default mask is FFFFFFFF. Any mask larger than 16 bits of data is specified in two 16-bit increments. For example, (3,FFFF) represents a mask of 0003FFFF.

`n` — **SPU** number in decimal (`0-11`).

`o` — SPC `0` or `1`.

PRTI — Partition (`0-3`).

`p` — A-link number (`0-7`) (required when **PRTI** `0` is specified).

`q` — **ADR** address of Time Slot Memory (TSM). Octal range (`0-177`) when **PRTI** `0` is specified. Octal range (`0-1777`) when **PRTI** `1`, `2` or `3` is specified.

`r` — Data to be written. (Maximum 15 bits, or octal range 77777)

`s` — When using TSM message a 15 bit octal mask is used. Default mask is 77777.

ES — E-Store memory.

MS — M-Store memory.

PCIS — Per channel inhibit state memory.

TBITS — Trunk bits.

`t` — Controller Signal Processor (CSP) trunk designation, controller, in octal (`0-7777`).

SD — Signal distribute point.

MTBITS — Miscellaneous trunk bits.

`u` — Data to be written. (`0-1` for **ES**, **MS** or **PCIS**. `Octal 0-77` for **TBITS** or **MTBITS**.)

`v` — IBU trunk designation in octal (`1-1760`).

`w` — Controller Signal Processor (CSP) trunk designation in octal (`3000-3430`).

4. SYSTEM RESPONSE

`PF` — A request will be sent to the frame to write the specified word of memory. A `LOAD:TSIMEM` output message follows, indicating the results of the request.

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5. REFERENCES

PIDENT
XTSIMEMU

Input Messages
`DUMP:TSIMEM`

Output Message
`DUMP:TSIMEM`
`LOAD:TSIMEM`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:UMEM
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Enables the user of the generic utilities to save or increment data saved in a utility scratch memory location.

2. FORMAT

```
LOAD:UMEM a[,L b]
:
{c|INC d}!
```

3. EXPLANATION OF MESSAGE

a	Scratch utility memory (**UMEM**) indicator (0-7).
b	Number of locations to be loaded or incremented. Default number type is decimal. Default value is 1.
c	Number to be saved. Number may be positive or negative. Default number type is octal.
d	Number to be added to current value. Number may be positive or negative. Default number type is octal.

4. SYSTEM RESPONSE

?I,CODE 031	Identification field contains an error. **UMEM** number specified is not 0, 1, 2, 3, 4, 5, 6, or 7.
?R,DPLX FAIL	Insufficient system Resources are available to determine the validity of the message. Generic utility program (GULP) cannot be paged to parse the message because the file system is duplex failed.
PF,CODE 050	Printout will conditionally follow. This acknowledgement is used if file system is duplex failed and GULP is being paged from tape.
PF,CODE 091	Printout will conditionally follow.
RL,CODE 180	Retry Later. Execution of GULP function is in progress.
RL,CODE 181	Retry Later. Message processing is in progress.
RL,CODE 182	Retry Later. Data set input mode is in progress on another channel.
RL,CODE 183	Retry Later. Data set execution is in progress.
RL,CODE 185	Retry Later. No general buffer table (GBT) available or failure to page in GULP.

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5. REFERENCES

PIDENTs
GULPUTPP
GULPUTXP
GULRUTCR

Practice 234-301-003, *1B Processor Generic Utility Program (GULP) Application - Description*

PA-4A002-01, *4ESS™ User's Manual*

Input Message
`EXC:UTILDS`

Output Messages
`EXC:UTILDS`
`LOAD:UMEM`

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ID . . . . . LOAD:VIF-ATA
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Loads the voiceband interface frame (VIF) and activates the trunk audit. This function may be used in conjunction with the time slot exchange functions to cause a single voiceband interface unit (VIU) trunk to be tested for voice frequency continuity.

2. FORMAT

LOAD:VIF a,[**CONTR** b,]**ATA:0!**

3. EXPLANATION OF MESSAGE

a	**VIF** member number (1-127).
b	Controller (0 or 1).

4. SYSTEM RESPONSE

OK	Good. Message is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:VIF-CMS
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Loads the voiceband interface frame (VIF) and clears status memory. This macro sets the freeze bit to logical 1 and all other bits to a 0 in all insulated gate field effect transistor (IGFET) status memory words except the leading and null words, which are unaffected.

2. FORMAT

LOAD:VIF a,[**CONTR** b,]**CMS:0!**

3. EXPLANATION OF MESSAGE

a	**VIF** member number (1-127).
b	Controller (0 or 1).

4. SYSTEM RESPONSE

OK	Good. Message is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID LOAD:VIF-DLFC0
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Loads the voiceband interface frame (VIF) and disables low frequency exerciser control 0. This function resets the LFC0 flip-flop bit on the voiceband interface unit (VIU) control bus.

2. FORMAT

LOAD:VIF a,[**CONTR** b,]**DLFC0:0!**

3. EXPLANATION OF MESSAGE

a	**VIF** member number (1-127).
b	Controller (0 or 1).

4. SYSTEM RESPONSE

OK	Good. Message is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID LOAD:VIF-DLFC1
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Loads the voiceband interface frame (VIF) and disables the low frequency exerciser control 1. This function resets the LFC1 bit on the voiceband interface unit (VIU) control bus.

2. FORMAT

LOAD:VIF a,[**CONTR** b,]**DLFC1:0!**

3. EXPLANATION OF MESSAGE

a	**VIF** member number (1-127).
b	Controller (0 or 1).

4. SYSTEM RESPONSE

OK	Good. Message is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID LOAD:VIF-DLFC2
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Loads the voiceband interface frame (VIF) and disables the low frequency exerciser control 2. This function resets LFC2 bit on voiceband interface unit (VIU) control bus.

2. FORMAT

LOAD:VIF a,[**CONTR** b,]**DLFC2:0!**

3. EXPLANATION OF MESSAGE

a	**VIF** member number (1-127).
b	Controller (0 or 1).

4. SYSTEM RESPONSE

OK	Good. Message is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:VIF-DMVIU
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Loads the voiceband interface frame (VIF) and disables the multiple voiceband interface unit (VIU) failure alarm on the spare unit. This function prevents the spare VIU from causing a multiple VIU alarm during an autonomous protection switch.

2. FORMAT

LOAD:VIF a,[**CONTR** b,]**DMVIU:0!**

3. EXPLANATION OF MESSAGE

a	**VIF** member number (1-127).
b	Controller (0 or 1).

4. SYSTEM RESPONSE

OK	Good. Message is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:VIF-DTSE
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Loads the voiceband interface frame (VIF) and disables the time slot exchange (DTSE) function. This macro resets the DTSE flip-flop bit, disabling the time-slot exchange function.

2. FORMAT

LOAD:VIF a,[**CONTR** b,]**DTSE:0!**

3. EXPLANATION OF MESSAGE

a	**VIF** member number (1-127).
b	Controller (0 or 1).

4. SYSTEM RESPONSE

OK	Good. Message is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:VIF-EMVIU
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Loads the voiceband interface frame (VIF) and enables the multiple voiceband interface unit (VIU) alarm on the spare unit. This function allows a failure on the spare VIU following a failure on an in-service VIU to cause a multiple VIU alarm (F-level interrupt).

2. FORMAT

LOAD:VIF a,[**CONTR** b,]**EMVIU:0!**

3. EXPLANATION OF MESSAGE

a	**VIF** member number (1-127).
b	Controller (0 or 1).

4. SYSTEM RESPONSE

OK	Good. Message is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:VIF-ENICF
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Loads the voiceband interface frame (VIF) and enables the indicator check frame. This function enables the indicator check frame timing used to test voiceband interface unit (VIU) status indicators.

2. FORMAT

LOAD:VIF a,[**CONTR** b,]**ENICF:0!**

3. EXPLANATION OF MESSAGE

a	**VIF** member number (1-127).
b	Controller (0 or 1).

4. SYSTEM RESPONSE

OK	Good. Message is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:VIF-EPS
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Loads the voiceband interface frame (VIF) and enables the protection switch (EPS). This function resets the EPS flip-flop bit allowing subsequent autonomous protection switch operations to occur.

2. FORMAT

`LOAD:VIF` `a`**`,EPS:0!`**

3. EXPLANATION OF MESSAGE

`a`	**`VIF`** member number (1-127).

4. SYSTEM RESPONSE

`OK`	Good. Message is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:VIF-EQT
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Loads the voiceband interface frame (VIF) and enables quiet tone (EQT). This function resets the EQT flip-flop bit causing the digital signal generator to produce the all ones (midrange).

2. FORMAT

LOAD:VIF a,[**CONTR** b,]**EQT:0!**

3. EXPLANATION OF MESSAGE

a	**VIF** member number (1-127).
b	Controller (0 or 1).

4. SYSTEM RESPONSE

OK	Good. Message is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:VIF-ESM
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Loads the voiceband interface frame (VIF) and enables the select mode (ESM). This function sets the ESM flip-flop bit causing subsequent voiceband interface controller (VIC) orders to be executed by only one of the duplicated controllers.

2. FORMAT

LOAD:VIF a,[**CONTR** b,]**ESM:0!**

3. EXPLANATION OF MESSAGE

a	**VIF** member number (1-127).
b	Controller (0 or 1).

4. SYSTEM RESPONSE

OK	Good. Message is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:VIF-ETA
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Loads the voiceband interface frame (VIF) and enables the trunk audit. This function adjusts the voice frequency (VF) test-tone control circuits and the signal and distortion detectors to allow a trunk audit to be performed.

2. FORMAT

LOAD:VIF a,[**CONTR** b,]**ETA:0!**

3. EXPLANATION OF MESSAGE

a	**VIF** member number (1-127).
b	Controller (0 or 1).

4. SYSTEM RESPONSE

OK	Good. Message is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:VIF-ETSE
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Loads the voiceband interface frame (VIF) and enables the time slot exchange function. This function causes the voice frequency (VF) input to the trunk specified by parameter `c` to be time-slot exchanged and decoded on the trunk specified by parameter `e`. Also, the trunk specified by parameter `f` will be decoded onto the trunk specified by parameter `c`.

2. FORMAT

`LOAD:VIF` `a`**`,VIU`** `b`**`,ETSE (`**`c,d,e,f`**`):0!`**

3. EXPLANATION OF MESSAGE

`a`	**`VIF`** member number (1-127).
`b`	Voiceband interface unit (**`VIU`**) (0-7).
`c`	Specifies one of the two trunks on which the function is to be performed.
`d`	Must be set to the value of parameter `d` minus **`VIU`** loop delay of 2.
`e`	Specifies the other trunk upon which the function is to be performed.
`f`	Must be set to the value of parameter `f` minus **`VIU`** loop delay of 2.

4. SYSTEM RESPONSE

`OK`	Good. Message is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:VIF-EVICS
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Loads the voiceband interface frame (VIF) and enables voiceband interface controller (VIC) steering flip-flop bit on error source register (ESR). This function causes the ESR (R12, R13, R14, and R15) to be connected to the VIC error sources.

2. FORMAT

LOAD:VIF a,[**CONTR** b,]**EVICS:0!**

3. EXPLANATION OF MESSAGE

a	**VIF** member number (1-127).
b	Controller (0 or 1).

4. SYSTEM RESPONSE

OK	Good. Message is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:VIF-EVIUS
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Loads the voiceband interface frame (VIF) and enables voiceband interface unit (VIU) steering flip-flops on the error source register (ESR). This function causes the ESR (R12, R13, R14, and R15) to be connected to the insulated gate field effect transistor (IGFET) status memory for subsequent transferral of VIU status indicator information.

2. FORMAT

LOAD:VIF a,[**CONTR** b,]**EVIUS:0!**

3. EXPLANATION OF MESSAGE

a	**VIF** member number (1-127).
b	Controller (0 or 1).

4. SYSTEM RESPONSE

OK	Good. Message is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:VIF-EX
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Loads the Voiceband Interface Frame (VIF) and executes the VIF function.

2. FORMAT

LOAD:VIF a,[**CONTR** b,]**EX:**c**!**

3. EXPLANATION OF MESSAGE

a	**VIF** member number (1-127).
b	Controller (0-1).
c	One of the octal function codes listed in Table A.

4. SYSTEM RESPONSE

OK	Good. Message is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

CD-5G158-01, *Detailed Description of Function Codes*

SEE PROPRIETARY NOTICE ON COVER PAGE

TABLE A

VIC FUNCTION CODE DESCRIPTION
(**NOTE:** All numbers are decimal.)

MACRO NAME	FUNCTION CODE	ARGUMENTS R0	R1	R2	R8	R9	DESCRIPTION
ATA	207						Activate TRK Audit
BASM	212						By-Pass Auton. Memory FCN
CSM	224						Set F-Bit=1, Clear Others
C8C	12	-	-	-	-	40	Disable C9C Function
C9C	212	-	-	-	-	40	Decoder=9 Digits
DLFC0	11	-	-	7	-	200	Disable LFC0 Function
DLFC1	12	-	-	-	-	1	Disable Lo Freq EX-1
DLFC2	12	-	-	-	-	2	Disable Lo Freq EX-2
DMVIUA	16						Disable Multiple-VIU Alarm
DTSE	4	0	0	7	0	0	Disable ETSE Functions
EFL	203						Enable F-Level INT
EMVIUA	216						Enable Multiple-VIU Alarm
ENICF	206						Enable IND CHK Frame
EPS	10	-	-	-	-	8	Enable Protection Switch
EPUT	202						Enable Interject FF
EQT	12	-	-	-	-	64	Enable Quiet Tone In DSG
ESM	201						Enable Select Mode
ETA	205						Enable TRK Audit
ETSE	204	A	B	UNIT	A-T	B-T	TSE TRKS A&B. T=2
EVICS	225						Enable ESR to VIC DET
EVIUS	226						Enable ESR to Status MEM
EXOOF	215						EXER Out Of Frame
EXSIM	213						Exercise ST MEM MUX

SEE PROPRIETARY NOTICE ON COVER PAGE

TABLE A (*Continued*)

VIC FUNCTION CODE DESCRIPTION
(**NOTE:** All numbers are decimal.)

MACRO NAME	FUNCTION CODE	ARGUMENTS R0	R1	R2	R8	R9	DESCRIPTION
EXVIC	214	-	-	-	-	40	Exercise VIC Indicators
FA	212	-	-	UNIT	-	10	Flash CSB to A Side
FB	212	-	-	UNIT	-	20	Flash CSB to B Side
GAF	211	200	-	UNIT	-	10	Gate All TS Switch-facility
GAS	211	200	-	UNIT	-	4	Gate All TS Facility-Switch
GTF	211	TS	-	UNIT	-	10	Gate TS Switch-Facility
GTS	211	TS	-	UNIT	-	4	Gate TS Facility-Switch
IFL	3						Inhibit F-Level Int
INHICF	6						Inhibit IND CHK Frame
IPS	210	-	-	-	-	10	Inhibit Autonomous PR SW
IPUT	2						Inhibit Interject FF
ISM	1						Inhibit Select Mode
LAF	211	128	-	UNIT	-	1	Loop All TS-Facility
LAI	210	128	-	UNIT	-	1	Loop All TRKS @ VF Input
LAS	211	128	-	UNIT	-	2	Loop TS-Switch
LBS	210	-	-	UNIT	-	2	Loop Bit Stream Relay
LFC0	211	-	-	UNIT	-	200	Lo Freq Exerciser-0
LFC1	212	-	-	-	-	1	Lo Freq Exerciser-1
LFC2	212	-	-	-	-	2	Lo Freq Exerciser-2
LRSM	217	-	PAGE*				Load ESR From Status MEM
LTF	211	TS	-	UNIT	-	1	Loop TS Toward Facility
LTI	210	TRK	-	UNIT	-	1	Loop TRK AT VF Input

* Unit number left shifted five bits.

SEE PROPRIETARY NOTICE ON COVER PAGE

TABLE A (*Continued*)

VIC FUNCTION CODE DESCRIPTION
(**NOTE:** All numbers are decimal.)

MACRO NAME	FUNCTION CODE	ARGUMENTS R0	R1	R2	R8	R9	DESCRIPTION
LTS	211	TS	-	UNIT	-	2	Loop TS Toward Switch
PSW	210	-	-	UNIT	-	4	Protection Switch VIU
RC	233						Reset Lo Freq Clock
REFF	232						Reset VIU ENA FF'S
RESM	221	-	ADR				Load STA MEM Word Into R9
RESRV	227						Reset ESR Steer FF'S
RMW	212	-	-	-	-	100	Re-enable Milliwatt Tone
RSIEX	11						Rest ST MUX EX
RSM	223	-	PAGE*				Unfreeze Memory For 1 Page
RTA	5						Reset TRK Audit
RVICX	14	-	-	-	-	0	Reset VIC Exercisers
SAF	211	200	-	UNIT	-	40	DSG All TS Toward Facility
SAS	211	200	-	UNIT	-	22	DSG All TS Toward Switch
SEFF0	230						Set VIU Enable FF-0
SEFF1	231						Set VIU Enable FF-1
SVF0	234						Sel VF Tone On VIC0
SVF1	235						Sel VF Tone On VIC1

* Unit number left shifted five bits.

SEE PROPRIETARY NOTICE ON COVER PAGE

TABLE A (*Continued*)

VIC FUNCTION CODE DESCRIPTION
(**NOTE:** All numbers are decimal.)

MACRO NAME	FUNCTION CODE	ARGUMENTS R0	R1	R2	R8	R9	DESCRIPTION
STF	211	TS	-	UNIT	-	40	DSG TS Toward Facility
STS	211	TS	-	UNIT	-	22	DSG TS Toward Switch
UBASM	36						Undo BASM Function
UFA	10	-	-	7	-	10	Undo FA Function
UFB	10	-	-	7	-	22	Undo FB Function
UGAF	11	0	-	7	-	10	Undo GAF Function
UGAS	11	0	-	7	-	4	Undo GAS Function
UGTS	11	0	-	7	-	4	Undo GTS Function
UGTF	11	0	-	7	-	10	Undo GTF Function
ULAF	11	0	-	7	-	1	Undo LAF Function
ULAI	10	0	-	7	-	1	Unloop All TRKS @ VF Input
ULAS	11	0	-	7	-	2	Undo LAS Function
ULBS	10	-	-	7	-	2	Unloop Bit Stream Relay
ULCSB	212	-	-	UNIT	-	4	Unlock CSB
ULTF	11	0	-	7	-	1	Undo LTF Function
ULTI	10	0	-	7	-	1	Unloop TRK @ VF Input
ULTS	11	0	-	7	-	2	Undo LTS Function
UPSW	10	-	-	7	-	4	Return Spare To Normal
URSM	24						Undo RSM Function
USAF	11	0	-	7	-	40	Undo SAF Function
USAS	11	0	-	7	-	22	Undo SAS Function
USTF	11	0	-	7	-	40	Undo STF Function
USTS	11	0	-	7	-	22	Undo STS Function
WRSM	220	-	ADR	-	-		Datawrite Status MEM Word

* Unit number left shifted five bits.

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:VIF-EXOOF
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Loads the voiceband interface frame (VIF) and exercises out-of-frame indicator. This function forces a reframe in the timing receiver-digital. Out-of-frame and central control 0 (CC0) indicators should appear in the voiceband interface controller (VIC) error source register (ESR) after this function. This message causes F-level interrupts if VIC not pested.

2. FORMAT

LOAD:VIF a,[**CONTR** b,]**EXOOF:0!**

3. EXPLANATION OF MESSAGE

a	**VIF** member number (1-127).
b	Controller (0 or 1).

4. SYSTEM RESPONSE

OK	Good. Message is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:VIF-EXSIM
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Loads the voiceband interface frame (VIF) and exercises the status indicator multiplexer. This function forces each of the four status indicator multiplexer circuit packs to generate an alarm condition for each of its 48 inputs.

2. FORMAT

LOAD:VIF a,[**CONTR** b,]**EXSIM:0!**

3. EXPLANATION OF MESSAGE

a	**VIF** member number (1-127).
b	Controller (0 or 1).

4. SYSTEM RESPONSE

OK	Good. Message is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:VIF-EXVIC
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Loads the voiceband interface frame (VIF) and exercises voiceband interface controller (VIC) error indicators. This function will exercise the following indicators: TC0, TC1, TC2, TC3, CC0, CC2, and mmmux. This message causes F-level interrupts if VIC not pested.

2. FORMAT

LOAD:VIF a,[**CONTR** b,]**EXVIC:0!**

3. EXPLANATION OF MESSAGE

a	**VIF** member number (1-127).
b	Controller (0 or 1).

4. SYSTEM RESPONSE

OK	Good. Message is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:VIF-FA
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Loads the voiceband interface frame (VIF) and flashes to the A side (CONT0) of the timing bus. This function causes the clock and buffer on the specified voiceband interface unit (VIU) to receive on the A side of the duplicated timing bus from the voiceband interface controller (VIC). This message causes data path interruptions.

2. FORMAT

LOAD:VIF a**,VIU** b**,FA:0!**

3. EXPLANATION OF MESSAGE

a	**VIF** member number (1-127).
b	Controller (0-7).

4. SYSTEM RESPONSE

OK	Good. Message is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:VIF-FB
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Loads the voiceband interface frame (VIF) and flashes to the B side (CONT1) of the timing bus. This function causes the clock and buffer on the specified voiceband interface unit (VIU) to receive on the B side of the duplicated timing bus from the voiceband interface controller (VIC). This message causes data path interruptions.

2. FORMAT

LOAD:VIF a**,VIU** b**,FB:0!**

3. EXPLANATION OF MESSAGE

a	**VIF** member number (1-127).
b	**VIU** (0-7).

4. SYSTEM RESPONSE

OK	Good. Message is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

WARNING
INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

ID . . . . . LOAD:VIF-GAF
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

WARNING
This message affects service on all trunks served by the specified VIU.

1. PURPOSE

Loads the voiceband interface frame (VIF) and gates all the time slots toward facility. This function causes all time slots in the specified voiceband interface unit (VIU) to be gated across the access circuit toward the facility.

2. FORMAT

LOAD:VIF a,**VIU** b,**GAF:0!**

3. EXPLANATION OF MESSAGE

a **VIF** member number (1-127).

b **VIU** (0-7).

4. SYSTEM RESPONSE

OK Good. Message is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

WARNING
INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

ID . . . . . LOAD:VIF-GAS
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

WARNING
This message affects service on those trunks served by the specified VIU.

1. PURPOSE

Loads the voiceband interface frame (VIF) and gates all time slots toward the switch. This function causes all time slots in the specified voiceband interface unit (VIU) to be gated across the access circuit toward the switch.

2. FORMAT

LOAD:VIF a**,VIU** b**,GAS:0!**

3. EXPLANATION OF MESSAGE

a **VIF** member number (1-127).

b **VIU** (0-7).

4. SYSTEM RESPONSE

OK Good. Message is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

WARNING
INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

ID . . . . . LOAD:VIF-GTF
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

WARNING
This message affects service on the specified time slot associated with the specified VIU.

1. PURPOSE

Loads the voiceband interface frame (VIF) and gates a time slot toward the facility. This function causes the specified time slot in the specified voiceband interface unit (VIU) to be gated across the access circuit toward the facility.

2. FORMAT

LOAD:VIF a**,VIU** b**,GTF:N!**

3. EXPLANATION OF MESSAGE

a **VIF** member number (1-127).

b **VIU** (0-7).

4. SYSTEM RESPONSE

OK Good. Message is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

WARNING
INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

ID . . . . . LOAD:VIF-GTS
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

WARNING
This message affects service on the specified time slot associated with the specified VIU.

1. PURPOSE

Loads the voiceband interface frame (VIF) and gates a time slot toward the switch. This function causes the specified time slot in the specified voiceband interface unit (VIU) to be gated across the access circuit toward the switch.

2. FORMAT

LOAD:VIF a**,VIU** b**,GTS:N!**

3. EXPLANATION OF MESSAGE

a **VIF** member number (1-127).

b **VIU** (0-7).

4. SYSTEM RESPONSE

OK Good. Message is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:VIF-INHIC
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Loads the voiceband interface frame (VIF) and inhibits the indicator check frame. This function will inhibit indicator check frame timing. The inhibiting function requires 6 ms. to settle. This function will take up to 4 seconds to set a flip-flop bit. The indicators MMICF and MMP2, which monitor this flip-flop, will thus not be valid until a 4-second PUWAIT is incorporated.

2. FORMAT

LOAD:VIF a,[**CONTR** b,]**INHIC:0!**

3. EXPLANATION OF MESSAGE

a	**VIF** member number (1-127).
b	Controller (0 or 1).

4. SYSTEM RESPONSE

OK	Good. Message is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:VIF-IPS
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

To load the voiceband interface frame (VIF) and inhibit protection switch. This function inhibits all future autonomous protection switching operations.

2. FORMAT

LOAD:VIF a,[**CONTR** b,]**IPS:0!**

3. EXPLANATION OF MESSAGE

a	**VIF** member number (1-127).
b	Controller (0 or 1).

4. SYSTEM RESPONSE

OK	Good. Message is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:VIF-ISM
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Loads the voiceband interface frame (VIF) and inhibits the select mode. This function resets the external sanity monitor (ESM) flip-flop bit in both voiceband interface controller (VIC) controllers to allow subsequent orders operated by both VIC halves. This will cause ESM mismatch unless pested.

2. FORMAT

LOAD:VIF a,[**CONTR** b,]**ISM:0!**

3. EXPLANATION OF MESSAGE

a	**VIF** member number (1-127).
b	Controller (0 or 1).

4. SYSTEM RESPONSE

OK	Good. Message is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

WARNING
INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

ID . . . . . LOAD:VIF-LAF
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

WARNING
This message affects service on all trunks served by the specified VIU.

1. PURPOSE

Loads the voiceband interface frame (VIF) and loops all of the time slots toward the facility. This function causes all 128 time slots on the specified voiceband interface unit (VIU) to be digitally looped toward the facility. The looping occurs in the access circuit of the VIU.

2. FORMAT

LOAD:VIF a,**VIU** b,**LAF:0!**

3. EXPLANATION OF MESSAGE

a **VIF** member number (1-127).

b **VIU** (0-7).

4. SYSTEM RESPONSE

OK Good. Message is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

WARNING
INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

ID . . . . . LOAD:VIF-LAI
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

WARNING
This message affects service on all trunks served by the specified VIU.

1. PURPOSE

Loads the voiceband interface frame (VIF) and loops all trunks at the voice frequency (VF) input. This function actuates all VF protection switch relays, causing the 120 4-wire service circuits on the voiceband interface unit (VIU) to be disconnected from the facility and looped toward the switch.

2. FORMAT

LOAD:VIF a,**VIU** b,**LAI:0!**

3. EXPLANATION OF MESSAGE

a **VIF** member number (1-127).

b **VIU** (0-7).

4. SYSTEM RESPONSE

OK Good. Message is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

WARNING
INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

ID . . . . . LOAD:VIF-LAS
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

WARNING
This message affects service on all trunks served by the specified VIU.

1. PURPOSE

Loads the voiceband interface frame (VIF) and loops all of the time slots toward the switch. This function causes all 128 time slots on the specified voiceband interface unit (VIU) to be digitally looped toward the switch. The looping occurs at the access circuit of the VIU.

2. FORMAT

LOAD:VIF a,**VIU** b,**LAS:0!**

3. EXPLANATION OF MESSAGE

a	**VIF** member number (1-127).
b	**VIU** (0-7).

4. SYSTEM RESPONSE

OK	Good. Message is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

WARNING
INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

ID . . . . . LOAD:VIF-LBS
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

WARNING
This message affects service on all trunks served by the specified VIU.

1. PURPOSE

Loads the voiceband interface frame (VIF) and loops the bit stream. This function actuates the pulse code modulation (PCM) protection switch relay disconnecting the specified voiceband interface unit (VIU) from the switch and looping it toward the facility.

2. FORMAT

LOAD:VIF a,**VIU** b,**LBS:0!**

3. EXPLANATION OF MESSAGE

a	**VIF** member number (1-127).
b	**VIU** (0-7).

4. SYSTEM RESPONSE

OK	Good. Message is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID LOAD:VIF-LFC0
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Loads the voiceband interface frame (VIF) and low frequency control 0 (LFC0). This function sets the LFC0 flip-flop bit for the specified voiceband interface unit (VIU) causing the carrier failure alarm of the pulse code modulation (PCM) dual-line driver to be reset.

2. FORMAT

LOAD:VIF a,**VIU** b,**LFC0:0!**

3. EXPLANATION OF MESSAGE

a	**VIF** member number (1-127).
b	**VIU** (0 or 1).

4. SYSTEM RESPONSE

OK	Good. Message is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

WARNING
INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

ID LOAD:VIF-LFC1
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

WARNING
This message causes multiple VIU alarms and should not be used in a fully operating office.

1. PURPOSE

Loads the voiceband interface frame (VIF) and low frequency control 1 (LFC1). This function sets the LFC1 bit on the voiceband interface unit (VIU) control bus causing the signal and distortion indicators on all VIUs to be exercised.

2. FORMAT

LOAD:VIF a,[**CONTR** b,]**LFC1:0!**

3. EXPLANATION OF MESSAGE

a	**VIF** member number (1-127).
b	Controller (0 or 1).

4. SYSTEM RESPONSE

OK	Good. Message is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

WARNING
INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

ID LOAD:VIF-LFC2
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

WARNING
This message causes multiple VIU failure and should not be used in a fully operating office.

1. PURPOSE

Loads the voiceband interface frame (VIF) and low frequency control 2 (LFC2). This function sets the LFC2 bit on the voiceband interface unit (VIU) control bus causing the signal indicators and the carrier failure on all VIUs to be exercised.

2. FORMAT

LOAD:VIF a,[**CONTR** b,]**LFC2:0!**

3. EXPLANATION OF MESSAGE

a	**VIF** member number (1-127).
b	Controller (0 or 1).

4. SYSTEM RESPONSE

OK	Good. Message is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:VIF-LR
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Loads the voiceband interface frame (VIF) and the voiceband interface controller (VIC) register. This function loads data into the specified register. Writing registers may destroy other functions. Writing R10, R12, R13, R14, or R15 may cause F-level interrupts. Writing R4 or R5 will cause voiceband interface unit (VIU) to protection switch.

2. FORMAT

LOAD:VIF a,[**CONTR** b,]**LR** c:d!

3. EXPLANATION OF MESSAGE

a	**VIF** member number (1-127).
b	Controller (0-1).
c	Register to be written.
d	Data to be loaded into register.

4. SYSTEM RESPONSE

OK	Good. Message is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:VIF-LRSM
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Loads the voiceband interface frame (VIF) and load register from status. This function causes the 32 nonclear bits for the voiceband interface unit (VIU) specified to be loaded into R12, R13, R14, and R15. Voiceband interface controller (VIC) should be pested and an EVIUS done before this function.

2. FORMAT

LOAD:VIF a,**VIU** b,**LRSM:0!**

3. EXPLANATION OF MESSAGE

a	**VIF** member number (1-127).
b	**VIU** (0-7).

4. SYSTEM RESPONSE

OK	Good. Message is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:VIF-LTF
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Loads the voiceband interface frame (VIF) and loops a single time slot toward the facility. This function causes a single trunk to be digitally looped toward the facility in the voiceband interface unit (VIU) specified. The looping occurs in the access circuit of the VIU.

2. FORMAT

LOAD:VIF a,**VIU** b,**LTF**:c!

3. EXPLANATION OF MESSAGE

a	**VIF** member number (1-127).
b	**VIU** (0-7).
c	Time slot to be looped.

4. SYSTEM RESPONSE

OK	Good. Message is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

WARNING
INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

ID . . . . . LOAD:VIF-LTI
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

WARNING
This message affects calls on the trunk specified.

1. PURPOSE

Loads the voiceband interface frame (VIF) and loops a trunk at the voice frequency (VF) input. This function actuates a specified single VF protection switching relay causing the 4-wire circuit to be disconnected from the facility and looped toward the switch.

2. FORMAT

LOAD:VIF a,**VIU** b,**LTI**:c!

3. EXPLANATION OF MESSAGE

a	**VIF** member number (1-127).
b	Voiceband interface unit (**VIU**) (0-7).
c	Trunk number.

4. SYSTEM RESPONSE

OK	Good. Message is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

WARNING
INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

ID . . . . . LOAD:VIF-LTS
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

WARNING
This message affects calls on the specified trunk.

1. PURPOSE

Loads the voiceband interface frame (VIF) and loops a single time slot toward the facility. This function causes a single time slot specified to be digitally looped toward the switch in the specified voiceband interface unit (VIU).

2. FORMAT

LOAD:VIF a,**VIU** b,**LTS:**c!

3. EXPLANATION OF MESSAGE

a	**VIF** member number (1-127).
b	**VIU** (0-7).
c	Time slot to be looped.

4. SYSTEM RESPONSE

OK	Good. Message is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:VIF-RC
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Loads the voiceband interface frame (VIF) and resets the low-frequency clock. This function resets timing circuits in repetition frequencies less that 8 KHz in both controllers. This message causes data path interruptions.

2. FORMAT

LOAD:VIF a,[**CONTR** b,]**RC:0!**

3. EXPLANATION OF MESSAGE

a	**VIF** member number (1-127).
b	Controller (0 or 1).

4. SYSTEM RESPONSE

OK	Good. Message is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:VIF-REFF
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Loads the voiceband interface frame (VIF) and resets the control bus flip-flops. This function resets voiceband interface unit (VIU) control buses FF0 and FF1, cutting off all control bus information. This message will cause indicator check frame alarms in the status memory if IHCF is not inhibited.

2. FORMAT

LOAD:VIF a,[**CONTR** b,]**REFF:0!**

3. EXPLANATION OF MESSAGE

a	**VIF** member number (1-127).
b	Controller (0 or 1).

4. SYSTEM RESPONSE

OK	Good. Message is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:VIF-RESM
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Loads the voiceband interface frame (VIF) and reads status memory word. This function reads the data at the status memory word address specified and stores this information in R9.

2. FORMAT

LOAD:VIF a,[**CONTR** b,]**RESM:**c**!**

3. EXPLANATION OF MESSAGE

a	**VIF** member number (1-127).
b	Controller (0 or 1).
c	Address to be read (0-225).

4. SYSTEM RESPONSE

OK	Good. Message is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:VIF-RESR
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Loads the voiceband interface frame (VIF) and resets the error source register (ESR) steering flip-flop bit. This function resets the error source register steering flip-flops causing the ESR inputs to be cut off.

2. FORMAT

LOAD:VIF a,[**CONTR** b,]**RESR:0!**

3. EXPLANATION OF MESSAGE

a	**VIF** member number (1-127).
b	Controller (0 or 1).

4. SYSTEM RESPONSE

OK	Good. Message is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:VIF-RMW
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Loads the voiceband interface frame (VIF) and re-enables the signal generator. This function resets the EQT flip-flop bit, restoring the output of the digital signal generator to its normal milliwatt signal.

2. FORMAT

LOAD:VIF a,[**CONTR** b,]**RMW:0!**

3. EXPLANATION OF MESSAGE

a	**VIF** member number (1-127).
b	Controller (0 or 1).

4. SYSTEM RESPONSE

OK	Good. Message is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:VIF-RSIEX
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Loads the voiceband interface frame (VIF) and reset status indicator multiplexer exerciser. This function will reset the status multiplex exerciser.

2. FORMAT

LOAD:VIF a,[**CONTR** b,]**RSIEX:0!**

3. EXPLANATION OF MESSAGE

a	**VIF** member number (1-127).
b	Controller (0 or 1).

4. SYSTEM RESPONSE

OK	Good. Message is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:VIF-RSM
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Loads the voiceband interface frame (VIF) and resets status memory. This function clears the freeze bit in all 32 status memory words corresponding to the voiceband interface unit (VIU) specified.

2. FORMAT

LOAD:VIF a**,VIU** b**,RSM:0!**

3. EXPLANATION OF MESSAGE

a	**VIF** member number (1-127).
b	**VIU** (0-7).

4. SYSTEM RESPONSE

OK	Good. Memory is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:VIF-RTA
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Loads the voiceband interface frame (VIF) and resets trunk audit. This function returns the voice frequency (VF) test tone control circuit to its normal state and allows normal signal and distortion testing of the voiceband interface units (VIUs) to proceed.

2. FORMAT

LOAD:VIF a,[**CONTR** b,]**RTA:0!**

3. EXPLANATION OF MESSAGE

a	**VIF** member number (1-127).
b	Controller (0 or 1).

4. SYSTEM RESPONSE

OK	Good. Message is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:VIF-RVICX
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Loads the voiceband interface frame (VIF) and resets voiceband interface controller (VIC) exercisers. This function will reset the VIC exercise functions set by the EXVIC function.

2. FORMAT

LOAD:VIF a,[**CONTR** b,]**RVICX:0!**

3. EXPLANATION OF MESSAGE

a	**VIF** member number (1-127).
b	Controller (0 or 1).

4. SYSTEM RESPONSE

OK	Good. Message is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

WARNING
INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

ID . . . . . LOAD:VIF-SAF
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

WARNING
This message affects service on those trunks served by the specified VIU.

1. PURPOSE

Loads the voiceband interface frame (VIF) and applies digital signal generator on all time slots toward facility. This function causes the digital signal generator to be gated toward the facility on all time slots in the voiceband interface unit (VIU) specified.

2. FORMAT

LOAD:VIF a**,VIU** b**,SAF:0!**

3. EXPLANATION OF MESSAGE

a **VIF** member number (1-127).

b **VIU** (0-7).

4. SYSTEM RESPONSE

OK Good. Message is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

WARNING
INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

ID . . . . . LOAD:VIF-SAS
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

WARNING
This message affects service on those trunks served by the specified VIU.

1. PURPOSE

Loads the voiceband interface frame (VIF) and applies digital signal on all time slots toward the switch. This function causes the digital signal generator to be gated toward the switch on all time slots of the voiceband interface unit (VIU) specified.

2. FORMAT

LOAD:VIF a,**VIU** b,**SAS:0!**

3. EXPLANATION OF MESSAGE

a **VIF** member number (1-127).

b **VIU** (0-7).

4. SYSTEM RESPONSE

OK Good. Message is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID LOAD:VIF-SEFF0
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Loads the voiceband interface frame (VIF) and selects flip-flop bit 0 for voiceband interface unit (VIU) control bus. This function causes the VIUs to receive on the control bus from controller 0.

2. FORMAT

LOAD:VIF a,[**CONTR** b,]**SEFF0:0!**

3. EXPLANATION OF MESSAGE

a	**VIF** member number (1-127).
b	Controller (0 or 1).

4. SYSTEM RESPONSE

OK	Good. Message is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID LOAD:VIF-SEFF1
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Loads the voiceband interface frame (VIF) and select flip-flop bit 1 for the voiceband interface unit (VIU) control bus. This function causes the VIUs to receive on the control bus from controller 1.

2. FORMAT

LOAD:VIF a,[**CONTR** b,]**SEFF1:0!**

3. EXPLANATION OF MESSAGE

a	**VIF** member number (1-127).
b	Controller (0 or 1).

4. SYSTEM RESPONSE

OK	Good. Message is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

WARNING
INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

ID . . . . . LOAD:VIF-STF
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

WARNING
This message affects calls on the specified time slot associated with the specified VIU.

1. PURPOSE

Loads the voiceband interface frame (VIF) and applies the digital signal generator on a time slot toward the facility. This function causes the digital signal generator to be gated toward the facility on a time slot specified in the voiceband interface unit (VIU) specified.

2. FORMAT

LOAD:VIF a,**VIU** b,**STF:**c!

3. EXPLANATION OF MESSAGE

a	**VIF** member number (1-127).
b	**VIU** (0-7).
c	Time slot specified.

4. SYSTEM RESPONSE

OK	Good. Message is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

WARNING
INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

ID . . . . . LOAD:VIF-STS
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

WARNING
This message affects calls on the specified time slot associated with the specified VIU.

1. PURPOSE

Loads the voiceband interface frame (VIF) and applies a digital signal on a time slot toward the switch. This function causes the digital signal generator to be gated toward the switch on the time slot specified in the voiceband interface unit (VIU) specified.

2. FORMAT

LOAD:VIF a,**VIU** b,**STS:**c!

3. EXPLANATION OF MESSAGE

a	**VIF** member number (1-127).
b	**VIU** (0-7).
c	Time slot specified.

4. SYSTEM RESPONSE

OK	Good. Message is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID LOAD:VIF-SVF0
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Loads the voiceband interface frame (VIF) and select voice frequency tone generator from voiceband interface controller (VIC) 0. This function causes a relay to transfer the source of the 299.07-Hz test tone from controller 1 to controller 0.

2. FORMAT

LOAD:VIF a,[**CONTR** b,]**SVF0:0!**

3. EXPLANATION OF MESSAGE

a	**VIF** member number (1-127).
b	Controller (0 or 1).

4. SYSTEM RESPONSE

OK	Good. Message is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID LOAD:VIF-SVF1
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Loads the voiceband interface frame (VIF) and select voice frequency (VF) tone generator from voiceband interface controller (VIC) 1. This function causes a relay to transfer the source of the 299.07-Hz test tone from controller 0 to controller 1.

2. FORMAT

LOAD:VIF a,[**CONTR** b,]**SVF1:0!**

3. EXPLANATION OF MESSAGE

a	**VIF** member number (1-127).
b	Controller (0 or 1).

4. SYSTEM RESPONSE

OK	Good. Message is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:VIF-UFA
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Loads the voiceband interface frame (VIF) and undoes flash A (FA). This function resets the FA flip-flop bit allowing the clock select its source of clock.

2. FORMAT

LOAD:VIF a,[**CONTR** b,]**UFA:0!**

3. EXPLANATION OF MESSAGE

a	**VIF** member number (1-127).
b	Controller (0 or 1).

4. SYSTEM RESPONSE

OK	Good. Message is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:VIF-UFB
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Loads the voiceband interface frame (VIF) and undoes flash B (FB). This function resets the FB flip-flop bit allowing the clock select and buffer to autonomously select its source of clock.

2. FORMAT

LOAD:VIF a,[**CONTR** b,]**UFB:0!**

3. EXPLANATION OF MESSAGE

a	**VIF** member number (1-127).
b	A digit (0 or 1).

4. SYSTEM RESPONSE

OK	Good. Message is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:VIF-UGAF
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Loads the voiceband interface frame (VIF) and undoes the gate all toward the facility (GAF). This function resets the GAF flip-flop bit, returning control of time slots to the autonomous voiceband interface controller (VIC) control logic.

2. FORMAT

LOAD:VIF a,[**CONTR** b,]**UGAF:0!**

3. EXPLANATION OF MESSAGE

a	**VIF** member number (1-127).
b	Controller (0 or 1).

4. SYSTEM RESPONSE

OK	Good. Message is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:VIF-UGAS
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Loads the voiceband interface frame (VIF) and undoes the gate all toward switch (GAS). This function resets the GAS flip-flop bit, returning control of the time slots to the autonomous voiceband interface controller (VIC) control logic.

2. FORMAT

LOAD:VIF a,[**CONTR** b,]**UGAS:0!**

3. EXPLANATION OF MESSAGE

a	**VIF** member number (1-127).
b	Controller (0 or 1).

4. SYSTEM RESPONSE

OK	Good. Message is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:VIF-ULAF
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Loads the voiceband interface frame (VIF) and undoes the loop all toward the facility (LAF). This function resets the LAF flip-flop bit, restoring the time slots to their normal unlooped configuration.

2. FORMAT

LOAD:VIF a,[**CONTR** b,]**ULAF:0!**

3. EXPLANATION OF MESSAGE

a	**VIF** member number (1-127).
b	Controller (0 or 1).

4. SYSTEM RESPONSE

OK	Good. Message is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:VIF-ULAI
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Loads the voiceband interface frame (VIF) and unloops all trunks at the voice frequency (VF) input. This function resets the LAI flip-flop bit, causing the LAI loop to be disabled.

2. FORMAT

LOAD:VIF a,[**CONTR** b,]**ULAI:0!**

3. EXPLANATION OF MESSAGE

a	**VIF** member number (1-127).
b	Controller (0 or 1).

4. SYSTEM RESPONSE

OK	Good. Message is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:VIF-ULAS
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Loads the voiceband interface frame (VIF) and undoes the loop all toward the switch (LAS). This function resets the LAS flip-flop bit, restoring the time slots to their normal unlooped configuration.

2. FORMAT

LOAD:VIF a,[**CONTR** b,]**ULAS:0!**

3. EXPLANATION OF MESSAGE

a	**VIF** member number (1-127).
b	Controller (0 or 1).

4. SYSTEM RESPONSE

OK	Good. Message is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:VIF-ULBS
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Loads the voiceband interface frame (VIF) and unloop bit stream (LBS). This function resets the LBS flip-flop bit, causing the coaxial cable LBS loop to be disabled.

2. FORMAT

LOAD:VIF a,[**CONTR** b,]**ULBS:0!**

3. EXPLANATION OF MESSAGE

a	**VIF** member number (1-127).
b	Controller (0 or 1).

4. SYSTEM RESPONSE

OK	Good. Message is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:VIF-ULCSB
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Loads the voiceband interface frame (VIF) and unlocks the clock select and buffer. This function unlocks the clock select and buffer (CSB) on the specified voiceband interface unit (VIU) following subsequent autonomous CSB switch overs.

2. FORMAT

LOAD:VIF a**,VIU** b**,ULCSB:0!**

3. EXPLANATION OF MESSAGE

a	**VIF** member number (1-127).
b	Controller (0 or 1).

4. SYSTEM RESPONSE

OK	Good. Message is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:VIF-ULTF
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Loads the voiceband interface frame (VIF) and undoes loop trunk toward facility (LTF). This function resets the LTF flip-flop bit, causing the trunk to be restored to its unlooped configuration.

2. FORMAT

LOAD:VIF a,[**CONTR** b,]**ULTF:0!**

3. EXPLANATION OF MESSAGE

a	**VIF** member number (1-127).
b	Controller (0 or 1).

4. SYSTEM RESPONSE

OK	Good. Message is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:VIF-ULTS
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Loads the voiceband interface frame (VIF) and undoes loop trunk toward switch (LTS). This function resets the LTS flip-flop bit, causing the time slot to be restored to its normal unlooped configuration.

2. FORMAT

LOAD:VIF a,[**CONTR** b,]**ULTS:0!**

3. EXPLANATION OF MESSAGE

a	**VIF** member number (1-127).
b	Controller (0 or 1).

4. SYSTEM RESPONSE

OK	Good. Message is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:VIF-UPSW
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Loads the voiceband interface frame (VIF) and undoes the protection switch. This function returns the spare voiceband interface unit (VIU) to its normal position and resets the spare assignment register R5 to its normal state. This message causes data path interruptions.

2. FORMAT

LOAD:VIF a,[**CONTR** b,]**UPSW:0!**

3. EXPLANATION OF MESSAGE

a	**VIF** member number (1-127).
b	Controller (0 or 1).

4. SYSTEM RESPONSE

OK	Good. Message is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:VIF-URSM
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Loads the voiceband interface frame (VIF) and undoes the reset status memory (RSM). This function resets the RSM flip-flop bit, allowing subsequent freezing of status memory words to occur.

2. FORMAT

LOAD:VIF a,[**CONTR** b,]**URSM:0!**

3. EXPLANATION OF MESSAGE

a	**VIF** member number (1-127).
b	Controller (0 or 1).

4. SYSTEM RESPONSE

OK	Good. Message is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:VIF-USAF
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Loads the voiceband interface frame (VIF) and undoes the digital signal generator function. This function resets the SAF flip-flop bit, removing the digital signal generator from the time slots.

2. FORMAT

`LOAD:VIF` `a`**`,USAF:0!`**

3. EXPLANATION OF MESSAGE

`a`	**`VIF`** member number (1-127).

4. SYSTEM RESPONSE

`OK`	Good. Message is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:VIF-USAS
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Loads the voiceband interface frame (VIF) and undoes the digital signal generator from time slot. This function resets the SAS flip-flop bit, removing the digital signal generator from the time slots.

2. FORMAT

LOAD:VIF a,[**CONTR** b,]**USAS:0!**

3. EXPLANATION OF MESSAGE

a	**VIF** member number (1-127).
b	Controller (0 or 1).

4. SYSTEM RESPONSE

OK	Good. Message is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:VIF-UUSCB
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Loads the voiceband interface frame (VIF) and undoes the unlock clock select and buffer (CSB). This function undoes the unlock of the CSB on the voiceband interface unit (VIU) specified following subsequent autonomous CSB switch overs.

2. FORMAT

LOAD:VIF a**,VIU** b**,UUSCB:0!**

3. EXPLANATION OF MESSAGE

a	**VIF** member number (1-127).
b	**VIU** (0-7).

4. SYSTEM RESPONSE

OK	Good. Message is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:VIF-VI
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Loads and initializes the voiceband interface frame (VIF).

2. FORMAT

LOAD:VIF a,[**CONTR** b,]**VI:0!**

3. EXPLANATION OF MESSAGE

a	**VIF** member number (1-127).
b	Controller (0 or 1).

4. SYSTEM RESPONSE

OK	Good. Message is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:VIF-WRSM
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Loads the voiceband interface frame (VIF) and writes the status memory word. This function causes the contents of the data parameter to be written into the insulated gate field effect transistor (IGFET) status memory word specified by the address parameter.

2. FORMAT

LOAD:VIF a,[**CONTR** b,]**WRSM** c:d!

3. EXPLANATION OF MESSAGE

a	**VIF** member number (1-127).
b	Controller (0 or 1).
c	Address parameter of IGFET status memory.
d	Data parameter to be written.

4. SYSTEM RESPONSE

OK	Good. Message is correct.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:XS
WORK CENTER . . MOC
GENERIC . . . . . 4E21 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Causes the data given in the data field to be written into the designated location(s) of main memory. If the **INC** keyword appears in the data field, then the following data will be added to the data currently in the designated location(s). This function may be used to alter non-hashed data or to temporarily alter hashed data. If **SIZE** and **DISP** are specified, only data in the corresponding mask will be altered. A maximum of 128 locations may be altered.

Format [1] is used to perform **LOAD** on base level.
Format [2] is used to perform **LOAD** on G level as part of a generic utility flag (see the WHEN:[X]ADR input message).

2. FORMAT

[1]
```
LOAD:XS,{[XSINDIR a,ID b,]{ADR c|XADR d}}
[,INC e]
[,SIZE f,DISP g]
[,L h]
:
{i|INC j}!
```

[2]
```
LOAD:XS,{[XSINDIR a[,ID b,]]{ADR c|XADR d}
|XSINDIR a,kREG}
[,INC e]
[,SIZE f,DISP g]
[,L h]
:
{i|INC j}!
```

3. EXPLANATION OF MESSAGE

XS Extended nonsecure call store.

a Number of levels of indirect addressing (0 - 2). Default value is 0. See NOTES 1 and 2.

b File system ID tag. (Must be in file segments 1 through 3 since this is used for extended memory access.)

c Eight digit octal address. Address bits that are not specified will be zero filled but bits 23-29, transition address register (TAR), will always be set to ones. Used with Extended Nonsecure Call Store indirectness (XSINDIR).

SEE PROPRIETARY NOTICE ON COVER PAGE

d	Ten digit address. Upper bits that are not specified will be zero filled. Default type is octal.
e	Increment (-17777 to +17777) added to address after all levels of indirectness have been calculated. Default value is 0. Default type is octal.
f	Size of mask (1-24). Default value is 24. Default type is decimal.
g	Displacement of mask (0-23). Default value is 0. Default type is decimal.
h	Number of locations to be written (1-128). Default value is 1. Default type is decimal.
i	Data to be written (0-77777777). Default type is octal.
j	Data to be added to current value in memory (0-77777777). Default type is octal.
k	One of the following lists of central control (CC) register mnemonics: B, F, G, J, K, L, X, Y, Z. This option is meaningful only after a `WHEN:ADR` or `WHEN:XADR` input message with the `ADR` or `XADR` keyword.

NOTE 1: **`XSINDIR`** `NUM,`**`ID`** `TAG,[`**`X`**`]`**`ADR`** `NUM` input (Base and G-Level):
The contents of the specified address will be used as the disk offset along with the ID tag to determine the extended store address.

NOTE 2: [**`XSINDIR`** `NUM,x`**`REG`**] or [**`XSINDIR`** `NUM,[`**`X`**`]`**`ADR`** `NUM`] input (G-Level only):
The contents of the register or address specified MUST be a window address. The window for this window address must have been previously enabled in order to access the extended store address.

4. SYSTEM RESPONSE

`?I,CODE 031`	Identification field contains an error. **`UMEM`** number specified is not 0, 1, 2, 3, 4, 5, 6, or 7.
`?I,CODE 035`	Identification field contains an error. Number of words to be written exceeds 128.
`?I,CODE 042`	Identification field contains an error. Attempt to write active central control (CC) buffer bus location.
`?I,CODE 043`	Identification field contains an error. Address increment exceeds O'17777.
`?I,CODE 044`	Identification field contains an error. Mask specified by **`SIZE`** and **`DISP`** is invalid. (**`SIZE`** + **`DISP`** > D'24 is invalid).
`?I,CODE 118`	Identification field contains an error. Keyword **`ADR`** is invalid for accessing extended store.
`?I,CODE 119`	Identification field contains an error. Keyword **`INDIR`** is invalid for accessing extended store.

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`?R,DPLX FAIL`	Insufficient system Resources are available to determine the validity of the message. Generic utility program (GULP) cannot be paged to parse the message because the file system is duplex failed.
`NG,CODE 125`	No Good. Invalid **`ID`** tag for accessing extended store.
`NG,CODE 188`	No Good. Address specified is not equipped.
`PF,CODE 050`	Printout will conditionally follow. This acknowledgement is used if file system is duplex failed and GULP is being paged from tape.
`PF,CODE 091`	Printout will conditionally follow. If message is in a utility flag or is within a utility data set, printout will follow only if flag is encountered or if data is executed.
`RL,CODE 180`	Retry Later. Execution of GULP function is in progress.
`RL,CODE 181`	Retry Later. Message processing in progress.
`RL,CODE 182`	Retry Later. Data set input mode in progress on another channel.
`RL,CODE 183`	Retry Later. Data set execution is in progress.
`RL,CODE 185`	Retry Later. No general buffer table (GBT) available or failure to page in GULP.

NOTE: A `REPT:UTIL` message may follow.

5. REFERENCES

PIDENTs
GULPUTPP
GULPUTXP
GULRUTCR

Input Messages
`WHEN:ADR`
`WHEN:XADR`

Output Messages
`LOAD:XS`
`REPT:UTIL`

SEE PROPRIETARY NOTICE ON COVER PAGE

WARNING
INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

ID LOAD:XTSI-D3U
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E22 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

WARNING

1. PURPOSE

Loads the Internal Registers (**IREG**) of the specified Digital Signal Level 3 Unit (**D3U**), in a particular Expanded Time Slot Interchange (**XTSI**) frame.

2. FORMAT

LOAD:XTSI a,**D3U** b,**IREG** c:d[,**MSK** e]!

3. EXPLANATION OF MESSAGE

a — **XTSI** member number (0 - 63).

b — **D3U** unit number (0 - 7).

c — Internal register number:

- 0 — INVALID - Software Status register (D3USTATUS).
- 1 — INVALID - Hardware Status register (D3USTAT).
- 2 — INVALID - Error Source register (D3UESR).
- 3 — D3UCTL - Control register bits 0-23.
- 4 — D3UEXR - Exercise register bits 0-23.

d — Data to be loaded into register.

e — Mask through which data is loaded. Default mask is all ones.

4. SYSTEM RESPONSE

PF,CODE 091 — Printout Follows. Printout will conditionally follow.

NOTE: If the member number variable is a Time Slot Interchange (TSI), the echo message will be: LOAD:TSI n,...NOT STARTED - ILLEGAL MESSAGE

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

Input Message
DUMP:XTSI-D3U

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Messages

```
DUMP:XTSI-D3U
LOAD:XTSI-D3U
```

SEE PROPRIETARY NOTICE ON COVER PAGE

WARNING
INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

ID . . . . . LOAD:XTSI-IBU
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E24 Rel. 2 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

WARNING

1. PURPOSE

Loads the Internal Registers (**IREG**) of the specified In-Band Unit (**IBU**), in a particular Expanded Time Slot Interchange (**XTSI**) frame.

2. FORMAT

LOAD:XTSI a,**IBU** b,**IREG** c:d[,**MSK** e]!

3. EXPLANATION OF MESSAGE

a — **XTSI** member number (0-63).

b — **IBU** number (0).

c — Internal register number:

- 0 — INVALID - **IBU** Software Status register (IBUSTATUS).
- 1 — INVALID - **IBU** Hardware Status register (IBUSTAT).
- 2 — INVALID - **IBU** Error Source register (IBUESR).
- 3 — IBUCTL - **IBU** control register bits 0-23.
- 4 — IBUEXR - **IBU** exercise register bits 0-23.

d — Data to be loaded into register.

e — Mask through which data is loaded. Default mask is all ones.

4. SYSTEM RESPONSE

PF,CODE 091 — Printout Follows. Printout will conditionally follow.

NOTE: If the member number variable is a Time Slot Interchange (TSI), the echo message will be: LOAD:TSI n,...NOT STARTED - ILLEGAL MESSAGE

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

Input Message
DUMP:XTSI-IBU

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Messages

```
DUMP:XTSI-IBU
LOAD:XTSI-IBU
```

SEE PROPRIETARY NOTICE ON COVER PAGE

WARNING
INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

ID . . . . . LOAD:XTSI-IREG
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E24 Rel. 2 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

WARNING

1. PURPOSE

Loads the specified Expanded Time Slot Interchange (**XTSI**) Internal Register (**IREG**), or Critical Register (**CREG**).

Format [1] is used to load registers other than hardware status registers. Both controllers are updated.

Format [2] is used to load hardware status registers only. Register numbers must be 0 or 1. If the controller is not specified, both controllers are updated.

2. FORMAT

[1] **LOAD:XTSI** a,{**IREG**|**CREG**} b:c[,**MSK** d]!

[2] **LOAD:XTSI** a,[**CONTR** e,]{**IREG**|**CREG**} b:c[,**MSK** d]!

3. EXPLANATION OF MESSAGE

a — **XTSI** member number (0-63).

IREG — Internal Register.

CREG — Critical Register.

b — Register numbers in octal:

- 0 — STATR - Hardware status register bits 12-23.
- 1 — STATR - Hardware status register bits 0-11.
- 5 — Controller Error Source Register (CESR).
- 6 — Controller Programmable Error Source Trigger (PEST) register.
- 7 — Controller Control (CNTL) register.
- 24 — Maintenance Buffer Pointers (MBPTRs).
- 25 — Shadow Maintenance Buffer Pointer (SHDWMBPTR).
- 34 — Time Slot Interchange (**TSI**) Control (TSICTL) register.
- 40 — TSI Exercise Register 0 (TSIEXR0) register.
- 41 — TSI Exercise Register 1 (TSIEXR1) register.

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`45` — FBI Status And Control (FBICTL) register.

`47` — Protection Switch Client (PSC) Error Pest (PSCPEST) register.

`51` — PSC Pulse Code Modulated Cutoff (PSCPCMCO) register.

`52` — PSC Control Bus Cutoff (PSCCBCO) register.

`64` — Controller Signal Processor (CSP) control register 0 (CSPCTL0).

`65` — Controller Signal Processor (CSP) control register 1 (CSPCTL1).

`c` Data to be loaded into register, in octal, up to 24 bits.

`d` 24 bit mask through which data is loaded, expressed in octal. Default mask is all ones.

`e` Controller number (`0` or `1`). Default is both controllers.

4. SYSTEM RESPONSE

`PF,CODE 091` Printout Follows. Printout will conditionally follow.

NOTE: If the member number variable is a Time Slot Interchange (TSI), the echo message will be: `LOAD:TSI n,...NOT STARTED - ILLEGAL MESSAGE`

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

Input Message
`DUMP:XTSI-IREG`

Output Messages
`DUMP:XTSI-IREG`
`LOAD:XTSI-IREG`

SEE PROPRIETARY NOTICE ON COVER PAGE

WARNING
INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

ID . . . . . LOAD:XTSI-SPU
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E22 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

WARNING

1. PURPOSE

Loads the Internal Registers (**IREG**) of the specified Signal Processing Unit (**SPU**), in a particular Expanded Time Slot Interchange (**XTSI**) frame.

2. FORMAT

LOAD:XTSI a,**SPU** b,**IREG** c:d[,**MSK** e]!

3. EXPLANATION OF MESSAGE

a — **XTSI** member number (0 - 63).

b — **SPU** unit number (0 - 11).

c — Internal register number:

- 0 — INVALID - Software Status register (SPUSTATUS).
- 1 — INVALID - Hardware Status register (SPUSTAT).
- 2 — INVALID - Error Source register (SPUESR).
- 3 — SPUCTL - Control register bits 0-23.
- 4 — SPUEXR - Exercise register bits 0-23.

d — Data to be loaded into register.

e — Mask through which data is loaded. Default mask is all ones.

4. SYSTEM RESPONSE

PF,CODE 091 — Printout Follows. Printout will conditionally follow.

5. REFERENCES

PIDENT
PULP

Practice 234-180-280, *Peripheral Utility Program (PULP) - Description*

Input Message
DUMP:XTSI-SPU

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Messages

```
DUMP:XTSI-SPU
LOAD:XTSI-SPU
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . MON:CCISTRAP
WORK CENTER . . MOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Prints the direct signaling messages received by the office which do not contain the proper office address.

2. FORMAT

`MON:CCISTRAP:DS,MISRTE!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`OK`	Good. Trap is started.
`RL`	Retry Later. Message has already been input.

5. REFERENCES

PIDENTs
CCISIOPR
TMAD0005

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . MON:CHAN
WORK CENTER . . MAC, MOC, NMOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Monitors all output messages being printed on a specified channel from another specified channel.

2. FORMAT

MON:CHAN a[**;CHAN** b]**!**

3. EXPLANATION OF MESSAGE

a — The name of the source input/output (I/O) channel to be monitored. See the User Guidelines of the *Input Message Document* for a list of channel names.

b — The name of the destination I/O channel to receive the monitored messages. Default is the input channel.

NOTE: If **CHAN** a is a high speed channel (>110 bps), then **CHAN** b must be a high speed channel.

4. SYSTEM RESPONSE

NG	No Good. The source channel is presently being monitored.
NG,INVALID CHAN	No Good. Indicates that the source or destination channel cannot be a binary data channel.
NG,INVALID CHAN	No Good. Indicates that the source channel is a Full-Duplex customer channel that is protected from being monitored.
OK	Good. The monitor has been set up.

5. REFERENCES

PIDENT
IOCPREA1

Practice 231-302-305, *Enhanced Input/Output Subsystem*
Practice 254-280-111, *Input/Output Programs Software Description*

Input Messages
OP:CHAN
STOP:MON-CHAN

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . MON:DGSTAT
WORK CENTER . . MOC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Places a Digroup Terminal (DT) or Digital Interface Frame (DIF) Digroup (DG) on the slip monitor list. The digroup status memory is marked according to whether an alternate, regular, or master digroup is on the slip monitor list.

2. FORMAT

```
MON:DGSTAT[,{REG|ALT}];{SLIP|ALL}:{TSN a|TAN b|OTAN c|CIN d|
      DIF e,DIU f,DG g|DT h,DTU i,DG j}!
```

3. EXPLANATION OF MESSAGE

REG Regular digroup.

ALT Alternate digroup.

SLIP Slip monitor list.

ALL Same as the slip option.

a SP-ROW-POINT Trunk Scanner Number (**TSN**) of any trunk in the digroup:

- POINT — A two-digit decimal number indicating the point in the row (00-15).
- ROW — A three-digit decimal number indicating the row in the SP (000-255).
- SP — A two-digit decimal number indicating the signaling processor (SP) member number (00-31).

b TSI-SP-PORT-CHANNEL Trunk Appearance Number (**TAN**) of any trunk in the digroup:

- CHANNEL — A three-digit decimal number indicating channel, range (0-127).
- PORT — A one-digit decimal number indicating port of Time Slot Interchange (TSI) (0-6).
- SP — A one-digit decimal number indicating SP of TSI (0 or 1).
- TSI — A two-digit decimal number indicating the TSI member number (00-63).

c Octal Trunk Appearance Number (**OTAN**) of any trunk in the digroup.

SEE PROPRIETARY NOTICE ON COVER PAGE

d	Circuit Identification Number (**CIN**) of any trunk in the digroup.
e	Digital Interface Frame (**DIF**) number of digroup.
f	Digital Interface Unit (**DIU**) number of digroup.
g	Digroup number.
h	Digroup Terminal (**DT**) number of digroup.
i	Digroup Terminal Unit (**DTU**) number of digroup.
j	Digroup number.

4. SYSTEM RESPONSE

?D	Data field contains an error.
?E	Syntax Error exists in the message but cannot be resolved to the proper field.
NG	No Good. Request for more than one master or one alternate, or more than 32 digroups currently being monitored.
OK	Good. Request accepted. Digroup placed on slip monitor list.
RL	Retry Later.

5. REFERENCES

PIDENTs
TMAD0005
TMAD0061

Input Message
STOP:MON-DGSTT

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . MON:IAOFC
WORK CENTER . . MOC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Sets up or modifies a total office call irregularity trap.

2. FORMAT

```
MON:IAOFC,{NEW|TRAPN a}[;{ADD|DLT}][:[IA b]
      [,TIMEON c,{COUT|TIMEOFF d[,RPT]}][,FHC f][,TCA e]]!
```

3. EXPLANATION OF MESSAGE

NEW Set up a new total office trap.

a Modify a previously-defined office trap (32 to 35).

ADD Specifies that any ineffective attempt (IA) types specified will be trapped in addition to any IA types which may have been previously specified for this trap. **ADD** is the default.

DLT Delete. If **DLT** is specified, then any IA types specified will be deleted from the specified trap. **ADD** is the default.

b Specifies the **IA** type which should be trapped and, optionally, a sample rate at which output data should be printed when the call irregularity occurs. More than one **IA** type can be specified by entering more than one b parameter, separated by commas, with the entire field enclosed in parentheses. Up to 19 may be specified per message. The variable has the form:

{.50|.25|.12|.06} x

where .50 specifies a 50 percent sample rate, .25 a 25 percent sample rate, etc., .25 a 25 percent sample rate, etc., at which **IA** type x should be sampled. The default sample rate is 100 percent. The variable value can be any one of the following 3-letter abbreviations of call irregularity types:

AAT	AIF	ANF	ANM	AOF	BFL
BNF	CCP	CFL	CKF	CPT	CST
CTF	DNF	DSF	DWF	EBF	FSA
FSO	FSZ	FTF	GLC	GLR	IDB
IDS	IKF	INW	ISA	IVR	MAB

SEE PROPRIETARY NOTICE ON COVER PAGE

MCA	MNM	MRA	NCA	NCD	NCS
NSD	PDA	PDT	PHF	PSE	PSG
PST	QPE	RQA	SGT	STO	TCE
TQA	UCA	URS	UXS	VAC	VNC
WAT	WAU	WAV	XST		

Refer to Practice 234-105-016 (*Call Irregularities Facility For Data Output On Request*) for a description of the call irregularity types which can be trapped.

`c` Specifies time of day in hours and minutes at which the trap should begin collecting data. The variable is four digits of the form `hhmm` where `hh` is hour of day from 0 to 23 and `mm` is minutes of the hour from 00 to 59.

`COUT` Specifies that once the **`TIMEON`** time is reached output should be continuous until the schedule is manually changed.

`d` Specifies time of day in hours and minutes at which the trap should stop collecting data. The trap will be released, ie, erased, unless **`RPT`** is also specified.

`RPT` Specifies that the **`TIMEON-TIMEOFF`** schedule should be repeated daily until the schedule is manually changed.

`e` Trap only those specified events for the specified **`TCA`** (0-9).

`f` Specifies the final handling code (**`FHC`**) to trap. An office trap can accommodate up to four final handling codes.

4. SYSTEM RESPONSE

`?E` Syntax Error exists in the message but cannot be resolved to the proper field.

`OK` Good. A previously defined trap has been modified as requested.

`PF` Printout Follows. For **`NEW`** trap requests or when the request cannot be honored for some reason. A `MON:IAOFC` output message will follow.

`RL` Retry Later.

5. REFERENCES

PIDENTs
TMAD0002
TMAD0005
TMADTRAP

Practice 234-105-016, *Call Irregularities Facility For Data Output On Request*

Input Messages
`ALW:IAOFC`
`INH:IAOFC`

SEE PROPRIETARY NOTICE ON COVER PAGE

```
OP:IAOFC
STOP:MON-IAOFC
```

Output Messages

```
MON:IAOFC
REPT:IAOFC
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . MON:IAOFCNT
WORK CENTER . . MOC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Sets up or modifies a total office final handling code (FHC) trap. Only one FHC trap is available in an office.

2. FORMAT

```
MON:IAOFCNT,{NEW|TRAPN a}[;{ADD|DLT}]
      [:[,TIMEON c,{COUT|TIMEOFF d[,RPT]}][,TCA e][,HRDMP]]!
```

3. EXPLANATION OF MESSAGE

NEW Set up a new total office trap.

a Modify a previously-defined office trap (32 to 35).

ADD Specifies schedule and trunk control area (TCA) additions. **ADD** is the default.

DLT Delete. If **DLT** is specified, schedule may be affected. **ADD** is the default.

c Specifies time of day in hours and minutes at which the trap should begin collecting data. The variable is four digits of the form hhmm where hh is hour of day from 0 to 23 and mm is minutes of the hour from 00 to 59.

COUT Specifies that once the **TIMEON** time is reached output should be continuous until the schedule is manually changed.

d Specifies time of day in hours and minutes at which the trap should stop collecting data. The trap will be released, i.e., erased, unless **RPT** is also specified.

RPT Specifies that the **TIMEON**-**TIMEOFF** schedule should be repeated daily until the schedule is manually changed.

e Trap only those specified events for the specified **TCA** (0-9).

HRDMP Trap will output counts collected during previous hour at top of hour, e.g., 12:00, after which the counts will be zeroed.

SEE PROPRIETARY NOTICE ON COVER PAGE

4. SYSTEM RESPONSE

`?E`	Syntax Error exists in the message but cannot be resolved to the proper field.
`OK`	Good. A previously defined trap has been modified as requested.
`PF`	Printout Follows. For **`NEW`** trap requests or when the request cannot be honored for some reason. A `MON:IAOFC` output message will follow.
`RL`	Retry Later.

5. REFERENCES

PIDENTs
IOCPIMC4
TMAD0002
TMAD0005
TMADTRAP

Practice 234-105-016, *Call Irregularities Facility For Data Output On Request*

Input Messages
`ALW:IAOFC`
`INH:IAOFC`
`OP:IAOFC`
`OP:IAOFCNT`
`STOP:MON-IAOFCNT`

Output Messages
`MON:IAOFC`
`OP:FHCSTAT`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . MON:IATSG
WORK CENTER . . MOC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Sets up or modifies a trunk subgroup (TSG) call irregularity trap.

2. FORMAT

```
MON:IATSG,{NEW|TRAPN a}[;{ADD|DLT}]
      [:[{OTAN b|TAN c|CIN d|TSN e}[,NUM f]][,IA g][,FHC h]
      [,SAMPLE i][,TIMEON j,{COUT|TIMEOFF k[,RPT]}]]!
```

3. EXPLANATION OF MESSAGE

NEW Set up a new TSG trap.

a Modify a previously defined TSG trap (1-31).

ADD Specifies that any ineffective attempt (**IA**) types, TSGs, or trunk appearance number (TAN) ranges specified should be added to the TSG trap definition. **ADD** is the default.

DLT Delete the IA types, TSG, or TAN range specified from the TSG trap definition.

b Octal trunk appearance number (OTAN) used to identify a TSG to trap, or a base TAN of a TAN range if **NUM** is present.

c TSI-SP-PORT-CHANNEL **TAN** used to identify a TSG or a base TAN of a TAN range if **NUM** is present:

- CHANNEL — A 3-digit decimal number indicating channel, range 0-127.
- PORT — A 1-digit decimal number indicating port of time slot interchange (TSI), range 0-6.
- SP — A 1-digit decimal number indicating signaling processor (SP) of TSI, range 0-1.
- TSI — A 2-digit decimal number indicating the TSI member number, range 00-63.

d Circuit identification number (**CIN**) of a trunk used to identify a TSG or trap, or a base trunk in a range of TANs to trap if **NUM** is present.

SEE PROPRIETARY NOTICE ON COVER PAGE

e SP-ROW-POINT trunk scanner number (**TSN**) of trunk used to identify a TSG to trap, or a base trunk in a range of TANs to trap if **NUM** is present:

POINT — A 2-digit decimal number indicating the point in the row, range 00-15.

ROW — A 3-digit decimal number indicating the row in the SP range 000-255.

SP — A 2-digit decimal number indicating the SP member number, range 00-31.

NOTE: **TSN** may be entered in octal if the format **TSN O'**d is used.

f If present, specifies that trunk identified should be used as a base TAN of f consecutive TANs which should be trapped (1 to 127).

g The **IA** type which should be trapped. More than one **IA** type can be specified in a message by using parentheses and separating the parameters with commas. Up to 19 may be specified per input message. The variable may be any of the following call irregularity types:

AAT	AIF	ANF	ANM	AOF	BFL
BNF	CCP	CFL	CKF	CPT	CST
CTF	DNF	DSF	DWF	EBF	FSA
FSO	FSZ	FTF	GLC	GLR	IDB
IDS	IKF	INW	ISA	IVR	MAB
MCA	MNM	MRA	NCA	NCD	NCS
NSD	PDA	PDT	PHF	PSE	PSG
PST	QPE	RQA	SGT	STO	TCE
TQA	UCA	URS	UXS	VAC	VNC
WAT	WAU	WAV	XST		

NOTE: ALL may be specified in order to trap all of the previous call irregularities.

Refer to AT&T Practice 234-105-016 for a description of the IA types which can be trapped. The path hunt failure (PHF) can only be trapped by MON:IAOFC, not MON:IATSG.

h Specifies the final handling code (**FHC**) (1-1023) to be trapped. More than one **FHC** to a maximum of four may be specified by using parentheses and separating the h parameters with commas (1-1023).

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`i` Specifies the sample rate which should be applied to the IA types being monitored. Legal values are: .50, .25, .12, and .06. The sample rate applies to the occurrence of any of the monitored IAs as they occur, e.g., there is not a unique counter maintained for each IA type as is done in `MON:IAOFC`.

`j` Specifies time of day in hours and minutes at which the trap should begin collecting data. The variable is four digits of the form `hhmm` where `hh` is hour of day from 00 to 23 and `mm` is minutes of the hour from 00 to 59.

`COUT` Specifies that once the **`TIMEON`** time is reached output should be continuous until the schedule is manually changed.

`k` Specifies time of day in hours and minutes at which the trap should stop collecting data. The trap will be released, i.e., erased, unless **`RPT`** is also specified.

`RPT` Specifies that the **`TIMEON-TIMEOFF`** schedule should be repeated daily until the schedule is manually changed.

4. SYSTEM RESPONSE

`?E` Syntax Error exists in the message but cannot be resolved to the proper field.

`OK` Good. A previously defined trap has been modified as requested.

`PF` Printout Follows. For **`NEW`** type request or when the request cannot be honored for some reason. A `MON:IATSGCNT` output message will follow.

`RL` Retry Later.

5. REFERENCES

PIDENTs
TMAD0002
TMAD0005
TMADTRAP

Practice 234-105-016, *Call Irregularities Facility For Data Output On Request*

Input Messages
`ALW:IATSG`
`INH:IATSG`
`MON:IAOFC`
`MON:IATSG`
`STOP:MON-IATSG`

Output Messages
`MON:IATSGCNT`
`REPT:IATSG`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . MON:IATSGCNT
WORK CENTER . . MOC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Sets up a trunk subgroup (TSG) call irregularity counting trap. This trap accumulates counts of call irregularities for output according to specified schedule or on demand. It does not make per-irregularity reports.

2. FORMAT

```
MON:IATSGCNT,{NEW|TRAPN a}[;{ADD|DLT}][:TIMEON c,{COUT|TIMEOFF d
      [,RPT]}][,{OTAN f|TAN g|CIN h|TSN i}]!
```

3. EXPLANATION OF MESSAGE

NEW Set up a new TSG counting trap.

a Modify a previously-defined TSG counting trap (1-15).

ADD Add the TSG identified to the TSG counting trap. **ADD** is the default.

DLT Delete the TSG identified from the TSG counting trap.

c Time of day in hours and minutes at which the trap should begin collecting data. The variable is four digits of the form hhmm where hh is hour of day from 00 to 23 and mm is minutes of the hour from 00 to 59.

COUT Specifies that once the **TIMEON** is reached, output should be continuous until the schedule is manually changed.

d Time of day in hours and minutes at which the TRAP should stop collecting data. The TRAP will be released, i.e., erased, unless **RPT** is also specified.

RPT The **TIMEON-TIMEOFF** schedule should be repeated daily until the schedule is manually changed.

f Octal trunk appearance number (**OTAN**) used to identify a TSG. Trunk may be any member of a TSG.

g TSI-SP-PORT-CHANNEL trunk appearance number (**TAN**) of trunk in the TSG to be connected:

CHANNEL — 3-digit decimal number indicating the channel, range 0-127.

PORT — 1-digit decimal number indicating the port of time slot interchange (TSI), range 0-6.

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`SP` — 1-digit decimal member number indicating the signaling processor (SP) of TSI, range 0-1.

`TSI` — 2-digit decimal number indicating the time slot interchange (TSI) member number, range 00-63.

`h` Circuit identification number (**`CIN`**) of a trunk in the TSG being specified.

`i` SP-ROW-POINT trunk scanner number (**`TSN`**) of trunk in the TSG to be connected:

`POINT` — 2-digit decimal number indicating the point in the row, range 00-15.

`ROW` — 3-digit decimal number indicating the row in the SP, range 000-255.

`SP` — 2-digit decimal number indicating the SP member number, range 00-31.

NOTE: Octal **`TSN`** may be specified by using the format **`TSN O'`**`i`.

4. SYSTEM RESPONSE

`?E` Syntax Error exists in the message but cannot be resolved to the proper field.

`OK` Good. A previously-defined TRAP has been modified as requested.

`PF` Printout Follows. For **`NEW`** type requests or when the request cannot be honored for some reason; a `MON:IATSGCNT` output message will follow.

`RL` Retry Later.

5. REFERENCES

PIDENTs
TMAD0002
TMAD0005
TMADTRAP

Practice 234-100-051, *Call Irregularities Facility For Data Output On Request*

Input Messages
`ALW:IATSGCNT`
`INH:IATSGCNT`
`STOP:MON-IATS`

Output Message
`MON:IATSGCNT`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . MON:NCATANOM
WORK CENTER . . MOC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . IATRAP
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Sets up or modifies a non-call associated temporary signaling connection (NCA-TSC) office anomaly trap.

2. FORMAT

```
MON:NCATANOM,{NEW|TRAPN a}[;{ADD|DLT}]
      [:[NACC b][,TIMEON c,{COUT|TIMEOFF d[,RPT]}]]!
```

3. EXPLANATION OF MESSAGE

NEW Set up a new NCA-TSC anomaly trap.

a Modify a previously defined non-call associated temporary signaling connection (NCAT) anomaly trap (0 or 1).

ADD Specifies that any NCAT anomaly code category (**NACC**) types specified will be trapped in addition to any NACC types which may have been previously specified for this trap. **ADD** is the default.

DLT Any **NACC** types specified will be deleted from the specified trap.

b Specifies the **NACC** which should be trapped. Up to 4 NACCs can be entered per message by specifying more than one parameter separated by commas, with the entire field enclosed in parentheses. The variable can have the value ALL to include all NACCs or any of the following 3-letter abbreviations for an NACC:

CBD	DBP	IME	MSC	NMB	NRS
QME	RTF	SP1	SP2	SP3	SP4
SP5	SP6	SP7	VAC		

c Specifies the time of day in hours and minutes at which the trap should begin collecting data. The variable is 4 digits in the form hhmm where hh is the hour of day from 00 to 23, and mm is minutes of the hour from 00 to 59.

COUT Specifies that once the **TIMEON** time is reached, output should be continuous until the schedule is manually changed.

d Specifies the time of day in hours and minutes at which the trap should stop collecting data. The variable is 4 digits in the form hhmm where hh is the hour of day from 00 to 23, and mm is minutes of the hour from 00 to 59. The trap will be released, i.e., erased, unless the **RPT** option is specified.

SEE PROPRIETARY NOTICE ON COVER PAGE

RPT Specifies that the **TIMEON-TIMEOFF** schedule should be repeated daily until the schedule is manually changed.

4. SYSTEM RESPONSE

?E	Syntax Error exists in the message but cannot be resolved to the proper field.
OK	Good. A previously defined trap has been modified.
PF	Printout Follows. For **NEW** trap requests or when the request cannot be honored for some reason.
RL	Retry Later.

5. REFERENCES

PIDENTs
NCATFH
TMAD0005

Input Messages
ALW:NCATANOM
INH:NCATANOM
OP:NCATANOM
STOP:MON-NCATANOM

Output Messages
MON:NCATANOM
REPT:NCATANOM

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . MON:SUTRAP
WORK CENTER . . MOC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Turns the common channel signaling system number 6 (CCITT6) utility trap on. When the trap is on, it is capable of trapping the specified send or receive signals on a terminal or signals for a particular talking trunk. When the signals are trapped, they are immediately outputted to an input/output (I/O) device (international only).

2. FORMAT

```
MON:SUTRAP;{SEND|RECEIVE|SEND,RECEIVE}
      :{CIN a|SIGLK b[,ILLEGAL]|SLC c,BAND d,MEMN e}!
```

3. EXPLANATION OF MESSAGE

SEND	Send signals to be trapped.
RECEIVE	Receive signals to be trapped.
SEND,RECEIVE	Send and receive signals to be trapped.
a	Circuit identification number (**CIN**) of CCITT6 trunk being trapped.
b	Number of CCITT6 signaling link being trapped.
c	Signaling link complement (**SLC**) index of signaling transfer point (STP) trapped (0-127).
d	Band number of STP messages being trapped.
e	Member number of STP messages being trapped.

4. SYSTEM RESPONSE

MON:SUTRAP DENIED	Previous request in progress.
NG	No Good. Illegal data specified.
OK	Good. Trap turned on.
PF	Printout Follows.

5. REFERENCES

PIDENTs
ISCLUTIL
TMAD0005

SEE PROPRIETARY NOTICE ON COVER PAGE

Input Message

```
STOP:MON-SUTRA
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:ALMSTAT
WORK CENTER . . MOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Outputs the status of the office alarm system.

2. FORMAT

`OP:ALMSTAT!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`PF` Printout Follows. Followed by an `OP:ALMSTAT` output message.

5. REFERENCES

PIDENT
ALRM01

Output Message
`OP:ALMSTAT`

SEE PROPRIETARY NOTICE ON COVER PAGE

WARNING
INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

ID . . . . . OP:ANNSTAT
WORK CENTER . . TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

WARNING
Using the ALL option causes excessive printout that cannot be stopped until all output is complete.

1. PURPOSE

Prints the status of one announcement, all announcements per mass announcements service (MAS) frame member number, or all announcements in the office.

2. FORMAT

OP:ANNSTAT,{VSSID a**,SID** b**|MASMEMN** c**|ALL}!**

3. EXPLANATION OF MESSAGE

a	Voice storage system (VSS) identification (**VSSID**).
b	Service identification (**SID**).
c	MAS frame member number.
ALL	All announcements in the office.

4. SYSTEM RESPONSE

?D	Data field contains an error.
?E	Syntax Error exists in the message but cannot be resolved to the proper field.
PF	Printout Follows.
RL	Retry Later.

5. REFERENCES

PIDENTs
ANNHTTYM
TMAD0005

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:APSTATUS
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . MTCE
APPLICATION . . 4E,1A-APS,1B
TYPE . . . . . Input

1. PURPOSE

Outputs to the 1A processor the current status of all known attached processor systems (APSs), including the following possible subunits on each APS: API, CU, MHD, and 1A File.

2. FORMAT

OP:APSTATUS!

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

PF	Printout Follows. Followed by an OP:APSTATUS output message.
RL	Retry Later. The input request cannot be handled at this time.

5. REFERENCES

PIDENTs
APFRBASE
IOCPIMC1

Practice 254-280-210, *Maintenance Control Program*

Output Message
OP:APSTATUS

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:AUDSTAT
WORK CENTER . . MAC, MOC, NMOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Requests a status report for the audit system. This status includes all inhibited audits and all audits in the quiet mode via a manual or program request.

2. FORMAT

`OP:AUDSTAT!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`PF` Printout Follows. Followed by an `OP:AUDSTAT` output message.

5. REFERENCES

PIDENT
AUDSCTRL

Output Message
`OP:AUDSTAT`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:BANDSTAT
WORK CENTER . . MOC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Outputs the status of the bands for a given terminal.

2. FORMAT

OP:BANDSTAT;SIGLK aabb!

3. EXPLANATION OF MESSAGE

a	A terminal grouping (TGR) frame number (00-15).
b	A terminal subunit number within the frame (00-15).

4. SYSTEM RESPONSE

NG	No Good. Input error or internal error in outputting the message.
PF	Printout Follows. Followed by an output message giving the results of the request.

5. REFERENCES

PIDENT
CCISIOPR

Output Message
OP:BANDSTAT

SEE PROPRIETARY NOTICE ON COVER PAGE

WARNING
INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

ID . . . . . OP:BP-SCS
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

WARNING
Because this message changes the memory or uses critical resources of the hardware unit, this message should only be used when directed by technical support.

1. PURPOSE

This command lists the address and type of each breakpoint currently set in a Service Circuit System (SCS) frame; in the frame controllers only; or in a Service Circuit Unit (SCU) only. This command also allows the user to request a summary list of which units in an SCS frame contain one or more breakpoints.

Format [1] is used to list the breakpoints in a simplex SCS controller or duplex SCS controllers.
Format [2] is used to list the breakpoints in a SCU.
Format [3] is used to list all breakpoints in a frame or a summary of breakpoints in a frame.

2. FORMAT

[1] **OP:BP;SCS** a**!**

[2] **OP:BP;SCS** a**,SCU** b**!**

[3] **OP:BP;SCS** a**:{ALL|SUM}!**

3. EXPLANATION OF MESSAGE

a	**SCS** member number in decimal (0-7).
b	**SCU** number in decimal (0-15).
ALL	Detailed report. Lists the address and type for each breakpoint in the controller and units for the given SCS member number.
SUM	Summary only. List any units in the frame (including the controller) that have one or more breakpoints for the specified SCS member number.

4. SYSTEM RESPONSE

PF	Printout Follows. The breakpoint information will be listed for the requested unit(s). An OP:BP-SCS output message follows giving the results of the request.

SEE PROPRIETARY NOTICE ON COVER PAGE

5. REFERENCES

PIDENT
SCSBPMEM

Input Messages
`CLR:BP-SCS`
`SET:BP-SCS`

Output Messages
`OP:BP-SCS`
`REPT:BP-SCS`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:CCSTATUS
WORK CENTER . . MOC
GENERIC . . . . . 4E20 and later
CLASS . . . . . PMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Outputs the current status of the central controllers (CCs), including soak status.

2. FORMAT

`OP:CCSTATUS!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`?I`	Identification field contains an error. No arguments are allowed for the **`OP:CCSTATUS`** input message.
`PF`	Printout Follows. Followed by an `OP:CCSTATUS` output message.

5. REFERENCES

PIDENT
CCFRTEST

Output Message
`OP:CCSTATUS`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:CGASTAT
WORK CENTER . . MOC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Outputs the status of the following carrier group alarms (CGAs):

(a) All carrier groups on the CGA test line

(b) Carrier groups with M-store numbers (MSNs) set to ignore

(c) Common channel interoffice signaling (CCIS) carrier groups, protected by the software carrier group alarm algorithm, whose alarm state has been set to ignore.

2. FORMAT

`OP:CGASTAT!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`PF`	Printout Follows. Status initiated, followed by `OP:CGALIST` and possibly `OP:CGA` messages.
`RL`	Retry Later. Status is already in progress.

5. REFERENCES

PIDENTs
CGAP00
TMAD0005

Output Messages
`OP:CGA`
`OP:CGALIST`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:CHAN
WORK CENTER . . MAC, MOC, NMOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Outputs a list of the channel monitoring or routing taking place in the system. The routing or type of monitoring desired may be specified. If no type is specified, a list of each will be printed.

2. FORMAT

`OP:CHAN[:[RTE][,MON][,SCC]]!`

3. EXPLANATION OF MESSAGE

`RTE`	Channel routing.
`MON`	Monitoring of channel output.
`SCC`	Monitoring of channel input and output by an switching control center (SCC) channel.

4. SYSTEM RESPONSE

`PF`	Printout Follows. Followed by one or more `OP:CHAN` output messages.
`RL`	Retry Later. The request could not be honored, because of a temporary lack of system resources.

5. REFERENCES

PIDENT
IOCPREA1

Output Message
`OP:CHAN`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:CLK
WORK CENTER . . MAC, MOC, NMOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Outputs the current contents of the system clock.

2. FORMAT

OP:CLK!

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

PF	Printout Follows. Time, day, and date will be printed.
RL	Retry Later. Print call failure.

5. REFERENCES

PIDENT
EXECCNTL

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:CSSTATUS
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Outputs the current call store (CS) MCODE status of the system.

Provides status on call stores. The status input message will include information about member numbers, MCODE, suspect stores, duplication of stores, CS bus configuration, central control (CC) configuration, and store bus routing.

2. FORMAT

`OP:CSSTATUS!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`PF`	Printout Follows. Indicates than an `OP:CSSTATUS` output message will follow.
`RL`	Retry Later. Indicates that there was no available job request table entry.

5. REFERENCES

PIDENT
CSFRBSLV

Output Message
`OP:CSSTATUS`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:DCONN
WORK CENTER . . MOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

This report provides digital information on a per trunk subgroup (TSG) basis. The data consists of total seizures, digital seizures, percentage, digital preferred information, and glare data per TSG.

2. FORMAT

OP:DCONN a!

3. EXPLANATION OF MESSAGE

a — Desired mode of output.

100 — Provides detailed output consisting of:
Total number of seizures per TSG
Number of digital seizures per TSG
Percentage of digital seizures per TSG
Percentage of digital preferred trunks per TSG
Total number of occurrences of second trial glare
Percentage of second trial glare occurrences
And a summarized output encompassing data for all TSGs presented.

101 — Summarized output of the previous data.

102 — Abort **OP:DCONN** 100 function.

4. SYSTEM RESPONSE

PF — Printout Follows.

RL — Retry Later. Request **OP:DCONN** 102 followed by desired **OP:DCONN** function (100 or 101).

5. REFERENCES

PIDENT
TMTCSUBR

Output Message
OP:DCONN

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:DGSTAT
WORK CENTER . . MOC, TEC, TOC
GENERIC . . . . . 4E21 Rel. 4 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Outputs the current status of the specified digroup. Data is obtained from the digroup status memory. The status of more than one digroup can be requested by using the optional **NUM** between 2 and 5120. Digroups in a particular state may be requested by using the optional **STAT** parameter.

2. FORMAT

```
OP:DGSTAT,{OTAN a|TAN b|CIN c|TSN d|DT e,DTU f,DG g|
      DIF h,DIU i,DG j|XTSI k,D3U l,DG m}[:NUM n[,STAT o]]!
```

3. EXPLANATION OF MESSAGE

a — Octal Trunk Appearance Number (**OTAN**) of any trunk in the digroup.

b — TSI-SP-PORT-CHANNEL Trunk Appearance Number (**TAN**) of any trunk in the digroup:

- CHANNEL — A 3-digit decimal number indicating channel, range 0-127.
- PORT — A 1-digit decimal number indicating port of Time Slot Interchange (TSI), range 0-6.
- SP — A 1-digit decimal number indicating Signaling Processor (SP) of TSI, range 0-1.
- TSI — A 2-digit decimal number indicating the TSI member number, range 00-63.

c — Circuit Identification Number (**CIN**) of any trunk in the digroup.

d — A Trunk Scanner Number (**TSN**) in reference to a Digital Interface Frame (**DIF**) is broken down into a DIF-DIU-CHANNEL as follows:

- CHANNEL — A 3-digit decimal number indicating the channel, range 0-127.
- DIF — A 2-digit decimal number indicating the **DIF** member number, range 00-31.
- DIU — A 2-digit decimal number indicating the digital interface unit number, range 00-31.

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A Trunk Scanner Number (**TSN**) in reference to a Digroup Terminal (**DT**) is broken down into an SP-ROW-POINT as follows:

POINT — A 2-digit decimal number indicating the point in the row, range 00-15.

ROW — A 3-digit decimal number indicating the row in the SP, range 000-255.

SP — A 2-digit decimal number indicating the SP member number, range 00-31.

NOTE: The **TSN** can be entered in octal by using the format **TSN O'**d.

e — Digroup Terminal (**DT**) number of digroup.

f — **DT** unit number of digroup.

g — Digroup number.

h — Digital Interface Frame (**DIF**) number of the digroup.

i — Digital Interface Unit (**DIU**) number of the digroup.

j — Digroup number.

k — Expanded Time Slot Interchange (**XTSI**) member number.

l — **D3U** unit number (0-5).

m — Digroup (**DG**) number (1-28).

n — Number of consecutive digroups to look at starting from the specified digroup (2-5120). Note that the specified digroup must be operational.

o — State in which a digroup must be in order for it to be included in the output message. If no digroup state is specified, then all digroup states will be output. Possible values are:

ASA — Blue alarm on a digroup (TS1, **D3U** only).

A3A — Blue alarm on a **D3U**.

BVH — BV high (out-of-service) threshold.

BVL — BV low (maintenance) threshold.

CMP — Camp-on.

DGO — Digroup hardware outage (**DIF** only).

IGN — Ignore.

L3A — Red alarm on a **D3U**.

LCA — Local alarm.

MAN — Manual camp-on.

OFH — OOF high (out-of-service) threshold.

OFL — OOF low (maintenance) threshold.

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R3A — Yellow alarm on a **D3U**.

RMA — Remote alarm.

SLH — Slip-high (out-of-service) threshold.

SLL — Slip-low (maintenance) threshold.

For **XTSI** digroups: When **XTSI**-II Performance Monitoring (PM) has been activated, OP:DGSTAT will contain zero (0) data for the Performance Monitoring fields. The OP:PMSTAT input message should be used to obtain **XTSI**-II PM data.

If more than one of these digroup status types are input, then the following two inputs may be used:

AND — Include digroup only if it is in all of the specified states.

OR — Include digroup if it is in any of the specified states. OR is the default value.

In addition to identifying the state of the digroups which should be included in the output, the **STAT** parameter can be used to screen the digroups based on the states of the trunks in the digroup. Possible values are:

ALL — Include all digroups for which digroup status memory exists, even if there are no trunks assigned to the digroup.

ASN — Only include digroup if it has at least one assigned trunk, e.g., trunks not all Unassigned (UNA). ASN is the default value.

OPR — Only include digroup if at least one trunk is operational, e.g., not CAD or UNA.

Examples:

```
STAT ALL
STAT (LCA,RMA,AND,OPR)
STAT (IGN,OPR)
```

4. SYSTEM RESPONSE

?D	Data field contains an error. Trunk or digroup data is invalid, e.g., out of range, or **DT**, **DIF** or **XTSI** identified is nonoperational.
?E	Syntax Error exists in the message but cannot be resolved to the proper field.
PF	Printout Follows. A OP:DGSTAT output message will follow.
RL	Retry Later.

SEE PROPRIETARY NOTICE ON COVER PAGE

5. REFERENCES

PIDENTs
DFRP
TMAD0005
TMAD0061
TMTCXTSI

Practice 234-100-052, *Digital Facility Trunk Trouble Reporting*

Input Message
`STOP:OP-DGSTA`

Output Message
`OP:DGSTAT`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:DTAC
WORK CENTER . . MOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Format [1] outputs the complete list of trunks currently involved in the direct test access connection function. Format [2] outputs detailed direct test access connection information for the input trunk.

2. FORMAT

[1] **OP:DTAC!**

[2] **OP:DTAC,**{**CIN** a|**TAN** b|**OTAN** c|**TSN** d}**!**

3. EXPLANATION OF MESSAGE

a	Circuit identification name.
b	Trunk appearance number.
c	Octal trunk appearance number.
d	Trunk scanner number.

4. SYSTEM RESPONSE

?D	Data field contains an error. Invalid data.
PF	Printout Follows.

5. REFERENCES

PIDENTs
TMAD0005
TMTCDTAC

Output Message
OP:DTAC

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ID . . . . . OP:ERAPCOND
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Outputs error analysis conditions currently in disk storage.

2. FORMAT

OP:ERAPCOND {a|**;SUM**}**!**

3. EXPLANATION OF MESSAGE

a — One or more condition names previously selected in an IN:ERAPCOND input message; up to three characters per argument (a maximum of 10 arguments allowed).

SUM — A list of the name of all conditions currently in storage will be printed out. For each condition, the output will also identify all search results (see message OP:ERAPSRES) which are based in part on the condition. If keyword **SUM** does not appear, the condition(s) specified by variable a will be printed out in full.

4. SYSTEM RESPONSE

?I,INV DATA — Identification field contains an error. Too many arguments of **ERAPCOND**.

PF — Printout Follows. Followed by the OP:ERAPCOND output message.

5. REFERENCES

PIDENTs
ERAP
ERIF

Practice 254-280-320, *Error Analysis Program*
Practice 254-200-215, *Error Analysis Program Application*

Input Messages
CLR:ERAPCOND
IN:ERAPCOND
OP:ERAPSRES

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Output Messages

```
OP:ERAP-ABORT
OP:ERAPCOND
OP:ERAPDATA
```

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ID . . . . . OP:ERAPDATA
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Outputs the specified error analysis data.

Format [1] is used to output entire records identified by Maintenance Record Number (**MRNUM** a).
Format [2] is used to output data from specified maintenance files or search results.
Format [3] is used to output specified items or words from blocks of data specified by variable b.

2. FORMAT

[1] **OP:ERAPDATA:MRNUM** a**!**

[2] **OP:ERAPDATA**[b]:{**MFNUM** c|**SRES** d}**!**

[3] **OP:ERAPDATA** b;{**ITEM** e|**WORD** f}:{**MFNUM** c|**SRES** d}**!**

3. EXPLANATION OF MESSAGE

NOTE: Any of the arguments (a, b, c, d, e, or f) can be multiple. Ranges are permitted for a, c, and d but not for f. The parameters b and e are alphanumeric. Up to six items may be named in e, or up to six words may be specified in f.

a — Maintenance Record Number (**MRNUM**) in decimal (0-1343).

b — Name of a block of data which can be an entire file, an entire record, a subrecord, or a group of subrecords. See Tables A through E.

c — Maintenance File Number (**MFNUM**) may be a range, in octal, unique to each file.

d — Number of a stored set of Search Results (**SRES**) derived from a previous OP:ERAPSRES input message, in decimal (0-11).

e — Name of an item contained within data block b. See Table E.

f — Number of a word contained within data block b, in decimal. Count from 0 for subrecords and from 1 for records.

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The input message

OP:ERAPDATA:MRNUM a**!**

is used to output the record with record number a.

In the input message

OP:ERADATA [b]**:**{**MFNUM** c|**SRES** d}**!**

if b is absent, all of the records comprising the files specified by **MFNUM** c or **SRES** d will be printed out. The parameter b is generally used to specify a particular portion of the files for printout, for example, one type of record from the files. When b is a file name, all files of that particular type with file numbers specified by **MFNUM** c or **SRES** d will be printed out.

The input message

OP:ERAPDATA b**;**{**ITEM** e|**WORD** f}**:**{**MFNUM** c|**SRES** d}**!**

is used to output particular items or words from a data block b, for example,

OP:ERAPDATA DLEV;ITEM SCA:MFNUM 15-32!

will result in the printout of the SCA register from any D-level interrupt data that may be contained in files 15 through 32.

NOTE: **ITEM** or **WORD** options cannot be used when the data block b refers to an entire file, for example, MLFILE. That is, b may refer to a record or a subrecord.

The **ITEM** option cannot be used when the data block b refers to the following subrecords: ALEV, BLEV, CLEV, DLEV, ELEV, FLEV, ERSP, KLEV, ILEV, BLMA, CCFRAF, and CCFRSF. **WORD** option is available for these subrecords.

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TABLE A
ERROR ANALYSIS RECORDS

Name	Description
APSMSG	Attached Processor System (APS) message record
DCCFRAF	Deferred Central Control Fault Recognition (CCFR) standby fail data
DCCFRSF	Deferred CCFR standby fail data
ERATHIST	Error Analysis (ERAT) past history data
ERAUDREC	Error Analysis Program (ERAP) audit record
MEASDATA	Traffic/plant measurements data
MISCREC	Miscellaneous record
MLDGN	Maintenance level Diagnostic Buffer Table (DBT)
MLHIST	Maintenance level history record (see Table C)
MLPHSE	Maintenance level phase record
OOSUNITS	Out-of-service units
PHSEHST	Phase record ("base level")
PUPHDATA	Peripheral unit phase data
PUREPT	Peripheral unit report record
RAWDGNA	Raw diagnostic data for application (peripheral) units
RAWDGNP	Raw diagnostic data for processor units
REPAIREC	Frame repair record
SAWSBKFL	System Audit of Writable Stores (SAWS), bink fail record
SAWSEXFL	SAWS, excessive fail record
SAWSIEHF	SAWS, interface or hash head fail record
TLPQOUT	Trouble Location Procedure (TLP) queue-out record
TLPSUM	TLP summary record
TTYINPUT	General input record

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TABLE B
ERROR ANALYSIS FILES

File Name	Record Types	Description
APSFILE	APSMSG	Attached Processor System (APS) message file
DCCFILE	DCCFRAF DCCFRSF	Deferred Central Control Fault Recognition (CCFR) data file
MEASFILE	MEASDATA	Traffic/plant measurements file
MISCFILE	MISCREC	Miscellaneous file
MLFILE	ERATHIST MLDGN MLHIST MLPHSE PUPHDATA PUREPT REPAIREC TLPQOUT TLPSUM TTYINPUT	Maintenance level file
OOSFILE	OOSUNITS	Out-of-service units file
PHSEFILE	PHSEHST	Phase history file
RAUDFILE	ERAUDREC	Error analysis-audit file
RAWDGN	RAWDGNA RAWDGNP	Raw diagnostic data file
SAWSFILE	SAWSBKFL SAWSEXFL SAWSIFHF	System Audit of Writable Stores (SAWS) audit file

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TABLE C
SUBRECORDS OF AN MLHIST RECORD

Indicator Bit in Record Item SRP0	Name	Description
0	ALEV	A-level interrupt data
1	BLEV	B-level interrupt data
2	CLEV	C-level interrupt data
3	DLEV	D-level interrupt data
4	ELEV	E-level interrupt data
5	FLEV	F-level interrupt data
6	ERSP	Error stop data
7	KLEV	K-level interrupt data
8	ILEV	Interject data
9	BLMA	Base level maintenance data
10	COMMLEV	Common maintenance level data
11	PCRVHS	Processor Configuration Recovery (PCRV) program tests run and hash sum results
12	MACCM	Memory Administration Center (MAC) control memory
13	CSFRPG	D-level software failure results
14	CSFRID	Call store identification data
15	CSFRTR	Call store test results
16	AUCOMM	Common auxiliary unit data
17	AUSUPP	Supplementary auxiliary unit data
18	FSUNIQUE	Unique file store data
19	FSSTAT	File store status failure report data
20	PCRVST	Standby B-level data
21	DUSREG	Internal Data Unit Selector (DUS) registers and test results
22	PSFRID	Program store identification data
23	PSFRTR	Program store test results

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TABLE C
SUBRECORDS OF AN MLHIST RECORD (Continued)

Indicator Bit in Record Item SRP1	Name	Description
0	PSFRPG	E-level software failure results
1	CLEVAC	Active Central Control (CC) registers
2	CLEVST	Standby CC registers
3	CCFRAF	Active CC fail data
4	CCFRSF	Standby CC fail data
5	CCFRIN	Central Control Fault Recovery (CCFR) interrupt data
6	IOSTAT	Input/Output (IO) status and internal data
7	IOOFD	IO operational failure data
8	ERIFCT	Call Store (CS) progression table
9	ERIFPT	Program Store (PS) progression table
10	STACK	Stack
11	SED	Supplementary error data
12	CALLREG	Call register
13	SPARE06	SPARE
14	INVENAB	Invalid enable
15	NUMFLEV	Number F-level
16	ESTLLSM	Echo Suppressor Terminal (EST) last-look store memory
17	ESTCR	EST critical registers
18	PERMAC	Peripheral maintenance
19	AUDMAC	Audit maintenance
20	MPFD	Main program failure data
21	CPFLEV	Central Pulse Distributor (CPD) F-level
22	POB	Peripheral order buffer
23	DTMR	Digroup terminal maintenance results

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TABLE C
SUBRECORDS OF AN MLHIST RECORD (Continued)

Indicator Bit in Record Item SRP2	Name	Description
0	VIFCR	Voiceband Interface Frame (VIF) critical registers
1	CCISCR	Common Channel Interoffice Signaling (CCIS) critical registers
2	INVINT	Invalid interrupt internal registers
3	HLEV	H-level Central Control (CC) registers
4	JLEV	J-level CC registers
5	NETCLK	Network clock data
6	TMSCR	Time Multiplexed Switch Pair (TMSP) critical registers
7	TSICR	Time Slot Interchange (TSI) critical registers
8	SPIR	Signaling Processor (SP) internal registers
9	PURESULT	Peripheral fault recognition results
10	RCNTHIST	Error analysis recent history table
11	PUSYSD	Peripheral system data
12	INTSD	Interrupt source data
13	FRISD	Fault recognition isolation data
14	EASTD	Error analysis strategy data
15	AUXD	Auxiliary data
16	DIFCRG	Digital Interface Frame (DIF) critical registers
17	SYNCRG	Network Clock Synchronization Unit (NCSU) critical registers
18	PUCREG	Peripheral Unit Controller (PUC) critical registers
19	MASCRG	Mass Announcement Service (MAS) critical registers
20	SCFRCR	Application dependent
21	SPARE 306	-
22	SPARE 307	-
23	SPARE 308	-

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TABLE C
SUBRECORDS OF AN MLHIST RECORD (Continued)

Indicator Bit in Record Item SRP3	Name	Description
0	SPARE 309	-
1	SPARE 310	-
2	SPARE 311	-
3	SPARE 312	-
4	SPARE 313	-
5	SPARE 314	-
6	SPARE 315	-
7	SPARE 316	-
8	SPARE 317	-
9	SPARE 318	-
10	CPINFO	Central Processor (CP) information
11	MUPUDATA	Master Control Complex (MCC) and Utility Processor (MUP) Fault Recovery (MCFR) unique data
12	MUPIDATA	MUP internal raw data
13	IFFRDATA	Interface Bus Fault Recovery (IFFR) common recovery data
14	SDFRDATA	Scan and Signal Distributor Fault Recovery (SDFR) unique data
15	XPERDATA	Auxiliary Processor Fault Recovery (XPFR) internal data
16	AIFBSTK	Active Interface Bus (IFB) stack
17	SIFBSTK	Standby IFB stack
18	AEPH	Active execution pipeline history
19	SEPH	Standby execution pipeline history
20	ABNA1	Active bus node data part 1
21	ABNA2	Active bus node data part 2
22	ABNA3	Active bus node data part 3
23	ABNA4	Active bus node data part 4

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TABLE C
SUBRECORDS OF AN MLHIST RECORD (Continued)

Indicator Bit in Record Item SRP4	Name	Description
0	SBNA1	Standby bus node data part 1
1	SBNA2	Standby bus node data part 2
2	SBNA3	Standby bus node data part 3
3	SBNA4	Standby bus node data part 4
4	IFBSTRER	Interface Bus (IFB) common recovery data store error
5	IFBSFAIL	Interface Bus Fault Recovery (IFFR) bootstrap failure date
6	XAWINDOW	Extended Access (XA) window information
7	SPARE 421	-
8	SPARE 422	-
9	SPARE 423	-
10	-	-
11	-	-
12	-	-
13	-	-
14	-	-
15	-	-
16	-	-
17	-	-
18	-	-
19	-	-
20	-	-
21	-	-
22	-	-
23	-	-

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TABLE D
GROUPS OF ERROR ANALYSIS SUBRECORDS

LVDATA Subrecords	SRDATA Subrecords	FRDATA Subrecords
ALEV	PCRVHS	CALLREG
BLEV	MACCM	SPARE06
PCRVST	-	INVENAB
-	-	NMFLEV
-	-	ESTLLSM
-	-	ESTCR
-	-	PERMAC
-	-	AUDMAC
-	-	MPFD
-	-	CPFLEV
-	-	POB
CLEV	CSFRPG	DTMR
DLEV	CSFRID	VIFCR
ELEV	CSFRTR	CCISCR
FLEV	AUCOMM	INVINT
ERSP	AUSUPP	HLEV
-	FSUNIQUE	JLEV
-	FSSTAT	-
-	SED	-
-	DUSREG	-
-	PSFRID	-
KLEV	-	-
ILEV	-	NETCLK
-	-	TMSCR
-	-	TSICR
-	-	SPIR
BLMA	PSFRTR	PURESULT
COMMLEV	PSFRPG	RCNTHIST
-	CLEVAC	-
-	CLEVST	-
-	-	PUSYSD
-	-	INTSD
-	FSECD	FRISD
-	IOSTAT	EASTD
-	IOOFD	AUXD
-	CCFRAF	-
-	CCFRSF	-
-	STACK	DIFCRG
-	-	SYNCRG
-	-	PUCREG
-	-	MASCRG

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TABLE E
ITEM NAMES FOR ERAP RECORDS AND SUBRECORDS

For each record type listed in Table B, the following item names are valid:

`DATE` — Date, output in Binary Coded Decimal (BCD)

`MFN` — Maintenance File Number (MFNUM)

`SRP0` — Subrecords present indicator 0

`SRP1` — Subrecords present indicator 1

`SRP2` — Subrecords present indicator 2

`SRP3` — Subrecords present indicator 3

`SRP4` — Subrecords present indicator 4

`TOD` — Time record collected, output in BCD

The subrecords present indicator items currently are applicable only for MLHIST records. Layouts of these words are in Table C.

Item names for a MLDGN record include:

`FLaabb` — Indicators of failing phases

`MEMN` — Member number

`MEMNHP` — Helper member number

`PHaabb` — Indicators of phases requested for phases aa through bb; possible values of aabb are 0009, 1019, 2029, 3039, 4049, 5059, 6069, 7079, 8089, 9099

`PRCODE` — Request code

`RESULT` — Diagnostic result/code

`SMEMN` — Subunit member number

`SUNIT` — Subunit type code; these may be found on COMPOOL under symbols 1KW`xxxx` and 4KW`xxxx`, where `xxxx` is the subunit mnemonic

`TASK` — Task number

`TERMCD` — Termination code

`UNIT` — Unit type code; these may be found on COMPOOL under symbols 1XLU`xxxx` and 4XLU`xxxx`, where `xxxx` is the unit mnemonic that would be printed in the action phase of a `REPT.` output message.

`UNITHP` — Helper unit type code

SEE PROPRIETARY NOTICE ON COVER PAGE

Item names for DCCFRAF records include internal register names FRH, FRL, GRH, GRL, JRH, JRL, KRH, KRL, LRH, LRL, XRH, XRL YRH, YRL, ZRH, ZRL, BRH, BRL, ER, CSC, CCSH, CCSL, ILA and also

`CCACW` — CCFR active control word

`CCBCW` — Central Control Failure Results (CCFR) backup control word

`CCSTAT` — CC status word

`TFAIL` — CCFR failing tests word

Item names for DCCFRSF records include internal register names: SFRH, SFRL, SGRH, SGRL, SJRH, SJRL, SKRH, SKRL, SLRH, SLRL, SXRH, SXRL, SYRH, SYRL, SZRH, SZRL, SMMR, MSR, SMSR, SBRH, SBRL, MEOH, MEOL, SCARH, SCARL, SDARH, SDARL, SMIOH, SMIOL, MIOH, MIOL, ME1H, ME1L, MI1H, MI1L, SMEOH, SMEOL, SMI1H, SMI1L, SME1H, SME1L and also

`TFAIL` — CCFR failing tests word.

Item names for an ERATHIST record include ABNO, ACTWRD, ADUPB, AMNBUS, APUT, BUSACT, BUSDEC, BUSS, CCFL, CNFGWD, DAPP, DBNO, DCC, DCCACT, DCCNO, DDEC, DDUP, DDUPB, DECWRD, DHALF, DMEMN, DMNBUS, DNAINT, DPEST, DTYPE, DUTYP, FMFN, LMFN, NUMINT, PBFR, PBFRWD.

Definitions of most of these items are in 4ESS™ COMPOOL, prefixed by ER4; the same applies to the following list of RCNTHIST items.

Item names for a RCNTHIST record include ABNO, ACTWRD, ADUPB, AMNBUS, APUT, BUSACT, BUSDEC, BUSS, CCFL, CNFGWD, DAPP, DBNO, DCC, DCCACT, DCCNO, DDEC, DDUP, DDUPB, DECWRD, DHALF, DMEMN, DMNBUS, DNAINT, DPEST, DTYPE, DUTYP, FMFN, LMFN, NUMINT, PBFR, PBFRWD.

4. SYSTEM RESPONSE

`?D,MISS DATA` Data field contains an error. Missing argument of keyword **`MFNUM`**, **`MRNUM`**, or **`SRES`**.

`?I,INC KW` Identification field contains an error. Invalid situation of (a) keyword **`MFNUM`** present and also argument of **`ERAPDATA`** specified or (b) keyword **`ITEM`** or **`WORD`** present and also argument of **`ERAPDATA`** missing.

`?I,INV DATA` Identification field contains an error. Maximum number of arguments of **`ERAPDATA`** exceeded (up to 10 allowed), or maximum number of arguments of **`ITEM`** or **`WORD`** exceeded (up to 6 allowed for keyword **`ITEM`** or for keyword **`WORD`**).

`?I,MISS DATA` Identification field contains an error. Missing argument of keyword **`ITEM`** or **`WORD`**.

`PF` Printout Follows. Followed by an `OP:ERAPDATA` output message. The output message will give whatever specified data are contained in the ranges indicated; e.g., if `c` = 1 through 7, all files having file numbers between 1 and 7 are printed (there may be no such files).

SEE PROPRIETARY NOTICE ON COVER PAGE

5. REFERENCES

PIDENTs
ERAP
ERIF
MARP

Practice 254-200-215, *Error Analysis Program Application*
Practice 254-280-320, *Error Analysis Program*

Input Messages
`CLR:ERAPDATA`
`OP:ERAPSRES`
`OP:ERAPSUM`

Output Messages
`OP:ERAPDATA`
`REPT:0`

NOTE: See REPT-BLM:0, REPT-INT:0, or REPT-INTJ:0 at the end of the `REPT:0` output message.

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:ERAPSRES
WORK CENTER . . MAC, MOC, NMOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Performs a search through the error analysis data base, or outputs specified error analysis search results (SRES), or outputs a summary of search results.

NOTE: If conditions (**COND**) is specified (see input message `IN:ERAPCOND`), a search through the data base will be made to identify all files satisfying the named condition(s). Two or more named conditions specified by `b` are logically "ANDed". A search yields a search result set (**SRES**) containing a list of file numbers. These results are stored on disk until cleared via a `CLR:ERAPSRES` input message. If both `a` and `b` are specified, the search will be conducted among the files indicated in search results `a`; otherwise, the search is conducted through the entire data base.

Format [1] is used to specify conditions for selecting files during the data base search.
Format [2] is used to list all the file numbers contained in search results specified in variable `a`.
Format [3] is used to summarize all search results currently stored in disk memory.

2. FORMAT

[1] **`OP:ERAPSRES`**`[ a]`**`:COND`** `b`**`!`**

[2] **`OP:ERAPSRES`** `a`**`!`**

[3] **`OP:ERAPSRES;SUM!`**

3. EXPLANATION OF MESSAGE

`a`	Decimal number (`0-11`) identifier of a search results set previously generated and stored on disk.
`b`	One or more three-character condition names identifying conditions previously input via an `IN:ERAPCOND` input message.
`SUM`	Print out a list (summary) of all search results currently stored on disk.

SEE PROPRIETARY NOTICE ON COVER PAGE

4. SYSTEM RESPONSE

`?D,IND KW`	Data field contains an error. No arguments of keyword **`ERAPSRES`**, and keywords **`COND`** and **`SUM`** not present.
`?D,MISS DATA`	Data field contains an error. Keyword **`COND`** present without arguments.
`PF`	Printout Follows. Followed by the `OP:ERAPSRES` output message.

5. REFERENCES

PIDENTs
ERAP
ERIF

Practice 254-280-320, *Error Analysis Program*
Practice 254-200-215, *Error Analysis Program Application*

Input Messages
`CLR:ERAPSRES`
`IN:ERAPCOND`

Output Messages
`OP:ERAP-ABORT`
`OP:ERAPSRES`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:ERAPSUM
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Summarizes the contents of the error analysis data base. The message **OP:ERAPSUM!** summarizes the entire data base. The optional parameters a,b,c may be used to restrict the summary to a portion of the data base.

Format [1] is used to summarize the entire data base.
Format [2] is used to summarize or list those files in the data base specified by file number and, optionally, by date.
Format [3] is used to summarize or list those files resulting from a prior search, as specified by file number and, optionally, by date.
Format [4] is used to summarize or list the data base files specified by date.

2. FORMAT

[1] **OP:ERAPSUM!**

[2] **OP:ERAPSUM**[;**DETL**]:**MFNUM** a[,**FILEDATE** b]**!**

[3] **OP:ERAPSUM**[;**DETL**]:**SRES** c[,**FILEDATE** b]**!**

[4] **OP:ERAPSUM**[;**DETL**]:**FILEDATE** b**!**

3. EXPLANATION OF MESSAGE

a — Maintenance file numbers (**MFNUM**s) to which summary is to be restricted.

b — File date(s) to which summary is to be restricted, in the form xxyyzz with xx = month, yy = day, zz = year (range permitted).

c — Search results (**SRES**) number(s) identifying file numbers to which summary is to be restricted, where the search results have been generated by prior search operations (see input message OP:ERAPSRES).

DETL — Detail. Lists the individual records comprising each file. When not used, the summary provides only the total numbers of files, records, and words. **DETL** is not allowed unless one of the parameters a, b, c is used.

4. SYSTEM RESPONSE

?D,EXTRA KW — Data field contains an error. Keywords **MFNUM** and **SRES** both present (not allowed).

SEE PROPRIETARY NOTICE ON COVER PAGE

`?D,MISS DATA`	Data field contains an error. Missing argument of **`MFNUM`**, **`SRES`** or **`FILEDATE`**.
`?D,MISS KW`	Data field contains an error. Keyword **`DETL`** present but not **`MFNUM`**, **`SRES`** or **`FILEDATE`**.
`PF`	Printout Follows. Followed by the `OP:ERAPSUM` output message.

5. REFERENCES

PIDENTs
ERAP
ERIF

Practice 254-280-320, *Error Analysis Program*
Practice 254-200-215, *Error Analysis Program Application*

Input Messages
`CLR:ERAPDATA`
`OP:ERAPSRES`

Output Messages
`OP:ERAPDATA`
`OP:ERAPSUM`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:FHCSTAT
WORK CENTER . . MOC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Dumps out final handling code (FHC) counters that have accumulated on an office wide basis by use of the office FHC counting trap (`MON:IAOFCNT`).

2. FORMAT

`OP:FHCSTAT,``{`**`ALL`**`|`**`FHC`** `a}`**`!`**

3. EXPLANATION OF MESSAGE

`a`	Final handling code (1-1023).

4. SYSTEM RESPONSE

`?D`	Data field contains an error. **`FHC`** out of range.
`PF`	Printout Follows.
`RL`	Retry Later.

5. REFERENCES

PIDENTs
TMAD0005
TMADTRAP

Input Messages
`MON:IAOFCNT`
`OP:IAOFCNT`
`STOP:MON-IAOFCNT`

Output Message
`OP:FHCSTAT`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:IAOFC
WORK CENTER . . MOC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Dumps the parameters of a specific office ineffective attempt trap (IATRAP) or of all IATRAPs.

2. FORMAT

OP:IAOFC,{TRAPN a|**ALL}!**

3. EXPLANATION OF MESSAGE

a	Trap number to be dumped (32-35).
ALL	All traps to be dumped.

4. SYSTEM RESPONSE

?D	Data field contains an error. **TRAPN** is invalid; must be 32 through 35.
PF	Printout Follows.
RL	Retry Later.

5. REFERENCES

PIDENTs
TMAD0002
TMAD0005
TMADTRAP

Input Messages
ALW:IAOFC
INH:IAOFC
MON:IAOFC
STOP:MON-IAOFC

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:IAOFCNT
WORK CENTER . . MOC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Dumps the parameters of an ineffective attempt office (IAOFC) counting trap.

2. FORMAT

OP:IAOFCNT,{TRAPN a|**ALL}!**

3. EXPLANATION OF MESSAGE

a	Trap number to be dumped (32-35).

4. SYSTEM RESPONSE

?D	Data field contains an error. **TRAPN** is invalid; must be 32-35.
PF	Printout Follows.
RL	Retry Later.

5. REFERENCES

PIDENTs
TMAD0002
TMAD0005
TMADTRAP

Input Messages
MON:IAOFCNT
OP:FHCSTAT
STOP:MON-IAOFCNT

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:IATSG
WORK CENTER . . MOC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Dumps the parameters of a specific trunk subgroup (TSG) ineffective attempt trap (IATRAP) or of all IATRAPs.

2. FORMAT

OP:IATSG,{TRAPN a|**ALL}!**

3. EXPLANATION OF MESSAGE

a	Trap number to be dumped (1-31).
ALL	All trap numbers dumped.

4. SYSTEM RESPONSE

?D	Data field contains an error. **TRAPN** is invalid; must be 1-31.
PF	Printout Follows.
RL	Retry Later.

5. REFERENCES

PIDENTs
TMAD0002
TMAD0005
TMADTRAP

Input Messages
ALW:IATSG
INH:IATSG
MON:IATSG
MON:IATSGCNT
STOP:MON-IATSG

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:IATSGCNT
WORK CENTER . . MOC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Dumps the parameters of a specific ineffective attempt trunk subgroup (IATSG) counting trap or all IATSG counting traps.

2. FORMAT

OP:IATSGCNT,{TRAPN a|**ALL}!**

3. EXPLANATION OF MESSAGE

a	Trap number to be dumped (1-15).
ALL	All trap numbers dumped.

4. SYSTEM RESPONSE

?D	Data field contains an error. **TRAPN** is invalid; must be 1-15.
PF	Printout Follows.
RL	Retry Later.

5. REFERENCES

PIDENTs
TMAD0002
TMAD0005
TMADTRAP

Input Messages
MON:IAOFC
MON:IATSG
MON:IATSGCNT

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:IFBSTAT
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

To report on the status of the interface bus (IFB) subsystem.

2. FORMAT

`OP:IFBSTAT!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`PF`	Printout Follows. Followed by an `OP:IFBSTAT` output message.
`RL`	Retry Later. Indicates that there was no available general buffer table or job request table entry.

5. REFERENCES

PIDENT
IFFRBASE

Output Message
`OP:IFBSTAT`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:INHINT
WORK CENTER . . MAC, MOC, NMOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Outputs a list of the central control (CC) maintenance interrupt and maintenance interject sources that are inhibited, and indicates whether or not write protect has been inhibited.

2. FORMAT

`OP:INHINT!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`PF`	Printout Follows. Followed by the `OP:INHINT` output message.
`RL`	Retry Later. No available job request table entry.

5. REFERENCES

PIDENTs
MACPROUT
WPADCNTL

Practice 254-280-210, *Maintenance Control Program*

Output Message
`OP:INHINT`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:IODSC
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . HISPEED
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Prints a list of input/output (I/O) channels that are in the disconnect state.

2. FORMAT

`OP:IODSC!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`PF` Printout Follows. Followed by output message `OP:IODSC`.

5. REFERENCES

PIDENT
IOCPREA1

Output Message
`OP:IODSC`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:LCHAN
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

This message is used to request an output message showing the identity and status of all eligible logical channels.

2. FORMAT

`OP:LCHAN!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`PF`	Printout Follows. The request is being processed and a printout will follow.

5. REFERENCES

PIDENTs
IOCPIMC4
IOCPMACC

Input Messages
`ALW:LCHAN`
`INH:LCHAN`

Output Messages
`OP:LCHAN`
`REPT:LCHAN-`*[unit]*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:LIBSTAT
WORK CENTER . . MAC, MOC, NMOC, TEC, TOC
GENERIC . . . . . 4E22 and later
CLASS . . . . . ALL
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Outputs the core and paged library program status, or the library package names loaded on a tape, or the library file store directory table.

2. FORMAT

`OP:LIBSTAT[,CORE|,FS]!`

3. EXPLANATION OF MESSAGE

`CORE` Output the core and paged library program status. This is the default.

`FS` Output the library file store directory table.

4. SYSTEM RESPONSE

`PF` Printout Follows. Request accepted. This will be followed by an `OP:LIBSTAT` output message.

`RL` Retry Later. An **`OP:LIBSTAT`** function is in progress or another conflicting library command in progress.

5. REFERENCES

PIDENT
LIBRLOAD

Practice 254-280-214, *Library Control Program*

Output Message
`OP:LIBSTAT`

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4ESS™ 1B Processor Input/Output Message Error Reporting Form

Use this form to report errors and make suggestions for improving the contents of the manual or quarterly release. If an error relates to a specific message, please write your comments on a TTY output or a photocopy of the message documentation and attach it to this form.

Manual: Input ☐ Output ☐

Generic: _____ Issue: _____

Quarterly Release (If applicable) :_____

Message ID(s): _____

Comments: _____

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	Excellent	Good	Fair	Poor
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Writing				
Clarity				
Front Matter				

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Lucent Technologies
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4ESS™ Switch
1B Processor

Input Messages

Volume 3

OP(M-Z) - WHEN

IM-4B000-01
Issue 1.8
September 2001

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OP:MSGRCD	OP:MSGRCD	4E19	1
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RCCNL:ROLLBACK	RCCNL:ROLLBACK	4E24	1.7
RCTST:ORNU	RCTST:ORNU	4E19	1
RMV:API	RMV:API	4E19	1
RMV:AUB	RMV:AUB	4E19	1
RMV:AUI	RMV:AUI	4E19	1
RMV:CC	RMV:CC	4E19	1
RMV:CS	RMV:CS	4E19	1
RMV:CS,MCODE	RMV:CS-MCODE	4E20	1.2
RMV:CSB	RMV:CSB	4E19	1
RMV:DIF	RMV:DIF	4E19	1
RMV:DT	RMV:DT	4E19	1
RMV:ECOSCTLS	RMV:ECOSCTLS	4E20	1.1
RMV:EST	RMV:EST	4E19	1
RMV:IFB	RMV:IFB	4E19	1
RMV:IOUS	RMV:IOUS	4E19	1
RMV:MUP	RMV:MUP	4E19	1
RMV:NCLK	RMV:NCLK	4E19	1
RMV:PCD	RMV:PCD	4E19	1
RMV:PS	RMV:PS	4E19	1
RMV:PS,MCODE	RMV:PS-MCODE	4E20	1.2
RMV:PSB	RMV:PSB	4E19	1
RMV:PUB	RMV:PUB	4E19	1
RMV:RA	RMV:RA	4E19	1
RMV:SCLK	RMV:SCLK	4E19	1
RMV:SCS	RMV:SCS	4E19	1
RMV:SDNMOVDS	RMV:SDNMOVDS	4E22	1.4
RMV:SIGLK	RMV:SIGLK	4E19	1
RMV:SP	RMV:SP	4E19	1
RMV:SSD	RMV:SSD	4E19	1
RMV:TGR	RMV:TGR	4E19	1
RMV:TMSP	RMV:TMSP	4E19	1
RMV:TONE	RMV:TONE-MWF	4E19	1
RMV:TSI	RMV:TSI	4E21	1.3
RMV:TVMASTR	RMV:TVMASTR	4E19	1
RMV:VIF	RMV:VIF	4E19	1
RMV:VSSID	RMV:VSSID	4E19	1
RMV:XPWR	RMV:XPWR	4E19	1
RMV:XTSI	RMV:XTSI	4E24R2	1.6
RST:API	RST:API	4E19	1
RST:AUB	RST:AUB	4E19	1

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Volume 3 Alphabetical Index (Continued)

MESSAGE NAME	MESSAGE ID	START GENERIC	ISSUE
RST:AUI	RST:AUI	4E19	1
RST:CC	RST:CC	4E19	1
RST:CS	RST:CS	4E19	1
RST:CSB	RST:CSB	4E19	1
RST:DIF	RST:DIF	4E19	1.1
RST:DT	RST:DT	4E19	1
RST:EST	RST:EST	4E19	1
RST:IFB	RST:IFB	4E19	1
RST:IOUS	RST:IOUS	4E19	1
RST:MUP	RST:MUP	4E19	1
RST:NCLK	RST:NCLK	4E19	1
RST:PCD	RST:PCD	4E19	1
RST:PS	RST:PS	4E19	1
RST:PSB	RST:PSB	4E19	1
RST:PUB	RST:PUB	4E19	1
RST:RA	RST:RA	4E19	1
RST:SCLK	RST:SCLK	4E19	1
RST:SCS	RST:SCS	4E19	1
RST:SIGLK	RST:SIGLK	4E19	1
RST:SP	RST:SP	4E19	1
RST:SSD	RST:SSD	4E19	1
RST:TGR	RST:TGR	4E19	1
RST:TMSP	RST:TMSP	4E19	1
RST:TONE	RST:TONE-MWF	4E24R3	1.6
RST:TSI	RST:TSI	4E21	1.3
RST:VIF	RST:VIF	4E19	1
RST:XPWR	RST:XPWR	4E19	1
RST:XTSI	RST:XTSI	4E24R2	1.6
RST:XTSI {ALLD3U|ALLSPU|ALLPSC}	RST:XTSI-ALL	4E24R2	1.6
RTE:ALM	RTE:ALM	4E19	1
RTE:CHAN	RTE:CHAN	4E19	1
RTE:MSGCLS	RTE:MSGCLS	4E19	1
RTE:TP	RTE:TP	4E19	1
RTR:ALM	RTR:ALM	4E19	1
SCHED:MEASREPT	SCHED:MEASREPT	4E19	1
SCHED:TDASMC	SCHED:TDASMC	4E19	1.1
SCHED:TRKTEST	SCHED:TRKTEST	4E19	1
SET:ANNSTAT	SET:ANNSTAT	4E19	1
SET:AUD	SET:AUD	4E19	1
SET:BANDSTAT	SET:BANDSTAT	4E19	1

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Volume 3 Alphabetical Index (Continued)

MESSAGE NAME	MESSAGE ID	START GENERIC	ISSUE
SET:BP	SET:BP-SCS	4E19	1
SET:CAMATRFS	SET:CAMATRFS	4E19	1
SET:CGACNTL	SET:CGACNTL	4E19	1
SET:CLK	SET:CLK	4E19	1.4
SET:CONN	SET:CONN	4E19	1.2
SET:CS	SET:CS	4E19	1.6
SET:DCONN	SET:DCONN	4E19	1
SET:DIGROUP	SET:DIGROUP	4E21	1.3
SET:DTAC	SET:DTAC	4E19	1
SET:LIBSYS	SET:LIBSYS	4E19	1
SET:NETROUT	SET:NETROUT	4E21	1.3
SET:POKE	SET:POKE	4E20	1.2
SET:PS	SET:PS	4E19	1.6
SET:SAWSLOCK	SET:SAWSLOCK	4E19	1
SET:SDSTAT	SET:SDSTAT	4E19	1.8
SET:SOAK	SET:SOAK	4E24	1.5
SET:STRMEX	SET:STRMEX	4E19 only	1
SET:TRKSTAT	SET:TRKSTAT	4E21	1.3
SET:TSGATC	SET:TSGATC	4E19	1
SET:TSGEAC	SET:TSGEAC	4E19	1
SET:TSIBP	SET:TSIBP	4E24R2	1.6
SET:TUC	SET:TUC	4E19 thru 4E21	1.3
SET:VCNT	SET:VCNT	4E19	1
STOP:ANALY;DIGROUP	STOP:ANALY-DIG	4E19	1
STOP:AUD	STOP:AUD	4E19	1
STOP:CFR;ALMGRP	STOP:CFR-ALMGR	4E19	1
STOP:CLR;TRKSTAT	STOP:CLR-TRKSTAT	4E19	1
STOP:COPY	STOP:COPY	4E19	1.2
STOP:EX	STOP:EX	4E19	1.1
STOP:IN;UTILDS	STOP:IN-UTILDS	4E19	1.1
STOP:INIT	STOP:INIT	4E19	1.2
STOP:LIBSYS	STOP:LIBSYS	4E19	1
STOP:MACLI	STOP:MACLI	4E19	1
STOP:MON;CCISTRAP	STOP:MON-CCIST	4E19	1
STOP:MON;CHAN	STOP:MON-CHAN	4E19	1
STOP:MON;DGSTAT	STOP:MON-DGSTT	4E19	1
STOP:MON;IAOFC	STOP:MON-IAOFC	4E19	1
STOP:MON;IAOFCNT	STOP:MON-IAOFCNT	4E19	1
STOP:MON;IATSGCNT	STOP:MON-IATS	4E19	1
STOP:MON;IATSG	STOP:MON-IATSG	4E19	1

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Volume 3 Alphabetical Index (Continued)

MESSAGE NAME	MESSAGE ID	START GENERIC	ISSUE
STOP:MON;MCCREPT	STOP:MON-MCCRE	4E19	1
STOP:MON;NCATANOM	STOP:MON-NCATANOM	4E19	1
STOP:MON;SUTRAP	STOP:MON-SUTRA	4E19	1
STOP:MSG	STOP:MSG	4E19	1
STOP:MUPAUD	STOP:MUPAUD	4E19	1
STOP:OP;DGSTAT	STOP:OP-DGSTA	4E19	1
STOP:OP;ERAP	STOP:OP-ERAP	4E19	1
STOP:OP;MSGRCD	STOP:OP-MSGRCD	4E19	1
STOP:OP;PMSTAT	STOP:OP-PMSTAT	4E22	1.3
STOP:OP;SCRN	STOP:OP-SCRN	4E19	1
STOP:OP;TRKSTAT	STOP:OP-TRKSTA	4E19	1
STOP:OP;TSGSTAT	STOP:OP-TSGSTA	4E19	1
STOP:OVRWRT	STOP:OVRWRT	4E19	1.1
STOP:RCACT	STOP:RCACT	4E19	1
STOP:REPT-XALM	STOP:REPT-XALM	4E21	1.3
STOP:RTE;ALM	STOP:RTE-ALM	4E19	1
STOP:RTE;CHAN	STOP:RTE-CHAN	4E19	1
STOP:SET;TRKSTAT	STOP:SET-TRKST	4E19	1
STOP:TEST:COREUPD	STOP:TEST-CORE	4E19	1
STOP:TEST;PUSY	STOP:TEST-PUSY	4E19	1.4
STOP:TEST;TRK	STOP:TEST-TRK	4E19	1
STOP:UPD	STOP:UPD	4E19	1
STOP:UPD;CORE	STOP:UPD-CORE	4E19	1
STOP:UPD;FS	STOP:UPD-FS	4E19	1
STOP:UPD;UTILDS	STOP:UPD-UTL	4E19	1.1
STOP:VERMSG	STOP:VERMSG	4E24	1.6
SW:AMA	SW:AMA	4E19	1
SW:APS	SW:APS	4E19	1
SW:AUI	SW:AUI	4E19	1
SW:CC	SW:CC	4E19	1
SW:DIF	SW:DIF	4E21	1.5
SW:MUP	SW:MUP	4E19	1.1
SW:PUB	SW:PUB	4E19	1
SW:SCLK	SW:SCLK	4E21	1.5
SW:SCS	SW:SCS	4E19	1
SW:TGR	SW:TGR	4E19	1
SW:VIF	SW:VIF	4E19	1
SW:XTSI	SW:XTSI	4E22	1.3
TEST:API	TEST:API	4E19	1
TEST:AUB	TEST:AUB	4E19	1

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Volume 3 Alphabetical Index (Continued)

MESSAGE NAME	MESSAGE ID	START GENERIC	ISSUE
TEST:AUI	TEST:AUI	4E19	1
TEST:CC	TEST:CC	4E19	1
TEST:DSIG	TEST:DSIG	4E19	1
TEST:DUS	TEST:DUS	4E19	1
TEST:FNS	TEST:FNS	4E19	1
TEST:IFB	TEST:IFB	4E19	1
TEST:MUP	TEST:MUP	4E19	1
TEST:MUPAUD	TEST:MUPAUD	4E19	1.3
TEST:PUB	TEST:PUB	4E19	1
TEST:PUSYS	TEST:PUSYS	4E19	1.4
TEST:SFI	TEST:SFI	4E23 only	1.4
TEST:SIGLK	TEST:SIGLK	4E19	1
TEST:SSD	TEST:SSD	4E19	1
TEST:TCAPAIN	TEST:TCAPAIN	4E21	1.3
TEST:TRK	TEST:TRK	4E23R4	1.4
TRC:TRK	TRC:TRK	4E19	1
UPD:CMAP;ISC	UPD:CMAP	4E19	1
UPD:COMMIT	UPD:COMMIT	4E19	1
UPD:CORE	UPD:CORE	4E19	1
UPD:ERAP	UPD:ERAP	4E19	1
UPD:FS;GEN	UPD:FS-GEN	4E20	1.4
UPD:GEN	UPD:GEN	4E19 thru 4E21	1.3
UPD:HDATA	UPD:HDATA	4E19	1.4
UPD:LIBSYS	UPD:LIBSYS	4E19 thru 4E21	1.3
UPD:ODA	UPD:ODA	4E19 thru 4E21	1.3
UPD:SCS	UPD:SCS	4E19	1
UPD:UTILDS	UPD:UTILDS	4E19	1.1
UPD:XTSI	UPD:XTSI	4E24R2	1.6
VER:	VER:0	4E19	1
VER:ABSOLUTE	VER:ABSOLUTE	4E21	1.2
VER:ADSLINK:ADSI	VER:ADSLINK	4E19	1.1
VER:AIN:LIST	VER:AIN-LIST	4E19	1.1
VER:AMA	VER:AMA	4E19	1
VER:AMACODE	VER:AMACODE	4E19	1
VER:ANINDEX	VER:ANINDEX	4E19	1
VER:CAMASCRN	VER:CAMASCRN	4E19	1
VER:CCDADC	VER:CCDADC	4E19	1
VER:CCDCONV	VER:CCDCONV	4E19	1
VER:CDB:ANI	VER:CDB-ANI	4E19	1
VER:CDB:CDBI	VER:CDB-CDBI	4E19	1

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Volume 3 Alphabetical Index (Continued)

MESSAGE NAME	MESSAGE ID	START GENERIC	ISSUE
VER:CODEGRP	VER:CODEGRP	4E25	1.7
VER:CODEGRP	VER:CODEGRP-EAR	4E19	1.1
VER:CODEGRP:MCTI	VER:CODEGRP-MCTI	4E23	1.4
VER:CODEGRP:MRTI	VER:CODEGRP-MRTI	4E19	1.6
VER:CODEGRP:PRTI	VER:CODEGRP-PRTI	4E19	1
VER:CODEGRP:SDINDEX	VER:CODEGRP-SDX	4E19	1.6
VER:CODEGRP:SDINDEX a,MAN	VER:CODEGRP-SDXM	4E19	1.6
VER:CODEGRP:SDINDEX a, UNA	VER:CODEGRP-SDXU	4E19	1.6
VER:CODEGRP:TYPE	VER:CODEGRP-TYPE	4E23R3	1.4
VER:CODELIST	VER:CODELIST	4E25	1.6
VER:CPA:L	VER:CPA-ALA	4E19	1
VER:CPA	VER:CPA-C-OR	4E20	1.2
VER:CPA	VER:CPA-DATA	4E19	1
VER:CPA	VER:CPA-DNUM	4E19 - 4E25R4	1.7
VER:CPA:RDBLIST	VER:CPA-RDBLIST	4E19	1
VER:CRB:CRBI	VER:CRB-CRBI	4E19	1
VER:CRBLIST	VER:CRBLIST	4E19	1
VER:DESPLIST	VER:DESPLIST	4E19	1
VER:DIALUP	VER:DIALUP	4E19	1
VER:DNHRMISC	VER:DNHRMISC	4E19	1
VER:DPC	VER:DPC	4E19	1
VER:EA:CID	VER:EA-CID	4E19	1.6
VER:EA;CONV:IIDIGITS	VER:EA-CONV-IIDI	4E19	1.6
VER:EA;CONV:OLI	VER:EA-CONV-OLI	4E19	1.6
VER:EA;FUNC	VER:EA-FUNC	4E19	1
VER:EA;OPT IPPD	VER:EA-IPPD	4E24R3	1.6
VER:EA:NX	VER:EA-NX	4E19	1.6
VER:EA;OPT OPPD	VER:EA-OPPD	4E24R3	1.6
VER:EA:SII	VER:EA-SII	4E19	1
VER:EA:ZZ	VER:EA-ZZ	4E19	1
VER:ECOS	VER:ECOS	4E25	1.6
VER:FEN	VER:FEN	4E19	1.6
VER:GT	VER:GT	4E19	1
VER:IDAM	VER:IDAM	4E19	1
VER:IDAMLIST	VER:IDAMLIST	4E19	1
VER:INSPLIST	VER:INSPLIST	4E19	1
VER:INTLCODE	VER:INTLCODE	4E24	1.5
VER:LATASTAT:AREAS	VER:LATASTAT-ARE	4E19 thru 4E21	1.6
VER:LATASTAT:MATRIX	VER:LATASTAT-MAT	4E19 thru 4E21	1.6
VER:MDN	VER:MDN	4E19	1

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Volume 3 Alphabetical Index (Continued)

MESSAGE NAME	MESSAGE ID	START GENERIC	ISSUE
VER:MEASREPT	VER:MEASREPT	4E19	1
VER:MEMORY	VER:MEMORY	4E19	1.1
VER:MISC	VER:MISC	4E23R4	1.8
VER:MISC:FHT AINTRIG	VER:MISC-AINTRIG	4E19	1.3
VER:MISC:FHT:RCECO4CVU	VER:MISC-FHT-RC	4E21	1.3
VER:MISC:FHT:USDSPCSSN	VER:MISC-FHT-USD	4E21	1.2
VER:MISC:FHT EASYREACH	VER:MISC-FHTEASY	4E20	1.2
VER:MISC:FHT IBNSROUTE	VER:MISC-FHTIBNS	4E20	1.2
VER:MSN	VER:MSN	4E19	1
VER:NAILUP	VER:NAILUP	4E19	1
VER:NDB:NDBI	VER:NDB-NDBI	4E19	1
VER:NDB:NDBLIST	VER:NDB-NDBLIST	4E19	1
VER:NPADPC:NPA	VER:NPADPC	4E19	1.6
VER:OFFICE	VER:OFFICE	4E19	1.4
VER:PASANN	VER:PASANN	4E19	1
VER:PASCTHRU	VER:PASCTHRU	4E19	1
VER:PASTVOTE	VER:PASTVOTE	4E19	1
VER:PCP	VER:PCP	4E20 - 4E25R4	1.7
VER:PCP:NPASPLIT	VER:PCP-NPASPLIT	4E19	1
VER:PCP:SCTABLE	VER:PCP-SCTABLE	4E19	1
VER:PCP:TTSII	VER:PCP-TTSII	4E19	1
VER:RCFORM	VER:RCFORM	4E24	1.5
VER:RDB	VER:RDB	4E19	1.3
VER:RDBLIST	VER:RDBLIST	4E21R3	1.6
VER:RTGLIST	VER:RTGLIST	4E23	1.6
VER:RTNR:CIN	VER:RTNR-CIN	4E19	1.6
VER:RTNR;ISW	VER:RTNR-ISW	4E19	1.6
VER:RTNR:MSI	VER:RTNR-MSI	4E19	1
VER:RTNR:NSN	VER:RTNR-NSN	4E19	1.6
VER:RTNR:RNSN	VER:RTNR-RNSN	4E19	1.6
VER:RTNR:RPI	VER:RTNR-RPI	4E20	1.6
VER:RTNR:SII	VER:RTNR-SII	4E19	1.6
VER:RTNR:SIILIST	VER:RTNR-SIILIST	4E19	1
VER:RTNR:TORIG	VER:RTNR-TORIG	4E19	1
VER:SCS	VER:SCS-FHT	4E19	1
VER:SDLIST	VER:SDLIST	4E19	1
VER:SERVICE	VER:SERVICE	4E19	1.6
VER:SPMTXPK	VER:SPMTXPK	4E19	1
VER:SSN:NSN	VER:SSN-NSN	4E19 thru 4E23	1.5
VER:TASI	VER:TASI	4E19	1

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Volume 3 Alphabetical Index (Continued)

MESSAGE NAME	MESSAGE ID	START GENERIC	ISSUE
VER:TERMLIST	VER:TERMLIST	4E19	1
VER:TFNB	VER:TFNB	4E19	1
VER:TOS	VER:TOS	4E19	1
VER:TRK	VER:TRK	4E19	1.3
VER:TRK:a b,OPT COOB	VER:TRK-COOB	4E21	1.6
VER:TRK:LACID	VER:TRK-LACID	4E19	1.6
VER:TRK:LACID	VER:TRK-LACID-SR	4E19	1.6
VER:TRK:PTAN	VER:TRK-PTAN	4E21	1.6
VER:TRKNAME	VER:TRKNAME	4E22	1.3
VER:TSG	VER:TSG	4E19	1
VER:TSGLIST	VER:TSGLIST	4E26	1.8
VER:TSI:WIDEBAND	VER:TSI-WIDEBAND	4E19	1
VER:TTS	VER:TTS-TTSI	4E19	1
VER:TTSLIST	VER:TTSLIST	4E19	1
VER:UTYPE	VER:UTYPE	4E24	1.6
VER:VFUNC	VER:VFUNC	4E22R2	1.6
VER:VFUNC SCSDATA	VER:VFUNC-SCSDAT	4E22R2	1.6
VER:VFUNC	VER:VFUNC-STAT	4E21 thru 4E23	1.5
VER:VFUNC XTSIIBU	VER:VFUNC-XTSIIB	4E24	1.6
WHEN:ADR	WHEN:ADR	4E21	1.2
WHEN:XADR	WHEN:XADR	4E21	1.2

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ID . . . . . OP:MACLI
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Outputs information about current client(s) of the maintenance control program (MACP).

NOTE: A specific program class must be specified. The printout may be a brief summary, or a detailed printout is available for a single class and subclass. If a class has only one subclass, it is only necessary to specify the class.

2. FORMAT

OP:MACLI,CLASS a[**,SUBCLASS** b][;{**DETL**|**SUM**}]**!**

3. EXPLANATION OF MESSAGE

a	MACP class name (ADMN, AUDT, GUTL, LIBU, MCCC, or MTCE). See Table A.
b	MACP subclass number (0-7).
DETL	Output a detailed printout.
SUM	Output a summary printout (default).

4. SYSTEM RESPONSE

PF	Printout Follows. Followed by the OP:MACLI output message.
RL	Retry Later. No available job request table entry.

5. REFERENCES

PIDENT
MACPROUT

Practice 254-280-210, *Maintenance Control Program*

Output Message
OP:MACLI

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Table A
SYSTEM MAC JOB TYPES

Class		*Subclass*
ADMN Class	(SCC administration interface)	0
AUDT Class	(system audits) System audits	0
GUTL Class	(generic utilities) Generic utilities jobs	0
LIBU Class	(library utilities) System update utilities System test utilities	0,1,2
MCCC Class	(MCC control) System status printouts	0
MTCE Class	(hardware maintenance) Deferred fault recognition Manually requested diagnostics Automatically requested diagnostics Manual requests (remove/restore) Automatic exercises Demand exercises Conversational diagnostics Diagnostic exercises System audit blocking jobs	0,1

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ID . . . . . OP:MEASREPT
WORK CENTER . . MAC
GENERIC . . . . . 4E19 and later
CLASS . . . . . TRFM
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Outputs the following:

- measurement subclasses
- output measurement sets and/or the trunk subgroups and trunk subgroup sizes which appear on the measurement report
- the traffic schedule time tables
- the amount of spare engineer memory for traffic structures.

NOTE: The schedule number is not allowed on the input commands: `OP:MEASREPT{ATT|OTT}` etc; or `OP:MEASREPT:SPAREMEM`.

Format [1] is used to output the trunk subgroups (TSGs) and their sizes appearing on a measurement report.
Format [2] is used to output the measurement subclass and output measurement set appearing on a measurement report.
Format [3] is used to output the traffic schedule time tables (accumulation time table or output time table).
Format [4] is used to output the amount of spare engineered memory for traffic structures.

2. FORMAT

[1] **`OP:MEASREPT`** `a`**`:TSG!`**

[2] **`OP:MEASREPT`** `a`**`:MSCOMS`**`[`**`,TSG`**`]`**`!`**

[3] **`OP:MEASREPT:`**`{`**`ATT|OTT`**`}[,b c][,b c ...]`**`!`**

[4] **`OP:MEASREPT:SPAREMEM!`**

3. EXPLANATION OF MESSAGE

`a`	Schedule number (1 to 23).
`MSCOMS`	Specifies measurement subclass and output measurement set.
`TSG`	Specifies trunk subgroup data.
`ATT`	Specifies outputting of the accumulation time table for the times and intervals specified. If no times are specified, the entire time table is output.

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OTT Specifies outputting of the output time table in a manner identical to the accumulation time table.

SPAREMEM Specifies outputting the amount of spare engineered memory for report accumulation and report related information.

b Day of the week:

SUN

MON

TUE

WED

THU

FRI

SAT

c Output the time table for any day for the times specified. The time is a four-digit number, where the first two digits are the hour (00-23), and the last two digits are the minutes of the quarter-hour (00,15,30,45). The time can be a range.

4. SYSTEM RESPONSE

PF Printout Follows. Followed by an OP:MEASREPT output message.

5. REFERENCES

PIDENT
TRAFMSGS

Practice 234-100-045, *Plant Measurements and Machine Performance Report Description*
Practice 234-152-1x4, *Traffic and Plant Measurements - Machine Administration Center*
(Where x is the 2nd number of the generic issue [i.e., for 4E19 x=9].)

Translation Guide, 4ESS™, TG-4, Division 10, Section 2c

Output Message
OP:MEASREPT

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ID . . . . . OP:MEASTSI
WORK CENTER . . MAC
GENERIC . . . . . 4E19 and later
CLASS . . . . . TRFM
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Outputs the list of time slot interchanges (TSIs) scanned for usage by traffic measurements.

2. FORMAT

`OP:MEASTSI!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`PF` Printout Follows. Followed by an `OP:MEASTSI` output message.

5. REFERENCES

PIDENT
TRAFMSGS

Translation Guide, 4ESS™, TG-4, Division 10, Section 2d

Output Message
`OP:MEASTSI`

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ID . . . . . OP:MONTAB
WORK CENTER . . TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Requests list of all monitor connections to 51A test positions.

2. FORMAT

`OP:MONTAB!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`PF`	Printout Follows. Followed by the `OP:MONTAB` output message.
`RL`	Retry Later. Request could not be honored because of temporary lack of system resources.

5. REFERENCES

PIDENT
TACCTABL

Output Message
`OP:MONTAB`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:MSGRCD
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Outputs messages recorded on disk from the last phase that saved output messages.

2. FORMAT

OP:MSGRCD,FS[**;RDT** a][**:SAVE**]**!**

3. EXPLANATION OF MESSAGE

a — Name of the channel on which to output the saved messages, See the User Guidelines of the *Input Message Document* for a list of channel names. The default is the input channel.

SAVE — Do not free the disk save area after successful completion of the output.

NOTE: If the **SAVE** option is specified, the disk area will not be free to save more messages after the output is completed. If the **SAVE** option is not specified, the area will be free only if the output successfully completes printing of all output messages in the save area.

4. SYSTEM RESPONSE

NG — No Good. No messages are currently saved.

PF — Printout Follows. Followed by an OP:MSGRCD for each message saved on the disk.

RL — Retry Later. A message retrieval is presently in progress.

5. REFERENCES

PIDENT
IOCPMSR1

Input Messages
CLR:MSGRCD
STOP:OP-MSGRCD

Output Message
OP:MSGRCD

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:MUPAUD
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Causes the master control complex (MCC) and utility processor (MUP) audit inhibit status of both MUP 0 and MUP 1 to be printed on the teletypewriter (TTY).

The inhibit status of all four banks for each MUP (0 and 1) will be printed on the TTY. If the MUP is out of service, the status of the corresponding MUP will not be printed on the TTY.

NOTE: The MUP audit data structure consists of four audit banks and each audit bank has 32 audits. Currently, seven audits in audit bank 0 has been implemented:

`BANK 0, NUM 1` — Dual asynchronous receiver transmitter (DUART) counter and timer audits.

`BANK 0, NUM 2` — User stack list audits.

`BANK 0, NUM 3` — Memory management structure audits.

`BANK 0, NUM 4` — Memory parity audits.

`BANK 0, NUM 5` — MCC matrix data structure audit.

`BANK 0, NUM 6` — Three phase audit of internal page translation tables for correct data and verifies that cross-referencing is correct.

`BANK 0, NUM 7` — General MCC global variables audit.

2. FORMAT

`OP:MUPAUD!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`?E`	Syntax Error exists in the message but cannot be resolved to the proper field.
`PF`	Printout Follows.

5. REFERENCES

PIDENT
MCFRMAUD

SEE PROPRIETARY NOTICE ON COVER PAGE

Input Messages

```
ALW:MUPAUD
INH:MUPAUD
STOP:MUPAUD
TEST:MUPAUD
```

Output Messages

```
ALW:MUPAUD
INH:MUPAUD
OP:MUPAUD
TEST:MUPAUD
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:MUPSTAT
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Outputs the current status of the master control complex (MCC) and utility processors (MUPs).

2. FORMAT

`OP:MUPSTAT!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`?I`	Identification field contains an error. No arguments are allowed for `OP:MUPSTAT`.
`PF`	Printout Follows. Followed by an `OP:MUPSTAT` output message.

5. REFERENCES

PIDENT
MCFRBASE

Output Message
`OP:MUPSTAT`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:NCATANOM
WORK CENTER . . MOC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . IATRAP
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Dumps the parameters of a specified non-call associated temporary signaling connection (NCA-TSC) anomaly trap or of all NCA-TSC anomaly traps.

2. FORMAT

OP:NCATANOM,{TRAPN a|**ALL}!**

3. EXPLANATION OF MESSAGE

a	Noncall associated temporary signaling connection anomaly (**NCATANOM**) trap number to be dumped (0-1).
ALL	All **NCATANOM** traps to be dumped.

4. SYSTEM RESPONSE

?D	Data field contains an error. **TRAPN** is not valid for **NCATANOM** trap. Must be 0-1.
?E	Syntax Error exists in the message but cannot be resolved to the proper field.
PF	Printout Follows.
RL	Retry Later.

5. REFERENCES

PIDENTs
NCATFH
TMAD0005

Input Messages
ALW:NCATANOM
INH:NCATANOM
MON:NCATANOM
STOP:MON-NCATANOM

Output Message
OP:NCATANOM

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:NTWKTAB
WORK CENTER . . TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Requests list of active network functions, time remaining and trunks involved (MW, MW10, DLOOP, TEC).

2. FORMAT

OP:NTWKTAB!

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

PF Printout Follows.

5. REFERENCES

PIDENTs
IOCPIMC4
VIFOPCTL

Output Messages
OP:NTWKTAB
ORD:0

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:OA
WORK CENTER . . MOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Displays the office-dependent alarms which are active.

2. FORMAT

OP:OA!

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

PF — Printout Follows. An OP:OA output message will follow to display active office-dependent alarms.

5. REFERENCES

PIDENT
MCFWIOCP

Practice 234-180-253, *Master Control Complex (MCC) Program - Description*

Output Message
OP:OA

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:OOSUNITS
WORK CENTER . . MAC, MOC, NMOC, TEC, TOC
GENERIC . . . . . 4E24 and later
CLASS . . . . . ALL
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Outputs a list of units that are out-of-service.

NOTE: One or more unit types may be specified in which case a separate output message will be printed for each, listing the out-of-service units for that type. If no unit type is specified, a complete out-of-service list will be printed.

2. FORMAT

```
OP:OOSUNITS[:[AUB][,AUI][,CC][,CS][,CSB][,DIF][,DT][,DUS][,EST]
      [,FNS][,FS][,IFB][,IOUS][,MUP][,NCLK][,PCCGW][,PCD][,PS][,PSB]
      [,PUB][,SCLK][,SCS][,SP][,SSD][,TGR][,TMSP][,TSI][,TUC]
      [,VIF][,XTSI]]!
```

3. EXPLANATION OF MESSAGE

AUB	Auxiliary unit bus.
AUI	Auxiliary unit interface.
CC	Central control.
CS	Call store.
CSB	Call store bus.
DIF	Digital interface frame.
DT	Digroup terminal.
DUS	Data unit selector.
EST	Echo suppressor terminal.
FNS	Fan system.
FS	File store.
IFB	Interface Bus.
IOUS	Input/output unit selector.
MUP	Master control complex and utility processor.
NCLK	Network clock.
PCCGW	Individual per call control gateway.

SEE PROPRIETARY NOTICE ON COVER PAGE

PCD	Power control and distribution.
PS	Program store.
PSB	Program store bus.
PUB	Peripheral unit buffer.
SCLK	System clock.
SCS	Service circuit system.
SP	Signal processor.
SSD	Scan and signal distributor.
TGR	Terminal grouping frame.
TMSP	Time multiplexed switch pair.
TSI	Time-slot interchange.
TUC	Tape unit selector.
VIF	Voiceband interface frame.
XTSI	Expanded Time Slot Interchange frame.

4. SYSTEM RESPONSE

PF	Printout Follows. Followed by one or more OP:OOSUNITS output messages.
RL	Retry Later. Request could not be honored due to temporary lack of system resources.

5. REFERENCES

PIDENTs
MACPROUT
MACPAPL4

Output Message
OP:OOSUNITS

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:ORNU
WORK CENTER . . MOC, MAC
GENERIC . . . . . 4E19 and later
CLASS . . . . . RC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

To request the output of the order number of a recent change form that is in the process of being activated.

2. FORMAT

`OP:ORNU!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`NG`	No Good. The recent change system is idle.
`PF`	Printout Follows. Followed by an `OP:ORNU-COMPLET` message specifying the order number of the recent change form in the process of being activated.
`RL`	Retry Later. The order number of the recent change form is not yet available.

5. REFERENCES

PIDENT
RCMAMAIN

Translation Guide, 4ESS™, TG-4, Division 7, Section 10a

Output Message
`OP:ORNU-COMPLET`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:PERIFINH
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Requests a printout of KCODE and peripheral unit pests that are set. If unconditional (**UCL**) is not specified, only pests on in-service units and subunits are printed and should be used only if specific procedures call for it. If **UCL** is specified, all pests are printed without regard to the status of the unit. This includes pests applied to out-of-service units and subunits.

2. FORMAT

OP:PERIFINH[;UCL]!

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

PF — Printout Follows. Messages identifying KCODE and peripheral unit pests that are set will be printed later. If no pests are set, then NONE is printed in the OP:PERIFINH output message.

5. REFERENCES

PIDENT
ERATPEST

Output Message
OP:PERIFINH

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:PHSEHST
WORK CENTER . . MOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Outputs software integrity control programs (SICOs) phase error history.

2. FORMAT

OP:PHSEHST,{CORE|FS}!

3. EXPLANATION OF MESSAGE

CORE	Output most recent 16 phases in core error history.
FS	Output next most recent 16 phases in file store (FS) error history.

4. SYSTEM RESPONSE

PF	Printout Follows. Follow by an OP:PHSEHST output message.
RL	Retry Later. No action blocks available to honor request at this time.

5. REFERENCES

PIDENT
SICOPRGM

Output Message
OP:PHSEHST

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:PMOS
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Outputs task information stored in the Task Control Block (TCB) or the Timed Routine Coordinator (TRC). If keyword **TCB** is used, the TCB content will be dumped. If keyword **TRC** is used, the TRC content will be dumped. If keyword **CHAIN** is used, the TCB, linked task TCB numbers, and their associated information will be dumped.

2. FORMAT

OP:PMOS;{TCB|TRC|CHAIN}!

3. EXPLANATION OF MESSAGE

TCB	Task control block.
TRC	Timed routine coordinator.
CHAIN	The TCB, linked task TCB numbers, and associated information.

4. SYSTEM RESPONSE

PF	Printout Follows. Then an output message corresponding to this message will follow indicating that progress has been made. The actual content including **TCB** number, **TRC** number, task identification, unit type member number, parent task number and child task number will be printed per request.

5. REFERENCES

PIDENTs
PMOSIOHN
PMOSMAIN

Output Message
OP:PMOS

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:PMSTAT
WORK CENTER . . MOC, TEC, TOC
GENERIC . . . . . 4E22 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Outputs the current status of the specified Digital Signal Level 1 (DS1). Data is obtained from Expanded Time Slot Interchange (**XTSI**) DS1 registers in memory. The status of a range of DS1s can be requested via the **NUM** option. The status data for each DS1 may be specified via the **REGS** or **CUR** options. Only one of these status messages will be allowed to run at a time. This message will not be accepted if an INIT:PMSTAT is running concurrently on the same **XTSI**.

2. FORMAT

[1] **OP:PMSTAT,**{**OTAN** a|**TAN** b|**CIN** c|**TSN** d|**XTSI** e,**D3U** f,**DG** g}
[**:NUM** h]{,**REGS(**i[-i]**)**|**CUR**}**!**

[2] **OP:PMSTAT,**{**OTAN** a|**TAN** b|**CIN** c|**TSN** d|**XTSI** e,**D3U** f,**DG** g}
{**:REGS(**i[-i]**)**|**CUR**}**!**

3. EXPLANATION OF MESSAGE

a — Octal trunk appearance number (**OTAN**) of any trunk in the DS1.

b — TSI-SPC-PORT-CHANNEL Trunk Appearance Number (**TAN**) of any trunk in the DS1:

- TSI — A 2-digit decimal number indicating the TSI member number (00-63).
- SPC — A 1-digit decimal number indicating Signaling Processor (SP) of TSI (0-1).
- PORT — A 1-digit decimal number indicating port of Time Slot Interchange (TSI) (0-7).
- CHANNEL — A 3-digit decimal number indicating channel (0-127).

c — Circuit Identification Name (**CIN**) of any trunk in the DS1.

d — Trunk Scanner Number (**TSN**) is broken down into SP-ROW-POINT:

- SP — A 2-digit decimal number indicating the pseudo SP number (00-31).
- ROW — A 3-digit decimal number indicating the row in the SP (000-255).
- POINT — A 2-digit decimal number indicating the point in the row (00-15).

SEE PROPRIETARY NOTICE ON COVER PAGE

NOTE: The **TSN** can be entered in octal by using the format **TSN O'd**.

e	Expanded Time Slot Interchange (**XTSI**) number (0-63).
f	Digital Signal Level 3 Unit (**D3U**) (0-5).
g	Digroup (**DG**) (1-28).
h	Number of consecutive DS1s (1-28) to look at starting from the specified one. That one must be operational.
i	Performance measurement register to be displayed. A range of registers may also be specified (00-35).
CUR	Indicates that performance measurement registers 0 and 33 are to be displayed.

4. SYSTEM RESPONSE

?D	Data field contains an error. Trunk, **XTSI** or digroup data is invalid, e.g. out of range, or equipment identified is nonoperational.
?E	Syntax Error exists in the message but cannot be resolved to the proper field. Invalid message syntax, e.g. invalid combination of keywords.
NG	No Good. **XTSI**-II Performance Monitoring (PM) unavailable.
PF	Printout Follows. An OP:PMSTAT output message will follow.
RL	Retry Later.
RL CODE 1	Retry Later. Switch overload.
RL CODE 2	Retry Later. Currently processing an OP:PMSTAT; one allowed at a time.
RL CODE 3	Retry Later. No Trunk Maintenance Register (TMR) available.
RL CODE 4	Retry Later. Group INIT:PMSTAT in progress.

5. REFERENCES

PIDENTs
TMTCXTSI

Input Messages
INIT:PMSTAT
STOP:OP-PMSTAT

Output Messages
INIT:PMSTAT
OP:PMSTAT

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:PSSTATUS
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Outputs the current program store (PS) status of the system.

Provides status on program stores. The status input message will include information about member numbers, MCODE, suspect stores, duplication of stores, PS bus configuration, central control (CC) configuration, and store bus routing.

2. FORMAT

OP:PSSTATUS!

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

PF	Printout Follows. Indicates than an OP:PSSTATUS output message will follow.
RL	Retry Later. Indicates that there was no available job request table entry.

5. REFERENCES

PIDENT
PSFRBSLV

Output Message
OP:PSSTATUS

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:RASTAT
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Outputs the state of each channel in a recorded announcement machine.

2. FORMAT

OP:RASTAT a!

3. EXPLANATION OF MESSAGE

a	Announcement machine number.

4. SYSTEM RESPONSE

PF	Printout Follows.

5. REFERENCES

PIDENT
SVCTRAMP

Output Message
OP:RASTAT

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:RCBMSG
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . RC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Outputs the text of recent change messages in the buffered state.

2. FORMAT

OP:RCBMSG,ORNU a!

3. EXPLANATION OF MESSAGE

a	Order number of the message to be output.

4. SYSTEM RESPONSE

PF	Printout Follows. Followed by the text of the original RC: message or an error message.

5. REFERENCES

PIDENT
RCMAMAIN

Translation Guide, 4ESS™, TG-4

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:RCBORNU
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . RC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Outputs a list of recent change order numbers for any messages in the recent change message buffer.

2. FORMAT

`OP:RCBORNU!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`PF`	Printout Follows. Followed by an `OP:RCBORNU` output message listing the order numbers, an error message relating to the state of the buffer, or a disk error message.

5. REFERENCES

PIDENT
RCMAMAIN

Translation Guide, 4ESS™, TG-4

Output Message
`OP:RCBORNU`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:RCBSPACE
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . RC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Outputs the amount of available message storage space in the recent change message buffer.

2. FORMAT

OP:RCBSPACE!

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

PF	Printout Follows. Followed by an OP:RCBSPACE output message listing the number of unused 32-word blocks or an error message.

5. REFERENCES

PIDENT
RCMAMAIN

Translation Guide, 4ESS™, TG-4

Output Message
OP:RCBSPACE

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:RCFORM
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . RC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Outputs the format of a recent change message form to be filled out.

2. FORMAT

OP:RCFORM a!

3. EXPLANATION OF MESSAGE

a	Number of the form to be displayed.

4. SYSTEM RESPONSE

?E	Syntax Error exists in the message but cannot be resolved to the proper field. No form number specified or more than one number specified. Enter one form number and resubmit message.
?I	Identification field contains an error. Form number out of range or no form assigned to this number. Determine correct form number and resubmit message.
PF	Printout Follows. Followed by channel reset sequence then blank RC: message for the particular form requested.

5. REFERENCES

PIDENT
RCMAMAIN

Translation Guide, 4ESS™, TG-4

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:RCRORNU
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . RC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Outputs a list of the order numbers in the recent change rollback area.

2. FORMAT

OP:RCRORNU,{LAST a|**ALL}!**

3. EXPLANATION OF MESSAGE

ALL	Output all of the order numbers in the rollback area.
a	Output only those order numbers as specified by a. If a is TAPE, output all the order numbers back to the last tape index in the rollback area. If a is a decimal number, then the last a order numbers will be output.

4. SYSTEM RESPONSE

?I,EXTRA KW	Identification field contains an error. Both keywords specified together.
?I,INV DATA	Identification field contains an error. Argument not proper.
?I,MISS DATA	Identification field contains an error. Argument missing for the **LAST** keyword.
PF	Printout Follows. Followed by the OP:RCRORNU output message.

5. REFERENCES

PIDENTs
RCMAMAIN
RCMUOO

Practice 234-105-005, *Recent Changes, Verification System, Rollback/Rollforward - Description*
Practice 234-180-150, *Recent Changes, Verification System, Rollback/Rollforward - Program*

Output Message
OP:RCRORNU

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:RINGMNTR
WORK CENTER . . MAC, MOC, NMOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Outputs ring traffic handling capabilities as well as the status of the ring. These conditions are monitored once per second.

2. FORMAT

`OP:RINGMNTR!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`PF`	Printout Follows. Followed by the `OP:RINGMNTR` output message.
`RL`	Retry Later. No action blocks available to honor request at this time.

5. REFERENCES

PIDENT
SIMRMNTR

Output Message
`OP:RINGMNTR`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:RTSTAT
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Requests the status of each side of the ringing and tone plant.

2. FORMAT

OP:RTSTAT!

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

PF Printout Follows.

5. REFERENCES

PIDENT
SVCTRTPP

Practice 234-180-242, *Service Circuit Test Program (SVCT) - Description*

Output Message
OP:RTSTAT

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:SCHAN
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Outputs the specified input/output (I/O) signaling system data structure or information.

2. FORMAT

`OP:SCHAN;LINKSTAT!`

3. EXPLANATION OF MESSAGE

`LINKSTAT` Use this keyword to request information relating to the current I/O signaling link equipage and operational status.

4. SYSTEM RESPONSE

`?I,INV KW` Identification field contains an error. Indicates the keyword was not recognized. Check the keyword and re-enter the message.

`PF` Printout Follows. Indicates that an `OP:SCHAN` output message will follow.

5. REFERENCES

PIDENTs
IOCPIMC4
IOCPIOH4

Output Message
`OP:SCHAN`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:SCRN
WORK CENTER . . MOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Used for a request for final handling code count threshold data.

2. FORMAT

OP:SCRN;DETL:STAT FINALCODE,IA DOM,DIG a!

3. EXPLANATION OF MESSAGE

a	Four digit final handling code.

4. SYSTEM RESPONSE

?D	Data field contains an error. Invalid input data.
PF	Printout Follows.

5. REFERENCES

PIDENTs
VRFYFHT
TMAD0005

Output Message
OP:SCRN

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:SDC
WORK CENTER . . MOC, TEC, TOC
GENERIC . . . . . 4E19 and later
TMTC . . . . . PUMTC,
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Outputs a list of service degrading conditions (failures in the network which cause loss of call handling capacity).

2. FORMAT

OP:SDC!

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

PF	Printout Follows.
RL	Retry Later.

5. REFERENCES

PIDENT
PUCNADS

Output Message
OP:SDC

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:SDEXMLST
WORK CENTER . . MAC, MOC, NMOC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Requests the printing of the contents of the Reduction of 800 Double Dip Exemption List. The printout shows the 800 numbers which are considered invalid for the cache table. The maximum number of entries which can be contained in the exemption list is 16.

2. FORMAT

OP:SDEXMLST!

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

PF	Printout Follows. The printing has been initiated and the contents of the exemption list will be printed.

5. REFERENCES

PIDENTs
CCSDSDIW
IOCPIMC4

Output Message
OP:SDEXMLST

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:SDLST
WORK CENTER . . MAC, MOC, NMOC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Requests the printing of the contents of the Reduction of 800 Double Dip cache table. For the Reduction of Double Dip, the printout shows the 800 numbers and their associated network routing numbers (195 numbers). The cache table can contain up to 511 entries. It should be noted that the contents of the cache table are constantly changing when it is active. If the cache table is printed when active, some of the numbers which are printed may be replaced with new 800 numbers by the time the printout is completed.

2. FORMAT

OP:SDLST!

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

PF — Printout Follows. The printing has been initiated and the contents of the cache table will be printed.

5. REFERENCES

PIDENTs
CCSDSDIW
IOCPIMC4

Output Message
OP:SDLST

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:SDYGRP
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Displays the trunk subgroups on the study exclusion list in the format of circuit identification names. Displays the list activity state (INH/ALW) and the total number of trunks excluded from study. This applies to tape recording of international call detailed recording (ICDR) calls only.

2. FORMAT

OP:SDYGRP!

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

NG	No Good. Tape recording of ICDR calls is inhibited.
PF	Printout Follows. An output message will follow.
RL	Retry Later. Repeat this message later.

5. REFERENCES

PIDENT
ICDRPRGM

Input Messages
ALW:SDYGRP
CLR:SDYGRP
IN:SDYGRP
INH:SDYGRP

Output Message
OP:SDYGRP

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:SECTORS
WORK CENTER . . TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Prints the current number of sectors busy for the specified mass announcement service (MAS) frame member number or for all MAS members is the office.

2. FORMAT

OP:SECTORS,{MASMEMN a|**ALL}!**

3. EXPLANATION OF MESSAGE

a	MAS member number.
ALL	All MAS members.

4. SYSTEM RESPONSE

?D	Data field contains an error.
?E	Syntax Error exists in the message but cannot be resolved to the proper field.
PF	Printout Follows.
RL	Retry Later.

5. REFERENCES

PIDENTs
ANNHTTYM
TMAD0005

Output Message
OP:SECTORS

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:SLCSTAT
WORK CENTER . . MOC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Outputs the status of one or all of the signaling link complements (SLCs), for international terminals only, in an office.

2. FORMAT

OP:SLCSTAT;{SLC a|**ALL}!**

3. EXPLANATION OF MESSAGE

ALL	Request to output the status of all signaling link complements.
a	Request to output the status of one signaling complement, represented by a number (0-255).

4. SYSTEM RESPONSE

NG	No Good. The signaling link complement is unassigned, input error, or internal error in outputting the message.
PF	Printout Follows. Followed by an output message giving the results of the request.

5. REFERENCES

PIDENTs
CCISCONT
CCISIOPR
CCISMNAL

Output Message
OP:SLCSTAT

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:SLKSTAT
WORK CENTER . . MOC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Outputs the status of the specified signaling links, their terminal(s), and associated voice frequency links (VFLs) and mate signaling link status.

2. FORMAT

OP:SLKSTAT;{SLK ab**|ALL|OOS|DS}!**

3. EXPLANATION OF MESSAGE

a	A common channel interoffice signaling (CCIS) terminal grouping (TGR) frame number (00-15).
b	A common channel interoffice signaling (CCIS) terminal subunit number within the frame (00-15).
ALL	Request to output the status of all signaling links.
OOS	Request to output the status of all out-of-service signaling links.
DS	Request to output the status of all signaling links designated as carriers of direct signaling traffic.

4. SYSTEM RESPONSE

NG	No Good. The link is unassigned.
NG,RANGE ERROR	No Good. The TGR number or terminal subunit number is greater than 15.
PF	Printout Follows. Followed by an OP:SLKSTAT-2 output message with the results of the request.

5. REFERENCES

PIDENT
CCISIOPR

Output Message
OP:SLKSTAT-2

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:SOAK
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Outputs the number of days a central controller (CC) has left to soak. CC is the only valid unit type for this message.

NOTE: If the soak test was initiated by translator access and print program (XAPP), "DAYS LEFT TO SOAK" may equal five through two routine exerciser (REX) cycles. This ensures that a full five-day soak occurs.

2. FORMAT

OP:SOAK;CC a**!**

3. EXPLANATION OF MESSAGE

a	Member number.

4. SYSTEM RESPONSE

PF	Printout Follows. Followed by the OP:SOAK output message.
NG	No Good. Unit type invalid or unit type not entered.

5. REFERENCES

PIDENT
CCFRTEST

Output Message
OP:SOAK

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:SSN-LINKSTAT
WORK CENTER . . MOC, NMOC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Prints the survivable signaling network (SSN) link status data table. The configuration data represents a local switch's view of the SSN network in both physical connectivity and logical connectivity.

2. FORMAT

OP:SSN;LINKSTAT,{NSN a| **ALL}!**

3. EXPLANATION OF MESSAGE

a	A one to three digit decimal network switch number (1 - 167).
ALL	Requests all valid table entries.

4. SYSTEM RESPONSE

?C	Channel is not valid for this message. Check valid channels for the input message and the message screening class.
?D	Data field contains an error. Entered network switch number (**NSN**) value is invalid due to not being configured in the configuration tables, or it is out of the defined range.
?E	Syntax Error exists in the message but cannot be resolved to the proper field.
?I	Identification field contains an error. An error is in the second field of the message (to the right of the first colon).
PF	Printout Follows.
RL	Retry Later. Survivable signaling network (SSN) signaling transfer point (STP) functionality not enabled.

5. REFERENCES

PIDENTs
IOCCPTX4
IOCPIMC4
IOCPPOM4
IOCPPSC4
SSNOANM

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Message

```
OP:SSN-LINKSTAT
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:SSN-MAN
WORK CENTER . . MOC, NMOC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Requests either a management hinder or a management unhinder of a specified S-link. The specified S-link must be valid and configured on the switch.

2. FORMAT

OP:SSN;MAN,SLK a:{**ON**|**OFF**}**!**

3. EXPLANATION OF MESSAGE

a	A one or two digit decimal S-link identification number (0 - 19).
ON	Management hinder the specified S-link.
OFF	Management unhinder the specified S-link.

4. SYSTEM RESPONSE

?C	Channel is not valid for this message. Check valid channels for the input message and the message screening class.
?D	Data field contains an error. Entered signaling link (**SLK**) value is invalid due to not being configured in the configuration tables, or it is out of the defined range.
?E	Syntax Error exists in the message but cannot be resolved to the proper field.
?I	Identification field contains an error. An error is in the second field of the message (to the right of the first colon).
IP	In Progress. Specified **SLK** not hindered because it is currently in that state.
NG	No Good. Specified **SLK** not hindered because action would cause node isolation (**ON**), or specified **SLK** is not unhindered (**OFF**).
OK	Good. Specified **SLK** successfully hindered or unhindered.
RL	Retry Later. Survivable signaling network (SSN) signaling transfer point (STP) functionality not enabled.

SEE PROPRIETARY NOTICE ON COVER PAGE

5. REFERENCES

PIDENTs
IOCCPTX4
IOCPIMC4
IOCPPOM4
IOCPPSC4
SSNOANM

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:SSN-RT
WORK CENTER . . MOC, NMOC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Prints the survivable signaling network (SSN) routing data table. The configuration data represents a local switch's view of the SSN network in both physical connectivity and logical connectivity.

2. FORMAT

OP:SSN;RT,{NSN a|**ALL}!**

3. EXPLANATION OF MESSAGE

a	A one to three digit decimal network switch number (1 - 167).
ALL	Requests all valid table entries.

4. SYSTEM RESPONSE

?C	Channel is not valid for this message. Check valid channels for the input message and the message screening class.
?D	Data field contains an error. Entered network switch number (**NSN**) value is invalid due to not being configured in the configuration tables, or it is out of the defined range.
?E	Syntax Error exists in the message but cannot be resolved to the proper field.
?I	Identification field contains an error. An error is in the second field of the message (to the right of the first colon).
PF	Printout Follows.
RL	Retry Later. Survivable signaling network (SSN) signaling transfer point (STP) functionality not enabled.

5. REFERENCES

PIDENTs
IOCCPTX4
IOCPIMC4
IOCPPOM4
IOCPPSC4
SSNOANM

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Message
OP:SSN-RT

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:SSN-SLKSTAT
WORK CENTER . . MOC, NMOC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Prints the survivable signaling network (SSN) S-link identity table. The configuration data represents a local switch's view of the SSN network in both physical connectivity, and logical connectivity terms.

2. FORMAT

OP:SSN;SLKSTAT,{**SLK** a|**ALL**}**!**

3. EXPLANATION OF MESSAGE

a	A one to two digit decimal S-link number (0 - 19).
ALL	Requests all valid table entries.

4. SYSTEM RESPONSE

?C	Channel is not valid for this message. Check valid channels for the input message and the message screening class.
?D	Data field contains an error. Entered signaling link (**SLK**) value is invalid due to not being configured in the configuration tables, or it is out of the defined range.
?E	Syntax Error exists in the message but cannot be resolved to the proper field.
?I	Identification field contains an error. An error is in the second field of the message (to the right of the first colon).
PF	Printout Follows.
RL	Retry Later. Survivable signaling network (SSN) signaling transfer point (STP) functionality not enabled.

5. REFERENCES

PIDENTs
IOCCPTX4
IOCPIMC4
IOCPPOM4
IOCPPSC4
SSNOANM

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Message

```
OP:SSN-SLKSTAT
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:SSN-STAT
WORK CENTER . . MOC, NMOC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Prints the survivable signaling network (SSN) link state packet data table. The configuration data represents a local switch's view of the SSN network in both physical connectivity and logical connectivity.

2. FORMAT

OP:SSN;STAT,{NSN a|**ALL}!**

3. EXPLANATION OF MESSAGE

a	A one to three digit decimal network switch number (1 - 167).
ALL	Requests all valid table entries.

4. SYSTEM RESPONSE

?C	Channel is not valid for this message. Check valid channels for the input message and the message screening class.
?D	Data field contains an error. Entered network switch number (**NSN**) value is invalid due to not being configured in the configuration tables, or it is out of the defined range.
?E	Syntax Error exists in the message but cannot be resolved to the proper field.
?I	Identification field contains an error. An error is in the second field of the message (to the right of the first colon).
PF	Printout Follows.
RL	Retry Later. Survivable signaling network (SSN) signaling transfer point (STP) functionality not enabled.

5. REFERENCES

PIDENTs
IOCCPTX4
IOCPIMC4
IOCPPOM4
IOCPPSC4
SSNOANM

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Message
OP:SSN-STAT

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:SSN-TST
WORK CENTER . . MOC, NMOC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Initiates a minimum-hop routing verification test to a specified destination network switch number (NSN). A test message is constructed, sent to the destination NSN, and a response is expected. That response identifies all intermediate NSNs on the network path between the originating NSN and the destination NSN.

2. FORMAT

OP:SSN;TST,NSN a!

3. EXPLANATION OF MESSAGE

a	A one to three digit decimal network switch number (1 - 167).

4. SYSTEM RESPONSE

?C	Channel is not valid for this message. Check valid channels for the input message and the message screening class.
?D	Data field contains an error. Entered **NSN** value is invalid due to not being configured in the configuration tables, or it is out of the defined range.
?E	Syntax Error exists in the message but cannot be resolved to the proper field.
?I	Identification field contains an error. An error is in the second field of the message (to the right of the first colon).
?O	Out of service channel. Unable to send message due to the common network interface (CNI) stream being down, outgoing buffer overflow encountered, translation failure on the **NSN** / point code, or no route available.
IP	In Progress. Test in progress. Only one test allowed at a time.
NG	No Good. Incorrect software state encountered, reported and reset to a sane state. Reattempt immediately or when desired.
PF	Printout Follows. Input message accepted, test initiated.
RL	Retry Later. Survivable signaling network (SSN) signaling transfer point (STP) functionality not enabled.

SEE PROPRIETARY NOTICE ON COVER PAGE

5. REFERENCES

PIDENTs
IOCCPTX4
IOCPIMC4
IOCPPOM4
IOCPPSC4
SSNOANM

Output Message
`OP:SSN-TST`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:SVCSTAT
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Requests a summary of the service status for multi-frequency (MF) receivers, MF transmitters, and common channel interoffice signaling (CCIS) transceivers, if the office is so equipped.

2. FORMAT

OP:SVCSTAT!

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

PF Printout Follows.

5. REFERENCES

PIDENT
SVCTSTAT

Output Message
OP:SVCSTAT

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:SYNCLIST
WORK CENTER . . MOC
GENERIC . . . . . 4E20 and later
CLASS . . . . . PMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Prints a list that indicates the number of Digroup Terminal (DT) or Digital Interface Frame (DIF) Digroups (DG) currently monitored for slips, and the identities of the regular and alternate digroups.

2. FORMAT

`OP:SYNCLIST[;DETL]!`

3. EXPLANATION OF MESSAGE

`DETL`	Will request the results in the form of a detailed list of monitored digroups and the identities of the regular and alternate digroups.

4. SYSTEM RESPONSE

`PF`	Printout Follows.
`RL`	Retry Later.

5. REFERENCES

PIDENT
DFRP

Input Message
`MON:DGSTAT`

Output Message
`OP:SYNCLIST`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:TANTOTAN
WORK CENTER . . MAC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

To output a list of all trunk appearance number-to-trunk appearance number (TANTOTAN) connections of a requested type in the office.

NOTE: The default outputs only those connections that are not propagating supervisory.

2. FORMAT

`OP:TANTOTAN[;SUPV]!`

3. EXPLANATION OF MESSAGE

`SUPV`	Output only those TANTOTAN connections that are propagating supervisory.

4. SYSTEM RESPONSE

`PF`	Printout Follows. Followed by an `OP:TANTOTAN` output message.
`RL`	Retry Later. System resources not available.

5. REFERENCES

PIDENT
TANTOTAN

Output Message
`OP:TANTOTAN`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:TERAWTSG
WORK CENTER . . MOC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Outputs data collected by trunk error analysis for trunk subgroups (TSGs) on the worst trunk subgroup list.

2. FORMAT

`OP:TERAWTSG:{ALL|TCA a}!`

3. EXPLANATION OF MESSAGE

`a`	Trunk control area (TCA) numbers (0-9).
`ALL`	All TCA numbers.

4. SYSTEM RESPONSE

`PF`	Printout Follows. Followed by an `OP:TERAWTSG` output message.

5. REFERENCES

PIDENT
TERA00

Practice 234-100-050, *Error Analysis of Trunks and Trunk-Related Circuits - Description*

Output Message
`OP:TERAWTSG`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:TLPQUEUE
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Requests the printing of the status of the trouble location procedure (TLP) disk queue.

This message will block any of the following input commands until the printing is complete:

```
ALW:TLP:SRCH
CLR:TLPQUEUE
OP:TLPQUEUE
```

See Section C3 Trouble Location Procedure (TLP) in PA-4A002-01 in regard to the concept of:

(a) the TLP disk queue,

(b) a TLP disk queue file,

(c) a TLP disk queue file number.

2. FORMAT

OP:TLPQUEUE;{ALL|TLPFILE a**}!**

3. EXPLANATION OF MESSAGE

ALL The status of every TLP disk queue file will be printed. Some general status data will also be printed.

a The status of only the TLP disk queue file whose TLP disk queue file number equals a will be printed. Some general status data will also be printed.

4. SYSTEM RESPONSE

PF Printout Follows. The request is accepted. An OP:TLPQUEUE output message will follow with the requested status data.

RL Retry Later. A previous ALW:TLP:SRCH, CLR:TLPQUEUE or OP:TLPQUEUE input command has not yet completed.

5. REFERENCES

PIDENTs
DRPPASUB
DRPSUPR

SEE PROPRIETARY NOTICE ON COVER PAGE

Practice 234-280-230, *Trouble Location Procedure Programs - Description*

PA-4A002-01, *4ESS™ User's Manual*

Input Messages
```
ALW:TLP
CLR:TLPQUEUE
OP:TLPQUEUE
```

Output Messages
```
ANALY:TLPF-[unit]
OP:TLPQUEUE
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:TONESTAT
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Outputs the state of one of the duplicated tone trunks distributed by the dedicated time slot interchange (TSI) from the ringing and tone plant or milliwatt supply.

2. FORMAT

OP:TONESTAT,{BT60 a|**BT120** b|**AR** c|**TPT** d|**MW** e|**MW10** f**}!**

3. EXPLANATION OF MESSAGE

a	Busy tone at 60 interruptions per minute (IPM), trunk 0 or 1.
b	Busy tone at 120 IPM, trunk 0 or 1.
c	Audible ring, trunk 0 or 1.
d	Test progress tone, trunk 0 or 1.
e	Milliwatt supply, trunk 0 or 1.
f	-10 db 1004-Hz supply, trunk 0 or 1.

4. SYSTEM RESPONSE

PF	Printout Follows. Followed by an OP:TONESTAT output message.

5. REFERENCES

PIDENT
SVCTRTPP

Practice 234-180-242, *Service Circuit Test Program (SVCT) - Description*

Output Message
OP:TONESTAT

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:TRKHOLD
WORK CENTER . . TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Outputs a list of all the trunks currently in a hold state.

2. FORMAT

`OP:TRKHOLD!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`PF` Printout Follows. Followed by an `OP:TRKHOLD` output message.

5. REFERENCES

PIDENT
TACCORG

Output Message
`OP:TRKHOLD`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:TRKSTAT
WORK CENTER . . MAC, MOC, NMOC, TEC, TOC
GENERIC . . . . . 4E21 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Outputs the maintenance status and trunk state of the specified trunk, or group of trunks.

2. FORMAT

[1] **OP:TRKSTAT,{OTAN** a|**TAN** b|**CIN** c|**TSN** d}[**;SUM**]
[**:TSG,{SDM|SDP|SCP|CAR**}[**,STAT** e]]**!**

[2] **OP:TRKSTAT,{OTAN** a|**TAN** b|**CIN** c|**TSN** d}[**;SUM**]
[**:{SDM|SDP|SCP|CAR|NUM** f}[**,STAT** e]]**!**

[3] **OP:TRKSTAT,{TCA** g|**ALL**}[**;SUM**][**:STAT** e]**!**

[4] **OP:TRKSTAT,{RSD|OSC** h|**ISC** i}[**;SUM**][**:STAT** e]**!**

3. EXPLANATION OF MESSAGE

a — Octal Trunk Appearance Number (**OTAN**) of trunk.

b — TSI-SP-PORT-CHANNEL Trunk Appearance Number (**TAN**) of trunk to be connected:

CHANNEL — A 3-digit decimal number indicating channel, range 0-127.

PORT — A 1-digit decimal number indicating port of Time Slot Interchange (TSI), range 0-6.

SP — a 1-digit decimal number indicating Signaling Processor (SP) of TSI, range 0-1.

TSI — A 2-digit decimal number indicating the Time Slot Interchange (TSI) member number, range 00-63.

c — Circuit Identification Number (**CIN**) of trunk.

d — SP-ROW-POINT Trunk Scanner Number (**TSN**) of trunk to be connected:

POINT — A 2-digit decimal number indicating the point in the row, range 00-15.

ROW — A 3-digit decimal number indicating the row in the SP, range 000-255.

SP — A 2-digit decimal number indicating the SP member number, range 00-31.

SEE PROPRIETARY NOTICE ON COVER PAGE

NOTE: The **TSN** value may be entered in octal using the format **TSN O'**d.

NOTE: If **TSG**, **SDM**, **SDP**, **SCP**, or **CAR** is specified, then the trunk (a,b,c,d) can be any member of the group. If no group is specified, then the status of the single trunk is returned.

SUM Output only a summary message with the number of trunks in the group, possibly modified by **STAT**.

e Old status specification. This can be used to specify that only trunks in the specified group (**TSG**, **TCA**, **ALL**, **SDM**, etc.) that are presently in state e should be outputted. If **STAT** is not specified, then all trunks in the group are outputted. Legal old status values are:

ACT

ALL — This is the default

BLK

MC3 — Integrated Services Digital Network (ISDN) User Part (ISUP) — Unable to signal to far end.

RSF Ring service failure

{MTC|CAD}[,BLK][,LKO[<{MAN|AUT}>]][,DSA[<x>]]

where x = any combination of the following:

AUT — Automatic (e.g., error analysis, test failure)

CAR — Carrier alarm

ESS™ — Any ESS™-controlled DSA reason (e.g., HAW, CAR, etc.)

HAW — High and wet

MAN — Manual

NIU — Network interface unit failure, no protection switch done

RBA — Recent change rollback

SCP — Scan pack matrix family disabled

SDM — Signal distributor matrix pack family disabled

SDP — Signal distributor relay pack family disabled.

SPF — Signal processor failure

TL — Terminate and leave state operational.

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TSF — Common Channel Interoffice Signaling (CCIS) total signaling failure

TSI — Duplex TSI failure

NOTE: Fields of x may be separated by spaces, but total old status specification cannot exceed 21 characters. Also note that not all combinations of old status which can be input can actually exist as a trunk state in 4ESS™.

The traffic state may also be included for **STAT** (see example (a) at end of this explanation). The format and possible traffic states are:

STAT ([e,]**TRAF**<{**UNA**|**HWL**|**HWT**|**IDLE**|**OOSI**|**2WOPB**|**CTRA**|**AUDST**|**AUDLIST**|**CODE** g}

2WOPB — 2-way operator busy

AUDST — Audit state

AUDLIST — Audit list

CAR — 24 trunks, starting with base MOD 24 trunk, will be processed, unless the trunk is on a Voiceband Interface Frame (VIF).

CDTSI — Connected to dedicated TSI.

CODE f — Decimal trunk register state code (see item TR4CODE on COMPOOL)

NOTE: The parentheses are not required if old state is not specified and only a traffic state is specified.

HWL — High and wet list

HWT — High and wet timing

IDLE — Idle

OOSI — Out of service ignore

SCP — Scan matrix pack family.

SDM — Signal distributor matrix pack family, e.g., all trunks on same SD matrix pack as the specified trunk.

SDP — Signal distributor relay pack family.

TNUP — Large scale nailup connection.

UNA — Unassigned

NOTE: If any of the families appear along with **TSG**, then only trunks in the TSG and in the specified family will be outputted, after possible **STAT** e screening.

SEE PROPRIETARY NOTICE ON COVER PAGE

Examples of input messages follow.

(a) Check the status of five consecutive Circuit Identification Numbers (CINs) beginning with specified CIN and output CINs that are idle:

OP:TRKSTAT,CIN 6NCHCILHC82A57T:NUM 5,STAT TRAF<IDLE>!

(b) Output the maintenance state and trunk state of trunks in the same trunk subgroup as the input trunk that are also on the save SD matrix circuit pack:

OP:TRKSTAT,CIN 5NCHCILHC82A57T:TSG,SDM!

RSD All trunks which are ring signaling dependent.

f Decimal number 1-4095 representing the number of consecutive TANs, TSNs, or Traffic Numbers (TFNs), starting with the input trunk, to output, possibly screened by STAT. The form of the input trunk identity, e.g, TAN, determines the type of number which **NUM** identifies. Thus if **TAN** is input, f means consecutive TANS; **TSN** input means consecutive TSNs; and **CIN** input means consecutive TFNs. Only the assigned trunks in the range are output.

g Trunk control area number. Status of each trunk in control area will be output unless **STAT** is also present. To stop a group OP:TRKSTAT message, use input message STOP:OP;TRKSTAT.

ALL The **ALL** keyword specifies that the status of all trunks in the office should be output, or all trunks in the specified **STAT**. To stop a group OP:TRKSTAT message, use input message STOP:OP;TRKSTAT.

h Decimal value of an outgoing signaling characteristic.

i Decimal value of an incoming signaling characteristic.

4. SYSTEM RESPONSE

?D Data field contains an error. Possible causes include invalid **STAT** e specified on group type requests, **TCA** g may be invalid, or the trunk used to specify a group may be unassigned.

?E Syntax Error exists in the message but cannot be resolved to the proper field.

PF Printout Follows. Request is being processed and output message OP:TRKSTAT will follow.

RL Retry Later. Request cannot be processed at this time.

SEE PROPRIETARY NOTICE ON COVER PAGE

5. REFERENCES

PIDENTs
TMAD0001
TMAD0005
TMAD0006
IOCPIMC4

Input Messages
`OP:TSGSTAT`
`SET:TRKSTAT`
`STOP:OP-TRKSTA`

Output Message
`OP:TRKSTAT`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:TSGHC
WORK CENTER . . MOC, TEC, TOC
GENERIC . . . . . 4E23 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Outputs the contents of the trunk subgroup cell data and the contents of the adjunct headcell. When the **LINK** option is input, this message will output the trunk blocks in the input trunk subgroup that are preferred by trunk hunt, and the trunk blocks that are currently non-preferred by trunk hunt.

2. FORMAT

OP:TSGHC,{**CIN** a|**TAN** b|**TSN** c|**OTAN** d}[**;LINK**]**!**

3. EXPLANATION OF MESSAGE

a	Circuit identification number.
b	Trunk appearance number.
c	Trunk scanner number.
d	Octal trunk appearance number.
LINK	Outputs trunk hunt preferred data.

4. SYSTEM RESPONSE

PF	Printout Follows.

5. REFERENCES

PIDENTs
TMAD0005
TMAD0007

Output Message
OP:TSGHC

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:TSGSTAT
WORK CENTER . . MAC, MOC, NMOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Outputs trunk subgroup maintenance status data, in detailed or summary form, for all trunk subgroups (TSGs) in the office, all TSGs in the specified trunk control area, or for a single TSG. The wording in the PURPOSE section should be: See the output message `OP:TSGSTAT-DTL` or `OP:TSGSTAT-SUM` for an explanation of output data. Outputs digital trunk data when certain specified options are requested.

`OP:TSGSTAT;SUM:ISC 0`
This form of the message provides a summarized output which specifies the number of TSGs in the office containing digital trunks and the total number of digital trunks. Circuit assigned digital (CAD) contains the count of active digital trunks.

`OP:TSGSTAT;DETL:ISC 100`
This form of the message will output the identity of each TSG in the office which contains active digital trunks. Additionally, this message provides trunk hunt preferred information.

`OP:TSGSTAT;DETL:ISC 101`
This form of the message will output each common channel interoffice signaling (CCIS) and ISUP TSG in the office. Trunk hunt preferred information is output.

`OP:TSGSTAT;SUM:`{**`OTAN`** b|**`TAN`** c|**`CIN`** d|**`TSN`** e}
This form of the message will output trunk hunt preferred information for the input trunk subgroup.

NOTE: **`OTAN`**, **`TAN`**, **`CIN`**, or **`TSN`** input is used to identify any trunk in the TSG for which the report is desired. **`DETL`** is the default for single TSG status report.

2. FORMAT

[1] **`OP:TSGSTAT[;{SUM|DETL}]:{TCA`** a|**`ALL|RSD|RSDI|RSDQ|OSC`** b|
`ISC` c|**`RSDT|OTAN`** d|**`TAN`** e|**`CIN`** f|**`TSN`** g}**`!`**

[2] **`OP:TSGSTAT;DETL:{OTAN`** d|**`TAN`** e|**`CIN`** f|**`TSN`** g}**`,ISC 102!`**

3. EXPLANATION OF MESSAGE

`SUM` Output summary report only. Output consists of one message containing summary totals only. **`SUM`** is the default for **`TCA`** and **`ALL`** type requests.

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DETL Output detailed status report. Report can consist of several partitioned output messages if **TCA** or **ALL** is requested. **DETL** is the default if a single **TSG** status is requested.

a Trunk control area number of the TSGs to include in the report. Summary type report is the default if **DETL** is not specified.

ALL Include all TSGs in the office in the report. Summary type report is the default if **DETL** is not specified.

RSD Include all ring dependent TSGs in the report.

RSDI Include all integrated services digital network (ISDN) user part (ISUP) TSGs in the report.

RSDQ Include all Q931 TSGs in the report.

b Decimal value of the desired outgoing signaling characteristic, or 0 if TSGs without down chain routing are desired.

c Decimal value of the desired incoming signaling characteristic, or values of 0, 100, 101 for digital trunk data.

RSDT Include all telephone user part (TUP) TSGs in the report.

d Octal trunk appearance number (OTAN) of trunk in TSG for which the report is desired.

e TSI-SP-PORT-CHANNEL trunk appearance number (TAN) of the trunk in the TSG:

- CHANNEL — A 3-digit decimal number indicating channel, range 0-127.
- PORT — A 1-digit decimal number indicating port of TSI. range 0-6.
- SP — A 1-digit decimal number indicating signaling processor (SP) of TSI, range 0-1.
- TSI — A 2-digit decimal number indicating the time slot interchange (TSI) member number, range 00-63.

f Circuit identification number (**CIN**) of trunk in TSG.

g SP-ROW-POINT trunk scanner number (TSN) of the trunk in the TSG:

- POINT — A 2-digit decimal number indicating the point in the row, range 00-15.
- ROW — A 3-digit decimal number indicating the row in the SP, range 000-255.
- SP — A 2-digit decimal number indicating the SP member number, range 00-31.

NOTE: The **TSN** value may be entered in octal using the format **TSN O'**e.

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ISC 102 This keyword will output:

(1) The number of assigned digital trunks.

(2) The number of assigned analog trunks.

(3) The voice path assurance (VPA) cancellation rate for the assigned trunks.

(4) The preferred or non-preferred trunk hunt status of each trunk block.

4. SYSTEM RESPONSE

?E	Syntax Error exists in the message but cannot be resolved to the proper field.
PF	Printout Follows. Output message will follow.
RL	Retry Later.

5. REFERENCES

PIDENTs
TMAD0005
TMAD0006

Input Message
STOP:OP-TSGSTA

Output Messages
OP:TSGSTAT-DTL
OP:TSGSTAT-SUM

SEE PROPRIETARY NOTICE ON COVER PAGE

WARNING
INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

ID . . . . . OP:TSIBP
WORK CENTER . . MOC
GENERIC . . . . . 4E24 Rel. 2 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

WARNING
Because this message changes the memory or uses critical resources of the hardware unit, this message should only be used when directed by technical support.

1. PURPOSE

This command lists the address and type of each breakpoint currently set in an Expanded Time Slot Interchange (**XTSI**) frame; in the frame controllers only; or in a Digital Signal Level 3 Unit (**D3U**), Signal Processing Unit (**SPU**) or In-Band Unit (**IBU**) only. This command also allows the user to request a summary list of which units in an **XTSI** frame contains one or more breakpoints.

Format [1] is used to list the breakpoints in a simplex **XTSI** controller or duplex **XTSI** controllers.

Format [2] is used to list the breakpoints in a **D3U**.

Format [3] is used to list the breakpoints in a **SPU**.

Format [4] is used to list the breakpoints in a **IBU**.

Format [5] is used to list all breakpoints in a frame or a summary of breakpoints in a frame.

2. FORMAT

[1] **OP:TSIBP;XTSI** a**!**

[2] **OP:TSIBP;XTSI** a**,D3U** b**!**

[3] **OP:TSIBP;XTSI** a**,SPU** c**!**

[4] **OP:TSIBP;XTSI** a**,IBU 0!**

[5] **OP:TSIBP;XTSI** a**:{SUM|ALL}!**

3. EXPLANATION OF MESSAGE

a — **XTSI** member number in decimal (0-63). Only even numbered **XTSI** member numbers are allowed.

b — **D3U** number in decimal (0-7).

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`c`	**`SPU`** number in decimal (`0-11`).
`SUM`	Summary only. List any units in the frame (including the controller) that have one or more breakpoints for the specified **`XTSI`** member number.
`ALL`	Detailed report. Lists the address and type for each breakpoint in the controller and units for the given **`XTSI`** member number.

4. SYSTEM RESPONSE

`PF`	Printout Follows. The breakpoint information will be listed for the requested unit(s). An `OP:TSIBP` output message follows giving the results of the request.

5. REFERENCES

PIDENT
XTSIBKPT

Input Message
`CLR:TSIBP`
`SET:TSIBP`

Output Message
`CLR:TSIBP`
`OP:TSIBP`
`REPT:TSIBP`
`SET:TSIBP`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:UTILDS
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Causes all statements comprising the utility data set specified to be printed on the terminal.

2. FORMAT

OP:UTILDS a!

3. EXPLANATION OF MESSAGE

a	Data set name (1-9 alphanumeric characters, the first of which must be alphabetic).

4. SYSTEM RESPONSE

?I,CODE 012	Identification field contains an error. Data set does not exist.
?R,DPLX FAIL	Insufficient system Resources are available to determine the validity of the message. Generic utility program (GULP) cannot be paged to parse the message because the file system is duplex failed.
NG,CODE 019	No Good. Invalid range of line numbers.
NG,CODE 020	No Good. Invalid line number.
PF,CODE 050	Printout will conditionally follow. This acknowledgement is used if disk files are duplex failed and GULP is being paged from tape.
PF,CODE 091	Printout will conditionally follow.
RL,CODE 180	Retry Later. Execution of GULP function is in progress.
RL,CODE 181	Retry Later. Message processing in progress.
RL,CODE 182	Retry Later. Data set input mode in progress on another channel.
RL,CODE 183	Retry Later. Data set execution is in progress.
RL,CODE 184	Retry Later. Message print in progress.
RL,CODE 185	Retry Later. No general buffer table (GBT) available or failure to page in GULP.

5. REFERENCES

PIDENTs
GULPDSET
GULRUTCR

SEE PROPRIETARY NOTICE ON COVER PAGE

Practice 254-280-210, *Maintenance Control Program*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:UTILDS-LINE
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Provides the means to view part or all of the contents of a previously defined data set.

2. FORMAT

OP:UTILDS a[**,LINE** b[-c]]**!**

3. EXPLANATION OF MESSAGE

a	Name of previously defined data set.
b,c	Valid line number for given data set or a range of line numbers for a given data set.

4. SYSTEM RESPONSE

?I,CODE 012	Identification field contains an error. Data set does not exist.
?R,DPLX FAIL	Insufficient system Resources are available to determine the validity of the message. Generic utility program (GULP) cannot be paged to parse the message because the file system is duplex failed.
PF,CODE 050	Printout will conditionally follow. This acknowledgement is used if disk files are duplex failed and GULP is being paged from tape.
PF,CODE 091	Printout will conditionally follow.
RL,CODE 180	Retry Later. Execution of GULP function is in progress.
RL,CODE 181	Retry Later. Message processing in progress.
RL,CODE 182	Retry Later. Data set input mode in progress on another channel.
RL,CODE 183	Retry Later. Data set execution is in progress.
RL,CODE 184	Retry Later. Message print in progress.
RL,CODE 185	Retry Later. No general buffer table (GBT) available or failure to page in GULP.

5. REFERENCES

PIDENTs
GULPDSET
GULRUTCR

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Input Message
IN:UTILDS

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:UTILMTCH
WORK CENTER . . MOC
GENERIC . . . . . 4E21 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Output the status of generic utility program (GULP) match conditions set up using GULP input messages of the form: `WHEN:ADR x;{R|W|RW}` or `WHEN:XADR x;{R|W|RW}`.

2. FORMAT

`OP:UTILMTCH!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`PF` Printout Follows. Followed by an `OP:UTILMTCH` output message.

5. REFERENCES

PIDENT
GULRUTCR

Input Message
`WHEN:ADR`
`WHEN:XADR`

Output Message
`OP:UTILMTCH`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:UTLDSTAB
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Outputs the utility data set table. Causes the name, disk start address, and size of all utility data sets currently stored on file store to be printed.

2. FORMAT

`OP:UTLDSTAB!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`?R,DPLX FAIL`	Insufficient system Resources are available to determine the validity of the message. Generic utility program (GULP) cannot be paged to parse the message because the file system is duplex failed.
`PF,CODE 050`	Printout will conditionally follow. This acknowledgement is used if disk files are duplex failed and GULP is being paged from tape.
`PF,CODE 091`	Printout will conditionally follow.
`RL,CODE 180`	Retry Later. Execution of GULP function is in progress.
`RL,CODE 181`	Retry Later. Message processing in progress.
`RL,CODE 182`	Retry Later. Data set input mode in progress on another channel.
`RL,CODE 183`	Retry Later. Data set execution is in progress.
`RL,CODE 184`	Retry Later. Message print in progress.
`RL,CODE 185`	Retry Later. No general buffer table (GBT) available or failure to page in GULP.

5. REFERENCES

PIDENTs
GULPDSET
GULRUTCR

Practice 234-301-003, *1B Processor Generic Utility Program (GULP) Application - Description*

PA-4A002-01, *4ESS™ User's Manual*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:VCNT
WORK CENTER . . MAC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Prints vacant code daily analysis report. Daily analysis report is automatically printed at 1:10 a.m. But when report is requested via **OP:VCNT**, long-term file or counts are not zeroed.

2. FORMAT

OP:VCNT;{CUR|PRE}!

3. EXPLANATION OF MESSAGE

CUR	Current day.
PRE	Previous day.

4. SYSTEM RESPONSE

?E	Syntax Error exists in the message but cannot be resolved to the proper field.
PF	Printout Follows.
RL	Retry Later. No storage available to process request.

5. REFERENCES

PIDENT
VCNTANAL

Output Message
OP:VCNT-WORST

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:XALM
WORK CENTER . . MOC
GENERIC . . . . . 4E21 Rel. 4 and later
CLASS . . . . . TOC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

The purpose of this message is to determine the types of Expanded Time Slot Interchange (**XTSI**) Facility Alarm or Alarm abatement printing to the maintenance channel which have been inhibited.

Format [1] is used to obtain the office inhibit status; the per **XTSI** inhibit status; the per Digital Signal Level 3 Interface Unit (**D3U**) inhibit status; this request will only output data for those **XTSI**s that are inhibited.

Format [2] is used to obtain the office inhibit status; the per input **XTSI** inhibit status.

Format [3] is used to obtain the office inhibit status; and the per inputs **XTSI**, **D3U** inhibit status.

2. FORMAT

[1] **OP:XALM!**

[2] **OP:XALM:XTSI** a**!**

[3] **OP:XALM:XTSI** a**,D3U** b**!**

3. EXPLANATION OF MESSAGE

a	**XTSI** member number.
b	**D3U** unit number (0-5).

4. SYSTEM RESPONSE

?D	Data field contains an error. Illegal or invalid data input.
PF	Printout Follows.

5. REFERENCES

PIDENT
TMTCXTMM
TMTCXTSI

Input Messages
ALW:XALM
INH:XALM

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Output Message
OP:XALM

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ID . . . . . OP:XPWRSTAT
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

To print out the status of both miscellaneous power (XPWR) units.

This input message generates a print-out containing the current states and statuses of both XPWRs.

2. FORMAT

OP:XPWRSTAT!

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

PF Printout Follows.

5. REFERENCES

PIDENT
XPFRBASE

Input Messages
DGN:XPWR
RMV:XPWR
RST:XPWR

Output Messages
DGN:XPWR
OP:XPWRSTAT
RMV:XPWR
RST:XPWR

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ORD:ALTIDMWF
WORK CENTER . . TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Sets up or releases a connection to use voiceband interface frame (VIF) or voiceband interface unit (VIU) functions to place an analog loop across the specified trunk at its input to the VIU and to transmit digital milliwatt toward the facility side of the trunk.

NOTE: The `SET:CONN` input message may request a no-outpulse connection to the trunk on which this function was applied (if the output `ORD:` message comes back with a completed response).

2. FORMAT

`ORD:ALTIDMWF;{OPR|RLS}:{OTAN a|TAN b|CIN c|TSN d}!`

3. EXPLANATION OF MESSAGE

`OPR` Set up the connection.

`RLS` Drop the connection.

`a` Octal trunk appearance number (**`OTAN`**) of the trunk to be connected.

`b` TSI-SP-PORT-CHANNEL trunk appearance number (**`TAN`**) of trunk to be connected.

- `CHANNEL` — A 3-digit decimal number indicating channel, range 0-127.
- `PORT` — A 1-digit decimal number indicating port of time slot interchange (TSI), range 0-6.
- `SP` — A 1-digit decimal number indicating signaling processor (SP) of TSI, range 0-1.
- `TSI` — A 2-digit decimal number indicating the time slot interchange (TSI) member numbers, range 00-63.

`c` Circuit identification name (**`CIN`**) of the trunk to be connected.

`d` SP-ROW-POINT trunk scanner number (**`TSN`**) of trunk to be connected.

- `POINT` — A 2-digit decimal number indicating the point in the row, range 00-15.
- `ROW` — A 3-digit decimal number indicating the row in the SP, range 000-255.
- `SP` — A 2-digit decimal number indicating the SP member number, range 00-31.

SEE PROPRIETARY NOTICE ON COVER PAGE

NOTE: The TSN may be entered in a 6-digit octal number using the form **`TSN O'`**d.

4. SYSTEM RESPONSE

`PF`	Printout Follows. Followed by an output message.
`RL`	Retry Later. System resources not available.

5. REFERENCES

PIDENT
VIFOPCTL

Input Message
`SET:CONN`

Output Message
`ORD:O`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ORD:ALTIVU
WORK CENTER . . TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Sets up or releases a connection to use voiceband interface frame (VIF) or voiceband interface unit (VIU) functions to place an analog loop across a specified trunk at the input of VIU.

NOTE: The `SET:CONN` input message to request a no-outpulse connection to this trunk may be used following a completed response to this message.

2. FORMAT

`ORD:ALTIVU;{OPR|RLS}:{OTAN a|TAN b|CIN c|TSN d}!`

3. EXPLANATION OF MESSAGE

`OPR` Set up the connection.

`RLS` Drop the connection.

`a` Octal trunk appearance number (**`OTAN`**) of the trunk to be connected.

`b` TSI-SP-PORT-CHANNEL trunk appearance number (**`TAN`**) of trunk to be connected.

- `CHANNEL` — A 3-digit decimal number indicating channel, range 0-127.
- `PORT` — A 1-digit decimal number indicating port of time slot interchange (TSI), range 0-6.
- `SP` — A 1-digit decimal number indicating signaling processor (SP) of TSI, range 0-1.
- `TSI` — A 2-digit decimal number indicating the time slot interchange (TSI) member number, range 00-63.

`c` Circuit identification number (**`CIN`**) of the trunk to be connected.

`d` SP-ROW-POINT trunk scanner number (**`TSN`**) of trunk to be connected.

- `POINT` — A 2-digit decimal number indicating the point in the row, range 00-15.
- `ROW` — A 3-digit decimal number indicating the row in the SP, range 000-255.
- `SP` — A 2-digit decimal number indicating the SP member number, range 00-31.

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NOTE: The **TSN** may be entered in a 6-digit octal number using the form **TSN O'**d.

4. SYSTEM RESPONSE

PF	Printout Follows. Followed by an output message.
RL	Retry Later. System resources not available.

5. REFERENCES

PIDENT
VIFOPCTL

Input Message
SET:CONN

ID . . . . . ORD:DLOOP
WORK CENTER . . TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Establishes or removes a connection between a network digital loop and a specified trunk.

2. FORMAT

ORD:DLOOP;{OPR[,DURATION a]|**RLS**}[,**RDC**][,**UCL**]:{**OTAN** b|**TAN** c|**CIN** d|**TSN** e}**!**

3. EXPLANATION OF MESSAGE

OPR Establish connection.

a The time limit, in seconds, to maintain the connection (1 to 1800). Default is 30 seconds. (Only valid on OPR request - **OPR** keyword specified.) The maximum time on common channel interoffice signaling (CCIS) is 3600 seconds.

RLS Release connection.

RDC "RED" circuit keyword. Must be specified for special circuits designated as "RED" circuits.

UCL Specified when request is on a D-channel. Associated B-channels are expected to be in states compatible with D-channel testing prior to test request.

b Octal trunk appearance number (**OTAN**) of the trunk to be connected.

c TSI-SP-PORT-CHANNEL trunk appearance number (**TAN**) of trunk to be connected:

- CHANNEL — A 3-digit decimal number indicating channel, range 0-127.
- PORT — A 1-digit decimal number indicating port of time slot interchange (TSI), range 0-6.
- SP — A 1-digit decimal number indicating signaling processor (SP) of TSI, range 0-1.
- TSI — A 2-digit decimal number indicating the time slot interchange (TSI) member number, range 00-63.

d Circuit identification number (**CIN**) of the trunk to be connected.

e SP-ROW-POINT trunk scanner number (**TSN**) of trunk to be connected:

- POINT — A 2-digit decimal number indicating the point in the row, range 00-15.

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ROW — A 3-digit decimal number indicating the row in the SP, range 000-255.

SP — A 2-digit decimal number indicating the SP member number, range 00-31.

NOTE: The **TSN** may be entered in a 6-digit octal number using the form **TSN O'**e.

4. SYSTEM RESPONSE

?D	Data field contains an error.
?E	Syntax Error exists in the message but cannot be resolved to the proper field.
PF	Printout Follows. Followed by an output message.
RL	Retry Later. System resources not available.

5. REFERENCES

PIDENTs
IOCPIMC4
TMAD0005
VIFOPCTL

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ORD:DMWTF
WORK CENTER . . TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Sets up or releases a connection to use voiceband interface frame (VIF) or voiceband interface unit (VIU) functions to transmit digital milliwatt toward the facility side of a specified trunk.

2. FORMAT

ORD:DMWTF;{OPR|RLS}:{OTAN a**|TAN** b**|CIN** c**|TSN** d**}!**

3. EXPLANATION OF MESSAGE

OPR Set up the connection.

RLS Drop the connection.

a Octal trunk appearance number (**OTAN**) of the trunk to be connected.

b TSI-SP-PORT-CHANNEL trunk appearance number (**TAN**) of trunk to be connected.

- CHANNEL — A 3-digit decimal number indicating channel, range 0-127.
- PORT — A 1-digit decimal number indicating port of time slot interchange (TSI), range 0-6.
- SP — A 1-digit decimal number indicating signaling processor (SP) of TSI, range 0-1.
- TSI — A 2-digit decimal number indicating the time slot interchange (TSI) member number, range 00-63.

c Circuit identification number (**CIN**) of the trunk to be connected.

d SP-ROW-POINT trunk scanner number (**TSN**) of trunk to be connected.

- POINT — A 2-digit decimal number indicating the point in the row, range 00-15.
- ROW — A 3-digit decimal number indicating the row in the SP, range 000-255.
- SP — A 2-digit decimal number indicating the SP member number, range 00-31.

NOTE: The **TSN** may be entered in a 6-digit octal number using the form **TSN O'**d.

SEE PROPRIETARY NOTICE ON COVER PAGE

4. SYSTEM RESPONSE

PF	Printout Follows. Followed by an output message.
RL	Retry Later. System resources not available.

5. REFERENCES

PIDENT
VIFOPCTL

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ORD:DS1LOOP
WORK CENTER . . TEC, TOC
GENERIC . . . . . 4E22 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Establishes, removes or reads a loopback connection between a 1.544 Mbps 24-Channel Digital Signal Level 1 (**DS1**) and a Expanded Time Slot Interchange (**XTSI**).

2. FORMAT

[1] **ORD:DS1LOOP;READ:**{**XTSI** a,**D3U** b,**DS1** c|**XTSI** a,**D3U** b|**XTSI** a|**ALL**}**!**

[2] **ORD:DS1LOOP;**{**OPR**|**RLS**}**:XTSI** a,**D3U** b,**DS1** c**!**

3. EXPLANATION OF MESSAGE

OPR	Activate connection.
RLS	Release connection.
READ	Read the connection.
a	A 2-digit decimal number indicating the Expanded Time Slot Interchange (**XTSI**) member number (00-63), even member numbers only and has Digital Signal Level 3 Unit (**D3U**) terminating subunits for 44-736 Mbps 672-Channel Digital Signal Level 3 (DS3) associated with it.
b	Member number of **D3U** (0-5).
c	Member number of **DS1** (1-28).
ALL	All DS1s for the switch as a whole.

4. SYSTEM RESPONSE

?D	Data field contains an error. The loopback request has been denied. A required keyword argument is missing.
?E	Syntax Error exists in the message but cannot be resolved to the proper field. The loopback request was rejected. The program was unable to parse the Input Message (IM).
?I	Identification field contains an error. The loopback request has been denied. A required keyword is missing, a keyword argument is out of range, extra keyword or keyword argument when specified.
PF	Printout Follows. The loopback request has been accepted. An Output Message (OM) will follow to indicate the status of the loopback request.

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RL	Retry Later. The loopback request has been denied. System resources not available.

5. REFERENCES

PIDENTs
XTSILPBK

Output Message
ORD:DS1LOOP

ID ORD:DS3LOOP
WORK CENTER . . TEC, TOC
GENERIC . . . . . 4E22 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Establishes, removes or reads a loopback connection between a 44-736 Mbps 672-Channel Digital Signal Level 3 (**DS3**) and a Expanded Time Slot Interchange (**XTSI**).

2. FORMAT

[1] **ORD:DS3LOOP;READ:{XTSI a,D3U b|XTSI a|ALL}!**

[2] **ORD:DS3LOOP;{OPR|RLS}:XTSI a,D3U b!**

3. EXPLANATION OF MESSAGE

OPR	Activate connection.
RLS	Release connection.
READ	Read the connection.
a	A 2-digit decimal number indicating the Expanded Time Slot Interchange (**XTSI**) member number (00-63), even member numbers only and has Digital Signal Level 3 Unit (**D3U**) terminating subunits 44-736 Mbps 672-Channel **DS3** associated with it.
b	Member number of **D3U** (0-5).
ALL	All **DS3**s for the switch as a whole.

4. SYSTEM RESPONSE

?D	Data field contains an error. The loopback request has been denied. A required keyword argument is missing.
?E	Syntax Error exists in the message but cannot be resolved to the proper field. The loopback request was rejected. The program was unable to parse the Input Message (IM).
?I	Identification field contains an error. The loopback request has been denied. A required keyword is missing, a keyword argument is out of range, extra keyword or keyword argument when specified.
PF	Printout Follows. The loopback request has been accepted. An Output Message (OM) will follow to indicate the status of the loopback request.
RL	Retry Later. The loopback request has been denied. System resources not available.

SEE PROPRIETARY NOTICE ON COVER PAGE

5. REFERENCES

PIDENTs
XTSILPBK

Output Message
`ORD:DS3LOOP`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ORD:ES
WORK CENTER . . MOC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Operates, releases, or reads an echo suppressor for a specified trunk. Also reads, operates, or releases a controllable echo canceler.

2. FORMAT

ORD:ES;{OPR|RLS|READ}:{CIN a**|OTAN** b**|TAN** c**|TSN** d**}[,TAG** e**]!**

3. EXPLANATION OF MESSAGE

a — Circuit identification number (**CIN**) of the trunk.

b — Octal trunk appearance number (**OTAN**) of the trunk.

c — TSI-SP-PORT-CHANNEL trunk appearance number (**TAN**) of trunk:

- CHANNEL — A 3-digit decimal number indicating channel (range 0-127).
- PORT — A 1-digit decimal number indicating port of time slot interchange (TSI) (range 0-6).
- SP — A 1-digit decimal number indicating signaling processor (SP) of TSI (range 0-1).
- TSI — A 2-digit decimal number indicating the time slot interchange (TSI) member number (range 00-63).

d — SP-ROW-POINT trunk scanner number (**TSN**) of trunk:

- POINT — A 2-digit decimal number indicating the point in the row (range 00-15).
- ROW — A 3-digit decimal number indicating the row in the SP (range 000-255).
- SP — A 2-digit decimal number indicating the SP member number (range 00-31).

e — Optional, only for CMS (up to 9 characters).

4. SYSTEM RESPONSE

?D — Data field contains an error.

?E — Syntax Error exists in the message but cannot be resolved to the proper field.

SEE PROPRIETARY NOTICE ON COVER PAGE

PF	Printout Follows. Request is being processed an ORD:ES output message will follow.
RL	Retry Later.

5. REFERENCES

PIDENTs
TMAD0005
TMTCEST

Output Message
ORD:ES

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ORD:MCCKEY
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Operates the specified master control complex (MCC) key(s) by toggling the associated point(s) in the peripheral processor interface (PPI).

2. FORMAT

ORD:MCCKEY{ a|,**MCCROW** b,**MCCCOL** c}**!**

3. EXPLANATION OF MESSAGE

a	A mnemonic corresponding to a point or points to be toggled.
b	PPI matrix row of a point to be toggled.
c	PPI matrix column of a point to be toggled.

4. SYSTEM RESPONSE

NG	No Good. Too many keys have been requested; there is no switching control center (SCC) associated with the office, or a key name is assigned to an invalid PPI row.
OK	Good. Key(s) have been operated.
RL	Retry Later. PPI is out of service.

5. REFERENCES

PIDENT
MCCMSCCR

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ORD:MW
WORK CENTER . . TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Establishes or removes a connection between the milliwatt supply and a specified trunk.

Format [1] is used to establish the connection.
Format [2] is used to remove the connection.

2. FORMAT

[1] **ORD:MW;OPR**[**,DURATION** a]:{**OTAN** b|**TAN** c|**CIN** d|**TSN** e}**!**

[2] **ORD:MW;RLS:**{**OTAN** b|**TAN** c|**CIN** d|**TSN** e}**!**

3. EXPLANATION OF MESSAGE

OPR Establish the connection.

RLS Remove the connection.

a The time limit, in seconds, to maintain the connection (1-1800). Default is 30 seconds. Only valid on OPR request - **OPR** keyword specified.

b Octal trunk appearance number (**OTAN**) of the trunk to be connected.

c TSI-SP-PORT-CHANNEL trunk appearance number (**TAN**) of trunk to be connected:

- CHANNEL — A 3-digit decimal number indicating channel, range 0-127.
- PORT — A 1-digit decimal number indicating port of time slot interchange (TSI), range 0-6.
- SP — A 1-digit decimal number indicating signaling processor (SP) of TSI, range 0-1.
- TSI — A 2-digit decimal number indicating the time slot interchange (TSI) member number, range 00-63.

d Circuit identification number (**CIN**) of the trunk to be connected.

e SP-ROW-POINT trunk scanner number (**TSN**) of trunk to be connected:

- POINT — A 2-digit decimal number indicating the point in the row, range 00-15.
- ROW — A 3-digit decimal number indicating the row in the SP, range 000-255.

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SP — A 2-digit decimal number indicating the SP member number, range 00-31.

NOTE: The **TSN** may be entered in a 6-digit octal number using the form **TSN O'**e.

4. SYSTEM RESPONSE

PF	Printout Follows. Followed by an output message.
RL	Retry Later. System resources not available.

5. REFERENCES

PIDENT
VIFOPCTL

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ORD:MW10
WORK CENTER . . TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Establishes or removes a connection between the -10 dbm, 1004-HZ supply and a specified trunk.

2. FORMAT

ORD:MW10;{OPR[,DURATION a]|**RLS**}:{**OTAN** b|**TAN** c|**CIN** d|**TSN** e}**!**

3. EXPLANATION OF MESSAGE

OPR Establish the connection.

RLS Remove the connection.

a The time limit, in seconds, to maintain the connection (1 to 1800). Default is 30 seconds. Only valid on OPR request - **OPR** keyword specified.

b Octal trunk appearance number (**OTAN**) of the trunk to be connected.

c TSI-SP-PORT-CHANNEL trunk appearance number (**TAN**) of trunk to be connected:

- PORT — A 1-digit decimal number indicating port of time slot interchange (TSI), range 0-6.
- SP — A 1-digit decimal number indicating signaling processor (SP) of TSI, range 0-1.
- TSI — A 2-digit decimal number indicating the time slot interchange (TSI) member number, range 00-63.
- CHANNEL — A 3-digit decimal number indicating channel, range 0-127.

d Circuit identification name (**CIN**) of the trunk to be connected.

e SP-ROW-POINT trunk scanner number (**TSN**) of trunk to be connected:

- POINT — A 2-digit decimal number indicating the point in the row, range 00-15.
- ROW — A 3-digit decimal number indicating the row in the SP, range 000-255.
- SP — A 2-digit decimal number indicating the SP member number, range 00-31.

NOTE: The **TSN** may be entered in a 6-digit octal number, using the form **TSN O'**e.

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4. SYSTEM RESPONSE

PF	Printout Follows. Followed by an output message.
RL	Retry Later. System resources not available.

5. REFERENCES

PIDENT
VIFOPCTL

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ORD:RF
WORK CENTER . . TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

To initiate a ring forward, or a forward transfer on a trunk under test (TUT). This message can be used only when a connection exists between the TUT and the trunk access test (TAT) at the 53A test position.

2. FORMAT

ORD:RF:{**CIN** a|**TSN** b|**TAN** c|**OTAN** d}**!**

3. EXPLANATION OF MESSAGE

a — Circuit identification number (**CIN**) of trunk.

b — SP-ROW-POINT trunk scanner number (**TSN**) of trunk:

- POINT — A 2-digit decimal number indicating the point in the row, range 00-15.
- ROW — A 3-digit decimal number indicating the row in the SP, range 000-255.
- SP — A 2-digit decimal number indicating the signaling processor (SP) member number, range 00-31.

c — TSI-SP-PORT-CHANNEL trunk appearance number (**TAN**) of trunk:

- CHANNEL — A 3-digit decimal number indicating channel, range 0-127.
- PORT — A 1-digit decimal number indicating port of time slot interchange (TSI), range 0-6.
- SP — A 1-digit decimal number indicating SP of TSI, range 0-1.
- TSI — A 2-digit decimal number indicating the time slot interchange (TSI) member number, range 00-63.

d — Six-digit octal trunk appearance number (**OTAN**) of trunk.

4. SYSTEM RESPONSE

?D — Data field contains an error.

?E — Syntax Error exists in the message but cannot be resolved to the proper field.

PF — Printout Follows.

SEE PROPRIETARY NOTICE ON COVER PAGE

RL Retry Later.

5. REFERENCES

PIDENTs
TMAD0005
TMAD0006

Output Message
ORD:RF

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ORD:SCAN
WORK CENTER . . MOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Reads a specified universal or miscellaneous scan point or group of points.

NOTE: If pack location is input, all points on the scan pack are read. **TSN**, **TDN**, and **MSN** can be qualified as octal if **O'** is used preceding the octal number.

Examples of input messages follow:

(a) Read all the scan points on the same scan matrix circuit pack as the input trunk:

```
ORD:SCAN;READ:CIN 6NPULILCKMG057T,SCP!
```

(b) Read the first and fourth miscellaneous scan points associated with the input trunk:

```
ORD:SCAN;READ:CIN 24OCLN*TAT****57T,BMP(1,4)!
```

If the **CIN**,**TAN**,**OTAN**,**TSN**,* or **TDN*** specified is for a CCITT No. 5 trunk, then the F1 and F2 universal points and the F1F2 miscellaneous point will be read.

Format [1] is used to read all scan points on circuit pack location.
Format [2] is used to read a specified set of universal points.
Format [3] is used to read a specified miscellaneous scan point or points.

NOTE *: Base **TSN**, **TDN** only. Non-base **TSN**, **TDN** input results in 1 point output.

2. FORMAT

[1] **ORD:SCAN;READ:SP** a,**EQPTLOC** bcc-dd**!**

[2] **ORD:SCAN;READ:**{**CIN** e|**TAN** f|**OTAN** g|**TSN** h|**TDN** i}
[,{**SCP**|**BMP** j|**BMP,ALL**}]**!**

[3] **ORD:SCAN;READ:MSN** k[,**SCP**]**!**

3. EXPLANATION OF MESSAGE

a — Signaling processor (SP) containing the scan point.

bcc-dd — Circuit pack location of the pack containing the scan points to be read:

b — Bay number (0,1,2,5,6, or 7).

cc — Level (inches above floor).

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`dd` — Horizontal position.

`e` Circuit identification number (**CIN**) of trunk.

`f` TSI-SP-PORT-CHANNEL trunk appearance number (**TAN**) of trunk:

- `CHANNEL` — A three-digit decimal number indicating channel (0-127).
- `PORT` — A one-digit decimal number indicating port of time slot interchange (TSI) (0-6).
- `SP` — A one-digit decimal number indicating SP of TSI (0 or 1).
- `TSI` — A two-digit decimal number indicating the time slot interchange (TSI) member number (00-63).

`g` Octal trunk appearance number (**OTAN**) of trunk.

`h` SP-ROW-POINT trunk scanner number (**TSN**) of trunk:

- `POINT` — A two-digit decimal number indicating the point in the row (00-15).
- `ROW` — A three-digit decimal number indicating the row in the SP (for miscellaneous scanner number [**MSN**] and miscellaneous distributor number [**MDN**], 000-127; for **TSN** and **TDN**, 000-255).
- `SP` — A two-digit decimal number indicating the SP member number (00-31).

`i` SP-ROW-POINT **TDN** of trunk.

`j` Base miscellaneous point (**BMP**), it is the increment to be added to the base miscellaneous point. Multiple increments are permitted as well as range of increments. An increment of 1 means the base miscellaneous point. If defaulted, the base miscellaneous point is assumed. If **BMP** is specified on common channel signaling system (CCITT) No. 5 trunk, it will be considered an illegal operation.

BMP,ALL All miscellaneous scan points associated with the specified trunk.

`k` SP-ROW-POINT miscellaneous scanner number (**MSN**).

SCP Scan matrix pack family, i.e., all 16 points on the scan matrix pack as the specified point.

4. SYSTEM RESPONSE

`?D` Data field contains an error.

`?E` Syntax Error exists in the message but cannot be resolved to the proper field. Invalid combinations of keywords. Used or associated argument data is invalid.

SEE PROPRIETARY NOTICE ON COVER PAGE

PF	Printout Follows. Request is being processed and an output message will follow.
RL	Retry Later. System resources not available.

5. REFERENCES

PIDENTs
TMAD0005
TMAD0006

Output Message
ORD:F

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ORD:SD
WORK CENTER . . MOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Operates, releases, or reads one or a group of signal distributor points, by using the optional parameter associated with a point identity.

NOTE: If pack location is input, the specified action is done to all points on the pack.

Examples of input messages follow:

(a) Release all the SD points on the same SD matrix circuit pack as the input trunk:

```
ORD:SD;RLS:CIN 1DWDG1LDGMGO57T,SDM!
```

(b) Operate all the miscellaneous SD points associated with the input trunk:

```
ORD:SD;OPR:CIN 24OCLN*TAT****57T,BMP,ALL!
```

(c) Set CCITT No. 5 trunk F1 SD point to 0, F2 to 1:

```
ORD:SD;TSN 0500001,F1 0, F2 1!
```

Format [1] is used to operate, release, or read all points on the specified circuit pack.
Format [2] is used to operate, release, or read the base miscellaneous points or the signal distributor matrix or applique pack associated with the trunk.
Format [3] is used to operate, release, or read the points on the miscellaneous distributor number.
Format [4] is used to operate or release one or more or all points associated with a common channel signaling system (CCITT) No. 5 trunk.

2. FORMAT

[1] **ORD:SD;{OPR|RLS|READ}:SP** a**,EQPTLOC** bcc-dd**!**

[2] **ORD:SD;{OPR|RLS|READ}:{CIN** e**|TAN** f**|OTAN** g**|TSN** h**|TDN** i**}**
[,{SDP|BMP j**|BMP,ALL|SDM}]!**

[3] **ORD:SD;{OPR|RLS|READ}:MDN** k**[,{SDM|SDP}]!**

[4] **ORD:SD:{CIN** e**|TAN** f**|OTAN** g**|TSN** h**|TDN** i**}[,F1** l**][,F2** m**]**
[,BEF n**]!**

3. EXPLANATION OF MESSAGE

OPR Operate the specified signal distributor point(s).

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RLS Release the specified signal distributor point(s).

READ Read the specified signal distributor point(s).

a Signaling processor (SP) containing the signal distributor point(s).

bcc-dd Circuit pack location of the points on which the action is to be taken:

- b — Bay number (0,1,2,5,6, or 7).
- cc — Level (inches above floor).
- dd — Horizontal position.

e Circuit identification number (**CIN**) of trunk.

f TSI-SP-PORT-CHANNEL trunk appearance number (**TAN**) of trunk:

- CHANNEL — A 3-digit decimal number indicating channel, range 0-127.
- PORT — A 1-digit decimal number indicating port of time slot interchange (TSI), range 0-6.
- SP — A 1-digit decimal number indicating SP of TSI, range 0-1.
- TSI — A 2-digit decimal number indicating the time slot interchange (TSI) member number, range 00-63.

g Octal trunk appearance number (**OTAN**) of trunk.

h SP-ROW-POINT trunk scanner number (**TSN**) of trunk:

- POINT — A 2-digit decimal number indicating the point in the row, range 00-15.
- ROW — A 3-digit decimal number indicating the row in the SP, range (for miscellaneous scanner number [**MSN**] and miscellaneous distributor number [**MDN**]) 000-127, range (for **TSN** and **TDN**) 000-255.
- SP — A 2-digit decimal number indicating the SP member number, range 00-31.

NOTE: The TSN may be entered in a 6-digit octal number using the form **TSN O'**h.

i SP-ROW-POINT **TDN** of trunk:

- POINT — A 2-digit decimal number indicating the point in the row, range 00-15.
- ROW — A 3-digit decimal number indicating the row in the SP, range (for **MSN** and **MDN**) 000-127, range (for **TSN** and **TDN**) 000-255.

SEE PROPRIETARY NOTICE ON COVER PAGE

SP — A 2-digit decimal number indicating the SP member number, range 00-31.

SDP Signal distributor applique pack, that is, all 8 points on the same signal distributor applique pack as the specified point.

j Base miscellaneous point(**BMP**), it is the increment to be added to the base miscellaneous point. Multiple parameters s are permitted as well as range of parameters. A 1 means the base miscellaneous point. If defaulted, the base miscellaneous point is assumed. **BMP** is not allowed on CCITT No. 5 trunk. If **BMP** is specified on CCITT No. 5 trunk, it is considered an illegal operation.

k SP-ROW-POINT miscellaneous scan point (**MDN**):

POINT — A 2-digit decimal number indicating the point in the row, range 00-15.

ROW — A 3-digit decimal number indicating the row in the SP, range (for **MSN** and **MDN**) 000-127, range (for **TSN** and **TDN**) 000-255.

SP — A 2-digit decimal number indicating the SP member number, range 00-31.

BMP,ALL All miscellaneous signal distributor matrix points associated with the specified trunk.

SDM Signal distributor matrix pack, that is points on the same signal distributor pack as the specified point.

l State where CCITT No. 5 trunk F1 universal signal distributor (SD) point is written. 0 equals on-hook, 1 equals off-hook.

m State where CCITT No. 5 trunk F2 universal SD point is written. 0 equals on-hook, 1 equals off-hook.

n State where CCITT No. 5 trunk band elimination filter SD point is written (also known as recognition time control). 0 equals on-hook, 1 equals off-hook.

On a CCITT No. 5 trunk, all points are optional. If one or more points are not specified, the point(s) are left unchanged. That is, the points remain in the state they are in at that time.

4. SYSTEM RESPONSE

?D Data field contains an error.

?E Syntax Error exists in the message but cannot be resolved to the proper field. Invalid combinations of keywords used or associated argument data is invalid.

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PF	Printout Follows. Request is being processed and an ORD:F output message will follow.
RL	Retry Later. System resources not available.

5. REFERENCES

PIDENTs
TMAD0005
TMAD0006

Output Message
ORD:F

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ORD:TANTOTAN
WORK CENTER . . MAC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

To initiate the set-up or the release of a trunk appearance number-to-trunk appearance number (TANTOTAN) connection.

NOTE: Trunks must be CAD.DSA before using the non-supervisory **TANTOTAN** connect. Supervisory **TANTOTAN** connects must have both trunks idle, and at least one of the trunks must be on a test position.

2. FORMAT

```
ORD:TANTOTAN;{CONN|RLS}[,SUPV],{TAN a|TSN b|CIN c|OTAN d}:
      {TAN e|TSN f|CIN g|OTAN h}!
```

3. EXPLANATION OF MESSAGE

CONN Set up the **TANTOTAN** connection.

RLS Take down the **TANTOTAN** connection.

SUPV Supervisory transfer applies to E and M trunks only.

In AT&T offices, one of the trunks must be on a digital trunk test unit (DTTU).

In a LEC office, neither trunk is required to be DTTU if the input channel is MTC, SREC1 or SREC2.

a TSI-SP-PORT-CHANNEL trunk appearance number (**TAN**) of the first trunk:

- CHANNEL — 3-digit decimal number indicating the channel, range 0-127.
- PORT — 1-digit decimal number indicates the port of time slot interchange (TSI), range 0-6.
- SP — 1-digit decimal member number indicating the signaling processor (SP) of TSI, range 0-1.
- TSI — 2-digit decimal number indicating the time slot interchange (TSI) member number, range 00-63.

b SP-ROW-POINT trunk scanner number (**TSN**) of the first trunk:

- POINT — 2-digit decimal number indicating the point in the row, range 00-15.

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ROW — 3-digit decimal number indicating the row in the SP, range 000-255.

SP — 2-digit decimal number indicating the SP member number, range 00-31.

c Circuit identification number (**CIN**) of the first trunk.

d Six-digit octal trunk appearance number (**OTAN**) of the first trunk.

e TSI-SP-PORT-CHANNEL **TAN** of the second trunk:

CHANNEL — 3-digit decimal number indicating the channel, range 000-127.

PORT — 1-digit decimal number indicates the part of TSI, range 0-6.

SP — 1-digit decimal member number indicating the SP of TSI, range 0-1.

TSI — 2-digit decimal number indicating the TSI member number, range 00-63.

f SP-ROW-POINT trunk scanner number (**TSN**) of the second trunk:

POINT — A 2-digit decimal number indicating the point in the row, range 00-15.

ROW — A 3-digit decimal number indicating the row in the SP, range 00-255.

SP — A 2-digit decimal number indicating the SP member number, range 00-31.

g **CIN** of the second trunk.

h Six-digit **OTAN** of the second trunk.

NOTE: The trunk identifier chosen for the second trunk must be the same identifier chosen for the trunk.

Refer to the following examples:

Correct example:

```
ORD:TANTOTAN;CONN, TSN XXXXXXX:TSN XXXXXXX!
```

Incorrect example (not recommended):

```
ORD:TANTOTAN;RLS, TAN XXXXXXX:TSN XXXXXXX!
```

4. SYSTEM RESPONSE

PF Printout Follows. Followed by an ORD:TANTOTAN output message.

RL Retry Later. System resources not available.

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5. REFERENCES

PIDENTs
TANTOTAN
TMAD0005

Output Message
ORD:TANTOTAN

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ORD:TBITS
WORK CENTER . . MOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Controls the T-bits associated with scan points.

NOTE: **TSN**, **TDN**, and **MSN** can be qualified as octal if **O'** is used.

Examples of input messages follow.

(a) Read all the T-bits associated with all the trunks on the same scan matrix circuit pack as the input trunk:

```
ORD:TBITS;READ:CIN 100ILNBHCALN08X57T,SCP!
```

(b) Read all the T-bits associated with all the MSNs associated with the input trunk:

```
ORD:TBITS;READ:CIN 24OCLN*TAT****57T,BMP,ALL!
```

If **READ** is specified, the current state of the T-bits is output. **IGNORE** and **NORM** apply to setting T-bits for miscellaneous scanner numbers (MSNs) only. (T-bits for universal scan points are set when trunks are removed or restored to service using the SET:TRKSTAT input message.) If **IGNORE** is specified, the T-bits for each MSN specified are set to **IGNORE**. If **NORM** is specified, the T-bits are set to the normal accept state for each MSN specified. If a circuit pack location is specified, the action is done for all 16 scan points on the circuit pack. A single point can be specified using MSN or a trunk identity.

If the **CIN**, **TAN**, **OTAN**, **TSN,*** or **TDN*** specified is for a CCITT No. 5 trunk, then the T-bits for the F1 and F2 universal points and the F1F2 miscellaneous point will be read.

Format [1] is used to **READ**, **IGNORE**, or set to **NORM** the T-bits of all points on the specified circuit pack.
Format [2] is used to **READ**, **IGNORE**, or set to **NORM** the T-bits of the base miscellaneous points or the scan matrix pack associated with the trunk.
Format [3] is used to **READ**, **IGNORE**, or set to **NORM** the T-bits of the miscellaneous scan points.

NOTE *: Base **TSN**, **TDN** only. Nonbase **TSN**, **TDN** input results in 1 point output.

2. FORMAT

[1] **ORD:TBITS;{READ|IGNORE|NORM}:SP** a,**EQPTLOC** bcc-dd**!**

[2] **ORD:TBITS;{READ|IGNORE|NORM}**
:{CIN e**|TAN** f**|OTAN** g**|TSN** h**|TDN** i**}[,{SCP|BMP** k**|BMP,ALL}]!**

SEE PROPRIETARY NOTICE ON COVER PAGE

[3] **ORD:TBITS;{READ|IGNORE|NORM}:MSN j[,SCP]!**

3. EXPLANATION OF MESSAGE

READ Output the current state of the T-bits.

IGNORE Set the miscellaneous scan point(s) to ignore.

NOTE: Before using the **IGNORE** message, audit 28 should be inhibited.

NORM Set the miscellaneous scan point(s) to normal (accept).

a Signaling processor (SP) containing the scan point.

bcc-dd Circuit pack location of 16 points on which the action is to be taken:

- b — Bay number (0,1,2,5,6,7).
- cc — Level (inches above floor).
- dd — Horizontal position.

e Circuit identification number (**CIN**) of trunk.

f TSI-SP-PORT-CHANNEL trunk appearance number (**TAN**) of trunk.

- CHANNEL — A 3-digit decimal number indicating channel, range 0-127.
- PORT — A 1-digit decimal number indicating port of time slot interchange (TSI), range 0-6.
- SP — A 1-digit decimal number indicating SP of TSI, range 0-1.
- TSI — A 2-digit decimal number indicating the time slot interchange (TSI) member number, range 00-63.

g Octal trunk appearance number (**OTAN**) of trunk.

h SP-ROW-POINT trunk scanner number (**TSN**) of trunk.

- POINT — A 2-digit decimal number indicating the point in the row, range 00-15.
- ROW — A 3-digit decimal number indicating the row in the SP, range (for miscellaneous scanner number [**MSN**] and miscellaneous distributor number [**MDN**]) 000-127, range (for **TSN** and **TDN**) 000-255.
- SP — A 2-digit decimal number indicating the SP member number, range 00-31.

i SP-ROW-POINT **TDN** of trunk.

SCP Scan matrix pack family, i.e., all 16 points on the scan matrix pack as the specified point.

SEE PROPRIETARY NOTICE ON COVER PAGE

j	Base miscellaneous point (BMP), it is the increment to be added to the base miscellaneous point. Multiple parameters are permitted as well as a range of parameters. A 1 means the base miscellaneous point. If defaulted, the base miscellaneous point is assumed. **BMP** is not allowed on common channel signaling system (CCITT) No. 5 trunk. If **BMP** is specified on CCITT No. 5 trunk, it will be considered an illegal operation.
k	SP-ROW-POINT **MSN**.
BMP,ALL	All miscellaneous scan points associated with the specified trunk.

4. SYSTEM RESPONSE

?D	Data field contains an error.
?E	Syntax Error exists in the message but cannot be resolved to the proper field. Invalid combinations of keywords used, or associated argument data is invalid.
PF	Printout Follows. Request is being processed and an ORD:F (TBITS) output message will follow.
RL	Retry Later. System resources not available.

5. REFERENCES

PIDENTs
TMAD0005
TMAD0006

Input Message
SET:TRKSTAT

Output Message
ORD:F

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ORD:TL
WORK CENTER . . TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

To operate, release, or read the terminate and leave (T&L) status of the given trunk.

2. FORMAT

ORD:TL;{OPR|RLS|READ}[,RDC][,UCL]:{CIN a|**TAN** b|**OTAN** c|**TSN** d**}!**

3. EXPLANATION OF MESSAGE

OPR	Place the designated trunk into a T&L state.
RLS	Remove T&L restriction from the designated trunk.
READ	Output the T&L state for the designated trunk.
RDC	"RED" circuit.
UCL	Unconditional - Used for D channels.

4. SYSTEM RESPONSE

?D	Data field contains an error.
?E	Syntax Error exists in the message but cannot be resolved to the proper field.
PF	Printout Follows. Followed by the ORD:TL output message.

5. REFERENCES

PIDENTs
IOCPIMC4
LSNC00
TMAD0005

Input Messages
OP:TRKSTAT
SET:TRKSTAT

Output Messages
OP:TRKSTAT
ORD:TL
SET:TRKSTAT

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ORD:TRPTCDAT
WORK CENTER . . MOC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

To establish trap reports for reporting time out teleconferencing data use the **START** keyword. To turn the trap off for reporting time out teleconferencing data use the **STOP** keyword.

When indications (traffic count data) show receipt of teleconferencing data that is being timed out, establishing the trap causes reports to print to requesting (input) channel that indicate traffic service position system (TSPS) direct signaling function number of sending TSPS may be routing problem.

2. FORMAT

ORD:TRPTCDAT;[START|STOP]!

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

NG	No Good. Trap being used by another channel.
OK	Good. Input accepted for start action/option.

NOTE: Input message with **STOP** can deactivate other channel's use of trap.

5. REFERENCES

PIDENTs
IOCPIMC4
TCCISCTL

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ORD:VSS-RETRY
WORK CENTER . . TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Results in a callback to the voice storage system (VSS) to request that VSS send a record update for the specified announcement. This message also removes the inhibit external update manual control in a 4ESS™ switch for this announcement and unlocks the inhibit condition in VSS. The `REPT:VSSID` message is output to the operational input/output channel assigned to this announcement.

2. FORMAT

`ORD:VSS;RETRY:VSSID` `a`**`,SID`** `b`**`,{STBY|ACT}!`**

3. EXPLANATION OF MESSAGE

`a`	5-digit voice storage system identification (VSSID).
`b`	7-digit service identification (SID).
`STBY`	Replace standby version of the announcement. If the standby version does not exist, both standby and active versions are replaced. Existing standby audio is destroyed.
`ACT`	Replace both active and standby versions of the announcement.

4. SYSTEM RESPONSE

`?D`	Data field contains an error.
`?E`	Syntax Error exists in the message but cannot be resolved to the proper field.
`OK`	Good. Request accepted.
`PF`	Printout Follows. Output message will print for failures only stating the reason for failure.
`RL`	Retry Later.

5. REFERENCES

PIDENTs
ANNHTTYM
TMAD005

Output Message
`REPT:VSSID`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RCACT:ORNU
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . RC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Activates a recent change that is in the test state.

2. FORMAT

RCACT:ORNU a!

3. EXPLANATION OF MESSAGE

a	Order number of the message to be activated.

4. SYSTEM RESPONSE

PF	Printout Follows. Followed by a RC:ORNU acceptance message or an error message.

5. REFERENCES

PIDENTs
RCMAMAIN
RCMPCNTL

Translation Guide, 4ESS™, TG-4, Division 7

Output Message
RC:ORNU

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RCCNL:RCBORNU
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . RC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Cancels a recent change message that is currently in the buffered state.

2. FORMAT

RCCNL:RCBORNU a!

3. EXPLANATION OF MESSAGE

a	Order number of the message to be canceled.

4. SYSTEM RESPONSE

PF	Printout Follows. Followed by an acceptance message or an error message (messages are removed from the buffer in either of these cases). Followed by complete or partial text of the original RC: message.

5. REFERENCES

PIDENT
RCMAMAIN

Translation Guide, 4ESS™, TG-4

Output Messages
RCCNL:RCBORN-A
RCCNL:RCBORN-S

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RCCNL:ROLLBACK
WORK CENTER . . MOC
GENERIC . . . . . 4E24 and later
CLASS . . . . . RC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

To remove one recent change that has been successfully entered in the system. This message affects the recent change that is next in line for rollback (that is, the recent change that was last entered successfully in the system).

2. FORMAT

`RCCNL:ROLLBACK[;UCL]!`

3. EXPLANATION OF MESSAGE

`UCL`	Unconditional. This variable forces a rollback on a recent change that is restricted from rollback under normal conditions. A list of restricted recent changes is contained in Table 1.

4. SYSTEM RESPONSE

`?C`	Channel is not valid for this message. Not a recent change channel.
`?NG`	Recent change restricted to the Maintenance Operations Center (MOC) work center.
`PF`	Printout Follows.
`RL`	Retry Later.

5. REFERENCES

PIDENT
RCMUOO

Translation Guide, 4ESS™, TG-4, Division 7, Section 10a

Output Message
`REPT:RCCNL-INIT`

SEE PROPRIETARY NOTICE ON COVER PAGE

Table 1

Rollback Restrictions of Recent Change Forms

FORM	DESCRIPTION
107	Change Trunk Subgroup (TSG) characteristics to 2-way TSG
108	Change TSG characteristics to 1-way in TSG
109	Change TSG characteristics to 1-way out TSG
111	Trunk Subgroup conversion (CCIS6/CCS7)
200	Add trunks
202	Delete trunks
203	Add Common Channel Interoffice Signaling (CCIS) trunks
204	Add Voice Frequency Link (VFL) trunks
205	Add new TAN Nailups
206	Delete TAN Nailups
207	LACID to D-Channel Assignment
208	Change Trunk Characteristics
604	Add Public Announcement Service (PAS) announcement
605	Change PAS announcement
606	Delete PAS announcement
607	Add PAS with televote
608	Add PAS with televote continue form
609	Delete PAS with televote
610	Add PAS with cut-through
611	Change PAS with cut-through
612	Delete PAS with cut-through
700	Grow unit type
701	Degrow unit type
702	DIU Function Assignment
705	XTSI Unit Version & Equipage
707	XTSI DS1 Configuration
708	XTSI IBU Sub-Unit Type Data
800	Absolute word change
801	Functional translator change
807	Change Terminal Label Assignments
809	Change Feature Bits
810	Change Miscellaneous Feature Information
812	Enhanced Absolute Word Change

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RCTST:ORNU
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . RC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Places a buffered state recent change message into the test state.

2. FORMAT

`RCTST:ORNU` `a!`

3. EXPLANATION OF MESSAGE

`a`	Order number of the message to be placed in the test state.

4. SYSTEM RESPONSE

`PF`	Printout Follows. Followed by a `RC:ORNU` acceptance message with the results of the action, or an error message.

5. REFERENCES

PIDENTs
RCMAMAIN
RCMPCNTL

Translation Guide, 4ESS™, TG-4

Output Message
`RC:ORNU-[unit]`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RMV:API
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1A-APS
TYPE . . . . . Input

1. PURPOSE

Removes the specified attached processor interface (API) from service.

2. FORMAT

`RMV:API` `a!`

3. EXPLANATION OF MESSAGE

`a`	Member number of the **`API`** (0-15).

4. SYSTEM RESPONSE

`PF`	Printout Follows. Followed by a `RMV:API` output message.
`RL`	Retry Later. No available general buffer table or job request table entry.

5. REFERENCES

PIDENTs
APFRBASE
MIRA

Practice 254-280-114, *Attached Processor Interface Programs*
Practice 254-280-210, *Maintenance Control Program*

Output Message
`RMV:API`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RMV:AUB
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Removes the specified auxiliary unit bus (AUB) from service.

2. FORMAT

RMV:AUB a!

3. EXPLANATION OF MESSAGE

a	Member number of the **AUB** to be removed (0 or 1).

4. SYSTEM RESPONSE

PF	Printout Follows. Followed by a RMV:AUB output message.
RL	Retry Later. No available general buffer table or job request table entry.

5. REFERENCES

PIDENTs
AUFRDFOR
MIRA

Practice 254-280-210, *Maintenance Control Program*

Output Message
RMV:AUB

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RMV:AUI
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Removes the specified auxiliary unit interface (AUI) from service.

2. FORMAT

`RMV:AUI` `a!`

3. EXPLANATION OF MESSAGE

`a`	Member number of the **`AUI`** to be removed (0 or 1).

4. SYSTEM RESPONSE

`PF`	Printout Follows. Followed by a `RMV:AUI` output message.
`RL`	Retry Later. Maintenance control program (MACP) job queue busy.

5. REFERENCES

PIDENTs
AUFRBASE
MIRA

Output Message
`RMV:AUI`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RMV:CC
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Removes the specified central control (CC) from service.

2. FORMAT

RMV:CC a!

3. EXPLANATION OF MESSAGE

a	Member number of the **CC** to be removed (0 or 1).

4. SYSTEM RESPONSE

PF	Printout Follows. Followed by a RMV:CC output message.
RL	Retry Later. No available general buffer table or job request table entry.

5. REFERENCES

PIDENTs
CCFRMAIN
MIRA

Practice 254-280-210, *Maintenance Control Program*

Output Message
RMV:CC

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RMV:CS
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Removes the specified call store (CS) from service. If the removal is completed, an `RST:CS` input message must be typed to restore the unit to service (unless the CS is brought into service by bootstrap).

2. FORMAT

`RMV:CS` `a!`

3. EXPLANATION OF MESSAGE

`a`	Member number of the **`CS`** to be removed (0-39).

4. SYSTEM RESPONSE

`PF`	Printout Follows. Followed by a `RMV:CS` output message.
`RL`	Retry Later. No available general buffer table (GBT) or job request table entry.

5. REFERENCES

PIDENTs
CSFRBSLV
MIRA

Practice 254-280-210, *Maintenance Control Program*

Input Message
`RST:CS`

Output Message
`RMV:CS`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RMV:CS-MCODE
WORK CENTER . . MOC
GENERIC . . . . . 4E20 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Freezes data in a duplicated call store(s) by placing the standby store in the maintenance mode. Must be used after a `WHEN/` clause. Since the action will take place on G-level, timing considerations restrict the number of stores which can be frozen to one.

When a store is frozen, all diagnostic requests for the central control (CC), bus, or non-frozen stores are inhibited. A conditional restore of the frozen store (`RST:CS a`) is necessary to return the system to normal operation. Diagnostics request of the frozen store is allowed, the frozen status is removed, and the store is left in an out of service (OOS) state.

The following format is used to freeze data after a `WHEN/` clause.

2. FORMAT

`RMV:CS,MCODE` `a`**`;FREEZE!`**

3. EXPLANATION OF MESSAGE

`a`	**`MCODE`** of store to be frozen (must be duplicated). Limited to one **`MCODE`**. **`MCODE`** must be a nine bit value, i.e., 770, 776 or 012 etc..
`FREEZE`	Indicates that the store is to be placed in the maintenance mode with the data unaltered.

4. SYSTEM RESPONSE

`?I,CODE 116`	Identification field contains an error. **`MCODE`** value exceeds the maximum.
`NG,CODE 014`	No Good. **`MCODE`** is not duplicated, or the member number (MEMN) specified in the `WHEN/` clause is an invalid store type for the specified **`MCODE`**.
`PF,CODE 091`	Printout will conditionally follow. Printout will follow if trigger is encountered.
`RL,CODE 180`	Retry Later. Execution of generic utility program (GULP) function is in progress.
`RL,CODE 181`	Retry Later. Message processing in progress.
`RL,CODE 182`	Retry Later. Data set input mode in progress on another channel.
`RL,CODE 183`	Retry Later. Data set execution is in progress.

SEE PROPRIETARY NOTICE ON COVER PAGE

`RL,CODE 184` Retry Later. Message print in progress.

5. REFERENCES

PIDENTs
CSFRBSLV
GULPUTPP
GULPUTXP
GULRUTCR

PA-4A002-01, *4ESS™ User's Manual*, Section E2A, Generic Utility Section

Input Messages
`RST:CS`
`WHEN:ADR`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RMV:CSB
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Removes the specified call store bus (CSB) from service. If the removal is completed, an `RST:CSB` input message must be typed to restore the unit to service (unless the bus is brought into service by bootstrap).

2. FORMAT

`RMV:CSB` `a!`

3. EXPLANATION OF MESSAGE

`a`	Member number of the **`CSB`** to be removed (0 or 1).

4. SYSTEM RESPONSE

`PF`	Printout Follows. Followed by a `RMV:CSB` output message.
`RL`	Retry Later. No available general buffer table or job request table entry.

5. REFERENCES

PIDENTs
CSFRBSLV
MIRA

Practice 254-280-210, *Maintenance Control Program*

Input Message
`RST:CSB`

Output Message
`RMV:CSB`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RMV:DIF
WORK CENTER . . MAC, MOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Removes the specified Digital Interface Frame (DIF) submember from service.

2. FORMAT

RMV:DIF a,{**CONTR** b|**DIU** c|**IPUB** d}**!**

3. EXPLANATION OF MESSAGE

a	Member number of the **DIF**.
b	Controller to be removed (0 or 1).
c	Digital Interface Unit (**DIU**) to be removed (0-33).
d	Remove access to bus (0 or 1).

4. SYSTEM RESPONSE

PF	Printout Follows. Followed by a RMV:DIF output message.

5. REFERENCES

PIDENT
MIRA

Practice 254-280-210, *Maintenance Control Program*

Output Message
RMV:DIF

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RMV:DT
WORK CENTER . . MAC, MOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Removes the specified digroup terminal (DT) submember from service.

2. FORMAT

RMV:DT a,{**CONTR** b|**DTU** c}**!**

3. EXPLANATION OF MESSAGE

a	Member number of the **DT**.
b	Controller to be removed (0 or 1).
c	Digroup terminal unit to be removed (0-8).

4. SYSTEM RESPONSE

PF	Printout Follows. Followed by a RMV:DT output message.

5. REFERENCES

PIDENTs
MCFWDT
MIRA

Practice 254-280-210, *Maintenance Control Program*

Output Message
RMV:DT

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RMV:ECOSCTLS
WORK CENTER . . MOC
GENERIC . . . . . 4E20 and later
CLASS . . . . . NMGT
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Allows the office maintenance personnel to globally remove all active extended operating system (EOS) network management (NM) controls such as EOS route list override, ECOS area cancel, ECOS route skip/cancel control.

The switch will remove/deactivate all active ECOS NM controls once the command is entered.

2. FORMAT

RMV:ECOSCTLS!

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

OK	Good. The switch will remove/deactivate all active ECOS NM controls, and inform network managers at network operation center (NOC) of the control status changes through network management operation system (NEMOS).

5. REFERENCES

PIDENTs
IOCPIMC4
NMGTDEM

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RMV:EST
WORK CENTER . . MAC, MOC, NMOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Removes the specified echo suppressor terminal (EST) submember from service.

2. FORMAT

RMV:EST a,{**CONTR** b|**IPUB** c|**ESU** d}**!**

3. EXPLANATION OF MESSAGE

a	Member number of **EST** to be removed (1 - 31).
b	Controller to be removed (0 or 1).
c	Remove access to bus (0 or 1).
d	Remove echo suppressor unit (0 - 14).

4. SYSTEM RESPONSE

PF	Printout Follows. Followed by an output message.

5. REFERENCES

PIDENT
MIRA

Practice 254-280-210, *Maintenance Control Program*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RMV:IFB
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Removes the specified interface bus (IFB) from service.

2. FORMAT

`RMV:IFB` `a!`

3. EXPLANATION OF MESSAGE

`a`	Member number of the **`IFB`** to be removed (0 or 1).

4. SYSTEM RESPONSE

`PF`	Printout Follows. Followed by a `RMV:IFB` output message.
`RL`	Retry Later. No available general buffer table (GBT) or job request table entry.

5. REFERENCES

PIDENT
IFFRBASE

Output Message
`RMV:IFB`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RMV:IOUS
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Remove specified input/output (I/O) unit/subunit from service, if only the input/output unit selector (IOUS) is specified. It is implied that all I/O microprocessor (IOMP) communities and I/O unit controller (IOUC) connected to the IOUS will also be removed. If the IOUS and IOMP are specified, it is implied that all IOUC connected to the IOMP will also be removed. Otherwise, just the specified subunit (IOUC or interface peripheral unit bus [IPUB]) will be removed.

2. FORMAT

RMV:IOUS a[,{**IOUC** b|**IPUB** c|**IOMP** d}]!

3. EXPLANATION OF MESSAGE

a	Member number of the **IOUS** (0-7).
b	I/O unit controller number (0-15).
c	Bus member number (0 or 1).
d	Input/output processor (IOP) microprocessor number (0 or 1).

4. SYSTEM RESPONSE

PF	Printout Follows. Followed by a RMV:IOUS output message.
RL	Retry Later. No available general buffer table (GBT) or job request table entry.

5. REFERENCES

PIDENT
PFLRRRCR

Practice 254-280-210, *Maintenance Control Program*

Output Message
RMV:IOUS

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RMV:MUP
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Removes the specified master control complex (MCC) and utility processor (MUP) from service.

2. FORMAT

RMV:MUP a!

3. EXPLANATION OF MESSAGE

a	Member number of the **MUP** to be removed (0 or 1).

4. SYSTEM RESPONSE

PF	Printout Follows. Followed by a RMV:MUP output message.
RL	Retry Later. Maintenance control program (MACP) job queue busy.

5. REFERENCES

PIDENTs
MCFRBASE
MIRA

Output Message
RMV:MUP

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RMV:NCLK
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Removes the specified network clock (NCLK) chain from service. If **OSC** is specified, then the oscillator will be clamped from the network clock synchronization unit (NCSU) and will be marked out of service. The chain is then restored without the oscillator. This message is to be used when an oscillator is to be replaced.

2. FORMAT

RMV:NCLK 0,{**CHAIN** a|**OSC** b}**!**

3. EXPLANATION OF MESSAGE

a	Chain to be removed (0-3).
b	Oscillator to be removed (0-3).

4. SYSTEM RESPONSE

PF	Printout Follows. Followed by the RMV:NCLK output message.

5. REFERENCES

PIDENTs
MCFWPEMO
MIRA

Practice 234-280-210, *Maintenance Control Program*

Output Message
RMV:NCLK

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RMV:PCD
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Removes the specified power control distribution (PCD) frame from service.

2. FORMAT

RMV:PCD a,{**DAMON 0**|**CONV** b}**!**

3. EXPLANATION OF MESSAGE

a	Member number of the **PCD** frame (0 or 1).
DAMON 0	Distribution circuit to be removed (0).
b	Converter member number (0-2).

4. SYSTEM RESPONSE

PF	Printout Follows. Followed by the RMV:PCD and DGN:PCD output messages.
RL	Retry Later. No available general buffer table or job request table entry.

5. REFERENCES

PIDENT
MIRA

Practice 254-280-210, *Maintenance Control Program*
Practice 254-280-310, *Fault Recovery Program*

Output Messages
DGN:PCD
RMV:PCD

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RMV:PS
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Removes the specified program store (PS) from service. If the removal is completed, a `RST:PS` a input message must be typed to restore the unit to service (unless the PS is brought into service by bootstrap).

2. FORMAT

`RMV:PS` `a!`

3. EXPLANATION OF MESSAGE

`a`	Member number of the **`PS`** to be removed (0-13).

4. SYSTEM RESPONSE

`PF`	Printout Follows. Followed by a `RMV:PS` output message.
`RL`	Retry Later. No available general buffer table (GBT) or job request table entry.

5. REFERENCES

PIDENTs
MIRA
PSFRBSLV

Practice 254-280-210, *Maintenance Control Program*

Input Message
`RST:PS`

Output Message
`RMV:PS`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RMV:PS-MCODE
WORK CENTER . . MOC
GENERIC . . . . . 4E20 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Freezes data in a duplicated program store(s) by placing the standby store in the maintenance mode. Must be used after a `WHEN/` clause. Since the action will take place on G-level, timing considerations restrict the number of stores which can be frozen to one.

When a store is frozen, all diagnostic requests for the central control (CC), bus, or non-frozen stores are inhibited. A conditional restore of the frozen store (`RST:PS a`) is necessary to return the system to normal operation. Diagnostics request of the frozen store is allowed, the frozen status is removed, and the store is left in an out of service (OOS) state.

The following format is used to freeze data in a single store (used after a `WHEN/` clause).

2. FORMAT

`RMV:PS,MCODE` `a`**`;FREEZE!`**

3. EXPLANATION OF MESSAGE

`a`	**`MCODE`** of store to be frozen (must be duplicated). Limited to one **`MCODE`**. **`MCODE`** must be a nine bit value, i.e., 772, 773 or 777.
`FREEZE`	Indicates that the store is to be placed in the maintenance mode with the data unaltered.

4. SYSTEM RESPONSE

`?I,CODE 116`	Identification field contains an error. **`MCODE`** value exceeds the maximum.
`NG,CODE 014`	No Good. **`MCODE`** is not duplicated, or the member number (MEMN) specified in the `WHEN/` clause is an invalid store type for the specified **`MCODE`**.
`PF,CODE 091`	Printout will conditionally follow. Printout will follow if trigger is encountered.
`RL,CODE 180`	Retry Later. Execution of generic utility program (GULP) function is in progress.
`RL,CODE 181`	Retry Later. Message processing in progress.
`RL,CODE 182`	Retry Later. Data set input mode in progress on another channel.
`RL,CODE 183`	Retry Later. Data set execution is in progress.

SEE PROPRIETARY NOTICE ON COVER PAGE

`RL,CODE 184` Retry Later. Message print in progress.

5. REFERENCES

PIDENTs
GULPUTPP
GULPUTXP
GULRUTCR
PSFRBSLV

PA-4A002-01, *4ESS™ User's Manual*, Section E2A, Generic Utility Section

Input Messages
`RST:PS`
`WHEN:ADR`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RMV:PSB
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Removes the specified program store bus (PSB) from service. If the removal is completed, a `RST:PSB` input message must be typed to restore the unit to service (unless the bus is brought into service by bootstrap).

2. FORMAT

`RMV:PSB` `a!`

3. EXPLANATION OF MESSAGE

`a`	Member number of the **`PSB`** to be removed (0 or 1).

4. SYSTEM RESPONSE

`PF`	Printout Follows. Followed by a `RMV:PSB` output message.
`RL`	Retry Later. No available general buffer table (GBT) or job request table entry.

5. REFERENCES

PIDENTs
MIRA
PSFRBSLV

Practice 254-280-210, *Maintenance Control Program*

Input Message
`RST:PSB`

Output Message
`RMV:PSB`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RMV:PUB
WORK CENTER . . MAC, MOC, NMOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Removes the specified peripheral unit bus (PUB) from service. The removal of the PUB will remove the coded enable bus (CEB), the central pulse distributor bus (CPDB), and the peripheral unit answer bus (PUAB).

2. FORMAT

RMV:PUB a!

3. EXPLANATION OF MESSAGE

a Member number of the **PUB** (0 or 1).

4. SYSTEM RESPONSE

PF Printout Follows. Followed by the RMV:PUB output message.

5. REFERENCES

PIDENT
MIRA

Practice 254-280-210, *Maintenance Control Program*
Practice 254-280-310, *Fault Recovery Program*

Output Message
RMV:PUB

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RMV:RA
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Removes a recorded announcement channel, channels, or entire machine from service.

2. FORMAT

RMV:RA a,{**RACHAN** {b|b,b,b...}|**ALL**}**!**

3. EXPLANATION OF MESSAGE

a	Recorded announcement machine number (0 or 1).
b	A channel or list of channels to be removed.
ALL	Remove all channels on the machine.

4. SYSTEM RESPONSE

PF	Printout Follows. Followed by the RMV:RA output message, one message for each channel to be removed.
RL	Retry Later. Recorded announcement teletypewriter (TTY) message processing routine is presently processing another message.

5. REFERENCES

PIDENT
SVCTRAMP

Practice 201-520-101, *Common Systems Recorded Announcement Frame (CSRAF) - Description* SD-97725-01 and SD-97725-02
Practice 201-520-301, *Common Systems Recorded Announcement Frame (CSRAF) - Operating Procedures* SD-97725-01 and SD-97725-02
Practice 201-520-501, *Common Systems Recorded Announcement Frame (CSRAF) - Tests and Trouble Analysis* SD-97725-01 and SD-97725-02
Practice 201-520-701, *Common Systems Recorded Announcement Frame (CSRAF) - Requirements and Adjusting Procedures* SD-97725-01 and SD-97725-02
Practice 234-110-090, *Recorded Announcement Frame - Description*
Practice 234-110-091, *Recorded Announcement Frame - Theory*

Output Message
RMV:RA

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RMV:SCLK
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Removes the specified system clock (SCLK) submember from service.

2. FORMAT

RMV:SCLK 0,{**CONTR** a|**IPUB** b|**REF** c|**NCSU** d}**!**

3. EXPLANATION OF MESSAGE

a	Controller to be removed (0 or 1).
b	Remove access to bus (0 or 1).
c	Reference to be removed (0 or 1).
d	Network clock synchronization unit to be removed (0).

4. SYSTEM RESPONSE

PF	Printout Follows. Followed by the RMV:SCLK output message.

5. REFERENCES

PIDENT
MIRA

Practice 254-280-210, *Maintenance Control Program*

Output Message
RMV:SCLK

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RMV:SCS
WORK CENTER . . MAC, MOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Removes the specified Service Circuit System (SCS) frame submember from service.

2. FORMAT

RMV:SCS a,{**CONTR** b|**SCU** c|**IPUB** d}**!**

3. EXPLANATION OF MESSAGE

a	**SCS** member number (0-7) to be removed.
b	Controller to be removed (0 or 1).
c	Service Circuit Unit (**SCU**) to be removed (0-15).
d	Interface Peripheral Unit Bus (**IPUB**) to be removed (0 or 1).

4. SYSTEM RESPONSE

PF	Printout Follows. Followed by a RMV:SCS output message.

5. REFERENCES

PIDENTs
FRDI----
MIRA
SCSTOPEX
SCSTOPOP
TOPIC000

Practice 234-180-250, *Maintenance Control Program*

Output Message
RMV:SCS

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RMV:SDNMOVDS
WORK CENTER . . MOC
GENERIC . . . . . 4E22 Rel. 2 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Removes the Network Management (NM) specified overrides for Segmentation Directory (SD) from service.

2. FORMAT

RMV:SDNMOVDS!

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

OK Good.

5. REFERENCES

PIDENT
NMGTDEM

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RMV:SIGLK
WORK CENTER . . MOC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Removes the specified signaling link (SLK) from service.

2. FORMAT

`RMV:SIGLK` `ab!`

3. EXPLANATION OF MESSAGE

`a`	A terminal grouping (TGR) frame number (0-15).
`b`	A terminal subunit number within the frame (0-15).

4. SYSTEM RESPONSE

`IP`	In Progress. Followed by a `RMV:SIGLK` output message if the request has been accepted. The `RMV:SIGLK` output message gives the results of the request.
`NG`	No Good. The link is currently manual out-of-service, or is unavailable to the system.
`NG`	No Good. The specified signaling link is unequipped.
`NG RANGE ERROR`	No Good. TGR number or terminal subunit number exceeds fifteen.
`PF`	Printout Follows. Followed by a `RMV:SIGLK` output message if the request has been accepted. The `RMV:SIGLK` output message gives the results of the request.
`RL,CODE 0`	Retry Later. There is not sufficient reserve signaling capability to allow removal of the link.
`RL,CODE 1`	Retry Later. A previous input request for the link is in progress.
`RL,CODE 2`	Retry Later. A removal or configure request is pending on the mate link.
`RL,CODE 3`	Retry Later. A defensive check of internal data has failed while processing the request.

5. REFERENCES

PIDENTs
CCISIOPR
CCISLSIO
CCISSLCN

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Message
RMV:SIGLK

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RMV:SP
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Removes the specified signaling processor (SP) submember from service.

2. FORMAT

RMV:SP a,{**CONTR** b|**IPUB** c|**PPL 0**|**PPR 0**}!

3. EXPLANATION OF MESSAGE

a	Member number of **SP** to be removed.
b	Controller to be removed (0 or 1).
c	Remove access to bus (0 or 1).
PPL 0	Remove pulse point left from service.
PPR 0	Remove pulse point right from service.

4. SYSTEM RESPONSE

PF	Printout Follows. Followed by the RMV:SP output message.

5. REFERENCES

PIDENT
MIRA

Practice 254-280-210, *Maintenance Control Program*

Output Message
RMV:SP

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RMV:SSD
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Removes the specified scan and signal distributor (SSD) from service.

2. FORMAT

RMV:SSD a!

3. EXPLANATION OF MESSAGE

a	Member number of the **SSD** to be removed (0 or 1).

4. SYSTEM RESPONSE

PF	Printout Follows. Followed by a RMV:SSD output message.
RL	Retry Later. No available general buffer table or job request entry.

5. REFERENCES

PIDENT
SSFRBASE

Output Message
RMV:SSD

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RMV:TGR
WORK CENTER . . MAC, MOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Removes the specified terminal grouping (TGR) submember from service.

2. FORMAT

RMV:TGR a,{**CONTR** b|**IPUB** c|**TER** d}**!**

3. EXPLANATION OF MESSAGE

a	Member number of **TGR** to be removed.
b	Controller to be removed (0 or 1).
c	Remove access to bus (0 or 1).
d	Remove terminal (0-15).

4. SYSTEM RESPONSE

PF	Printout Follows. Followed by the RMV:TGR output message.

5. REFERENCES

PIDENT
MIRA

Practice 254-280-210, *Maintenance Control Program*

Output Message
RMV:TGR

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RMV:TMSP
WORK CENTER . . MAC, MOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Removes the specified time multiplexed switch pair (TMSP) submember from service.

2. FORMAT

RMV:TMSP a,{**CONTR** b|**C0IPUB** c|**C1IPUB** d}!

3. EXPLANATION OF MESSAGE

a	Member number of **TMSP** to be removed.
b	Controller to be removed (0 or 1).
c	Remove controller 0 bus access from service (0 or 1).
d	Remove controller 1 bus access from service (0 or 1).

4. SYSTEM RESPONSE

PF	Printout Follows. Followed by the RMV:TMSP output message.

5. REFERENCES

PIDENT
MIRA

Practice 254-280-210, *Maintenance Control Program*

Output Message
RMV:TMSP

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RMV:TONE-MWF
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Removes from service the specified tone trunk distributed by the dedicated time slot interchange (TSI).

2. FORMAT

RMV:TONE,{**BT60** a|**BT120** b|**AR** c|**TPT** d|**MW** e|**MW10** f}**!**

3. EXPLANATION OF MESSAGE

a	Busy tone at 60 interruptions per minute (IPM), trunk 0 or 1.
b	Busy tone at 120 IPM, trunk 0 or 1.
c	Audible ring, trunk 0 or 1.
d	Test progress tone, trunk 0 or 1.
e	Milliwatt supply, trunk 0 or 1.
f	-10-db 1004-Hz supply, trunk 0 or 1.

4. SYSTEM RESPONSE

NG	No Good. Trunk is already out of service.
PF	Printout Follows. Followed by the RMV:TONE message indicating that the trunk was removed or that processing was not started because the mate tone trunk is out of service.

5. REFERENCES

PIDENT
SVCTRTPP

Output Message
RMV:TONE

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RMV:TSI
WORK CENTER . . MAC, MOC, NMOC, TEC, TOC
GENERIC . . . . . 4E21 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Removes the specified Time Slot Interchange (**TSI**) frame from service.

2. FORMAT

RMV:TSI a,{**CONTR** b|**IPUB** c|**ALC** d}!

3. EXPLANATION OF MESSAGE

a	Member number of **TSI** to be removed (0 - 63). Companion member numbers (odd numbers) for TSI-B frames generate Input/Output (I/O) error text.
b	Controller to be removed (0-1).
c	Remove access to bus (0-1).
d	Remove A-link controller (0-1).

4. SYSTEM RESPONSE

PF	Printout Follows. Followed by the RMV:TSI output message.

5. REFERENCES

PIDENT
MCFWPEM0
MIRA
PUCN01

Practice 254-280-210, *Maintenance Control Program*

Input Message
RMV:TSI

Output Messages
RMV:TSI
RST:TSI

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RMV:TVMASTR
WORK CENTER . . MOC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . TRFM
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Starts the termination process for the telephone voting master with **MAPN**. Outputting of counts to the sponsor will terminate when the current set has been output. After all counts are output, if no other masters are using the dial-up connection, it will also be terminated.

2. FORMAT

RMV:TVMASTR,MAPN a!

3. EXPLANATION OF MESSAGE

a	Master application number (**MAPN**).

4. SYSTEM RESPONSE

?I,MISD	Identification field contains an error. No data for **MAPN**.
?I,MISK	Identification field contains an error. Required keyword **MAPN** is missing.
?I,RANGE ERR	Identification field contains an error. **MAPN** is out of range.
NG	No Good. Service not currently undergoing processing.
OK	Good. Termination process started.

5. REFERENCES

PIDENT
TVTECTRL

Translation Guide, 4ESS™, TG-4, Division 3, Section 10
Translation Guide, 4ESS™, TG-4, Division 10

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RMV:VIF
WORK CENTER . . MAC, MOC, NMOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Removes the specified voiceband interface frame (VIF) submember from service.

2. FORMAT

RMV:VIF a,{**CONTR** b|**IPUB** c|**VIU** d}!

3. EXPLANATION OF MESSAGE

a	Member number of **VIF** to be removed (1 through 127).
b	Controller to be removed (0 or 1).
c	Removed access to bus (0 or 1).
d	Remove voiceband interface unit (0 through 7).

4. SYSTEM RESPONSE

PF	Printout Follows. Followed by the RMV:VIF output message.

5. REFERENCES

PIDENT
MIRA

Practice 254-280-210, *Maintenance Control Program*

Output Message
RMV:VIF

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RMV:VSSID
WORK CENTER . . TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Removes the audio for a standby or active version of an announcement. The specified announcement can be either a voice storage system (VSS), direct producer, or manual recording type of announcement. This message should be used only if a serious trouble condition exists. A `REPT:VSSID` message will be output to the operational input/output channel assigned to the particular announcement as a result of this input message.

2. FORMAT

`RMV:VSSID` `a`**`,SID`** `b;{`**`STBY`**`|`**`ACT`**`}`**`!`**

3. EXPLANATION OF MESSAGE

`a`	5-digit voice storage system identification (VSSID).
`b`	7-digit service identification (SID).
`STBY`	Standby version of announcement.
`ACT`	Active version of announcement.

4. SYSTEM RESPONSE

`?D`	Data field contains an error.
`?E`	Syntax Error exists in the message but cannot be resolved to the proper field.
`OK`	Good. Request accepted.
`PF`	Printout Follows. (Output message prints for failures only, and states the reason for failures.)
`RL`	Retry Later.

5. REFERENCES

PIDENTs
ANNHTTYM
TMAD0005

Output Messages
`REPT:VSSID`
`RMV:VSSID`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RMV:XPWR
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Remove the specified miscellaneous power (XPWR) unit from service. The removal of XPWR differs from the removal of other unit types. The XPWR unit will supply power with a current capability unless it is removed physically from the 1B frame. Therefore, out of service (OOS) means that the necessary checks for removal have been passed and the pack may be removed.

2. FORMAT

RMV:XPWR a!

3. EXPLANATION OF MESSAGE

a	Member number of the **XPWR** to be removed (0 or 1).

4. SYSTEM RESPONSE

PF	Printout Follows.
RL	Retry Later. No available general buffer table or job request entry.

5. REFERENCES

PIDENT
XPFRBASE

Input Messages
DGN:XPWR
OP:XPWRSTAT
RST:XPWR

Output Messages
DGN:XPWR
OP:XPWRSTAT
RMV:XPWR
RST:XPWR

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RMV:XTSI
WORK CENTER . . MAC, MOC, NMOC, TEC, TOC
GENERIC . . . . . 4E24 Rel. 2 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Removes the specified Expanded Time Slot Interchange (**XTSI**) frame subunit from service.

2. FORMAT

RMV:XTSI a,{**CONTR** b|**IPUB** c|**ALC** d|**D3U** e|**SPU** f|**IBU 0**}!

3. EXPLANATION OF MESSAGE

a	Member number of **XTSI** to be removed (0-63). Companion member numbers (odd numbers) generate Input/Output (I/O) error text.
b	Controller to be removed (0-1).
c	Remove access to peripheral unit bus (0-1).
d	Remove A-link controller (0-1).
e	Remove Digital Signal 3 Unit (**D3U**) number (0-7).
f	Remove Signal Processing Unit (**SPU**) number (0-11).
IBU 0	Remove In-Band Unit (**IBU**) number (0).

4. SYSTEM RESPONSE

PF	Printout Follows. Followed by the RMV:XTSI output message.

5. REFERENCES

PIDENT
MAINIPUB
MCFWPEMO
MIRA
PSCTOPEX
PSCTOPMS
PSCTOPOP
PUCN01
TOPIC000
XTSTOPEX
XTSTOPMS
XTSTOPOP

SEE PROPRIETARY NOTICE ON COVER PAGE

Practice 254-280-210, *Maintenance Control Program*

Input Message
`RMV:XTSI`

Output Messages
`RMV:XTSI`
`RST:XTSI`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RST:API
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1A-APS
TYPE . . . . . Input

1. PURPOSE

Restores the attached processor interface (API) to service.

2. FORMAT

RST:API a[{**;UCL**|**:TLP**}]**!**

3. EXPLANATION OF MESSAGE

a — Member number of the **API** (0-15).

UCL — Unconditional (**UCL**) restoration. The unit is restored to service without testing or a diagnosis.

TLP — Executes the trouble location procedure (TLP) programs at the conclusion of the diagnostic. These programs generate the suspected faulty equipment message. (See the ANALY:TLPF-*[unit]* output messages.)

NOTE: The **UCL** and **TLP** keywords should not be used together.

4. SYSTEM RESPONSE

?R,DPLX FAIL — Insufficient system Resources are available to determine the validity of the message. Diagnostics are not available from the disk system. (Clear Duplex failure or use SYSRTPAD/TPAD.)

PF — Printout Follows. Followed by a DGN:API output message and, if **UCL** is specified, a RST:API output message.

RL — Retry Later. No available general buffer table or job request table entry.

5. REFERENCES

PIDENTs
APFRBASE
APFRICON
MIRA

Practice 254-280-210, *Maintenance Control Program*
Practice 254-280-310, *Fault Recovery Program*

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Messages

`ANALY:TLPF-`*[unit]*
`DGN:API`
`RST:API`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RST:AUB
WORK CENTER . . MAC, MOC, NMOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E, 1B
TYPE . . . . . Input

1. PURPOSE

Restores the specified auxiliary unit bus (AUB) to service. If unconditional (**UCL**) is specified, the auxiliary unit bus is returned to service without a diagnosis.

2. FORMAT

RST:AUB a[;**UCL**]!

3. EXPLANATION OF MESSAGE

a	Member number of the **AUB** to be restored (0 or 1).

4. SYSTEM RESPONSE

?R,DPLX FAIL	Insufficient system Resources are available to determine the validity of the message. Diagnostics are not available from the disk system. (Clear the Duplex failure or use SYSRTPAD/TPAD.)
PF	Printout Follows. Followed by a RST:AUB output message and, if **UCL** is not specified, a DGN:AUB output message.
RL	Retry Later. No available general buffer table or job request table entry.

5. REFERENCES

PIDENTs
AUFRDFOR
MIRA

Practice 254-280-210, *Maintenance Control Program*

Output Messages
DGN:AUB
RST:AUB
TEST:AUB

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RST:AUI
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Restores the specified auxiliary unit interface (AUI) to service, either conditionally or unconditionally. If restored conditionally, an AUI diagnosis and an AUI deferred fault recognition will be run, both of which must be all tests passed (ATP) if the unit is to be restored to service. If restored unconditionally, no testing is done on the unit to be restored.

2. FORMAT

RST:AUI a[{**;UCL**|**:TLP**}]**!**

3. EXPLANATION OF MESSAGE

a — Member number of the **AUI** to be restored (0 or 1).

UCL — Unconditional (**UCL**) restoration. No testing is to be done on the unit to be restored.

TLP — Execute the trouble location programs (**TLP**) at the conclusion of the diagnostic if it fails. These programs generate the suspected faulty equipment message (see ANALY:TLPF-SUM and ANALY:TLPF-SUS output messages).

4. SYSTEM RESPONSE

?R,DPLX FAIL — Insufficient system Resources are available to determine the validity of the message. Diagnostics are not available from the disk system. (Clear the Duplex failure or use SYSRTPAD/TPAD.)

PF — Printout Follows. Followed by a RST:AUI output message, and if **UCL** is not specified, a DGN:AUI and a TEST:AUI output message.

RL — Retry Later. No available general buffer table (GBT) or job request table entry.

5. REFERENCES

PIDENTs
AUFRBASE
MIRA

Practice 254-280-210, *Maintenance Control Program*

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Messages

```
ANALY:TLPF-SUM
ANALY:TLPF-SUS
DGN:AUI
RST:AUI
TEST:AUI
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RST:CC
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Restores the specified central control to service, either conditionally or unconditionally. If restored conditionally, a central control (CC) diagnosis and a CC deferred fault recognition will be run, both of which must be all tests passed (ATP) if the unit is to be restored to service. If restored unconditionally, no testing is done on the unit to be restored.

2. FORMAT

RST:CC a[{**;UCL**|**:TLP**}]**!**

3. EXPLANATION OF MESSAGE

a	Member number of the **CC** to be restored (0 or 1).
UCL	Unconditional (**UCL**) restoration. No testing is to be done on the unit to be restored.
TLP	Execute the trouble location programs (**TLP**) at the conclusion of the diagnostic if it fails. These programs generate the suspected faulty equipment message (see ANALY:TLPF-SUM and ANALY:TLPF-SUS output messages).

4. SYSTEM RESPONSE

?R,DPLX FAIL	Insufficient system Resources are available to determine the validity of the message. Diagnostics are not available from the disk system. (Clear the Duplex failure or use SYSRTPAD/TPAD.)
PF	Printout Follows. Followed by a RST:CC output message, and if **UCL** is not specified, a DGN:CC and a TEST:CC output message.
RL	Retry Later. No available general buffer table or job request table entry.

5. REFERENCES

PIDENT
MIRA

Practice 254-280-210, *Maintenance Control Program*

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Messages

```
ANALY:TLPF-SUM
ANALY:TLPF-SUS
DGN:CC
RST:CC
TEST:CC
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RST:CS
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Restores the specified call store (CS) to service. If the restoral is to be unconditional, the action option **UCL** is typed. Otherwise the unit must pass diagnosis before being restored to service. The CS will be restored to the first available unduplicated MCODE unless there is an active SET:CS input message on this member number, in which case it will be restored to the MCODE specified on the original SET:CS input message.

2. FORMAT

RST:CS a[{**;UCL**|**:TLP**}]**!**

3. EXPLANATION OF MESSAGE

a	Member number of the **CS** to be restored (0-39).
UCL	Unconditional restoration. No testing is to be done on the unit being restored.
TLP	Execute the trouble location programs at the conclusion of the diagnostic if it fails. These programs generate the suspected faulty equipment message (see ANALY:TLPF-SUM and ANALY:TLPF-SUS output messages).

4. SYSTEM RESPONSE

?R,DPLX FAIL	Insufficient system Resources are available to determine the validity of the message. Diagnostics are not available from the disk system. (Clear the Duplex failure or use SYSRTPAD/TPAD.)
PF	Printout Follows. Followed by a RST:CS output message, and if **UCL** is not specified, a DGN:CS output message.
RL	Retry Later. No available general buffer table or job request table entry.

5. REFERENCES

PIDENTs
MIRA
CSFRBSLV

Practice 254-280-210, *Maintenance Control Program*

Input Message
SET:CS

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Messages

```
ANALY:TLPF-SUM
ANALY:TLPF-SUS
DGN:CS
RST:CS
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RST:CSB
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Restores the specified call store bus (CSB) to service. If the restoral is to be unconditional, the action option **UCL** is typed. Otherwise, the unit must pass diagnosis before being restored to service.

2. FORMAT

RST:CSB a[{**;UCL**|**:TLP**}]**!**

3. EXPLANATION OF MESSAGE

a — Member number of the **CSB** to be restored (0 or 1).

TLP — Execute the trouble location programs at the conclusion of the diagnostic if it fails. These programs generate the suspected faulty equipment message (see ANALY:TLPF-SUM and ANALY:TLPF-SUS output messages).

UCL — Unconditional restoration. No testing is to be done on the unit being restored.

NOTE: If **UCL** is typed, the standby bus will be restored to service.

4. SYSTEM RESPONSE

?R,DPLX FAIL — Insufficient system Resources are available to determine the validity of the message. Diagnostics are not available from the disk system. (Clear the Duplex failure or use SYSRTPAD/TPAD.)

PF — Printout Follows. Followed by a RST:CSB output message, and if **UCL** is not specified, a DGN:CSB output message.

RL — Retry Later. No available general buffer table or job request table entry.

5. REFERENCES

PIDENTs
CSFRBSLV
MIRA

Practice 254-280-210, *Maintenance Control Program*

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Messages

```
ANALY:TLPF-SUM
ANALY:TLPF-SUS
DGN:CSB
RST:CSB
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RST:DIF
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 Rel. 3 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Restores the specified Digital Interface Frame (DIF) to service. If Unconditional (**UCL**) is specified, the unit is restored without diagnosis independent of the state of the frame Power Control Switch (PCS). If **UCL** is not specified, the subunit is diagnosed and is restored if All Tests Passed (ATP).

2. FORMAT

RST:DIF a,{**CONTR** b|**DIU** c|**IPUB** d}[**:TLP**|**;UCL**]**!**

3. EXPLANATION OF MESSAGE

a — Member number of the **DIF** to be restored.

b — Controller to be restored (0 or 1).

c — Digital interface unit to be restored (0-31).

NOTE: By using a 99 for this parameter with the **UCL** option will rapid restore all Out-Of-Service (OOS) Digital Interface Units (DIUs) on the requested **DIF**. With the following exceptions:

a. DIUs manually removed via the Teletypewriter (TTY).

b. DIUs OOS and protection switched (not service degraded).

c. DIUs connected to a duplex failed Time Slot Interchange (TSI) (best to first restore the TSI).

d. All DIUs if the DIF is duplex failed (best to first restore the DIF).

e. DIUs which are unequipped or in the growth state.

d — Restore access to bus (0 or 1).

TLP — The Trouble Location Procedure (**TLP**) parameter gives the user capability of further aiding the location of possible trouble within the equipment. It is especially useful when the equipment appears to have passed diagnostics and a restoral is attempted. The inputting of this parameter, with the attempted restoral, will then point in the direction of trouble if restoral should fail.

UCL — Unconditional.

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4. SYSTEM RESPONSE

`?R,DPLX FAIL`	Insufficient system Resources are available to determine the validity of the message. Diagnostics are not available from the disk system. (Clear Duplex failure or use `SYSRTPAD/TPAD`.)
`PF`	Printout Follows. Followed by a `RST:DIF` output message plus one or more `DGN:DIF-PUB` output messages unless **`UCL`** is specified.

5. REFERENCES

PIDENT
DIFTOPEX

Practice 254-280-210, *Maintenance Control Program*

Output Messages
`DGN:DIF-PUB`
`RST:DIF`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RST:DT
WORK CENTER . . MAC, MOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Restores the specified digroup terminal unit (DTU) and all of its subunits (DTUs) to service from duplex failure. If a DTU or controller (CONTR) is not specified, it restores the specified digroup terminal subunit to service. If unconditional (**UCL**) is specified, the unit is restored without diagnosis independent of the state of the frame power control switch (PCS). If **UCL** is not specified, the subunit is diagnosed and is restored if all tests passed (ATP).

NOTE: **UCL** without **CONTR** or **DTU** will restore all subunits, i.e., controllers and DTUs.

2. FORMAT

RST:DT a[,**CONTR** b|,**DTU** c][;**UCL**]!

3. EXPLANATION OF MESSAGE

a	Member number of the **DT**.
b	Controller to be restored (0 or 1).
c	Digroup terminal unit to be restored (0-8).
UCL	Unconditional.

4. SYSTEM RESPONSE

?R,DPLX FAIL	Insufficient system Resources are available to determine the validity of the message. Diagnostics are not available from the disk system. (Clear Duplex failure or use SYSRTPAD/TPAD.)
PF	Printout Follows. Followed by a RST:DT output message plus one or more DGN:DT output messages unless **UCL** is specified.

5. REFERENCES

PIDENTs
MCFWDT
MIRA

Practice 254-280-210, *Maintenance Control Program*

Output Messages
DGN:DT
RST:DT

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RST:EST
WORK CENTER . . MAC, MOC, NMOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Restores the specified echo suppressor terminal (EST) submember to service.

2. FORMAT

RST:EST a,{**CONTR** b|**IPUB** c|**ESU** d}[**:TLP**|**;UCL**]**!**

3. EXPLANATION OF MESSAGE

a — Member number of **EST** to be restored (1 - 31).

TLP — The trouble location procedure (**TLP**) parameter gives the user the capability of further aiding the location of possible trouble within the equipment. It is especially useful when the equipment appears to have passed the diagnostic and a restoral is attempted. The inputting of this parameter, with the attempted restoral, will then point in the direction of trouble if restoral should fail.

b — Controller to be restored (0 or 1).

c — Restore access to bus (0 or 1).

d — Echo Suppressor unit to be restored (0 - 14).

UCL — Unconditional restoral of unit without diagnosis independent of state of power control switch (PCS); if **UCL** is not specified, the unit is diagnosed and is restored if automatic test dispatcher (ATD) and PCS are normal.

4. SYSTEM RESPONSE

?R,DPLX FAIL — Insufficient system Resources are available to determine the validity of the message. Diagnostics are not available from the disk system. (Clear Duplex failure or use SYSRTPAD/TPAD.)

PF — Printout Follows. Followed by the DGN:EST-PUB results output message unless **UCL** is specified.

5. REFERENCES

PIDENT
MIRA

Practice 254-280-210, *Maintenance Control Program*

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Message
DGN:EST-PUB

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RST:IFB
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Restores the specified interface bus (IFB) to service, either conditionally or unconditionally. If restored conditionally, an interface bus diagnosis and an IFB deferred fault recognition will be run, both of which must be all tests passed (ATP) if the unit is to be restored to service. If restored unconditionally, no testing is done on the unit to be restored.

2. FORMAT

RST:IFB a[{**;UCL**|**:TLP**}]**!**

3. EXPLANATION OF MESSAGE

a	Member number of the **IFB** to be restored (0 or 1).
UCL	Unconditional (**UCL**) restoration. No testing is to be done on the unit to be restored.
TLP	Execute the trouble location programs at the conclusion of the diagnostic if it fails. These programs generate the suspected faulty equipment message (see ANALY:TLPF-SUM and ANALY:TLPF-SUS output messages).

4. SYSTEM RESPONSE

?R,DPLX FAIL	Insufficient system Resources are available to determine the validity of the message. Diagnostics are not available from the disk system. (Clear the Duplex failure or use SYSRTPAD/TPAD.)
PF	Printout Follows. Followed by a RST:IFB output message, and if **UCL** is not specified, a DGN:IFB and a TEST:IFB output message.
RL	Retry Later. No available general buffer table (GBT) or job request table entry.

5. REFERENCES

PIDENTs
IFFRBASE
MIRA

Practice 254-280-210, *Maintenance Control Program*

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Messages

```
ANALY:TLPF-SUM
ANALY:TLPF-SUS
DGN:IFB
RST:IFB
TEST:IFB
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RST:IOUS
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Requests restoral of specified input/output (I/O) unit/subunit to service. It is implied that all operational I/O microprocessor (IOMP) communities and their operational channels (IOUC) connected to the input/output unit selector (IOUS) will also be restored. If IOUS and IOMP are specified, it is implied that all operational IOUC connected to the IOMP will be restored. If unconditional (**UCL**) is not specified, a diagnosis (DGN) will be performed and only the unit and subunits passing the DGN will be restored. In the case of an IOUS request, any IOMP or IOUC marked in trouble is left out of service; in the case of an IOMP request, any IOUC marked in trouble is left out of service.

Format [1] is used to restore the input/output frame (IOF) SD-5A021-01, SD-5A023-01.
Format [2] is used to restore the input/output processor (IOP) frame SD-5A052-01,-02.

2. FORMAT

[1] **RST:IOUS** a[,{**IOUC** b|**IPUB** c}][{;**UCL**|:**TLP**}]!

[2] **RST:IOUS** a[,{**IOUC** b|**IPUB** c|**IOMP** d}][{;**UCL**|:**TLP**}]!

3. EXPLANATION OF MESSAGE

a — Member number of the **IOUS** (0-7).

b — Member number of the **IOUC** (0-7) for IOF or (0-15) for IOP.

c — Interface to peripheral unit bus (**IPUB**) member number (0 or 1).

d — Input/output microprocessor (**IOMP**) community number (0 or 1).

UCL — Unconditional (**UCL**) restoration. No diagnosis is run, but any subunit implied by the message that is marked in trouble will not be restored.

TLP — Executes the trouble location procedure (TLP) programs at the conclusion of the diagnostic. These programs generate the suspected faulty equipment message. (See the ANALY:TLPF-*[unit]* output messages.)

NOTE: The **UCL** and **TLP** keywords should not be used together.

4. SYSTEM RESPONSE

?R,DPLX FAIL — Insufficient system Resources are available to determine the validity of the message. Diagnostics are not available from the disk system. (Clear Duplex failure or use SYSRTPAD/TPAD.)

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PF	Printout Follows. Followed by a DGN:IOUS-BUS output message, and if **UCL** is specified, a RST:IOUS output message.
RL	Retry Later. No available general buffer table or job request table entry.

5. REFERENCES

PIDENTs
MIRA
PFLRDGNH
PFLRRCR

Practice 254-280-210, *Maintenance Control Program*
Practice 254-280-310, *Fault Recovery Program*

Output Messages
ANALY:TLPF-*[unit]*
DGN:IOUS-BUS
RST:IOUS

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RST:MUP
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Restores the specified master control complex (MCC) and utility processor (MUP) to service, either conditionally or unconditionally. If restored conditionally, the MUP tests and diagnostic will be run, which must complete all tests passed (ATP) if the unit is to be restored to service. If restored unconditionally, no testing is done on the unit to be restored.

2. FORMAT

RST:MUP a[{**;UCL**|**:TLP**}]**!**

3. EXPLANATION OF MESSAGE

a	Member number of the **MUP** to be restored (0 or 1).
UCL	Unconditional restoration. The unit is restored to service without any tests or diagnostics.
TLP	Execute the trouble location programs at the conclusion of the diagnostic if it fails. These programs generate the suspected faulty equipment message (see ANALY:TLPF-SUM and ANALY:TLPF-SUS output messages).

4. SYSTEM RESPONSE

?R,DPLX FAIL	Insufficient system Resources are available to determine the validity of the message. The diagnostics are not available from the disk system. (Clear the Duplex failure or use SYSRTPAD/TPAD.)
PF	Printout Follows. Followed by a RST:MUP output message and, if **UCL** is not specified, a DGN:MUP output message.
RL	Retry Later. Maintenance control program (MACP) job queue busy.

5. REFERENCES

PIDENTs
MCFRBASE
MIRA

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Messages

```
ANALY:TLPF-SUM
ANALY:TLPF-SUS
DGN:MUP
RST:MUP
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RST:NCLK
WORK CENTER . . MAC, MOC, NMOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Restores the specified network clock (NCLK) chain to service. If unconditional (**UCL**) is specified, the chain is restored without diagnosis independent of state of frame power control switch (PCS); if **UCL** is not specified, the chain is diagnosed and is restored if all tests passed (ATP), and PCS is normal. If **OSC** is specified as subunit, chain of the requested outgoing signaling characteristic (OSC) is restored, if the network clock synchronization unit (NCSU) is unequipped. If the NCSU is equipped, then the OSC is put in an out-of-service state but listening to the NCSU. This allows the NCSU to update the OSC register. This should be used when an oscillator is replaced.

2. FORMAT

RST:NCLK 0,{CHAIN a|**OSC** b}[**:TLP**|**;UCL**]**!**

3. EXPLANATION OF MESSAGE

a — Chain to be restored (0-3).

b — **OSC** to be restored (0-3).

TLP — The trouble location procedure (**TLP**) parameter gives the user the capability of further aiding the location of possible trouble within the equipment. It is especially useful when the equipment appears to have passed the diagnostic and a restoral is attempted. The inputting of this parameter, with the attempted restoral, will then point in the direction of trouble if restoral should fail.

UCL — Unconditional restoral. Chain is restored without diagnosis, independently of the state of the frame PCS.

4. SYSTEM RESPONSE

?R,DPLX FAIL — Insufficient system Resources are available to determine the validity of the message. Diagnostics are not available from the disk system. (Clear Duplex failure or use SYSRTPAD/TPAD.)

PF — Printout Follows. Followed by the RST:NCLK output message, plus DGN:NCLK results output message unless **UCL** is specified.

5. REFERENCES

PIDENTs
MCFWPEMO
MIRA

SEE PROPRIETARY NOTICE ON COVER PAGE

Practice 234-280-210, *Maintenance Control Program*

Output Messages
`DGN:NCLK`
`RST:NCLK`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RST:PCD
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Restores the specified power control distribution (PCD) unit/subunit to service.

2. FORMAT

RST:PCD a,{**DAMON 0**|**CONV** b}[;**UCL**]!

3. EXPLANATION OF MESSAGE

a	Member number of the **PCD** (0 or 1).
DAMON 0	Distribution circuit to be restored (0).
b	Converter member number (0-2).
UCL	Unconditional (**UCL**) restoration. The unit is restored to service without testing or a diagnosis.

4. SYSTEM RESPONSE

?R,DPLX FAIL	Insufficient system Resources are available to determine the validity of the message. Diagnostics are not available from the disk system. (Clear Duplex failure or use SYSRTPAD/TPAD.)
PF	Printout Follows. Followed by a DGN:PCD output message, and if **UCL** is specified, a RST:PCD output message.
RL	Retry Later. No available general buffer table or job request table entry.

5. REFERENCES

PIDENT
MIRA

Practice 254-280-210, *Maintenance Control Program*
Practice 254-280-310, *Fault Recovery Program*

Output Messages
DGN:PCD
RST:PCD

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RST:PS
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Restores the specified program store to service. If the restoral is to be unconditional, the action option **UCL** is typed. Otherwise, the unit must pass diagnosis before being restored to service. The program store (PS) will be restored to the KCODE found in the assigned KCODE table entry for PSs.

2. FORMAT

RST:PS a[{**;UCL**|**:TLP**}]**!**

3. EXPLANATION OF MESSAGE

a	Member number of the **PS** to be restored (0-13).
UCL	Unconditional restoration. The unit is restored to service without a diagnosis.
TLP	Execute the trouble location programs at the conclusion of the diagnostic if it fails. These programs generate the suspected faulty equipment message (see ANALY:TLPF-SUM and ANALY:TLPF-SUS output messages).

4. SYSTEM RESPONSE

?R,DPLX FAIL	Insufficient system Resources are available to determine the validity of the message. Diagnostics are not available from the disk system. (Clear the Duplex failure or use SYSRTPAD/TPAD.)
PF	Printout Follows. Followed by a RST:PS output message, and if **UCL** is not specified, a DGN:PS output message.
RL	Retry Later. No available general buffer table (GBT) or job request table entry.

5. REFERENCES

PIDENTs
MIRA
PSFRPSPG

Practice 254-280-210, *Maintenance Control Program*

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Messages

```
ANALY:TLPF-SUM
ANALY:TLPF-SUS
DGN:PS
RST:PS
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RST:PSB
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Restores the specified program store bus (PSB) to service. If the restoral is to be unconditional, the action option **UCL** is typed. Otherwise the unit must pass diagnosis before being restored to service.

2. FORMAT

RST:PSB a[{**;UCL**|**:TLP**}]**!**

3. EXPLANATION OF MESSAGE

a	Member number of the **PSB** to be restored (0 or 1).
TLP	Execute the trouble location programs at the conclusion of the diagnostic if it fails. These programs generate the suspected faulty equipment message (see ANALY:TLPF-SUM and ANALY:TLPF-SUS output messages).
UCL	Unconditional restoration. No diagnosis is performed.

NOTE: If **UCL** is typed, the standby bus will be restored to service.

4. SYSTEM RESPONSE

?R,DPLX FAIL	Insufficient system Resources are available to determine the validity of the message. Diagnostics are not available from the disk system. (Clear the Duplex failure or use SYSRTPAD/TPAD.)
PF	Printout Follows. Followed by a RST:PSB output message, and if **UCL** is not specified, a DGN:PSB output message.
RL	Retry Later. No available general buffer table (GBT) or job request table entry.

5. REFERENCES

PIDENTs
MIRA
PSFRBSLV

Practice 254-280-210, *Maintenance Control Program*

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Messages

```
ANALY:TLPF-SUM
ANALY:TLPF-SUS
DGN:PSB
RST:PSB
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RST:PUB
WORK CENTER . . MAC, MOC, NMOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Restores the specified peripheral unit bus (PUB) to service. The restoring of the PUBs will restore the coded enable bus (CEB), the central pulse distributor bus (CPDB), the peripheral unit answer bus (PUAB), and the scanner answer bus (SCAB).

2. FORMAT

RST:PUB a[**;UCL**]**!**

3. EXPLANATION OF MESSAGE

a	Member number of the **PUB** (0 or 1).
UCL	Unconditional (**UCL**) restoration. The unit is restored to service without testing or a diagnosis.

4. SYSTEM RESPONSE

?R,DPLX FAIL	Insufficient system Resources are available to determine the validity of the message. Diagnostics are not available from the disk system. (Clear Duplex failure or use SYSRTPAD/TPAD.)
PF	Printout Follows. Followed by a DGN:PUB output message, and if **UCL** is specified, a RST:PUB output message.
RL	Retry Later. No available general buffer table (GBT) or job request table entry.

5. REFERENCES

PIDENT
MIRA

Practice 254-280-210, *Maintenance Control Program*
Practice 254-280-310, *Fault Recovery Program*

Output Messages
DGN:PUB
RST:PUB

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RST:RA
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Restores a recorded announcement (RA) channel, channels, or entire machine to service.

2. FORMAT

RST:RA a,{**RACHAN** {b|b,b,b...}|**ALL**}**!**

3. EXPLANATION OF MESSAGE

a	Recorded announcement machine number (0 or 1).
b	A channel or list of channels to be restored.
ALL	Restore all channels on the machine.

4. SYSTEM RESPONSE

PF	Printout Follows. Followed by the RST:RA output message.
RL	Retry Later. The RA processing routine to handle teletypewriter (TTY) messages is presently processing another request. Only one request can be processed at a time.

5. REFERENCES

PIDENT
SVCTRAMP

Practice 201-520-101, *Common Systems Recorded Announcement Frame (CSRAF) - Description* SD-97725-01 and SD-97725-02
Practice 201-520-301, *Common Systems Recorded Announcement Frame (CSRAF) - Operating Procedures* SD-97725-01 and SD-97725-02
Practice 201-520-501, *Common Systems Recorded Announcement Frame (CSRAF) - Tests and Trouble Analysis* SD-97725-01 and SD-97725-02
Practice 201-520-701, *Common Systems Recorded Announcement Frame (CSRAF) - Requirements and Adjusting Procedures* SD-97725-01 and SD-97725-02
Practice 234-110-090, *Recorded Announcement Frame - Description*
Practice 234-110-091, *Recorded Announcement Frame - Theory*

Output Message
RST:RA

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RST:SCLK
WORK CENTER . . MAC, MOC, NMOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Restores the specified system clock (SCLK) subunit to service. If unconditional (**UCL**) is specified, the unit is restored without diagnosis independent of the state of the frame power control switch (PCS). If **UCL** is not specified, the unit is diagnosed and is restored if all tests passed (ATP) and if PCS is normal. **REF** cannot be diagnosed and has no PCS and so is always restored immediately with no DGN:SCLK results.

2. FORMAT

RST:SCLK 0,{CONTR a|**IPUB** b|**REF** c|**NCSU** d}[**:TLP**|**;UCL**]**!**

3. EXPLANATION OF MESSAGE

a	Controller to be restored (0 or 1).
b	Restore access to bus (0 or 1).
c	Reference to be restored (0 is regular, 1 is alternate).
d	Network clock synchronous unit (**NCSU**) to be restored (0).
TLP	The trouble location procedure (**TLP**) parameter gives the user the capability of further aiding the location of possible trouble within the equipment. It is especially useful when the equipment appears to have passed the diagnostic and a restoral is attempted. The inputting of this parameter, with the attempted restoral, will then point in the direction of trouble if restoral should fail.
UCL	Unconditional restoral. Unit is restored without diagnosis, independently of the state of the frame PCS.

4. SYSTEM RESPONSE

?R,DPLX FAIL	Insufficient system Resources are available to determine the validity of the message. Diagnostics are not available from the disk system. (Clear Duplex failure or use SYSRTPAD/TPAD.)
PF	Printout Follows. Followed by the RST:SCLK output message, plus DGN:SCLK results output message unless **UCL** is specified.

SEE PROPRIETARY NOTICE ON COVER PAGE

5. REFERENCES

PIDENTs
- CLFRTOPI
- FRDI
- MCFWPEMO
- MIRA
- TOPIC

Practice 234-280-210, *Maintenance Control Program*

Output Messages
- `DGN:SCLK`
- `RST:SCLK`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RST:SCS
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Restores the specified Service Circuit System (SCS) to service. If Unconditional (**UCL**) is specified, the unit is restored without diagnosis, independent of the state of the frame Power Control Switch (PCS). If **UCL** is not specified, the subunit is diagnosed and is restored if All Tests Passed (ATP).

2. FORMAT

RST:SCS a,{**CONTR** b|**SCU** c|**IPUB** d}[**:TLP**|**;UCL**]**!**

3. EXPLANATION OF MESSAGE

a	**SCS** member number (0-7) to be restored.
b	Controller to be restored (0 or 1).
c	Service Circuit Unit (**SCU**) to be restored (0-15).
d	Peripheral unit bus interface to be restored (0 or 1).
TLP	The Trouble Location Procedure (**TLP**) parameter gives the user capability of further aiding the location of possible trouble within the equipment. It is especially useful when the equipment appears to have passed diagnostics and a restoral is attempted. The inputting of this parameter, with the attempted restoral, will then point in the direction of trouble if restoral should fail.
UCL	Unconditional.

4. SYSTEM RESPONSE

?R,DPLX FAIL	Insufficient system Resources are available to determine the validity of the message. Diagnostics are not available from the disk system. (Clear Duplex failure or use SYSRTPAD/TPAD.)
PF	Printout Follows. Followed by a RST:SCS output message plus one or more DGN:SCS-PUB output messages unless **UCL** is specified.

SEE PROPRIETARY NOTICE ON COVER PAGE

5. REFERENCES

PIDENTs
FRDI
MIRA
SCSTOPEX
SCSTOPOP
TOPIC000

Practice 234-180-250, *Maintenance Control Program*

Output Messages
`DGN:SCS-PUB`
`RST:SCS`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RST:SIGLK
WORK CENTER . . MOC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Restores the specified signaling link to service.

2. FORMAT

`RST:SIGLK` `ab!`

3. EXPLANATION OF MESSAGE

`a`	A terminal grouping (TGR) frame number (00-15).
`b`	A terminal subunit number within the frame (00-15).

4. SYSTEM RESPONSE

`IP`	In Progress. The request has been accepted; followed by an `RST:SIGLK` output message with the results of the request.
`NG`	No Good. The link is not currently manually out-of-service.
`NG`	No Good. Restore attempted on an unequipped signaling link.
`NG RANGE ERROR`	No Good. TGR number or terminal subunit number exceeds fifteen.
`PF`	Printout Follows. The request has been accepted; followed by an `RST:SIGLK` output message with the results of the request.

5. REFERENCES

PIDENTs
CCISSLCN
CCISLSIO
CCISIOPR

Output Message
`RST:SIGLK`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RST:SP
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Restores the specified signaling processor (SP) subunit to service. If unconditional (**UCL**) is specified, the unit is restored without diagnosis independent of the state of the frame power control switch (PCS). If **UCL** is not specified, the unit is diagnosed and is restored if all tests passed (ATP) and if PCS is normal.

2. FORMAT

RST:SP a,{**CONTR** b|**IPUB** c|**PPL 0**|**PPR 0**}[**:TLP**|**;UCL**]**!**

3. EXPLANATION OF MESSAGE

a	Member number of **SP** to be restored.
b	Controller to be restored (0 or 1).
c	Restore access to bus (0 or 1).
PPL 0	Pulse points left to be restored.
PPR 0	Pulse points right to be restored.
TLP	The trouble location procedure (**TLP**) parameter gives the user the capability of further aiding the location of possible trouble within the equipment. It is especially useful when the equipment appears to have passed the diagnostic and a restoral is attempted. The inputting of this parameter, with the attempted restoral, will then point in the direction of trouble if restoral should fail.
UCL	Unconditional restoral. The unit is restored without diagnosis, independently of the state of the frame PCS.

4. SYSTEM RESPONSE

?R,DPLX FAIL	Insufficient system Resources are available to determine the validity of the message. Diagnostics are not available from the disk system. (Clear Duplex failure or use SYSRTPAD/TPAD.)
PF	Printout Follows. Followed by the RST:SP output messages, plus DGN:SP-PUB output message unless **UCL** is specified.

5. REFERENCES

PIDENT
MIRA

Practice 254-280-210, *Maintenance Control Program*

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Messages

`DGN:SP-PUB`
`RST:SP`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RST:SSD
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Restores the specified scan and signal distributor (SSD) to service, either conditionally or unconditionally. If restored conditionally, the SSD diagnostic will be run, which must complete all tests passed (ATP) if the unit is to be restored to service. If restored unconditionally, no testing is done on the unit to be restored.

2. FORMAT

RST:SSD a[{**;UCL**|**;TLP**]**!**

3. EXPLANATION OF MESSAGE

a	Member number of the **SSD** to be restored (0 or 1).
UCL	Unconditional (**UCL**) restoration. No testing is to be done on the unit to be restored.
TLP	Execute the trouble location programs at the conclusion of the diagnostic if it fails. These programs generate the suspected faulty equipment message (see ANALY:TLPF-SUM and ANALY:TLPF-SUS output messages).

4. SYSTEM RESPONSE

?R,DPLX FAIL	Insufficient system Resources are available to determine the validity of the message. Diagnostics are not available from the disk system. (Clear the Duplex failure or use SYSRTPAD/TPAD.)
PF	Printout Follows. Followed by a RST:SSD output message and, if **UCL** is not specified, a DGN:SSD output message.

5. REFERENCES

PIDENT
SSFRBASE

Output Messages
ANALY:TLPF-SUM
ANALY:TLPF-SUS
DGN:SSD
RST:SSD

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RST:TGR
WORK CENTER . . MAC, MOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Restores the specified terminal grouping (TGR) subunit to service. If unconditional (**UCL**) is specified, the unit is restored without a diagnosis independent of the state of the frame power control switch (PCS). If **UCL** is not specified, the unit is diagnosed and is restored if all tests passed (ATP) and if PCS is normal.

2. FORMAT

RST:TGR a,{**CONTR** b|**IPUB** c|**TER** d}[**:TLP**|**;UCL**]**!**

3. EXPLANATION OF MESSAGE

a	Member number of **TGR** to be restored.
b	Controller to be restored (0 or 1).
c	Restore access to bus (0 or 1).
d	Restore terminal (0 through 15).
TLP	The trouble location procedure (**TLP**) parameter gives the user the capability of further aiding the location of possible trouble within the equipment. It is especially useful when the equipment appears to have passed the diagnostic and a restoral is attempted. The inputting of this parameter, with the attempted restoral, will then point in the direction of trouble if restoral should fail.
UCL	Unconditional restoral. Unit is restored without diagnosis, independently of the state of the frame PCS.

4. SYSTEM RESPONSE

?R,DPLX FAIL	Insufficient system Resources are available to determine the validity of the message. Diagnostics are not available from the disk system. (Clear Duplex failure or use SYSRTPAD/TPAD.)
PF	Printout Follows. Followed by the RST:TGR output message plus DGN:TGR-PUB results output message unless **UCL** is specified.

5. REFERENCES

PIDENT
MIRA

Practice 254-280-210, *Maintenance Control Program*

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Messages

```
DGN:TGR-PUB
RST:TGR
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RST:TMSP
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Restores the specified time multiplexed switch subunit to service. If unconditional (**UCL**) is specified, the unit is restored without diagnosis independent of the state of the frame power control switch (PCS); if **UCL** is not specified, the unit is diagnosed and is restored if all tests passed (ATP), and if PCS is normal.

2. FORMAT

RST:TMSP a,{**CONTR** b|**COIPUB** c|**C1IPUB** d}[:**TLP**|;**UCL**]!

3. EXPLANATION OF MESSAGE

a	Member number of time multiplexed switch pair (**TMSP**) to be restored.
b	Controller to be restored (0 or 1).
c	Restore access to controller 0 bus (0 or 1).
d	Restore access to controller 1 bus (0 or 1).
TLP	The trouble location procedure (**TLP**) parameter gives the user the capability of further aiding the location of possible trouble within the equipment. It is especially useful when the equipment appears to have passed the diagnostic and a restoral is attempted. The inputting of this parameter, with the attempted restoral, will then point in the direction of trouble if restoral should fail.
UCL	Unconditional restoral. Unit is restored without diagnosis, independently of the state of the frame PCS.

4. SYSTEM RESPONSE

?R,DPLX FAIL	Insufficient system Resources are available to determine the validity of the message. Diagnostics are not available from the disk system. (Clear Duplex failure or use SYSRTPAD/TPAD.)
PF	Printout Follows. Followed by the RST:TMSP output message, plus DGN:TMSP-PUB results output message unless **UCL** is specified.

5. REFERENCES

PIDENT
MIRA

Practice 254-280-210, *Maintenance Control Program*

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Messages

```
DGN:TMSP-PUB
RST:TMSP
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RST:TONE-MWF
WORK CENTER . . MOC
GENERIC . . . . . 4E24 Rel. 3 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Restores to service a duplicated tone trunk distributed by the dedicated Time Slot Interchange (TSI).

2. FORMAT

RST:TONE,{**BT60** a|**BT120** b|**AR** c|**TPT** d|**MW** e|**MW10** f}**!**

3. EXPLANATION OF MESSAGE

a	Busy tone at 60 Interruptions Per Minute (IPM) trunk (0-1).
b	Busy tone at 120 IPM trunk (0-1).
c	Audible ring trunk (0-1).
d	Test progress tone trunk (0-1).
e	Milliwatt supply trunk (0-1).
f	-10 db 1004-Hz supply trunk (0-1).

4. SYSTEM RESPONSE

NG	No Good. Tone trunk already in service.
PF	Printout Follows. Followed by the RST:TONE output message.
RL	Retry Later. Tone trunk is on an out-of-service In-Band Unit (IBU).

5. REFERENCES

PIDENT
SVCTRTPP

Output Message
RST:TONE

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RST:TSI
WORK CENTER . . MAC, MOC, NMOC, TEC, TOC
GENERIC . . . . . 4E21 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Restores the specified Time Slot Interchange (**TSI**) frame subunit to service. If Unconditional (**UCL**) is specified, unit is restored without diagnosis independent of the state of the frame Power Control Switch (PCS). If **UCL** is not specified, the unit is diagnosed and is restored if All Tests Passed (ATP), and if PCS is normal.

2. FORMAT

RST:TSI a,{**CONTR** b|**IPUB** c|**ALC** d}[**:TLP**|**;UCL**]**!**

3. EXPLANATION OF MESSAGE

a — Member number of **TSI** to be restored (0-63). Companion member numbers (odd numbers) generate for TSI-B frames Input/Output (I/O) error text.

b — Controller to be restored (0-1).

c — Restore access to bus (0-1).

d — Restore A-link bus receiver (0-1).

TLP — The Trouble Location Procedure (**TLP**) parameter gives the user the capability of further aiding the location of possible trouble within the equipment. It is especially useful when the equipment appears to have passed the diagnostic and a restoral is attempted. The inputting of this parameter, with the attempted restoral, will then point in the direction of trouble if restoral should fail.

UCL — Unconditional restoral. Unit is restored without diagnosis, independently of the state of the frame PCS.

4. SYSTEM RESPONSE

?R,DPLX FAIL — Insufficient system resources are available to determine the validity of the message. Diagnostics are not available from the disk system. (Clear Duplex failure or use SYSRTPAD/TPAD.)

PF — Printout Follows. Followed by the RST:TSI output message, plus DGN:TSI-PUB results output message unless **UCL** is specified.

SEE PROPRIETARY NOTICE ON COVER PAGE

5. REFERENCES

PIDENT
MCFWPEMO
MIRA
PUCN01

Practice 254-280-210, *Maintenance Control Program*

Input Message
`RMV:TSI`

Output Messages
`DGN:TSI-PUB`
`RMV:TSI`
`RST:TSI`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RST:VIF
WORK CENTER . . MAC, MOC, NMOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Restores the specified voiceband interface frame submember to service. If unconditional (**UCL**) is specified, unit is restored without diagnosis independent of the state of the power control switch (PCS). If **UCL** is not specified, the unit is diagnosed and is restored if all tests passed (ATP), and if PCS is normal.

2. FORMAT

RST:VIF a,{**CONTR** b|**IPUB** c|**VIU** d}[;**UCL**]!

3. EXPLANATION OF MESSAGE

a	Member number of voiceband interface frame (**VIF**) to be restored (1 through 127).
b	Controller to be restored (0 or 1).
c	Restore access to bus (0 or 1).
d	Voiceband interface unit to be restored (0 through 7).

4. SYSTEM RESPONSE

?R,DPLX FAIL	Insufficient system Resources are available to determine the validity of the message. Diagnostics are not available from the disk system. (Clear Duplex failure or use SYSRTPAD/TPAD.)
PF	Printout Follows. Followed by the RST:VIF output message plus DGN:VIF-PUB results output message unless **UCL** is specified.

5. REFERENCES

PIDENT
MIRA

Practice 254-280-210, *Maintenance Control Program*

Output Messages
DGN:VIF-PUB
RST:VIF

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RST:XPWR
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Restores the specified miscellaneous power (XPWR) unit to service, either conditionally or unconditionally. To be restored conditionally, XPWR first must pass an XPWR diagnostic, and the diagnostic results must be either: all tests passed (ATP) or conditional all tests passed (CATP). To be restored unconditionally, XPWR undergoes no diagnostics.

2. FORMAT

RST:XPWR a[**;UCL**|**:TLP**]**!**

3. EXPLANATION OF MESSAGE

a	Member number of the **XPWR** to be restored (0 or 1).
UCL	Unconditional (**UCL**) restoration. No diagnostic is to be performed on the unit being restored.
TLP	Execute the trouble location programs at the conclusion of the diagnostic if it fails. These programs generate the suspected faulty equipment message (see ANALY:TLPF-SUM and ANALY:TLPF-SUS output messages).

4. SYSTEM RESPONSE

?R,DPLX FAIL	Insufficient system Resources are available to determine the validity of the message. Diagnostics are not available from the disk system. (Clear the attached processor system (APS) Duplex failure or use SYSRTPAD/TPAD.)
PF	Printout Follows.
RL	Retry Later.

5. REFERENCES

PIDENT
XPFRBASE

Input Messages
DGN:XPWR
OP:XPWRSTAT
RMV:XPWR

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Messages

```
ANALY:TLPF-SUM
ANALY:TLPF-SUS
DGN:XPWR
OP:XPWRSTAT
RMV:XPWR
RST:XPWR
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RST:XTSI
WORK CENTER . . MAC, MOC, NMOC, TEC, TOC
GENERIC . . . . . 4E24 Rel. 2 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Restores the specified Expanded Time Slot Interchange (**XTSI**) frame subunit to service. If Unconditional (**UCL**) is specified, unit is restored without diagnosis independent of the state of the frame Power Control Switch (PCS). If **UCL** is not specified, the unit is diagnosed and is restored if All Tests Passed (ATP), and if PCS is normal.

2. FORMAT

RST:XTSI a,{**CONTR** b|**IPUB** c|**ALC** d|**D3U** e|**SPU** f|**IBU 0**}[:**TLP**|;**UCL**]!

3. EXPLANATION OF MESSAGE

a	Member number of **XTSI** to be restored (0-63). Companion member numbers (odd numbers) generate Input/Output (I/O) error text.
b	Controller to be restored (0-1).
c	Restore access to bus (0-1).
d	Restore A-link bus receiver (0-1).
e	Restore subunit **D3U** (0-7).
f	Restore subunit **SPU** (0-11).
IBU 0	Restore subunit **IBU 0**.
TLP	The Trouble Location Procedure (**TLP**) parameter gives the user the capability of further aiding the location of possible trouble within the equipment. It is especially useful when the equipment appears to have passed the diagnostic and a restoral is attempted. The inputting of this parameter, with the attempted restoral, will then point in the direction of trouble if restoral should fail.
UCL	Unconditional restoral. Unit is restored without diagnosis, independently of the state of the frame PCS.

4. SYSTEM RESPONSE

?R,DPLX FAIL	Insufficient system resources are available to determine the validity of the message. Diagnostics are not available from the disk system. (Clear Duplex failure or use SYSRTPAD/TPAD.)
PF	Printout Follows. Followed by the RST:XTSI output message, plus DGN:XTSI-PUB results output message unless **UCL** is specified.

SEE PROPRIETARY NOTICE ON COVER PAGE

5. REFERENCES

PIDENT
MAINIPUB
MIRA
PSCTOPEX
PSCTOPMS
PSCTOPOP
PUCN01
TOPIC000
XTSTOPEX
XTSTOPMS
XTSTOPOP

Practice 254-280-210, *Maintenance Control Program*

Input Message
`RMV:XTSI`

Output Messages
`DGN:XTSI-PUB`
`RMV:XTSI`
`RST:XTSI`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RST:XTSI-ALL
WORK CENTER . . MAC, MOC, NMOC, TEC, TOC
GENERIC . . . . . 4E24 Rel. 2 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Rapid restore all Out Of Service (OOS) subunits on the requested Expanded Time Slot Interchange (**XTSI**). With the following exceptions:

a. Subunits manually removed via Teletypewriter (TTY).

b. Subunits OOS and protection switched (not service-degraded).

c. Subunits within a duplex failed **XTSI**

d. Subunits unequipped or in the growth or special growth state

2. FORMAT

RST:XTSI a,{**ALLD3U|ALLSPU|ALLPSC**};**UCL!**

3. EXPLANATION OF MESSAGE

a	Member number of **XTSI** to be restored (0-63). Companion member numbers (odd numbers) generate Input/Output (I/O) error text.
ALLD3U	Subunits refer to all Digital Signal Level 3 Units (D3Us) only.
ALLSPU	Subunits refer to all Signal Processing Units (SPUs) only.
ALLPSC	Subunits refer to all D3Us, all SPUs, and the In-Band Unit (IBU).
UCL	Unconditional restore. Unit is restored without diagnosis, independently of the state of the frame Power Control Switch (PCS).

4. SYSTEM RESPONSE

PF	Printout Follows. Followed by the RST:XTSI output message, plus a service degraded report.
RL	Retry Later. Insufficient system resources are available.

5. REFERENCES

PIDENT
PSCTOPEX
PSCTOPMS
PSCTOPOP
TOPIC000

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Message

```
RST:XTSI-SCHEDUL
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RTE:ALM
WORK CENTER . . MOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Routes the alarms and corresponding output messages from one maintenance console (MC) to another.

NOTE: After routing, any alarm activated in **MC** a will be sounded in **MC** b, in addition, any messages (alarm and nonalarm) sent to center a will also be sent to center b. The audible alarms in the originating maintenance center (**MC** a) may be silenced. The alarm routing can be terminated with the STOP:RTE-ALM input message.

2. FORMAT

RTE:ALM,MC a[;**MC** b][:**SIL**]!

3. EXPLANATION OF MESSAGE

a — Maintenance center from which alarms are to be routed:

- **ALL** — All maintenance centers (excluding center b).
- **MOC** — Master operations center.
- **TEC1** — Terminal equipment center 1.
- **TEC2** — Terminal equipment center 2.
- **TEC3** — Terminal equipment center 3.
- **TEC4** — Terminal equipment center 4.
- **TEC5** — Terminal equipment center 5.
- **TOC** — Trunk operations center.

b — Maintenance center to which alarms are to be routed:

- **MOC** — Master operations center.
- **TEC1** — Terminal equipment center 1.
- **TEC2** — Terminal equipment center 2.
- **TEC3** — Terminal equipment center 3.
- **TEC4** — Terminal equipment center 4.
- **TEC5** — Terminal equipment center 5.
- **TOC** — Trunk operations center.

NOTE: The default is **MC MOC**.

SIL — Silence the audible alarms in **MC** a. The default is no alarm silence.

SEE PROPRIETARY NOTICE ON COVER PAGE

4. SYSTEM RESPONSE

NG	No Good. **MC** a and/or **MC** b is already involved in an alarm routing or alarm grouping. Terminate all previous routings or groupings involving **MC** a or **MC** b before requesting a new routing arrangement. Use OP:ALMSTAT to determine the present routing/grouping status.
PF	Printout Follows. Followed by a STOP:RTE-ALM output message.
RANGE ERR	Maintenance center specified is not assigned in this office. Consult office translations (ODA-table OD4MCTABL).
RL	Retry Later. A hardware or software alarm is presently active in **MC** a or **MC** b. Retire all alarms in **MC** a and **MC** b before repeating the request.
(AT-AG LAMP)	Observe the "AT-AG" lamps light on the alarm grid display panels for all the grids associated with the routed **MC** a.
(PROGRAM CONTROL OFF NORM-LAMP)	Lights on the master control complex (MCC).

5. REFERENCES

PIDENT
ALRM01

Practice 234-100-040, *Office Alarm System Description and Theory*

Input Messages
OP:ALMSTAT
STOP:RTE-ALM

Output Message
STOP:RTE-ALM

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RTE:CHAN
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Routes all messages destined for channel `a` to channel `b`. If the source channel is high speed (greater than 110 bits per second [BPS]), the destination channel must also be high speed.

2. FORMAT

`RTE:CHAN` `a`**`;CHAN`** `b`**`!`**

3. EXPLANATION OF MESSAGE

`a`	Source channel name from which messages are routed See the User Guidelines of the *Input Message Document* for a list of channel names.
`b`	Destination channel name to which messages are routed See the User Guidelines of the *Input Message Document* for a list of channel names.

4. SYSTEM RESPONSE

`INC DATA`	The source channel is in a maintenance center and the destination channel is either not in a maintenance center or is in a different maintenance center. If they are in different maintenance centers, the `RTE:ALM` input message may be used if desired.
`NG`	No Good. The source channel is already routed to another channel.
`OK`	Good. The source channel has been routed.

5. REFERENCES

PIDENT
IOCPREA1

Practice 254-280-111, *Input/Output Programs Software Description*

Input Messages
`RTE:ALM`
`STOP:RTE-CHAN`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RTE:MSGCLS
WORK CENTER . . MAC, MOC, NMOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Makes a change in the routing of an output message class or classes.

2. FORMAT

RTE:MSGCLS a;[**CHAN** b];{**ADD**|**DLT**}!

3. EXPLANATION OF MESSAGE

a — Message class(es) to be changed. Routing changes are allowed to the following classes:

- **APSMSG** — Attached processor system (APS) messages.
- **AUD** — Audit messages.
- **CC** — Central control messages.
- **COIN** — Coin trouble messages
- **CORC** — Customer oriented recent change.
- **DGN** — Diagnostic messages.
- **FADS** — File system, auxiliary data system, and auxiliary unit bus (AUB) messages.
- **FOR** — Fault recognition messages.
- **GROWTH** — Growth messages.
- **ILTR** — Internal line trouble messages
- **INTPH** — Interrupt and phase messages.
- **LMTCE** — Local maintenance channel class.
- **NMGT** — Network management messages.
- **PPMP** — Plant measurement messages
- **PSPD** — Permanent signal / partial dial messages.
- **PUB** — Peripheral unit bus messages.
- **RC** — Recent change messages.
- **STOR** — Core store and bus messages.
- **TRACE** — Call trace messages.

SEE PROPRIETARY NOTICE ON COVER PAGE

TRUNK — Trunk related messages.

XLTR — External line trouble messages.

b — A channel or list of channels to be added or deleted, default is the input channel:

BLT — Belt line maintenance.

CLT — Calling line identification (CLID) teletypewriter (TTY).

LOC — Local maintenance TTY.

NMG — Network management TTY.

PSC — Plant service center TTY, automatic line insulation test (ALIT).

RCS — Recent change/service order TTY.

REM — Remote maintenance TTY.

SC1 — Switching control center maintenance.

SC2 — Supplementary SCC maintenance.

SRM — Supplementary remote maintenance.

ST1 — Supplementary trunk and line test position (TLTP) TTY number 1.

ST2 — Supplementary TLTP TTY number 2.

ST3 — Supplementary TLTP TTY number 3.

ST4 — Supplementary TLTP TTY number 4.

TR1 — Traffic TTY number 1.

TR2 — Traffic TTY number 2.

ADD — Add the channel(s) to the class(es).

DLT — Delete the channel(s) from the class(es).

4. SYSTEM RESPONSE

`INV DATA` — One or more of the classes requested cannot be changed. See the `INIT:MSGCLS` input message.

`NG` — No Good. More classes were requested than could be handled with a single request.

`NG,INVALID CHAN` — No Good. Indicates that the destination channel cannot be a binary data channel.

`OK` — Good. The requested action has been completed.

SEE PROPRIETARY NOTICE ON COVER PAGE

5. REFERENCES

PIDENT
IOCPREA1

Input Message
`INIT:MSGCLS`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RTE:TP
WORK CENTER . . TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Reroutes the termination of incoming 101 calls intended for test position (TP) a to test position b. Message can also be used to determine current routing by entering **TP** a only. The resulting output message lists where the incoming 101 calls for test position a are currently assigned. The rerouting may be discontinued by either rerouting TP a back to TP a or issuing an INIT:TPDT input message which will restore normal routing to all test positions in the office.

2. FORMAT

RTE:TP a[**;TP** b]**!**

3. EXPLANATION OF MESSAGE

a	Original test position (2 digit name code of the 51A test positions).
b	New test position (2 digit name code of the 51A test positions).

4. SYSTEM RESPONSE

?E	Syntax Error exists in the message but cannot be resolved to the proper field. Keyword argument data missing or invalid.
PF	Printout Follows. Followed by a RTE:TP output message.
RL	Retry Later. System resources not available.

5. REFERENCES

PIDENTs
TACCSUPV
TMAD0005

Input Message
INIT:TPDT

Output Message
RTE:TP

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RTR:ALM
WORK CENTER . . MOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Retires any software alarms presently active in the specified maintenance console (MC) and in any applicable centers grouped or routed to the specified center.

2. FORMAT

RTR:ALM[;**MC** a]**!**

3. EXPLANATION OF MESSAGE

a — Maintenance center in which to retire the alarms:

MOC — Master operations center.
TEC1 — Terminal equipment center 1.
TEC2 — Terminal equipment center 2.
TEC3 — Terminal equipment center 3.
TEC4 — Terminal equipment center 4.
TEC5 — Terminal equipment center 5.
TOC — Trunk operations center.

NOTE: The default is the maintenance center in which the input input/output (I/O) terminal is assigned.

4. SYSTEM RESPONSE

NG — No Good. The input I/O terminal is not assigned to an MC, re-request specifying the MC desired. Consult PIDENT ALRM01 (table CHANMC) for I/O terminal-MC assignments. The **MC** specified has no software alarms active, however, hardware alarms may be active and must be cleared at the frame or circuit in trouble.

PF — Printout Follows. Followed by a RTR:ALM output message.

5. REFERENCES

PIDENT
ALRM01

Output Message
RTR:ALM

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . SCHED:MEASREPT
WORK CENTER . . MAC
GENERIC . . . . . 4E19 and later
CLASS . . . . . TRFM
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Adds, deletes, or changes a traffic or plant measurement report.

Format [1] is used to delete entire measurement report.
Format [2] is used to initiate (or delete) the measurement report.
Format [3] is used to specify or change output channels for the report.
Format [4] is used to specify or change contents of the report.
Format [5] is used to specify or change the accumulation interval and output times.

2. FORMAT

[1] **SCHED:MEASREPT** a;**DLT!**

[2] **SCHED:MEASREPT** a;{**ADD**|**DLT**}:**PRIM** b,**MAXM** c[,**TSGCAP** d][,**ENGMEM**]**!**

[3] **SCHED:MEASREPT** a;{**ADD**|**DLT**}:**CHAN** e**!**

[4] **SCHED:MEASREPT** a;{**ADD**|**DLT**}:{**MSCOMS** f|**TSG** g[,**TG** h]|**TG** h}**!**

[5] **SCHED:MEASREPT** a;{**ADD**|**DLT**}[:[**ACCINT** i][,{**ATT**|**OTT**}]
[,**SUN** j][,**MON** k][,**TUE** l][,**WED** m][,**THU** n][,**FRI** o][,**SAT** p]]**!**

3. EXPLANATION OF MESSAGE

a — Measurement report number (1-23). All measurement reports are output on the teletypewriter (TTY). Measurement report numbers are assigned by the machine administrator.

ADD — Add a new measurement report or make an addition to an existing measurement report. Used in conjunction with message Format [2] to add a new measurement report. Used with other message formats to make an addition to an existing measurement report.

DLT — Delete a measurement report or make a deletion from an existing measurement report. If no data field is supplied (as in Format [1]), the entire measurement report will be deleted. Used with data field options, it makes a deletion from an existing measurement report. To change **PRIM**, **MAXM**, **TSGCAP**, and **ENGMEM**, the entire measurement report must be deleted and then added again.

SEE PROPRIETARY NOTICE ON COVER PAGE

`b` An input channel name on which subsequent changes can be made to the measurement report in addition to the MTC and secondary record channels. Valid channel names for **PRIM** are MTC, NMPR1, NMPR2, RCDT1, RCDT2, RCMOC, RCREC, SREC1, SREC2, TRF1, TRF2.

`c` The maximum number of measurements on the measurement report. The maximum is 9999.

`d` The number of trunk subgroups allowed on the measurement report. This number is used to calculate the number of sector blocks of file store required for maintaining the list of trunk subgroups (TSGs) on a measurement report. The maximum is 64.

ENGMEM Specifies that previously engineered file store memory in the amount of **MAXM** is to be allocated to the measurement report to accumulate measurements. **ENGMEM** must be specified for those measurement reports with accumulation intervals greater than 1 hour. It should not be specified for measurement reports with accumulation intervals of 1 hour or less.

`e` A list of from one to five channels on which the measurement schedule is to be output.

`f` One or more measurement subclass/output measurement sets are to be added to or deleted from the measurement report, where `f` is a single, list, or range of 6-digit numbers. The first two digits are the measurement subclass (00-12, 14-63), and the last four digits are the output measurement set (0000-2047). The **MSCOMS** for the control area measurements (MSC 25 through 34) should be specified only for those control areas that are engineered for the office. For example, if three control areas are engineered, then MSC 25, 26, and 27 are legal inputs, and MSC 28 through 34 are not.

`g` A trunk subgroup or list of trunk subgroups to be added to or deleted from the measurement report.

`h` A trunk group or list of trunk groups of which all the trunk subgroups are to be added to or deleted from the measurement report.

`i` The accumulation interval for the measurement report, where `i` is a 5-digit number. The first three digits are the hours (000-168), and the last two digits are the minutes (00,15,30,45). The default is the currently assigned accumulation interval. Accumulation and output times cannot be added or deleted for the measurement report without an assigned nonzero accumulation interval. One exception to this rule is listed under the **ATT** and **OTT** keyword.

SEE PROPRIETARY NOTICE ON COVER PAGE

ATT Specifies that changes are to be made to the accumulation time table (for schedule with **ENGMEM**). By inputting SCHED:MEASREPT a;DLT:ATT! all times in the **ATT** for measurement report a are deleted regardless of the accumulation interval.

OTT Specifies that changes are to be made to the output time table. By inputting **SCHED:MEASREPT** a**;DLT:OTT!** all times in the **OTT** for measurement report a are deleted regardless of the accumulation interval.

The standard input message has both **ATT** and **OTT** defaulted. Defaulting both **ATT** and **OTT** results in the output time table being changed for nonextended interval schedules if the accumulation interval is an hour or less, or both the output and accumulation time tables being changed for extended interval schedules to which engineered memory has been allocated (by specifying **ENGMEM**) to accumulate measurements over accumulation intervals ranging from 15 minutes to 1 week. The accumulation interval used is the one entered with the message, or the interval previously input if none was entered with the message.

j-p The hours and minutes for any day that are to be added or deleted as accumulation and/or output times for the measurement report. The first two digits are the hours (00-23), and the last two digits are the minutes (00, 15, 30, 45). The variable can be a single argument, list, or range or the quarter hour where each argument is a 4-digit number.

q One or more traffic data administration system measurement classes are to be added to or deleted from the tape output (i.e., measurement report 0), where q is a single number, list, or range of 2-digit numbers (00 to 09).

4. SYSTEM RESPONSE

PF Printout Follows. Followed by a SCHED:MEASREPT output message.

5. REFERENCES

PIDENT
TRAFMSGS

Practice 234-100-045, *Plant Measurements and Machine Performance Report Description*
Practice 234-152-1x4, *Traffic and Plant Measurements - Machine Administration Center*
(Where x is the 2nd number of the generic issue [i.e., for 4E19 x=9].)

Translation Guide, 4ESS™, TG-4, Division 10, Section 2e

Output Message
SCHED:MEASREPT

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . SCHED:TDASMC
WORK CENTER . . MAC
GENERIC . . . . . 4E19 and later
CLASS . . . . . TRFM
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Adds and deletes measurement sub-classes (MSCs) to traffic data administration system (TDAS) measurement classes (TDASMCs). Each hour, TDAS measurements are moved to the 3B APS disk and the traffic (TRF) tape, optionally. TDAS measurement classes (MCs) 2 through 9 are moved. Traffic data administration system measurement classes (TDASMCs) 3, 4, and 8 can be optioned to contain any user specified MSCs.

2. FORMAT

SCHED:TDASMC a;{**ADD**|**DLT**}:**MSC** b!

3. EXPLANATION OF MESSAGE

a — TDAS measurement class (3, 4, or 8).

ADD — Adding new MSCs.

DLT — Deleting MSCs.

b — **MSCs** to be operated on; any valid MSC, in the range 0 through 63, excluding:

MSC 10 — Division of revenue.

MSC 13 — Trunk sub-group data.

MSC 14 — Common channel interoffice signaling (CCIS) terminals.

NOTE: If more than a single MSC is specified, the MSCs must be in parenthesis and be either a range or a comma separated list.

4. SYSTEM RESPONSE

PF — Printout Follows. Followed by a SCHED:TDASMC output message.

5. REFERENCES

PIDENT
TRAFMSGS

Translation Guide, 4ESS™, TG-4, Division 10, Section 2G

Output Message
SCHED:TDASMC

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . SCHED:TRKTEST
WORK CENTER . . MOC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Schedules start and stop times of routine testing of trunks or service circuits.

2. FORMAT

SCHED:TRKTEST,OPR:TIMEON a**,TIMEOFF** b**!**

3. EXPLANATION OF MESSAGE

OPR	Schedule operational trunk test.
a	Start time of test (0000-2359).
b	Stop time of test (0000-2359).

4. SYSTEM RESPONSE

OK	Good. Schedule request is accepted.

5. REFERENCES

PIDENTs
TMAD0005
TOPT0000

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . SET:ANNSTAT
WORK CENTER . . TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Unconditionally overrides trouble conditions for the specified announcement.

2. FORMAT

SET:ANNSTAT {**UCLVER**|**UCLSCHED**},**VSSID** a,**SID** b!

3. EXPLANATION OF MESSAGE

UCLVER Callback failure. This manually verifies the standby version of the announcement when the automatic callback failed.

UCLSCHED Transmission check failure. This causes the announcement to be scheduled for activation (according to start time) in spite of transmission problem(s) detected.

a 5-digit voice storage system (VSS) identification (**VSSID**).

b 7-digit service identification (**SID**).

4. SYSTEM RESPONSE

?D Data field contains an error.

?E Syntax Error exists in the message but cannot be resolved to the proper field.

OK Good. Request accepted.

PF Printout Follows. Output message will print for failures only, stating the reason for failure.

RL Retry Later.

5. REFERENCES

PIDENTs
ANNHTTYM
TMAD0005

Output Message
SET:ANNSTAT

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . SET:AUD
WORK CENTER . . MOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Reinitializes and suspends the audit system, and allows only manually demanded audits to run or put the audit system back in normal mode, allowing routine, programmed scheduled audits to run.

2. FORMAT

SET:AUD:a**!**

3. EXPLANATION OF MESSAGE

a	Requested disposition:
	MAN — Audit system is to be put in manual demand only mode.
	NORM— Audit system is to be taken out of manual demand only mode.

4. SYSTEM RESPONSE

?I,RANGE ERR	Identification field contains an error. Incorrect request or keyword.
PF	Printout Follows.

5. REFERENCES

PIDENT
AUDSCTRL

Output Message
OP:AUDSTAT

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . SET:BANDSTAT
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Alters the band status received from a distant common channel signaling system number 6 (CCITT6) signaling transfer point (STP). For bands for which the 4ESS™ switch is an STP, the internal or near end status is not changed, but will be repeated to the far end.

2. FORMAT

SET:BANDSTAT;{**ALW**|**PRO**}**:SIGLK** aabb**,BAND** c**!**

3. EXPLANATION OF MESSAGE

a	Terminal grouping (TGR) number of link whose status is to be changed (00-15).
b	Subunit number within TGR (00-15).
c	Number of band whose status is to be changed (0-127).

4. SYSTEM RESPONSE

NG	No Good. Signaling link (**SIGLK**) is not an in-service CCITT6 link.
OK	Good. Status updated.

5. REFERENCES

PIDENT
ISCLUTIL

SEE PROPRIETARY NOTICE ON COVER PAGE

WARNING
INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

ID . . . . . SET:BP-SCS
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

WARNING
Because this message changes the memory or uses critical resources of the hardware unit, this message should only be used when directed by technical support.

1. PURPOSE

This command sets a breakpoint in the controller(s) or a Service Circuit Unit (SCU) of a Service Circuit System (SCS) frame.

Format [1] and Format [2] are used to set a breakpoint in a simplex SCS controller or duplex SCS controllers.
Format [3] and Format [4] are used to set a breakpoint in an SCU.

2. FORMAT

[1] **SET:BP;SCS** a,**MRAM** b,{**FAST**|**NORM**}**!**

[2] **SET:BP;SCS** a,**MRAM** b,**CUST:**{**GRAM** c|**LRAM** d|**REG** e}[,**INDIR**][,**L** f]**!**

[3] **SET:BP;SCS** a,**SCU** g,**MRAM** h,{**FAST**|**NORM**}**!**

[4] **SET:BP;SCS** a,**SCU** g,**MRAM** h,**CUST:**{**TRAM** i|**REG** j}[,**INDIR**][,**L** f]**!**

3. EXPLANATION OF MESSAGE

a	**SCS** member number in decimal (0-7).
b	SCS controller Micro-store instruction Random Access Memory (MRAM) address in hexadecimal where the breakpoint will be placed. The valid range is 0 thru FFFF.
FAST	Set a fast breakpoint.
NORM	Set a normal breakpoint.
CUST	Set a custom breakpoint.
c	SCS controller Global Random Access Memory (GRAM) data address in hexadecimal. The valid range is 0 through (3,FFFF). This address is the starting address of the GRAM memory region to copy to the custom breakpoint user-data save area. If **INDIR** is specified, the contents of the address specified is the starting address of the GRAM memory region to copy.

SEE PROPRIETARY NOTICE ON COVER PAGE

`d` SCS controller Local Random Access Memory (LRAM) data address in hexadecimal. The valid range is 0 through FFFF. This address is the starting address of the LRAM memory region to copy to the custom breakpoint user-data save area. If **INDIR** is specified, the contents of the address specified is the starting address of the LRAM memory region to copy.

`e` SCS controller register number in hexadecimal. The valid range is 0 through F, 12 (stack pointer), 13 (frame pointer), 28 (global address register 0) and 29 (global address register 1). This register contains the starting address of the GRAM memory region to copy to the custom breakpoint user-data save area. A register assumes the **INDIR** option.

INDIR An indirect address was specified for the starting address of the memory region to copy to the custom breakpoint user-data save area. The default is to treat the address specified as a direct address except for **REG** where indirect addressing is assumed.

`f` Number of words of data, beginning with the starting address, to copy to the custom breakpoint user-data save area. The number is specified in decimal. The valid range is 1-64. The default is 1.

`g` **SCU** number in decimal (0-15).

`h` SCU MRAM address in hexadecimal where the breakpoint will be placed. The valid range is 4000 - BFFF.

`i` SCU Table Random Access Memory (TRAM) data address in hexadecimal. The valid range is 0 through (F,FFFF) where the first hexadecimal digit of a 5-digit address is the segment number, otherwise segment zero is assumed. This address is the starting address of the TRAM memory region to copy to the custom breakpoint user-data save area. If **INDIR** is specified, the contents of the address specified is the starting address of the TRAM memory region to copy.

`j` SCU register number in hexadecimal. The valid range is 0 through F. This register contains the starting address of the TRAM memory region to copy to the custom breakpoint user-data save area. A register assumes the **INDIR** option.

4. SYSTEM RESPONSE

`PF` Printout Follows. A breakpoint will be set in the frame controller(s) or a subunit as specified. A `SET:BP–SCS` output message follows, indicating the results of the request.

5. REFERENCES

PIDENT
SCSBPMEM

SEE PROPRIETARY NOTICE ON COVER PAGE

Input Messages

```
CLR:BP-SCS
OP:BP-SCS
```

Output Messages

```
OP:BP-SCS
REPT:BP-SCS
SET:BP-SCS
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . SET:CAMATRFS
WORK CENTER . . MOC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Sets the traffic sampling rate to the specified value. If the value is 1, the "centralized automatic message accounting (CAMA)" lamp on the master control complex (MCC) lights.

NOTE: If a call reaching the answer state reaches the limit, a traffic sampling technique is used. When the key associated with the lamps is operated, a teletypewriter (TTY) message is printed that indicates that all incompleted CAMA calls are being recorded.

2. FORMAT

SET:CAMATRFS a!

3. EXPLANATION OF MESSAGE

a	Traffic sampling rate (1-99). Calls are sampled on a one-out-of-a basis. The default is 99.

4. SYSTEM RESPONSE

?I	Identification field contains an error. Range error. New traffic sampling limit not between 1 and 99, "CAMA" lamp on MCC lights if the new limit is 1.
OK	Good. Message is correct.

5. REFERENCES

PIDENT
CAMA0000

Practice 234-180-110, *Call Processing Programs*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . SET:CGACNTL
WORK CENTER . . MOC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Sets miscellaneous scanner number (MSN) of a hardware type carrier group alarm (CGA) to **ACCEPT** or **IGNORE**. The **SET:CGACNTL** input message also sets software CGA word for a common channel interoffice signaling (CCIS) carrier group to the **ACCEPT** or **IGNORE** state. This provides the means to control a software carrier alarm.

2. FORMAT

SET:CGACNTL,{OTAN a|**TAN** b|**CIN** c|**TSN** d};{**ACCEPT**|**IGNORE**}**!**

3. EXPLANATION OF MESSAGE

a — Octal trunk appearance number (**OTAN**) of a trunk assigned to the CGA.

b — TSI-SP-PORT-CHANNEL trunk appearance number (**TAN**) of trunk:

- CHANNEL — A 3-digit decimal number indicating channel, range 0-127.
- PORT — A 1-digit decimal number indicating port of time slot interchange (TSI), range 0-6.
- SP — A 1-digit decimal number indicating signaling processor (SP) of TSI, range 0-1.
- TSI — A 2-digit decimal number indicating the time slot interchange (TSI) member number, range 00-63.

c — Circuit identification number (**CIN**) of a trunk assigned to the CGA.

d — SP-ROW-POINT trunk scanner number (**TSN**) of trunk.

- POINT — A 2-digit decimal number indicating the point in the row, range 00-15.
- ROW — A 3-digit decimal number indicating the row in the SP, range 000-255.
- SP — A 2-digit decimal number indicating the SP member number, range 00-31.

ACCEPT — Set the alarm to **ACCEPT**.

IGNORE — Set the alarm to **IGNORE**.

NOTE: When set to **IGNORE**, CGA is placed in the CGA queue and processed as a restoral.

SEE PROPRIETARY NOTICE ON COVER PAGE

4. SYSTEM RESPONSE

`?I`	Identification field contains an error. Trunk inputted is not in a CGA.
`OK`	Good. The alarm control was set.
`RL`	Retry Later. When requesting alarm to be set to **`IGNORE`** and the CGA QUEUE is full - repeat later.

5. REFERENCES

PIDENTs
CGAP00
TMAD0005

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . SET:CLK
WORK CENTER . . MAC, MOC, NMOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Sets the clock to the time and/or date and day of the week as specified.

NOTE: If **DAY** keyword is input, **DATE** must also be used. Similarly, if **DATE** is input, **DAY** must also be included. **TIME** may be used independently or in conjunction with **DAY** and **DATE**.

2. FORMAT

SET:CLK[:[**DAY** a,**DATE** b][,**TIME** c]]**!**

3. EXPLANATION OF MESSAGE

a — Day of the week to be set (SUN, MON, TUE, WED, THU, FRI, or SAT).

b — Date to be set. The format of the date is mnopqr:

- m — Tens, digit of the month.
- n — Units, digit of the month.
- o — Tens, digit of the day.
- p — Units, digit of the day.
- q — Tens, digit of the year.
- r — Units, digit of the year. Numbers less than 70 refer to years in the 21st century.

c — Time to be set. The format of the time is stuvwx:

- s — Tens, digit of the hour.
- t — Units, digit of the hour.
- u — Tens, digit of the minute.
- v — Units, digit of the minute.
- w — Tens, digit of the second.
- x — Units, digit of the second.

4. SYSTEM RESPONSE

?E — Syntax Error exists in the message but cannot be resolved to the proper field.

OK — Good. Message valid — day, date, and/or time set.

SEE PROPRIETARY NOTICE ON COVER PAGE

5. REFERENCES

PIDENT
EXECCNTL

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . SET:CONN
WORK CENTER . . TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Format [1] is used to set up one of six different connection modes between a designated trunk access test (TAT) on a test position and a designated trunk.
Format [2] is used to set up a test call from terminal equipment center (TEC) with no associated TAT.

2. FORMAT

[1] **SET:CONN** a;**TP** b:{**OTAN** c|**TAN** d|**CIN** e|**TSN** f},**MODE** g[,**DNBR** h]!

[2] **SET:CONN 9**[;**RLS**]:{**OTAN** c|**TAN** d|**CIN** e|**TSN** f},**MODE 1**,**DNBR** h!

3. EXPLANATION OF MESSAGE

a — Connect TAT (0 or 1) of the test positions.

b — Two digit test position name (10-99).

c — Octal trunk appearance number (**OTAN**) of the trunk to be connected to the TAT.

d — TSI-SP-PORT-CHANNEL trunk appearance number (**TAN**) of trunk:

- CHANNEL — 3-digit decimal number indicating channel, range 0-127.
- PORT — 1-digit decimal number indicating port of time slot interchange (TSI), range 0-6.
- SP — 1-digit decimal number indicating signaling processor (SP) of TSI, range 0-1.
- TSI — 2-digit decimal number indicating the time slot interchange (TSI) member number, range 00-63.

e — Circuit identification name of the trunk to be connected to the TAT.

f — SP-ROW-POINT trunk scanner number (**TSN**) of trunk:

- POINT — A 2-digit decimal number indicating the point in the row, range 00-15.
- ROW — A 3-digit decimal number indicating the row in the SP, range 000-255.
- SP — A 2-digit decimal number indicating the SP member number, range 00-31.

NOTE: **TSN** f may be entered in octal by using the form **TSN O'**f.

SEE PROPRIETARY NOTICE ON COVER PAGE

g One of eight desired connection modes. Values are 0 through 8 with:

`0` = associate circuit.
`1` = specified circuit.
`2` = outpulse prestored through switch test line number.
`3` = outpulse term switch test line number; or universal services echo canceler (USEC) test.
`4` = no outpulse connection.
`5` = monitor connection.
`6` = outpulsing on an international trunk with KP2 signal.
`8` = Convert digital trunk test unit (DTTU) - monitor to talk. If connection was large scale nailup (LSNC) - trunk used for large scale nailup (TNUP), then convert DTTU-monitor to Duplex no-outpulse (DNUP).

h Used to specify a directory number to be outpulsed on the trunk which is connected to the test position. This keyword is valid for modes 0 through 3 and 6 and will be present with `SET:CONN 9`.

NOTE: If 7 or 10 digits are specified, the 4ESS™ switch will perform normal translations. If the selected trunk is not found in the routing data block, the digits will not be outpulsed. A failure message with FH227 will be returned. Any other number of digits through 18 will be outpulsed as specified without translations.

NOTE: **`DNBR`** keyword has a special meaning when used in conjunction with **`MODE 2`** or **`3`**. There are a total of four prestored (disk) directory numbers, combinations of **`MODE 2,DNBR`**`[`**`103,105`**`]` and **`MODE 3,DNBR`**`[`**`103,105`**`]` are used to identify which prestored directory test line number is to be used. When **`MODE`** is **`3`**, additional **`DNBR`**s as described following are provided to permit the indicated Universal Services Echo Canceler (USEC) addressing tests.

`MODE 2,DNBR 103` Outpulse prestored operational through switch test number.

`MODE 2,DNBR 105` Outpulse prestored transmission through switch test number.

`MODE 3,DNBR 103` Outpulse prestored operational term switch test number.

`MODE 3,DNBR 105` Outpulse prestored transmission term switch number.

`MODE 3,DNBR 155` Outpulse 105 after sending maintenance order to Per Call Control (PCC) USEC.

SEE PROPRIETARY NOTICE ON COVER PAGE

MODE 3,DNBR 165 Outpulse 1099 after sending enable all order to USEC.

MODE 3,DNBR 175 Outpulse 1099 after sending echo cancel only order to USEC.

MODE 3,DNBR 185 Outpulse 1099 after sending maintenance order to USEC.

CONN 9 **MODE**=**1**, connect or release test call from TEC.

RLS Release keyword for **SET:CONN 9**.

4. SYSTEM RESPONSE

?E Syntax error exists in the message but cannot be resolved to the proper field. System error detected in use of keywords and argument data. Either required keywords are absent or optional keywords used invalidly.

PF Printout Follows. Followed by a SET:CONN output message.

RL Retry Later. System resources not available.

5. REFERENCES

PIDENTs
TACCORIG
TMAD0005
VIFOPCTL

Output Message
SET:CONN

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . SET:CS
WORK CENTER . . MAC, MOC, NMOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Sets the specified Call Store (CS) to a particular MCODE. The MCODE may be specified, or a normal MCODE will be determined by the fault recovery program. If the unit can be removed from service or if it is out of service, its MCODE is changed as directed. The unit is restored conditionally or unconditionally as directed.

NOTE: The assigned MCODE for the call store will remain equal to the MCODE unless either:

- the call store is changed by another **SET:CS** input message

-or-

- trouble develops forcing a call store community bootstrap or forced status update.

Thus, until the call store is changed, a restoral of the call store will assign the call store to the indicated MCODE.

2. FORMAT

SET:CS a;{**NORM**|**MCODE** b}[;**UCL**]!

3. EXPLANATION OF MESSAGE

a	Member number of the call store.
NORM	Set the call store to its normal MCODE.
b	Set the call store to the 9 bit **MCODE** specified.
UCL	The call store should be restored unconditionally.

4. SYSTEM RESPONSE

CODE 103	A unit type and member number are required for this input message.
CODE 104	A job could not be requested from Maintenance Control Program (MACP); retry later.
CODE 105	No **MCODE** argument was entered.
CODE 106	Invalid MCODE range.
CODE 107	Invalid message entered (too many arguments).

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`CODE 108`	Invalid call store MCODE entered.
`CODE 110`	MCODE is unequipped in this office.
`PF`	Printout Follows. Followed by a `RST:CS` output message if **`UCL`** entered. Followed by a `DGN:CS` and `RST:CS` output message.

5. REFERENCES

PIDENT
CSFRBSLV

Output Messages
`DGN:CS`
`RST:CS`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . SET:DCONN
WORK CENTER . . TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

To establish or release a connection between a digital test access trunk (DTAT) and designated trunk or nailed-up circuit. The five possible connection modes are associated circuit, outpulse and no outpulse, Duplex Monitor, and Duplex Split. Format [1] releases a connection; Format [2] establishes a connection.

This test is also designed to measure the round trip delay time when sending an RSVP/RSVPR common channel signaling system 7 (CCS7) message couplet from any originating to a terminating switch, known as RMRT test. Format [3].

2. FORMAT

[1] **SET:DCONN** a;**RLS**[,**RDC**]!

[2] **SET:DCONN** a[;**RDC**][,**UCL**]:{**OTAN** b|**TAN** c|**TSN** d|**CIN** e},**MODE** f [,**DNBR** g]!

[3] **SET:DCONN** i;**TST**:{**OTAN** b|**TAN** c|**TSN** d|**CIN** e} **MODE** f[,**SLS** h]!

3. EXPLANATION OF MESSAGE

a — The number of the desired (0-127) DTAT.

RDC — Test access will be allowed on "RED" circuits only if the **RDC** keyword is present. The **RDC** keyword is valid only for no outpulse connections (mode 9).

UCL — To be used in conjunction with **RDC** when requesting a D-channel mode 9 connection. The associated B-channels are expected to be in states compatible with testing of the D-channel prior to test request.

b — Octal trunk appearance number (**OTAN**) of the digital data trunk.

c — TSI-SP-PORT-CHANNEL trunk appearance number (**TAN**)

- CHANNEL — A 3-digit decimal number indicating channel, range 0-127.
- PORT — A 1-digit decimal number indicating port of time slot interchange (TSI), range 0-6.
- SP — A 1-digit decimal number indicating signaling processor (SP) of TSI, range 0-1.
- TSI — A 2-digit decimal number indicating the time slot interchange (TSI) member number, range 00-63.

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d — SP-ROW-POINT trunk scanner number (**TSN**) of digital data trunk:

- POINT — A 2-digit decimal number indicating the point in the row, range 00-15.
- ROW — A 3-digit decimal number indicating the row in the SP, range 000-255.
- SP — A 2-digit decimal number indicating the SP member number, range 00-31.

e — Circuit identification number (**CIN**) of digital data trunk to the DTAT.

f — Connection modes:

- 0 — Associated circuit connection mode.
- 1 — Outpulse connection mode to far end test line.
- 4 — No outpulse (split) connection mode.
- 5 — Duplex monitor connection to a large scale nailup connection.
- 9 — Duplex no outpulse (split) connection to a large scale nailup connection.
- 10 — Initiates the RMRT test via the CCS7 network.
- 11 — Initiates the RMRT test via the alternate signaling transport network (ASTN).
- 12 — Initiates the RMRT test using the new rehomed switch destination point code.

g — Directory number to be outpulsed on trunk connected to DTAT. This variable is used only if variable f=1 or f=0.

h — SLS — Signaling link selection link via which testing round trip delay time (RMRT) should commence; if not input, SLS will be determined from input trunk.

i — (0-32) — Number of tests round trip delay time (RMRT) to be run, beginning with input or computed SLS.

4. SYSTEM RESPONSE

?D — Data field contains an error.

?E — Syntax Error exists in the message but cannot be resolved to the proper field.

PF — Printout Follows.

RL — Retry Later.

SEE PROPRIETARY NOTICE ON COVER PAGE

5. REFERENCES

PIDENTs
IOCPIMC4
TMAD0005
TMTCDATA

Output Message
SET:DCONN

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . SET:DIGROUP
WORK CENTER . . MOC, TEC, TOC
GENERIC . . . . . 4E21 Rel. 4 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Sets the digroup submembers to either an **ACCEPT** or **IGNORE** state.

2. FORMAT

```
SET:DIGROUP,{OTAN a|TAN b|CIN c|TSN d|DT e,DTU f,DG g|
      XTSI h,D3U i,DG j|DIF k,DIU l,DG g}:{ACCEPT|IGNORE}!
```

3. EXPLANATION OF MESSAGE

a — Octal Trunk Appearance Number (**OTAN**) of any trunk in the digroup.

b — TSI-SP-PORT-CHANNEL Trunk Appearance Number (**TAN**) of trunk:

- CHANNEL — 3-digit decimal number indicating channel, range 0-127.
- PORT — 1-digit decimal number indicating port of Time Slot Interchange (TSI), range 0-6.
- SP — 1-digit decimal number indicating Signaling Processor (SP) of TSI, range 0-1.
- TSI — 2-digit decimal number indicating the Time Slot Interchange (TSI) member number, range 00-63.

c — Circuit Identification Number (**CIN**) of any trunk in the digroup.

d — SP-ROW-POINT Trunk Scanner Number (**TSN**) of trunk:

- POINT — A 2-digit decimal number indicating the point in the row, range 00-15.
- ROW — A 3-digit decimal number indicating the row in the SP, range 000-255.
- SP — A 2-digit decimal number indicating the SP member number, range 00-31.

e — Digroup Terminal (**DT**) number of digroup.

f — Digroup Terminal Unit (**DTU**) number of digroup.

g — Digroup number.

h — Expanded Time Slot Interchange (XTSI) member number.

i — D3U unit number (0-5).

j — Digroup (DG) number (1-28).

k — Digital Interface Frame (**DIF**) member number od digroup.

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`l` Digital Interface Unit (**DIU**) number of digroup.

ACCEPT Remove the **IGNORE** control and allow autonomous Teletypewriter (TTY) messages (`REPT:CIN` or `REPT:OTAN`) to report on the digroup.

IGNORE Do not generate any further autonomous TTY output (`REPT:CIN` or `REPT:OTAN`) for the digroup; e.g., local and remote alarm transition will not be reported, and slip, Out Of Frame (OOF), Billing Validation (BV) errors will not be reported. Digroup memory will continue to be updated, however. Trunks must be removed manually prior to going into ignore state.

4. SYSTEM RESPONSE

`?D` Data field contains an error. Trunk or digroup data is invalid, e.g., out of range, or **DT** identified is nonoperational.

`?E` Syntax Error exists in the message but cannot be resolved to the proper field.

`PF` Printout Follows. `SET:DIGROUP` output message will follow.

`RL` Retry Later.

5. REFERENCES

PIDENTs
TMAD0005
TMAD0061
TMTCXTSI

Practice 234-100-052, *Digital Facility Trunk Trouble Reporting*

Input Messages
`OP:DGSTAT`
`SET:TRKSTAT`

NOTE: Use the `OP:DGSTAT` input message to determine the present state of digroup. Use the `SET:TRKSTAT` input message to manually remove trunks.

Output Messages
`REPT:CIN`
`REPT:OTAN`
`SET:DIGROUP`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . SET:DTAC
WORK CENTER . . MOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

To establish or release a direct test access connection (DTAC) between the circuit(s) to be tested and the protocol analysis equipment. Trunks under test may be nailed-up or single circuits.

2. FORMAT

SET:DTAC;a:{**OTAN** b|**CIN** c|**TSN** d|**TAN** e}[,**DNBR** f][,**DOM** g]**!**

3. EXPLANATION OF MESSAGE

a — Connection mode.

- ACC — Initiates the **DTAC** test function for the input trunk, obtains an access circuit for the input trunk, outpulses **DNBR** to achieve connection to the protocol analysis circuit, and loops access circuit at originating end.

  Must be requested twice if the test circuit is a nailed-up connection.
- LOOP — Provides self-loop connections on the access circuits; will reinstate the nailed-up connection.
- MON — Provides one-way monitor connections between the access circuits and the trunks under test.
- RLS — Releases the direct test access function.
- SPLIT — Provides 2-way connections between the trunks under test and the access circuits.

b — Octal trunk appearance number.

c — Circuit identification number.

d — Trunk scanner number.

e — Trunk appearance number.

f — Directory number to obtain desired protocol analysis circuit.

g — Domain in which to translate input **DNBR** (ex DEC6).

4. SYSTEM RESPONSE

?D — Data field contains an error.

?E — Syntax Error exists in the message but cannot be resolved to the proper field.

SEE PROPRIETARY NOTICE ON COVER PAGE

PF Printout Follows.

5. REFERENCES

PIDENTs
TMAD0005
TMTCDTAC

Input Message
OP:DTAC

Output Messages
OP:DTAC
SET:DTAC

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . SET:LIBSYS
WORK CENTER . . MAC, MOC, NMOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Sets up or clears a default package name to be used with `EX:LIBSYS` and `STOP:LIBSYS` input messages.

2. FORMAT

`SET:LIBSYS,PKG` `[a]`**`!`**

3. EXPLANATION OF MESSAGE

`a`	Package name to be set up as a default. If not specified, the default package name is cleared.

4. SYSTEM RESPONSE

`OK`	Good. Action completed.

5. REFERENCES

PIDENT
LIBREXER

Practice 254-280-214, *Library Control Program*

Input Messages
`EX:LIBSYS`
`STOP:LIBSYS`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . SET:NETROUT
WORK CENTER . . MOC, TEC
GENERIC . . . . . 4E21 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Modifies the Time Multiplexed Switch (TMS) Time Slot Interchange (TSI) A-Link routing.

2. FORMAT

SET:NETROUT;a{**;ALL|:MEMN** b}**!**

3. EXPLANATION OF MESSAGE

a — State of A-link routing:

BOTH — Both crossed: Receive Time Slot Interchange (RTSI) controller 0 to TMS controller 1 to TTSI controller 0; RTSI controller 1 to TMS controller 0 to Transit Time Slot Interchange (TTSI) controller 1.

NORM — Normal routing: RTSI controller 0 to TMS controller 0 to TTSI controller 0; RTSI controller 1 to TMS controller 1 to TTSI controller 1.

RTSI — RTSI crossed: RTSI controller 0 to TMS controller 1 to TTSI controller 1; RTSI controller 1 to TMS controller 0 to TTSI controller 0.

TTSI — TTSI crossed: RTSI controller 0 to TMS controller 0 to TTSI controller 1; RTSI controller 1 to TMS controller 1 to TMS controller 1 to TTSI controller 0.

ALL — All TSI members.

b — Any TSI or Expanded Time Slot Interchange (XTSI) Member Number (**MEMN**) (0-63).

4. SYSTEM RESPONSE

None.

5. REFERENCES

PIDENT
PUCNNTWK

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . SET:POKE
WORK CENTER . . MOC
GENERIC . . . . . 4E20 Rel. 4 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Simulates POKING a subset of the POKES on the Master Control Complex (MCC) page 108. The specified MCC POKE will be sent to the Master Control Complex Utility Processor (MUP) toggling or executing the related function of that POKE.

2. FORMAT

SET:POKE:a**!**

3. EXPLANATION OF MESSAGE

a Specific POKE to be performed:

801 RESTRICT RC - Toggles the corresponding indicator, restricting or releasing the restriction against recent change activity outside the MOC.

802 INH SUP PRINT - Toggle the corresponding indicator, inhibiting or releasing the restriction against the output of supplementary interrupt printouts to the Maintenance (MTC) channel.

803 INH INT PRINT - Toggle the corresponding indicator, inhibiting or releasing the restriction on interrupt printouts.

804 INH AUD PRINT - Toggle the corresponding indicator, inhibiting or releasing of audit printouts.

805 ELEV AUD PRINT - Toggle the corresponding indicator, elevating or releasing the elevation of audit printouts.

806 REINIT TTY SYS - Execute command to cause all Teletypewriter (TTY) buffers to be flushed and the TTY system to be reinitialized.

807 REQ TTY AUDIT - Execute command to request TTY audit.

808 CLEAR INTERRUPTS - Execute command to clear INTERRUPT lamp on MCC page 108.

810 SDC - Execute command to request service degrading conditions.

811 PGM CNTL OFF NORM - Execute command to cause a list of all software program controls off normal to be output to the MTC channel.

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`812` OVLD CTL IN EFF - Execute command to cause an output message reporting the status of "Office overload controls".

`813` INTRPT INH - Execute command to print summary status of inhibited interrupts

`814` REFSTAT - Execute command to print REFSTAT message.

4. SYSTEM RESPONSE

`?I,INV DATA`	Identification field contains an error. Invalid POKE number.
`?R,MCC DPFL`	Insufficient system Resources are available to determine the validity of the message. No active MUP to perform this function.
`OK`	Good. Request accepted.
`RL`	Retry Later. Previous POKE requested has not completed.

5. REFERENCES

PIDENTs
MCCMEPS1

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . SET:PS
WORK CENTER . . MAC, MOC, NMOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Sets the specified Program Store (PS) to a particular MCODE. The MCODE may be specified, or a normal MCODE will be determined by the fault recovery program. If the unit can be removed from service or if it is out of service, its MCODE is changed as directed. The unit is restored conditionally or unconditionally as directed.

NOTE: The assigned MCODE for the program store will remain equal to the MCODE unless either:

- the program store is changed by another **SET:PS** input message

-or-

- trouble develops forcing a program store community bootstrap or forced status update.

Thus, until the program store is changed, a restoral of the program store will assign the program store to the indicated MCODE.

2. FORMAT

SET:PS a;{**NORM**|**MCODE** b}[;**UCL**]!

3. EXPLANATION OF MESSAGE

a	Member number of the program store.
NORM	Set the program store to its normal MCODE.
b	Set the program store to the 9 bit **MCODE** specified.
UCL	The program store should be restored unconditionally.

4. SYSTEM RESPONSE

CODE 103	A unit type and member number are required for this input message.
CODE 104	A job could not be requested from Maintenance Control Program (MACP); retry later.
CODE 105	No **MCODE** argument was entered.
CODE 106	Invalid MCODE range.
CODE 107	Invalid message entered (too many arguments).

SEE PROPRIETARY NOTICE ON COVER PAGE

`CODE 109`	Invalid program store MCODE entered.
`CODE 110`	MCODE is unequipped in this office.
`PF`	Printout Follows. Followed by a `RST:PS` output message if **`UCL`** entered. Followed by a `DGN:PS` and `RST:PS` output message.

5. REFERENCES

PIDENT
CSFRBSLV

Output Messages
`DGN:PS`
`RST:PS`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . SET:SAWSLOCK
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Sets a lockout of the system audit of writable stores (SAWS) for certain disk identification (ID) tags during updates of the attached processor system (APS).

2. FORMAT

SET:SAWSLOCK!

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

NG	No Good. Disk ID tag supplied by application program is out of range.
OK	Good. Request completed.
RL	Retry Later. Another program has an active SAWS lockout.

5. REFERENCES

PIDENT
SAWSSUBR

Input Message
CLR:SAWSLOCK

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . SET:SDSTAT
WORK CENTER . . MAC, MOC, NMOC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Requests that the cache table associated with the Reduction of Double Dip be activated or deactivated. For Reduction of Double Dip, the cache table will refill itself as 800 numbers come into the switch. If deactivate is specified, the cache table will no longer be used to store the network routing numbers returned from the inward wide area telecommunications service (INWATS) data base (IDB). All 800 calls will then query the IDB.

Format [1] is used to Reduction of Double Dip Cache Table Activation.

Format [2] is used to Reduction of Double Dip Cache Table Deactivation.

2. FORMAT

[1] **`SET:SDSTAT,ACTIVATE!`**

[2] **`SET:SDSTAT,DEACT!`**

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`PF` Printout Follows. The activation status of the cache table will be printed.

5. REFERENCES

PIDENTs
CCSDSDIW
IOCPIMC4

Output Message
`SET:SDSTAT`

SEE PROPRIETARY NOTICE ON COVER PAGE

WARNING
INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

ID . . . . . SET:SOAK
WORK CENTER . . MOC
GENERIC . . . . . 4E24 and later
CLASS . . . . . PMTC
APPLICATION . . 4E
TYPE . . . . . Input

WARNING
The CC should be switched to standby before initiating a soak test.

1. PURPOSE

Modifies the soak list by doing one of the following:

— A unit is added to the soak list for a specified number of days.

— A unit is removed from the soak list by setting the number of days to 0.

— The number of soak days for a unit on the soak list is modified.

The unit may be a Central Control (CC), Call Store (CS), Master Control Complex and Utility Processor (MUP) or a Program Store (PS).

2. FORMAT

SET:SOAK:a b[**,DAYS** c]**!**

3. EXPLANATION OF MESSAGE

a	Unit type:
	CC — Central control.
	CS — Call store.
	PS — Program store.
	MUP — Master control complex and utility processor.
b	Member number. (CC 0-1), (CS 0-39), (MUP 0-1), (PS 0-13).
c	Number of days unit is to be soak tested (0-3). Default is 3 days.

4. SYSTEM RESPONSE

?D	Data field contains an error. Invalid unit type, invalid member number or invalid day count
NG,CODE 12	No Good. Soak list is full for this unit type.
NG,CODE 13	No Good. Member number is unequipped.
OK	Good. Request accepted. Unit added to soak list, unit removed from soak list, or number of soak days changed.

SEE PROPRIETARY NOTICE ON COVER PAGE

5. REFERENCES

PIDENTs
- CSFRBSLV
- CCFRTEST
- MCFRBASE
- MIRA
- PSFRBSLV
- SFFRBASE

Output Messages
- `OP:CCSTATUS`
- `OP:CSSTATUS`
- `OP:MUPSTAT`
- `OP:PSSTATUS`
- `REPT:SOAK`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . SET:STRMEX
WORK CENTER . . MOC
GENERIC . . . . . 4E19 only
CLASS . . . . . PMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Sends test messages from the 1B processor to the attached processor system (APS) and sets the rate at which the messages are sent. This command is used in testing the direct memory access (DMA) capability between the 1B processor and APS. This command should only be used during preretrofit testing of the 1B processor. This input message is entered on the 1B processor terminal.

2. FORMAT

SET:STRMEX [a]**!**

3. EXPLANATION OF MESSAGE

a	Number of messages to be generated per maintenance control program (MACP) entry (1 through 10). Default send rate set to 1.

4. SYSTEM RESPONSE

NG,CODE 05	No Good. Stream exerciser was not enabled. The ALW:STRMEX command must be used prior to this input message.
NG,CODE 10	No Good. Invalid input parameter. Valid values are 1 through 10.
OK	Good. Request accepted.
RL,CODE 06	Retry Later. Indicates that there was no available MACP job.

5. REFERENCES

PIDENT
FNCTSUBS

Input Messages
ALW:STRMEX
INH:STRMEX

SEE PROPRIETARY NOTICE ON COVER PAGE

WARNING
INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

ID . . . . . SET:TRKSTAT
WORK CENTER . . MOC, TEC, TOC
GENERIC . . . . . 4E21 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

WARNING
This message can disable all of the trunks in an office. Use Format [3] only during non-peak hours, always indicating a STAT variable and other than ALL.

1. PURPOSE

Sets the maintenance status of the specified trunk, or group of trunks, to the specified state.

A `SET:TRKSTAT` output message is printed for each trunk which is affected if **`SUM`** is not present. Also, if the major category of trunk state (e.g., ACT, MTC, CAD) changes, then a `REPT:TRK` message is sent to Circuit Maintenance System (CMS), or the reporting Teletypewriter (TTY) if not CMS. If **`SUM`** is specified, however, no `REPT:TRK` messages will be output.

NOTE 1: If **`TRKSTAT`** is not being set to Active (ACT) and **`SUM`** is specified, then this message can only be input from the maintenance, secondary record, switching control center channels, or Telephone Company Administration (TCA)* channels.

* TCA channels are ONLY allowed at Local Exchange Carrier (LEC) switches.

NOTE 2: Certain combinations of the following parameters cause a `REPT:SDC` output message to print. If the **`ALL`** or **`TCA`** parameter is used to remove active trunks, a `REPT:SDC` warning message is output. If an attempt to remove active trunk exceeds the threshold limits (32 or 128) of active trunks, a `REPT:SDC` warning message is output.

2. FORMAT

[1]
```
SET:TRKSTAT a,{OTAN b|TAN c|CIN d|TSN e}[;{SUM|SDP}]
:TSG,{SDM|SDP|SCP|CAR}[,STAT f]]!
```

[2]
```
SET:TRKSTAT a,{OTAN b|TAN c|CIN d|TSN e}[;{SUM|SDP}]
:{SDM[,STAT f]|SCP[,STAT f]|CAR[,STAT f]|NUM g}]!
```

[3]
```
SET:TRKSTAT a,{TCA h|ALL}[;SUM][:STAT f]!
```

[4]
```
SET:TRKSTAT a,{RSD|OSC i|ISC j}[;SUM][:STAT f]!
```

SEE PROPRIETARY NOTICE ON COVER PAGE

3. EXPLANATION OF MESSAGE

a — Trunk state being set. Legal states are:

- ACT — Set trunk to active state.
- CAD.DSA — Circuit administration disabled.
- CAD.LKO — Circuit administration lock-out.
- MTC.DSA — Maintenance disabled.
- MTC.LKO — Maintenance lock-out.

b — Octal Trunk Appearance Number (**OTAN**) of trunk.

c — TSI-SP-PORT-CHANNEL Trunk Appearance Number (**TAN**) of trunk.

- CHANNEL — A 3-digit decimal number indicating channel, range 0-127.
- PORT — A 1-digit decimal number indicating port of Time Slot Interchange (TSI), range 0-6.
- TSI — A 2-digit decimal number indicating the Time Slot Interchange (TSI) member number, range 00-63.
- SP — A 1-digit decimal number indicating Signaling Processor (SP) of TSI, range 0-1.

d — Circuit Identification Number (**CIN**) of trunk.

e — SP-ROW-POINT trunk scanner number **TSN** of trunk.

- POINT — A 2-digit decimal number indicating the point in the row, range 00-15.
- ROW — A 3-digit decimal number indicating the row in the SP, range 000-255.
- SP — A 2-digit decimal number indicating the SP member number, range 00-31.

NOTE: If **TSG**, **SDM**, **SDP**, **SCP**, or **CAR** is specified, then the trunk (b,c,d,e) can be any member of the group which should be affected. If no group is specified, then just one trunk is affected.

SUM — Signal Distributor (SD) matrix pack family, e.g., all trunks on the same SD matrix circuit as the input trunk.

SDP — Signal distributor relay pack family.

TSG — Trunk subgroup.

SDM — Signal distributor matrix pack family.

SCP — Scan matrix pack family.

CAR — 24 trunks, starting with base MOD 24 trunk, will be processed, unless the trunk is on a Voiceband Interface Frame (VIF).

NOTE: If any of the previous families appear along with Trunk Subgroup (**TSG**), then only trunks in the **TSG**, and on the same **SUM**, **SDP**, **SCP**, or **CAP** will be affected, after possible **STAT** f screening.

SEE PROPRIETARY NOTICE ON COVER PAGE

`f` Old status specification. This can be used to specify that only trunks in the specified group (TSG, TCA, ALL, SDM, etc.) that are presently in state `f` should be set to state `a`. If **`STAT`** is not specified, then all trunks in the group are affected.

Legal old status values are:

`ACT` Active.

`ALL`— This is the default if **`STAT`** not present.

`BLK`

`MC3`— Integrated Services Digital Network (ISDN) User Part (ISUP). Unable to signal to far end.

`RSF`— Ring service failure.

`{MTC|CAD}[.BLK][.LKO[<{MAN|AUT}>]][.DSA[<x>]]`

where `x` = any combination of the following:

`AUT` — Automatic (e.g., error analysis, test failure).
`CAR` — Carrier alarm.
`ESS`™ — Any ESS™-controlled reason (e.g., HAW, CAP, etc).
`HAW` — High and wet.
`MAN` — Manual.
`NIU` — Network interface unit, no protection switch done.
`RBA` — Recent change roll-back.
`SCP` — Scan pack matrix family disabled.
`SDM` — Signal distributor matrix pack family disabled.
`SDP` — Signal distributor relay pack family disabled.
`SPF` — Signal processor failure.
`TSF` — Common Channel Interoffice Signaling (CCIS) total signaling failure.
`TSI` — Duplex TSI failure.

NOTE: Fields of `x` may be separated by spaces, but total old status specification cannot exceed *21* characters. Also note that not all combinations of old status which can be input can actually exist as a trunk state in the 4ESS™ switch.

The traffic state may also be included for **`STAT`**. The format and possible traffic states are:

`STAT` `([f,]TRAF<{2WOPB|AUDLIST|AUDST|CODE j|CTRA|HWL|HWT|IDLE|OOSI|UNA}>)`

`2WOPB` — 2-way operator busy.
`AUDLIST` — Audit list.
`AUDST` — Audit state.

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CDTSI — Connected to dedicated TSI.
CODE j — Decimal trunk register state code (see item TR4CODE on COMPOOL).
HWL — High and wet list.
HWT — High and wet timing.
IDLE — Idle.
OOSI — Out of service ignore.
UNA — Unassigned.

NOTE: The parentheses are not required if old state is not specified and only a traffic state is specified.

g — Decimal number 1-4095 representing the number of consecutive TANs, TSNs, or Traffic Numbers (TFNs), starting with the input trunk, to output, possibly screened by **STAT**. The form of the input trunk identity (e.g., TAN) determines the type of number that **NUM** identifies. Thus, if **TAN** is input, g means consecutive TANs; TSN input means consecutive TSNs; and CIN input means consecutive TFNs. Only the assigned trunks in the range are output.

h — Trunk control area number.

All trunks in the control area are affected unless **STAT** is present. To stop a group set message, use input message STOP:SET-TRKST.

ALL — The **ALL** keyword specifies that all trunks in the office in the specified **STAT** should be affected. To stop a group set message, use input message STOP:SET-TRKST.

NOTE: The **ALL** keyword is not valid in cutover offices when entered in combination with variable a ≠ ACT and variable f = ACT or variable a ≠ ACT and STAT f omitted. If the variable f includes a traffic state that is not Out Of Service Ignore (OOSI), it is treated as though f = ACT. This combination of variables may be used with **ALL** in a precutover office.

RSD — Trunks which are ring signaling dependent.

i — Decimal value of an outgoing signaling characteristic.

j — Decimal value of an incoming signaling characteristic.

Examples of input messages follow:

(a) Set to maintenance disabled all idle trunks on the same carrier group as the input trunk:

```
SET:TRKSTAT MTC.DSA,CIN 6CHG1LWB68A57T:CAR,STAT TRAF<IDLE>!
```

(b) Set to active all trunks in the same trunk subgroup as the input trunk which are also on the same SD matrix circuit pack:

```
SET:TRKSTAT ACT,CIN 6CHG1LWB68A57T:TSG,SDM!
```

SEE PROPRIETARY NOTICE ON COVER PAGE

4. SYSTEM RESPONSE

?C	Channel is not valid for this message. Options requested are not legal from this TTY channel.
?D	Data field contains an error. Possible causes include invalid specification of **TRKSTAT** a or **STAT** f. On group type requests, **TCA** h may be invalid, or the trunk used to specify a group may be unassigned.
?E	Syntax Error exists in the message but cannot be resolved to the proper field.
PF	Printout Follows. Request is being processed and output message SET:TRKSTAT will follow.
RL	Retry Later. Request cannot be processed at this time.

5. REFERENCES

PIDENTs
TMAD0001
TMAD0005
TMAD0006

Input Messages
OP:TRKSTAT
OP:TSGSTAT
STOP:SET-TRKST

Output Messages
REPT:SDC
SET:TRKSTAT

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . SET:TSGATC
WORK CENTER . . MOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Sets trunk subgroup automatic test control for specified trunk subgroup (TSG) or group of TSGs to specified value.

2. FORMAT

SET:TSGATC,{**OTAN** a|**TAN** b|**CIN** c|**TSN** d|**TCA** e|**ALL**}:{**INH**|**REPT**|**NORM**|**NOLIMIT**}**!**

3. EXPLANATION OF MESSAGE

a — Octal trunk appearance number (**OTAN**) or a trunk in a single TSG for which the control should be set.

b — TSI-SP-PORT-CHANNEL trunk appearance number (**TAN**) of trunk:

- CHANNEL — A 3-digit decimal number indicating channel, range 0-127.
- PORT — A 1-digit decimal number indicating port of time slot interchange (TSI), range 0-6.
- SP — A 1-digit decimal number indicating signaling processor (SP) of TSI, range 0-1.
- TSI — A 2-digit decimal number indicating the time slot interchange (TSI) member number, range 00-63.

c — Circuit identification number (**CIN**) of trunk in affected TSG.

d — SP-ROW-POINT trunk scanner number (**TSN**) of trunk.

- POINT — A 2-digit decimal number indicating the point in the row, range 00-15.
- ROW — A 3-digit decimal number indicating the row in the SP, range 000-255.
- SP — A 2-digit decimal number indicating the SP member number, range 00-31.

e — Trunk control area. All TSGs in control area will be affected except multi-frequency (MF) receivers, MF transmitters, and common channel interoffice signaling (CCIS) transceivers, which can only be affected via the single TSG form.

ALL — All TSGs in the office should be affected except the service circuits listed in e.

INH — Inhibit automatic trunk testing on the TSG. This includes both routine tests and tests run as the result of call failures on the trunks in the TSG.

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REPT Allow automatic trunk tests to run but do not remove failing trunks from service; report only. This has the effect of setting the magic number to 0 percent for this TSG as far as automatic test failures are concerned.

NORM Allow automatic trunk tests on the TSG and remove failing trunks until the magic number is reached (25 percent).

NOLIMIT Allow automatic trunk tests on the TSG and remove any failing trunks, even beyond the magic number. This has the effect of setting the magic number to 100 percent for this TSG as far as automatic test failures are concerned.

NOTE: The default automatic test control is **NORM** for all TSGs. Controls are preserved across all phases, unless zero memory option is chosen, in which case controls revert to normal.

4. SYSTEM RESPONSE

?D Data field contains an error. Trunk or **TCA** is not assigned.

?E Syntax Error exists in the message but cannot be resolved to the proper field.

OK Good. Request completed for single TSG.

PF Printout Follows. For **TCA** and **ALL** type requests, a SET:TSGATC output message will follow.

RL Retry Later.

5. REFERENCES

PIDENTs
TMAD0005
TMAD0006

Input Message
OP:TSGSTAT

Output Message
SET:TSGATC

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . SET:TSGEAC
WORK CENTER . . MOC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Sets the trunk subgroup trunk error analysis control for the specified trunk subgroup (TSG) or group of TSGs to the specified control value.

2. FORMAT

SET:TSGEAC,{**OTAN** a|**TAN** b|**CIN** c|**TSN** d|**TCA** e|**ALL**}:{**INH**|**REPT**|**NORM**|**NOLIMIT**}**!**

3. EXPLANATION OF MESSAGE

a — Octal trunk appearance number (**OTAN**) of any trunk in a single TSG for which the control should be set.

b — TSI-SP-PORT-CHANNEL trunk appearance number (**TAN**) of trunk:

- CHANNEL — A 3-digit decimal number indicating channel, range 0-127.
- PORT — A 1-digit decimal number indicating port of time slot interchange (TSI), range 0-6.
- SP — A 1-digit decimal number indicating signaling processor (SP) of TSI, range 0-1.
- TSI — A 2-digit decimal number indicating the time slot interchange (TSI) member number, range 00-63.

c — Circuit identification number (**CIN**) of trunk in affected TSG.

d — SP-ROW-POINT trunk scanner number (**TSN**) of trunk.

- POINT — A 2-digit decimal number indicating the point in the row, range 00-15.
- ROW — A 3-digit decimal number indicating the row in the SP, range 000-255.
- SP — A 2-digit decimal number indicating the SP member number, range 00-31.

e — Trunk control area. All TSGs in control area will be affected except multi-frequency (MF) receivers, MF transmitters, and common channel interoffice signaling (CCIS) transceivers, which can only be affected via the single TSG form only.

ALL — All TSGs in the office should be affected except the service circuits listed in e.

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INH Inhibit the trunk error analysis for all trunks in the TSG. This means that trunk errors on trunks in the TSG will not be processed by trunk error analysis either for purposes of removing trunks from service or reporting suspected trunks. Any trunks already in error analysis when the **INH** control is set will continue to be processed, but will only be reported, not removed from service, if they fail error analysis.

REPT Perform trunk error analysis on trunks in TSG but only report failing trunks, do not remove them from service.

NOTE: This in effect sets the magic number for the TSG to 0 as far as error analysis is concerned.

NORM Perform trunk error analysis on trunks in the TSG and remove failing trunks from service, but do not exceed the office defined magic number (25 percent). After the magic number is reached failing trunks will still be reported. This is the "default" control for all trunks and service circuits except trunk maintenance test circuits, which default to **NOLIMIT**.

NOLIMIT Perform trunk error analysis and remove any trunks which fail, up to 100 percent of the trunks in the TSG. This is the default for trunk maintenance test circuits.

NOTE: TSG error analysis controls are reset to **NOLIMIT** for test circuits when a Phase 2, 3, or 4 is run. Non-test circuit controls are preserved across all phases unless memory is zeroed, in which case the controls revert to **NORMAL**.

4. SYSTEM RESPONSE

?D Data field contains an error. Trunk or **TCA** identified is not assigned.

?E Syntax Error exists in the message but cannot be resolved to the proper field.

OK Good. Request completed for single TSG.

PF Printout Follows. For **TCA** and **ALL** type requests, a SET:TSGEAC output message will follow.

RL Retry Later.

5. REFERENCES

PIDENTs
TMAD0005
TMAD0006

Input Message
OP:TSGSTAT

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Message
SET:TSGEAC

SEE PROPRIETARY NOTICE ON COVER PAGE

WARNING
INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

ID . . . . . SET:TSIBP
WORK CENTER . . MOC
GENERIC . . . . . 4E24 Rel. 2 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

WARNING
Because this message changes the memory or uses critical resources of the hardware unit, this message should only be used when directed by technical support.

1. PURPOSE

This command sets a breakpoint in the controller(s), a Digital Signal Level 3 Unit (**D3U**), a Signal Processing Unit (**SPU**), or an In-Band Unit **IBU**) client of a Expanded Time Slot Interchange (**XTSI**) frame.

Formats [1], [2], and [3] are used to set a breakpoint in a simplex **XTSI** controller or duplex **XTSI** controllers.

Formats [4] and [5] are used to set a breakpoint in a **D3U**.

Formats [6] and [7] are used to set a breakpoint in a **SPU**.

Formats [8] and [9] are used to set a breakpoint in a **IBU**.

2. FORMAT

[1] **SET:TSIBP;XTSI** a,**MRAM** b,{**FAST**|**NORM**}**!**

[2] **SET:TSIBP;XTSI** a,**MRAM** b,**CUST;**{**GRAM** c|**LRAM** d|**CRAM** e}[**:L** f]**!**

[3] **SET:TSIBP;XTSI** a,**MRAM** b,**CUST;**{**GRAM** c|**LRAM** d|**REG** g}**:INDIR,** {**GRAM**|**LRAM**|**CRAM**}[**,L** f]**!**

[4] **SET:TSIBP;XTSI** a,**D3U** h,**MRAM** i,{**FAST**|**NORM**}**!**

[5] **SET:TSIBP;XTSI** a,**D3U** h,**MRAM** i,**CUST;HADR** j[**:**[**INDIR**][**,L** f]]**!**

[6] **SET:TSIBP;XTSI** a,**SPU** k,**MRAM** i,{**FAST**|**NORM**}**!**

[7] **SET:TSIBP;XTSI** a,**SPU** k,**MRAM** i,**CUST;HADR** j[**:**[**INDIR**][**,L** f]]**!**

[8] **SET:TSIBP;XTSI** a,**IBU 0**,**MRAM** i,{**FAST**|**NORM**}**!**

[9] **SET:TSIBP;XTSI** a,**IBU 0**,**MRAM** i,**CUST;HADR** j[**:**[**INDIR**][**,L** f]]**!**

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3. EXPLANATION OF MESSAGE

a	**XTSI** member number in decimal (0-63). Only even numbered **XTSI** members are allowed.
b	**XTSI** controller micro-store instruction Random Access Memory (RAM) address in hexadecimal where the breakpoint will be placed. (0-FFFF).
FAST	Set a fast breakpoint.
NORM	Set a normal breakpoint.
CUST	Set a custom breakpoint.
c	**XTSI** controller Global RAM (**GRAM**) data address in hexadecimal. The valid range is (0-(3,FFFF)). This address is the starting address of the **GRAM** region to copy to the custom breakpoint user data save area. If **INDIR** is specified, the GRAM address specified contains the starting address of a memory region to copy to the custom breakpoint user data save area.
d	**XTSI** controller Local RAM (**LRAM**) data address in hexadecimal. The valid range is (0-FFFF). This address is the starting address of the LRAM region to copy to the custom breakpoint user data save area. If **INDIR** is specified, the LRAM address specified contains the starting address of a memory region to copy to the custom breakpoint user data save area.
e	**XTSI** controller Control Bus RAM (**CRAM**) data address in hexadecimal. The valid range is (0-(23FF,FFFF)). This address is the starting address of the **CRAM** region to copy to the custom breakpoint user data save area.
f	Number of "words" of data, beginning with the starting address, to copy to the custom breakpoint user data save area. The number is specified in decimal. The valid range is (1-63). The default is 1. For **XTSI** controller, **D3U**, **SPU** and **IBU** a word is 32-bits.
g	**XTSI** controller register number in hexadecimal. The valid range is (1--F) (registers R1 through R15), 11 (stack pointer), 12 (frame pointer), 28 (global address register 0), and 29 (global address register 1). The register specified by the user contains the starting address of a RAM memory region to copy to the custom breakpoint user-data save area. Registers 1 to F, 11 and 12 point to **LRAM** locations; and registers 28 and 29 point to **GRAM** locations. A register requires the **INDIR** option.
INDIR	An indirect address was specified for the starting address of the memory region to copy to the custom breakpoint user-data save area. The default is to treat the address specified as a direct address except for **REG** where indirect addressing is required.
GRAM	Indicates that the address contained in **GRAM**, **LRAM** or in a register points to the starting address of a **GRAM** region to copy.

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LRAM Indicates that the address contained in **GRAM**, **LRAM** or in a register points to the starting address of a **LRAM** region to copy.

CRAM Indicates that the address contained in **GRAM**, **LRAM** or in a register points to the starting address of a **CRAM** region to copy.

h **D3U** number in decimal (0-7).

i **D3U**, **SPU**, or **IBU MRAM** address in hexadecimal where the breakpoint will be placed. The valid range is (10,0000-17,FFFC) for **D3U** and **SPU**. The valid range is (0-0007,FFFC) for **IBU**.

j **D3U**, **SPU**, or **IBU** data address in hexadecimal. The valid range is (10,0000-40,1FFF) for **D3U** and **SPU**. The valid range is (0-0007,FFFC) for **IBU**. This address is the starting address of the RAM memory region save area to copy the custom breakpoint user-data. If **INDIR** is specified, the address specified contains the starting address of the **D3U**, **SPU**, or **IBU RAM** memory region to copy.

k **SPU** number in decimal (0-11).

4. SYSTEM RESPONSE

PF Printout Follows. A breakpoint will be set in the frame controller(s) or a subunit as specified. A SET:TSIBP output message follows, indicating the results of the request.

5. REFERENCES

PIDENT
XTSIBKPT

Input Messages
CLR:TSIBP
OP:TSIBP

Output Messages
CLR:TSIBP
OP:TSIBP
REPT:TSIBP
SET:TSIBP

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . SET:VCNT
WORK CENTER . . MAC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Sets threshold or print threshold, either high or low, to specified value in the vacant code analysis (VCNT) program.

2. FORMAT

SET:VCNT:{**HITHRSH** a|**HIPRINT** a|**LOTHRSH** a|**LOPRINT** a}**!**

3. EXPLANATION OF MESSAGE

a	Specified value of high or low threshold or print threshold (1-999).

4. SYSTEM RESPONSE

?D	Data field contains an error. Threshold is <1 or >999.
?E	Syntax Error exists in the message but cannot be resolved to the proper field.
NG	No Good. High threshold would be lower than low threshold.
OK	Good. Message is correct.
RL	Retry Later. No storage available to process message.

5. REFERENCES

PIDENT
VCNTANAL

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . STOP:ANALY-DIG
WORK CENTER . . MOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Stops a manual or autonomous camp-on in progress on the specified digroup. If a manual camp-on is in progress, then a `ANALY:DIGROUP` message will be sent to the requesting teletypewriter (TTY) channel stating that the camp-on was stopped.

2. FORMAT

`STOP:ANALY;DIGROUP,{OTAN a|TAN b|CIN c|TSN d|DT e,DTU f,DG g}!`

3. EXPLANATION OF MESSAGE

`a` Octal trunk appearance number (**`OTAN`**) of any trunk in the digroup.

`b` TSI-SP-PORT-CHANNEL Trunk appearance number (**`TAN`**) of trunk.

- `TSI` — A 2-digit decimal number indicating the time slot interchange (TSI) member number, range 00-63.
- `CHANNEL` — A 3-digit decimal number indicating channel, range 0-127.
- `PORT` — A 1-digit decimal number indicating port of TSI, range 0-6.
- `SP` — A 1-digit decimal number indicating signaling processor (SP) of TSI, range 0-1.

`c` Circuit identification number (**`CIN`**) of any trunk in the digroup.

`d` SP-ROW-POINT trunk scanner number (**`TSN`**) of trunk.

- `POINT` — A 2-digit decimal number indicating the point in the row, range 00-15.
- `ROW` — A 3-digit decimal number indicating the row in the SP, range 000-255.
- `SP` — A 2-digit decimal number indicating the SP member number, range 00-31.

`e` Digroup terminal (**`DT`**) number of digroup.

`f` Digroup terminal unit (**`DTU`**) number of digroup.

`g` Digroup number.

4. SYSTEM RESPONSE

`?D` Data field contains an error. Trunk or digroup data is invalid, e.g., out of range, or **`DT`** identified is nonoperational.

SEE PROPRIETARY NOTICE ON COVER PAGE

?E	Syntax Error exists in the message but cannot be resolved to the proper field.
PF	Printout Follows. ANALY:DIGROUP output message will follow.
RL	Retry Later.

5. REFERENCES

PIDENTs
TMAD0005
TMAD0061

Practice 234-100-052, *Digital Facility Trunk Trouble Reporting*

Input Messages
ANALY:DIGROUP
OP:DGSTAT

NOTE: Use the OP:DGSTAT input message to determine the present state of digroup.

Output Message
ANALY:DIGROUP

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . STOP:AUD
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Stops a tape audit at any time after the initial request has been made. It is used when the tape audit finds zero errors and enters a loop awaiting instructions, or when errors are found and the user does not desire to continue the audit by entering the correcting mode.

2. FORMAT

STOP:AUD;{GEN|NWM|ODA|TPM}!

3. EXPLANATION OF MESSAGE

GEN	Generic data.
NWM	Network management data.
ODA	Office data.
TPM	Traffic plant measurement data.

4. SYSTEM RESPONSE

PF	Printout Follows. Followed by an AUD:0 output message.

5. REFERENCES

PIDENTs
SASR
SAST

Practice 254-280-260, *Audit Programs Description*

Input Messages
AUD:GEN
AUD:NWM
AUD:ODA
AUD:TPM

Output Message
AUD:0

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . STOP:CFR-ALMGR
WORK CENTER . . MOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Terminates any alarm grouping between the maintenance centers specified. This message will terminate the grouping requested with input message `CFR:ALMGRP`. Alarms and output messages will no longer be sent between the specified maintenance centers.

2. FORMAT

`STOP:CFR;ALMGRP``[,MC a]!`

3. EXPLANATION OF MESSAGE

`a` The maintenance center(s) (**`MC`**s) whose grouping is to be terminated.

`ALL` — All maintenance centers or, two or more of the following:
`MOC` — Master operations center.
`TEC1` — Terminal equipment center 1.
`TEC2` — Terminal equipment center 2.
`TEC3` — Terminal equipment center 3.
`TEC4` — Terminal equipment center 4.
`TEC5` — Terminal equipment center 5.
`TOC` — Trunk operations center

NOTE: Default is `ALL`.

4. SYSTEM RESPONSE

`(AT-AG LAMP)` Observe the "AT-AG" lamps extinguished on the Alarm Grid Display Panels for all the alarm grids associated with the ungrouped MCs.

`(PROGRAM CONTROL OFFNORM-LAMP)` Extinguishes on the master control complex (MCC) if there is no other off-normal condition present in the office.

`INC DATA` The group to be terminated may not be a valid grouping. Use `OP:ALMSTAT` to determine the present group status. Termination is only allowed between members of a grouping presently in effect. Also the same maintenance center may be specified more than once.

`PF` Printout Follows. Followed by a `STOP:CFR-ALMGRP` output message.

`RANGE ERROR` Maintenance center specified is not assigned in this office. Consult office translations (ODA-table OD4MCTABL).

SEE PROPRIETARY NOTICE ON COVER PAGE

RL	Retry Later. A hardware or software alarm is presently active in the maintenance centers specified. Retire all alarms before repeating the request.

5. REFERENCES

PIDENT
ALRM01

Practice 234-100-040, *Office Alarm System Description and Theory*

Input Messages
CFR:ALMGRP
OP:ALMSTAT

Output Message
STOP:CFR-ALMGR

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . STOP:CLR-TRKSTAT
WORK CENTER . . MOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

To stop the processing of the `CLR:TRKSTAT` input message.

2. FORMAT

`STOP:CLR;TRKSTAT!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`NG`	No Good. `CLR:TRKSTAT` message not in effect.
`PF`	Printout Follows. Processing has begun to stop the `CLR:TRKSTAT` message.

5. REFERENCES

PIDENTs
TMAD0005
TMAD0006

Input Message
`CLR:TRKSTAT`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . STOP:COPY
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

To stop an intra Service Circuit Unit (SCU) disk copy, or an Attached Processor System (APS) to SCU file copy.

2. FORMAT

STOP:COPY;SCS a!

3. EXPLANATION OF MESSAGE

a	Service Circuit System (**SCS**) member number (0-7).

4. SYSTEM RESPONSE

?D	Data field contains an error. Request denied. An expected keyword argument is missing.
?I	Identification field contains an error. Request denied. An expected keyword is missing, a keyword argument is out-of-range, too many keywords or too many keyword arguments.
?I,INV DATA	Identification field contains an error. Request denied. SCS member specified is unequipped.
OK	Good. The APS to SCU file copy is stopped.
PF	Printout Follows. Stop intra SCU disk copy request accepted. An output message will follow to indicate the status of the stop copy request.
RL	Retry Later. Stop intra SCU disk copy request denied. Too many tasks in-progress.

5. REFERENCES

PIDENTs
SCSCFSCU
SCSFPUMP

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . STOP:EX
WORK CENTER . . MOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Breaks the interactive diagnostic mode for the unit specified.

2. FORMAT

STOP:EX;a**!**

3. EXPLANATION OF MESSAGE

a The name and number of the unit being diagnosed. In the following list, if there is more than one possible unit number per unit, the range is specified in parentheses.

AUB	— Auxiliary unit bus (0 or 1).
CC	— Central controller (0 or 1).
CMSLINK	— Change management system link (no unit number required).
CS	— Call store (0 - 63).
CSB	— Call store bus (0 or 1).
DIF	— Digital interface frame (0 - 31).
DT	— Digroup terminal (0 - 127).
DUS	— Data unit selector (0 - 3).
EST	— (0-31).
FS	— File store (0 - 3).
IOUS	— Input/output unit selector (0 - 15).
LIBSYS	— (no unit number required)
MCC 0	— Master control complex.
NCLK 0	— Network clock.
PCD	— Peripheral control data (0 or 1).
PS	— Program store (0 - 31).
PSB	— Program store bus (0 or 1).
PUB	— Peripheral unit bus (0 or 1).
SCLK 0	— System clock.
SP	— Signaling processor (0 - 31).
TGR	— Terminal group frame (0 - 15).
TMSP	— Time multiplexed switch processor (0 - 3).
TSI	— Time slot interchange (0 - 63).
TUC	— Tape unit controller (0 - 31).
VIF	— Voiceband interface frame (0 - 127).

SEE PROPRIETARY NOTICE ON COVER PAGE

4. SYSTEM RESPONSE

`?I`	Identification field contains an error. Invalid combination of keywords.
`PF`	Printout Follows. Input request accepted. Followed by an `EX:` output message associated with the given unit being diagnosed.

5. REFERENCES

PIDENT
DCONTABL

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . STOP:IN-UTILDS
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Terminates the utility data set input mode. See the `IN:UTILDS` input message.

2. FORMAT

`STOP:IN;UTILDS!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`?R,DPLX FAIL`	Insufficient system Resources are available to determine the validity of the message. Generic utility program (GULP) cannot be paged to parse the message because the file system is duplex failed.
`NG,CODE 010`	No Good. System is not in a data set input mode.
`OK,CODE 093`	Good. Input mode is terminated. Data set is stored.
`PF,CODE 050`	Printout will conditionally follow. This acknowledgement is used if file system is duplex failed and GULP is being paged from tape.
`RL,CODE 180`	Retry Later. Execution of GULP function is in progress.
`RL,CODE 181`	Retry Later. Message processing is in progress.
`RL,CODE 182`	Retry Later. Data set input mode in progress on another channel.
`RL,CODE 183`	Retry Later. Data set execution is in progress.
`RL,CODE 185`	Retry Later. No general buffer table (GBT) available or failure to page in GULP.

5. REFERENCES

PIDENTs
GULPDSET
GULRUTCR

Practice 234-301-003, *1B Processor Generic Utility Program (GULP) Application - Description*

PA-4A002-01, *4ESS™ User's Manual*

SEE PROPRIETARY NOTICE ON COVER PAGE

Input Message
IN:UTILDS

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . STOP:INIT
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

To stop the format (Init) of a Service Circuit Unit (SCU) disk.

2. FORMAT

STOP:INIT;SCS a!

3. EXPLANATION OF MESSAGE

a	Service Circuit System (**SCS**) member number (0-7).

4. SYSTEM RESPONSE

?D	Data field contains an error. Request denied. An expected keyword argument is missing.
?I	Identification field contains an error. Request denied. An expected keyword is missing, a keyword argument is out-of-range, too many keywords or too many keyword arguments.
?I,INV DATA	Identification field contains an error. Request denied. SCS member specified is unequipped.
NA	Not Accepted. A disk format task is not currently in-progress.
PF	Printout Follows. An output message will follow to indicate the status of the stop disk format request.
RL	Retry Later. Request denied. Too many tasks in-progress.

5. REFERENCES

PIDENT
SCSFPUMP

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . STOP:LIBSYS
WORK CENTER . . MAC, MOC, NMOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Stops the execution of a presently active library program.

Format [1] is used to stop execution of a presently active library program.
Format [2] is used to pass data to an executing library client.

2. FORMAT

[1] **STOP:LIBSYS:CLIENT** a[,**PKG** b],**PGM** c,**TASK** d!

[2] **STOP:LIBSYS:CLIENT** 0[,**UNITNO** e][,**TESTNO** f]!

3. EXPLANATION OF MESSAGE

a	Client number of the program to be stopped (0-7).
b	Package name containing the program to be stopped. A default can be set up using the SET:LIBSYS input message.
c	Program name of the program within **PKG** b to be stopped.
d	Task number within **PGM** c to be stopped.
e	Unit number to be passed to the program through the input control block for client a.
f	Test number to be passed to the program through the input control block for client a.

4. SYSTEM RESPONSE

NG,CODE 080	No Good. Client number out of range.
NG,CODE 081	No Good. Invalid combination of keywords specified.
NG,CODE 082	No Good. Invalid attempt to access the input control block while the lock is set.
NG,CODE 084	No Good. A package name was not specified and no default has been set up with a SET:LIBSYS input message.
NG,CODE 085	No Good. Program name not specified.
NG,CODE 086	No Good. Task number not specified.
NG,CODE 087	No Good. Internal error detected.

SEE PROPRIETARY NOTICE ON COVER PAGE

OK	Good. **PKG**, **PGM**, and **TASK** not specified and the request was accepted.
PF	Printout Follows. Request accepted. Followed by a STOP:LIBSYS output message.

5. REFERENCES

PIDENT
LIBRSTOP

Input Message
SET:LIBSYS

Output Message
STOP:LIBSYS

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . STOP:MACLI
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Stops the currently active maintenance control program (MACP) client in the specified class and subclass. Subclass need not be specified for a class having only one subclass. Before using this message, the `OP:MACLI` input message should be used to identify the active MACP client.

NOTE: If the MACP client is awaiting the occurrence of some event (e.g., delay timing), the **`STOP`** will not be done until this event has occurred.

2. FORMAT

`STOP:MACLI,CLASS` `a[`**`,SUBCLASS`** `b]`**`!`**

3. EXPLANATION OF MESSAGE

`a`	MACP class name (ADMN, GUTL, LIBU, or MTCE).
`b`	MACP subclass number (0-7).

4. SYSTEM RESPONSE

`?I,INV DATA`	Identification field contains an error. Invalid **`CLASS`** or **`SUBCLASS`** parameter.
`?I,MISS KW`	Identification field contains an error. **`CLASS`** or **`SUBCLASS`** keyword omitted.
`OK`	Good. Request completed.

5. REFERENCES

PIDENT
MACPROUT

Practice 254-280-210, *Maintenance Control Program*

Input Message
`OP:MACLI`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . STOP:MON-CCIST
WORK CENTER . . MOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Stops the trap of misrouted direct signaling started by the `MON:CCISTRAP` input message.

2. FORMAT

`STOP:MON;CCISTRAP:DS,MISRTE!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`OK` Good. Trapping stopped.

5. REFERENCES

PIDENTs
CCIS10PR
TMAD0005

Input Message
`MON:CCISTRAP`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . STOP:MON-CHAN
WORK CENTER . . MAC, MOC, NMOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Stops monitoring output messages on a specified channel.

2. FORMAT

STOP:MON;CHAN a[**;CHAN** b]**!**

3. EXPLANATION OF MESSAGE

a — The source input/output (I/O) channel presently being monitored. The variable is the channel name. See the User Guidelines of the *Input Message Document* for a list of channel names.

b — If specified, the present destination channel for the monitor. The variable is the channel name. See the User Guidelines of the *Input Message Document* for a list of channel names. This must be specified if the variable is an switching control center (SCC) channel. If defaulted, the monitor will be stopped regardless of the destination channel.

4. SYSTEM RESPONSE

NG — No Good. The specified destination channel is different than the actual destination channel.

OK — Good. The monitor has been stopped.

5. REFERENCES

PIDENT
IOCPREA1

Input Message
MON:CHAN

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . STOP:MON-DGSTT
WORK CENTER . . MOC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Removes a digroup from the slip monitor list. If the second **ALL** option is used instead of a digroup identifier, the entire slip monitor list is cleared.

2. FORMAT

```
STOP:MON;DGSTAT;{SLIP|ALL}:{TSN a|TAN b|OTAN c|CIN d|
      DIF e,DIU f,DG g|DT h,DTU i,DG j|ALL}!
```

3. EXPLANATION OF MESSAGE

SLIP Slip monitor list.

ALL Same as slip option. (First **ALL** option.)

a SP-ROW-POINT trunk scanner number (**TSN**) of any trunk in the digroup:

- POINT — A 2-digit decimal number indicating the point in the row, range 00-15.
- ROW — A 3-digit decimal number indicating the row in the signaling processor (SP), range 000-255.
- SP — A 2-digit decimal number indicating the SP member number, range 00-31.

b TSI-SP-PORT-CHANNEL trunk appearance number (**TAN**) of any trunk in the digroup:

- CHANNEL — A 3-digit decimal number indicating channel, range 0-127.
- PORT — A 1-digit decimal number indicating port of time slot interchange (TSI), range 0-6.
- SP — A 1-digit decimal number indicating SP of TSI, range 0-1.
- TSI — A 2-digit decimal number indicating the time slot interchange (TSI) member number, range 00-63.

c Octal trunk appearance number (**OTAN**) of any trunk in the digroup.

d Circuit identification name (**CIN**) of any trunk in the digroup.

e Digital interface frame (**DIF**) number of digroup.

f Digital interface unit (**DIU**) number of digroup.

g Digroup number.

SEE PROPRIETARY NOTICE ON COVER PAGE

h	Digroup terminal (**DT**) number of digroup.
i	Digroup terminal unit (**DTU**) number of digroup.
j	Digroup number.
ALL	Entire slip monitor list. (Second **ALL** option.)

4. SYSTEM RESPONSE

?D	Data field contains an error.
?E	Syntax Error exists in the message but cannot be resolved to the proper field.
NG	No Good. Digroup not currently being monitored.
OK	Good. Digroup has been removed from slip monitor list.
PF	Printout Follows. An output message is printed for clearing the entire slip monitor list.
RL	Retry Later.

5. REFERENCES

PIDENTs
TMAD0005
TMAD0061

Input Message
MON:DGSTAT

Output Message
STOP:MON-DGSTT

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . STOP:MON-IAOFC
WORK CENTER . . MOC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Stops the specified IAOFC trap from collecting more data, and releases the trap block for future use.

NOTE: Any data which is already queued for output when the **STOP** message is received will be output even though the trap has been stopped.

2. FORMAT

STOP:MON;IAOFC,TRAPN a!

3. EXPLANATION OF MESSAGE

a	**IAOFC** trap number to be stopped (32-35).

4. SYSTEM RESPONSE

?D	Data field contains an error. **TRAPN** is not valid for a IAOFC trap. Must be 32 to 35.
?E	Syntax Error exists in the message but cannot be resolved to the proper field.
NG	No Good. IATSG trap is not active.
OK	Good. IATSG trap function has been stopped.
RL	Retry Later.

5. REFERENCES

PIDENTs
TMAD0002
TMAD0005
TMADTRAP

Practice 234-100-051, *Call Irregularities Facility For Data Output On Request*

Input Messages
ALW:IAOFC
INH:IAOFC
MON:IAOFC

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . STOP:MON-IAOFCNT
WORK CENTER . . MOC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Stops the specified ineffective attempt office counting (IAOFCNT) trap from collecting more final handling code (FHC) counts.

2. FORMAT

STOP:MON;IAOFCNT,TRAPN a**!**

3. EXPLANATION OF MESSAGE

a	**IAOFCNT** trap number to be stopped (32-35).

4. SYSTEM RESPONSE

?D	Data field contains an error. **TRAPN** is not valid for a IAOFC trap. Must be 32 to 35.
?E	Syntax Error exists in the message but cannot be resolved to the proper field.
NG	No Good. **IAOFCNT** trap is not active.
OK	Good. **IAOFCNT** trap function has been stopped.
RL	Retry Later.

5. REFERENCES

PIDENTs
TMAD0002
TMAD0005
TMADTRAP

Practice 234-100-051, *Call Irregularities Facility For Data Output On Request*

Input Messages
ALW:IAOFC
INH:IAOFC
MON:IAOFCNT

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . STOP:MON-IATS
WORK CENTER . . MOC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Stops specified trunk subgroup counting trap from collecting more data.

If an IATSG function does not exist for the trap block, then the trap block is completely idled, i.e., all information in the trap block is cleared. The trap block will remain idle until it is required for a new `MON:IATSGCNT` input message.

NOTE 1: When the IATSGCNT trap is stopped, the count data which has been collected will be output.

NOTE 2: If an IATSG function is currently active for this trap block, the IATSG function will be unaffected, and the trap block will remain active for IATSG purposes.

2. FORMAT

`STOP:MON;IATSGCNT,TRAPN` `a!`

3. EXPLANATION OF MESSAGE

`a`	Number of **`IATSGCNT`** trap to be stopped (1-15).

4. SYSTEM RESPONSE

`?D`	Data field contains an error. **`TRAPN`** is not valid for a IATSGCNT trap. Must be 1 to 15.
`?E`	Syntax Error exists in the message but cannot be resolved to the proper field.
`NG`	No Good. **`IATSGCNT`** trap is not active.
`OK`	Good. **`IATSGCNT`** trap function has been stopped.
`RL`	Retry Later.

5. REFERENCES

PIDENTs
TMAD0002
TMAD0005
TMADTRAP

Practice 234-100-051, *Call Irregularities Facility For Data Output On Request*

SEE PROPRIETARY NOTICE ON COVER PAGE

Input Messages

```
ALW:IATSGCNT
INH:IATSGCNT
MON:IATSGCNT
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . STOP:MON-IATSG
WORK CENTER . . MOC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Stops the specified trunk subgroup trap from collecting any more data.

If an IATSGCNT function does not exist for the trap block, then the trap block is completely idled, i.e., all information in the trap block is cleared. The trap block will remain idle until it is required for a new `MON:IATSG` input message.

NOTE 1: Any data which is already queued for output when the **`STOP`** message is received will be output even though the trap has been stopped.

NOTE 2: If an IATSGCNT function is currently active for this trap block, the IATSGCNT function will be unaffected, and the trap block will remain active for IATSGCNT purposes.

2. FORMAT

`STOP:MON;IATSG,TRAPN` `a!`

3. EXPLANATION OF MESSAGE

`a`	**`IATSG`** trap number to be stopped (1-31).

4. SYSTEM RESPONSE

`?D`	Data field contains an error. **`TRAPN`** is not valid for a IATSG trap. Must be 1 to 31.
`?E`	Syntax Error exists in the message but cannot be resolved to the proper field.
`NG`	No Good. **`IATSG`** trap is not active.
`OK`	Good. **`IATSG`** trap function has been stopped.
`RL`	Retry Later.

5. REFERENCES

PIDENTs
TMAD0002
TMAD0005
TMADTRAP

Practice 234-100-051, *Call Irregularities Facility For Data Output On Request*

SEE PROPRIETARY NOTICE ON COVER PAGE

Input Messages

```
ALW:IATSG
INH:IATSG
MON:IATSG
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . STOP:MON-MCCRE
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Stops reporting the master control complex (MCC) application panel data to the switching control center (SCC) via the SCC input/output (I/O) channel.

2. FORMAT

`STOP:MON;MCCREPT!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`OK` Good. Request accepted.

5. REFERENCES

PIDENT
MCCMSCCR

Practice 254-280-212, *Master Control Complex Common Control And Monitor Program*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . STOP:MON-NCATANOM
WORK CENTER . . MOC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . IATRAP
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Stops the specified non-call associated temporary signal connection anomaly (NCATANOM) trap from collecting more data, and releases the trap block for future use.

2. FORMAT

STOP:MON;NCATANOM,TRAPN a**!**

3. EXPLANATION OF MESSAGE

a	**NCATANOM** trap number to be stopped (0-1).

4. SYSTEM RESPONSE

?D	Data field contains an error. **TRAPN** is not valid for NCATANOM trap. Must be 0 or 1.
?E	Syntax Error exists in the message but cannot be resolved to the proper field.
NG	No Good. **NCATANOM** trap is not active or stop is not valid from this input channel.
OK	Good. **NCATANOM** trap function has been stopped.
RL	Retry Later.

5. REFERENCES

PIDENTs
NCATFH
TMAD0005

Input Messages
ALW:NCATANOM
INH:NCATANOM
MON:NCATANOM
OP:NCATANOM

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . STOP:MON-SUTRA
WORK CENTER . . MOC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Turns the common channel signaling system number 6 (CCITT6) utility trap off (international only).

2. FORMAT

STOP:MON;SUTRAP;{SEND|RECEIVE|SEND,RECEIVE}:{CIN a**|SIGLK** b**[,ILLEGAL]|**
SLC c**,BAND** d**,MEMN** e**}!**

3. EXPLANATION OF MESSAGE

SEND	Send signals are being trapped.
RECEIVE	Receive signals are being trapped.
SEND,RECEIVE	Send and receive signals are being trapped.
a	Circuit identification number (CIN) of CCITT6 signaling link being trapped.
b	Number of CCITT6 signaling link being trapped.
c	Signaling link complement index of signaling transfer point (STP) messages being trapped (0-127).
d	Band number of STP messages being trapped.
e	Member number of STP messages being trapped.

4. SYSTEM RESPONSE

NG	No Good. Illegal data specified.
OK	Good. Trap turned off.
PF	Printout Follows.

5. REFERENCES

PIDENTs
ISCLUTIL
TMAD0005

Input Message
MON:SUTRAP

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . STOP:MSG
WORK CENTER . . MAC, MOC, NMOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Stops an output message, interrupted while printing by a break, from restarting and printing. If the message is a partition of a list of partitioned messages, only the interrupted portion will not be printed.

2. FORMAT

STOP:MSG!

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

OK	Good. The interrupted output message will not be restarted.
NG	No Good. There is no interrupted output to be restarted.

5. REFERENCES

PIDENT
IOCPOMS1

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . STOP:MUPAUD
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Cancel the `TEST:MUPAUD` input request.

This input message will cancel the `TEST:MUPAUD` job if it is not too late to cancel.

2. FORMAT

`STOP:MUPAUD!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`NG, CODE 006`	No Good. Too late to cancel the `TEST:MUPAUD` job because the master control complex (MCC) and utility processor (MUP) audit process finished the audit job.
`NG, CODE 007`	No Good. No `TEST:MUPAUD` job to cancel.
`OK`	Good. `TEST:MUPAUD` job canceled.

5. REFERENCES

PIDENT
MCFRMAUD

Input Messages
`ALW:MUPAUD`
`INH:MUPAUD`
`TEST:MUPAUD`

Output Messages
`ALW:MUPAUD`
`INH:MUPAUD`
`OP:MUPAUD`
`TEST:MUPAUD`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . STOP:OP-DGSTA
WORK CENTER . . MOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Stops all group-type `OP:DGSTAT` output which was requested from the same teletypewriter (TTY) channel as the **`STOP:OP;DGSTAT`** input message was entered.

2. FORMAT

`STOP:OP;DGSTAT!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`NG`	No Good. No group `OP:DGSTAT` function could be found which was requested from this TTY channel.
`PF`	Printout Follows. One or more `OP:DGSTAT` functions were stopped. An `OP:DGSTAT` message will follow for each function stopped.

5. REFERENCES

PIDENTs
TMAD0005
TMAD0006
TMAD0061

Practice 234-100-052, *Digital Facility Trunk Trouble Reporting*

Input Message
`OP:DGSTAT`

Output Message
`OP:DGSTAT`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . STOP:OP-ERAP
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Stops the error analysis partitioned output messages currently in progress and goes on to the next error analysis input message previously entered, if any.

2. FORMAT

STOP:OP;ERAP!

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

OK Good. Request completed.

5. REFERENCES

PIDENTs
ERAP
ERIF

Practice 254-200-215, *Error Analysis Program Application*
Practice 254-280-320, *Error Analysis Program*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . STOP:OP-MSGRCD
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Stops outputting the messages in the output message save area or disk. If all of the output messages saved were not printed, then the save area will not be unlocked.

2. FORMAT

`STOP:OP;MSGRCD,FS!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`NG`	No Good. An output request is not active.
`OK`	Good. The second **`STOP:`** input has been received and the output function is stopped.
`PF`	Printout Follows. Followed by a `STOP:OP` output message. If the output message is not printed, then reenter the **`STOP:`** input.

5. REFERENCES

PIDENT
IOCPMSR1

Input Messages
`CLR:MSGRCD`
`OP:MSGRCD`

Output Message
`STOP:OP`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . STOP:OP-PMSTAT
WORK CENTER . . MOC, TEC, TOC
GENERIC . . . . . 4E22 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Stops all `OP:PMSTAT` output which was requested from the same Teletypewriter (TTY) channel as the **`STOP:OP;PMSTAT`** input message was entered. If this message is inputted via the Maintenance Channel (MTC), any `OP:PMSTAT` output message processing will be terminated, regardless of the channel the `OP:PMSTAT` was requested from.

Note that maintenance channel must be able to unconditionally shut off the `OP:PMSTAT` output message should the output from another channel be redirected to the MTC channel in case of channel failure.

2. FORMAT

`STOP:OP;PMSTAT!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`NG`	No Good. No `OP:PMSTAT` function could be found which was requested from this TTY channel. In the case of a MTC channel request, no `OP:PMSTAT` function was found outputting to any channel.
`PF`	Printout Follows. `OP:PMSTAT` functions were stopped. An `OP:PMSTAT` output message will follow.

5. REFERENCES

PIDENTs
TMTCXTSI

Input Message
`OP:PMSTAT`

Output Message
`OP:PMSTAT`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . STOP:OP-SCRN
WORK CENTER . . MOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Stops the outputting and/or auditing of the contents of the HICAP/SAFER/ADCR data tables.

2. FORMAT

STOP:OP;SCRN!

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

PF Printout Follows.

5. REFERENCES

PIDENTs
RCMPFHTV
TRANISCO

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . STOP:OP-TRKSTA
WORK CENTER . . MAC, MOC, NMOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Stops all group-type `OP:TRKSTAT` functions which are outputting to the same teletypewriter (TTY) channel as the **`STOP:OP;TRKSTAT`** message on input.

2. FORMAT

`STOP:OP;TRKSTAT!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`?E`	Syntax Error exists in the message but cannot be resolved to the proper field.
`NG`	No Good. No group `OP:TRKSTAT` functions requested by this input channel are in progress.
`PF`	Printout Follows. All group `OP:TRKSTAT` functions requested by this input channel have been marked to be stopped before the next trunk to be output has been selected. An `OP:TRKSTAT` output message will follow.
`RL`	Retry Later.

5. REFERENCES

PIDENTs
TMAD0005
TMAD0006

Input Message
`OP:TRKSTAT`

Output Message
`OP:TRKSTAT`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . STOP:OP-TSGSTA
WORK CENTER . . MAC, MOC, NMOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Stops output of `OP:TSGSTAT` to this output channel. **`STOP:OP;TSGSTAT`** stops detailed format output for trunk control area (TCA) or ALL type output messages since several output message partitions may be required to complete a detailed report.

2. FORMAT

`STOP:OP;TSGSTAT!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`?E`	Syntax Error exists in the message but cannot be resolved to the proper field.
`NG`	No Good. No `OP:TSGSTAT` messages are outputting to this channel.
`PF`	Printout Follows. The `OP:TSGSTAT` function has been marked to be stopped after the current segment is output. An output message will follow.
`RL`	Retry Later.

5. REFERENCES

PIDENTs
TMAD0005
TMAD0006

Input Message
`OP:TSGSTAT`

Output Messages
`OP:TSGSTAT-DTL`
`OP:TSGSTAT-SUM`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . STOP:OVRWRT
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Causes all overwrites in the test mode, see `COPY:OWBUF`, to be replaced with the original data. The overwrite procedure is terminated. The "UPDATE IN PROG" lamp on the master control complex (MCC) extinguishes.

2. FORMAT

`STOP:OVRWRT!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`?R,DPLX FAIL`	Insufficient system Resources are available to determine the validity of the message. Generic utility program (GULP) cannot be paged to parse the message because the file system is duplex failed.
`NG,CODE 135`	No Good. No overwrite procedure is in progress.
`PF`	Printout Follows.
`PF,CODE 050`	Printout will conditionally follow. This acknowledgement is used if file system is duplex failed and GULP is being paged from tape.
`RL,CODE 180`	Retry Later. Execution of GULP function is in progress.
`RL,CODE 181`	Retry Later. Message processing is in progress.
`RL,CODE 182`	Retry Later. Data set input mode in progress on another channel.
`RL,CODE 183`	Retry Later. Data set execution is in progress.
`RL,CODE 185`	Retry Later. No general buffer table (GBT) available or failure to page in GULP.

5. REFERENCES

PIDENTs
GULPOWRT
GULRUTCR

Practice 234-301-003, *1B Processor Generic Utility Program (GULP) Application - Description*

PA-4A002-01, *4ESS™ User's Manual*

SEE PROPRIETARY NOTICE ON COVER PAGE

Input Messages
COPY:OWBUF
IN:OWBUF

Output Message
STOP:OVRWRT

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . STOP:RCACT
WORK CENTER . . MOC, MAC
GENERIC . . . . . 4E19 and later
CLASS . . . . . RC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

To request an interrupt of a recent change form that is in the process of being activated. The correct order number of the recent change form to be interrupted must be specified in this message. A recent change form can only be interrupted if that particular form supports the interrupt capability.

2. FORMAT

STOP:RCACT;ORNU aaaaaa!

3. EXPLANATION OF MESSAGE

a	The order number (**ORNU**) of the recent change form to be interrupted (1 - 999999).

4. SYSTEM RESPONSE

?C	Channel is not valid for this message. This message can only be input on the maintenance channel or on the channel that entered the recent change.
NG	No Good. The order number specified does not match the order number of the current recent change or the recent change system is idle.
OK	Good. The request has been accepted.
RL	Retry Later. The order number of the recent change form is not yet available.

5. REFERENCES

PIDENT
RCMAMAIN

Translation Guide, 4ESS™, TG-4, Division 7, Section 10a

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . STOP:REPT-XALM
WORK CENTER . . MOC
GENERIC . . . . . 4E21 Rel. 4 and later
CLASS . . . . . TOC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

To terminate the printing of the current `REPT:XALM` segmented message at the maintenance channel.

2. FORMAT

`STOP:REPT;XALM!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`OK`	Good. Processing in progress.

5. REFERENCES

PIDENT
TMTCXTMM
TMTCXTSI

Output Message
`REPT:XALM`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . STOP:RTE-ALM
WORK CENTER . . MOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Terminates any alarm routing from maintenance center a. This message will terminate the routing requested with the input message RTE:ALM. Alarms and output messages will no longer be routed out of the maintenance center. If necessary, use input message OP:ALMSTAT to determine the present alarm routing status for all maintenance centers.

2. FORMAT

STOP:RTE;ALM[,**MC** a]**!**

3. EXPLANATION OF MESSAGE

a — The maintenance center(s) (**MC**s) for which alarm routing is to be terminated.

ALL — All maintenance centers.
MOC — Master operations center.
TEC1 — Terminal equipment center 1.
TEC2 — Terminal equipment center 2.
TEC3 — Terminal equipment center 3.
TEC4 — Terminal equipment center 4.
TEC5 — Terminal equipment center 5.
TOC — Trunk operations center.

NOTE: Default is ALL.

4. SYSTEM RESPONSE

(AT-AG LAMP) — Observe the "AT-AG" lamps extinguished on the Alarm Grid Display Panels for all the alarm grids associated with the unrouted MCs.

(PROGRAM CONTROL OFFNORM-LAMP) — Extinguishes on the master control complex (MCC) if there is no other off-normal condition present in the office.

PF — Printout Follows. Followed by a STOP:RTE-ALM output message.

RANGE ERR — Maintenance center specified is not assigned in this office. Consult office translations (ODA-table OD4MCTABL).

RL — Retry Later. A hardware or software alarm is presently active in the maintenance centers specified. Retire all alarms before repeating the request.

SEE PROPRIETARY NOTICE ON COVER PAGE

5. REFERENCES

PIDENT
ALRM01

Practice 234-100-040, *Office Alarm System Description and Theory*

Input Messages
`OP:ALMSTAT`
`RTE:ALM`

Output Message
`STOP:RTE-ALM`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . STOP:RTE-CHAN
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Stops the routing of output messages from one channel to another.

2. FORMAT

STOP:RTE;CHAN a[**;CHAN** b]**!**

3. EXPLANATION OF MESSAGE

a — The source channel from which output messages are presently routed. The variable is the channel name. See the User Guidelines of the *Input Message Document* for a list of channel names.

b — If specified, the present destination channel for the route. The variable is the channel name. See the User Guidelines of the *Input Message Document* for a list of channel names. If defaulted, the route will be stopped regardless of the destination channel.

4. SYSTEM RESPONSE

NG — No Good. The specified destination channel is other than the actual destination channel.

OK — Good. The routing has been stopped.

5. REFERENCES

PIDENT
IOCPREA1

Input Message
RTE:CHAN

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . STOP:SET-TRKST
WORK CENTER . . MOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Stops all group-type SET:TRKSTAT functions that were requested by this channel.

2. FORMAT

STOP:SET;TRKSTAT!

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

?E	Syntax Error exists in the message but cannot be resolved to the proper field.
NG	No Good. No SET:TRKSTAT functions requested by this channel are in progress.
PF	Printout Follows. All SET:TRKSTAT functions requested by this channel have been marked to be stopped before the next trunk has been selected. An SET:TRKSTAT output message will follow.
RL	Retry Later.

5. REFERENCES

PIDENTs
TMAD0005
TMAD0006

Input Message
SET:TRKSTAT

Output Message
SET:TRKSTAT

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . STOP:TEST-CORE
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Forces termination of the test merge feature of the partial system update procedure.

2. FORMAT

`STOP:TEST;COREUPD!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`NG`	No Good. No system update procedure is in progress.
`OK`	Good. Request completed.

5. REFERENCES

PIDENTs
SYUP
SYUR

Practice 234-160-001, *Generic Retrofit and Update*
Practice 254-280-270, *System Update Program Description*

Output Message
`TEST:COREUPD`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . STOP:TEST-PUSY
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Terminates scheduling of routine maintenance tests for peripheral system.

2. FORMAT

STOP:TEST;PUSYS!

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

PF — Printout Follows. Followed by a TEST:PUSYS output message. The TEST:PUSYS output message will be printed only if routine maintenance tests are in progress.

5. REFERENCES

PIDENT
PUEX

Practice 234-180-251, *Automatic Routine Maintenance Exercise Program - Description*

Output Message
TEST:PUSYS

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . STOP:TEST-TRK
WORK CENTER . . MOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Stops all group trunk tests that are in progress which were requested from the same input channel as the **STOP:TEST;TRK** message on input.

2. FORMAT

STOP:TEST;TRK!

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

?E	Syntax Error exists in the message but cannot be resolved to the proper field.
NG	No Good. No group tests are in progress which were requested from this channel.
PF	Printout Follows. All group trunk tests requested from this channel have been marked to be stopped before the next trunk to be tested is selected. Output message TEST:TRK will follow.
RL	Retry Later.

NOTE: PF means that several seconds or even minutes can go by before the current trunk test finishes and the TEST:TRK output message indicating that the group test has been stopped will be output.

5. REFERENCES

PIDENTs
TMAD0005
TMAD0006
TOPT0000

Input Message
TEST:TRK

Output Message
TEST:TRK

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . STOP:UPD
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Stops a tape load at any time after the initial request has been made. It is used to stop the update procedure and partial update procedure.

Do not confuse this message with the `STOP:UPD-FS` message.

2. FORMAT

`STOP:UPD;{GEN|ODA}!`

3. EXPLANATION OF MESSAGE

`GEN`	Generic data.
`ODA`	Office data.

4. SYSTEM RESPONSE

`PF`	Printout Follows. Followed by an output message.

5. REFERENCES

PIDENTs
SASR
SAST

Input Messages
`STOP:UPD-FS`
`UPD:GEN`
`UPD:ODA`

Output Message
`UPD:0`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . STOP:UPD-CORE
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Forces termination of the partial system update procedure.

2. FORMAT

`STOP:UPD;CORE!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`NG`	No Good. No system update procedure in progress.
`OK`	Good. Request completed.

5. REFERENCES

PIDENTs
SYUP
SYUR

Practice 254-280-270, *System Update Program Description*

Input Message
`UPD:CORE`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . STOP:UPD-FS
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Forces termination of the system update procedure. Do not confuse this message with the `STOP:UPD` input message.

2. FORMAT

`STOP:UPD;FS!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`NG`	No Good. No system update procedure in progress.
`OK`	Good. Request completed.

5. REFERENCES

PIDENTs
SYUP
SYUR

Practice 234-160-001, *Generic Retrofit and Update*
Practice 254-280-270, *System Update Program Description*

Input Messages
`STOP:UPD`
`UPD:FS-GEN`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . STOP:UPD-UTL
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . UTILITY
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Terminates the data set insert mode. It is used in conjunction with the message `UPD:UTILDS a, LINE b; ADD!`

2. FORMAT

`STOP:UPD;UTILDS!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`NG`	No Good. System is not in data set input mode.
`OK,CODE 092`	Good. Request completed.
`RL,CODE 180`	Retry Later. Execution of generic utility program (GULP) function is in progress.
`RL,CODE 181`	Retry Later. Message processing is in progress.
`RL,CODE 183`	Retry Later. Data set is in progress.

5. REFERENCES

PIDENTs
GULPDSET
GULRUTCR

Practice 234-301-003, *1B Processor Generic Utility Program (GULP) Application - Description*

Input Message
`UPD:UTILDS`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . STOP:VERMSG
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E24 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Cancels any verify message currently being processed on the channel on which the message is input, and optionally cancels all verify requests waiting to be processed (i.e. queued in the verify input message queue) for the input channel.

2. FORMAT

STOP:VERMSG[;ALL]!

3. EXPLANATION OF MESSAGE

ALL Cancel all verify requests for the input channel that are waiting to be processed. In addition, cancel all pending requests for the input channel.

NOTE: Use of the **ALL** option from the Maintenance (MTC), Switching Control Center 1 (SCC1), or Secondary Record (SREC1) channel will result in the complete reinitialization of the verify system. All verify messages in the office will be stopped.

4. SYSTEM RESPONSE

NG No Good. No message active on channel.

OK Good. Message(s) canceled.

5. REFERENCES

PIDENT
VRFYCNTL

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . SW:AMA
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Switches automatic message accounting (AMA) units. It causes the system to make the presently active AMA unit standby and the presently standby AMA unit active. Switches AMA units if active and standby are in service. This message is not valid when the AMA teleprocessing option is in effect.

2. FORMAT

`SW:AMA!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`NG`	No Good. AMA tape units not allowed in this office.
`PF`	Printout Follows. Followed by the `SW:AMA` output message.

5. REFERENCES

PIDENTs
AMDX
IOCPIMC1

Output Message
`SW:AMA`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . SW:APS
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1A-APS
TYPE . . . . . Input

1. PURPOSE

Switches the attached processor interface (API) within the specified attached processor system (APS). Every APS contains two APIs, e.g., APS 0 contains API 0 and API 1, APS 1 contains API 2 and API 3, and so on.

If both APIs are in service, one active and one standby, the **SW:APS** message will switch the active API to standby and the standby API will become the the active API. If only one API is in service, then the **SW:APS** message will fail. If only one API is in service and the **UCL** option is used, then the out-of-service (OOS) API will be brought to the standby state and the switch will be performed.

2. FORMAT

SW:APS a[**;UCL**]**!**

3. EXPLANATION OF MESSAGE

a	Attached processor system number (0-7).
UCL	Unconditionally switch the APIs within the specified **APS**. Default is to switch APIs conditionally.

4. SYSTEM RESPONSE

NG	No Good. Conditional API switch request is rejected.
PF	Printout Follows. Switch request accepted and an attempt will be made to switch the APIs.

5. REFERENCES

PIDENTs
APFRBASE
MIRA

Practice 254-280-114, *Attached Processor Interface Programs*
Practice 254-280-210, *Maintenance Control Program*

Output Message
SW:APS

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . SW:AUI
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Switch the auxiliary unit interfaces (AUIs).

If both AUIs are in service, one active and one standby, the **SW:AUI** input message will switch the active AUI to standby and the standby AUI to active. The **SW:AUI** input message will fail if the mate AUI is out-of-service (OOS). To unconditionally make the standby (SBY) / OOS AUI active, use the **SW:AUI;UCL** input message. This command will cause the SBY/OOS AUI to become active and the active AUI to become SBY.

NOTE: When a conditional **SW:AUI** input message is used, it is recommended that the standby AUI be tested using the TEST:AUI input message. If the test command fails, the **SW:AUI** input message should not be used until the cause for the failure is resolved.

2. FORMAT

SW:AUI[;UCL]!

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

?I	Identification field contains an error. An invalid identification field was specified for **SW:AUI**.
PF	Printout Follows. Switch request has been accepted and an attempt will be made to switch the AUIs.
RL	Retry Later. Maintenance control program (MACP) job queue is busy.

5. REFERENCES

PIDENT
AUFRBASE

Input Message
TEST:AUI

Output Message
SW:AUI

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . SW:CC
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Switches central controllers (CCs). Specifically, it switches the current standby CC to the active state and the current active CC to the standby state.

Format [1] is used to switch central controls conditionally.
Format [2] is used to switch central controls unconditionally.

NOTE: The CCs may be switched either conditionally, or unconditionally.

If a conditional CC switch is requested (**`SW:CC!`**), various checks will be made to determine if the standby CC is capable of running in the active state. If all checks pass, the CC switch will be attempted.

If an unconditional switch is requested (**`SW:CC;UCL!`**), an attempt to switch the CCs will be made regardless of the state of the standby CC.

NOTE: If the CCs are switched conditionally (**`SW:CC!`**), the CCs will be switched without a B-Level interrupt that would temporarily disrupt normal system activity. An output message will be printed after the switch attempt to indicate the success or failure of the conditional CC switch.

If the CCs are switched unconditionally (**`SW:CC;UCL`**), a B-Level interrupt will occur which will invoke the CC fault recognition testing to verify that the new active CC is working properly. The new standby CC will also be tested, provided that it can be put in-step with the active CC.

2. FORMAT

[1] **`SW:CC!`**

[2] **`SW:CC;UCL!`**

3. EXPLANATION OF MESSAGE

`UCL` Unconditionally switch the CCs.

4. SYSTEM RESPONSE

`?I` Identification field contains an error. Either a member number or an extraneous parameter was specified on the input message.

`PF` Printout Follows. The switch input message was received and the printout will follow.

SEE PROPRIETARY NOTICE ON COVER PAGE

5. REFERENCES

PIDENTs
CCFRMAIN
CCFRTEST

Output Message
SW:CC

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . SW:DIF
WORK CENTER . . MAC, MOC, TEC, TOC
GENERIC . . . . . 4E21 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Switches controllers or submembers within the specified Digital Interface Frame (DIF), for example:

(a) If the subunit field is defaulted or controller is specified, controller activity is switched if the controllers are duplex; or the in-service controller is removed and the out-of-service controller is placed in-service when the frame is simplex.

(b) If more than one submember is out of service in the frame (excluding the spares), then the specified submember will be protection switched and the currently protection-switched unit will be unprotection-switched.

NOTE: This action restores trunks assigned to the specified submember and removes those assigned to the previously protection switched submember. The spare must be in service.

2. FORMAT

SW:DIF a[,{**CONTR** b|**DIU** c}]**!**

3. EXPLANATION OF MESSAGE

a	Member number of specified unit.
b	Controller to be switched (0 or 1).
c	Digital Interface Unit (**DIU**) number to be switched (0-31).

4. SYSTEM RESPONSE

NG	No Good. Invalid input combination or invalid member or submember number.
PF	Printout Follows. Maintenance Control Program (MACP) job requested to perform switch. Disposition of the request will be given by an output message.
RL	Retry Later. MACP job queue full.

5. REFERENCES

PIDENTs
DIFRCNFG
DIFRUNFG
FRDI

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . SW:MUP
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Switch the master control complex (MCC) and utility processors (MUPs).

If both MUPs are in service, one active and one standby, the **SW:MUP** command will switch the active MUP to standby and the standby MUP to active. The **SW:MUP** command will fail if the mate MUP is out-of-service (OOS). To unconditionally make the standby (SBY) / OOS MUP active, use the **SW:MUP;UCL** command. This command will cause the SBY / OOS MUP to become active and the active MUP to become SBY.

2. FORMAT

SW:MUP[;UCL]!

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

?I	Identification field contains an error. An invalid argument was specified for **SW:MUP**.
PF	Printout Follows. Switch request has been accepted and an attempt will be made to switch the MUPs.
RL	Retry Later. Maintenance control program (MACP) job queue is busy.

5. REFERENCES

PIDENT
MCFRBASE

Output Message
SW:MUP

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . SW:PUB
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Switches peripheral unit bus (PUB) activity when both PUBs are in-service. Active PUB is made standby and standby PUB is made active.

2. FORMAT

SW:PUB a!

3. EXPLANATION OF MESSAGE

a	Member number (may be either the active or standby **PUB**).

4. SYSTEM RESPONSE

PF	Printout Follows. Maintenance control program (MACP) job queue and output will follow when job executes.
RL	Retry Later. MACP job queue busy.

5. REFERENCES

PIDENTs
MCFWPEM0
PUCN01

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . SW:SCLK
WORK CENTER . . MAC, MOC, NMOC, TEC, TOC
GENERIC . . . . . 4E21 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Switches controllers within the specified frame, for example:

(a) If the frame is duplex, controller activity will be switched.

(b) If the frame is simplex, the in-service controller will be removed and the out-of-service controller placed in service. Memory will be copied from the in-service controller.

2. FORMAT

SW:SCLK 0,{**CONTR** a|**REF** b}[**;UCL**]**!**

3. EXPLANATION OF MESSAGE

a	Controller number (0 or 1).
b	Reference (**REF**) number (0 or 1).
UCL	Unconditional switch.

NOTE: The controllers may be switched either conditionally or unconditionally. In either case, initial checks are made prior to the switch to insure that basic read/write capability exists to out-of-service controllers, and requests are denied if these tests fail. The difference between these cases lies in a second error source test done after the switch has been performed while the units are still pested. If this access test fails and a conditional switch is input, an unswitch back to the initial configuration will be performed. If instead, an unconditional switch is performed, the unit will be left pested.

4. SYSTEM RESPONSE

NG	No Good. Invalid input combination or invalid member or submember number.
PF	Printout Follows. Maintenance Control Program (MACP) job requested to perform switch. Disposition of the request will be given by an output message.
RL	Retry Later. MACP job queue full; repeat later.

5. REFERENCES

PIDENTs
MCFWPEM0
PUCN00

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . SW:SCS
WORK CENTER . . MAC, MOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Switches controllers activity within the specified Service Circuit System (SCS).

If the specified SCS frame is simplex, the out-of-service controller is restored to service (made active) and the previously in-service controller is removed from service.
If the specified SCS frame is duplex, the current active controller is made standby and the current standby controller is made active. The SCS remains duplex.

2. FORMAT

SW:SCS a!

3. EXPLANATION OF MESSAGE

a	**SCS** member number (0-7).

4. SYSTEM RESPONSE

NG	No Good. Invalid input combination or invalid member or submember number.
PF	Printout Follows. Maintenance Control Program (MACP) job requested to perform switch. Disposition of the request will be given by an output message.
RL	Retry Later. MACP job queue full.

5. REFERENCES

PIDENTs
FRDI
MIRA
SCSTOPOP
SCSTOPEX
TOPIC000

Output Message
SW:SCS

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . SW:TGR
WORK CENTER . . MAC, MOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Switches controllers within the specified terminal grouping (TGR) frame.

2. FORMAT

SW:TGR a[**;UCL**]**!**

3. EXPLANATION OF MESSAGE

a	Member number.
UCL	Unconditional switch.

NOTE: This message is used to switch controllers within the specified frame, for example, if the frame is duplex, controller activity will be switched. If the frame is simplex, the in-service controller will be removed and the out-of-service controller placed in service. Memory will be copied from the in-service controller.

The controllers may be switched either conditionally or unconditionally. In either case, initial checks are made prior to the switch to insure that basic read / write capability exists to out-of-service controllers and requests are denied if these tests fail. The difference between these cases lies in a second error source test done after the switch has been performed while the units are still pested. If this access test fails and a conditional switch is input, an unswitch back to the initial configuration will be performed. If instead, an unconditional switch is performed, the unit will be left pested.

4. SYSTEM RESPONSE

NG	No Good. Invalid input combination or invalid member or submember number.
PF	Printout Follows. Maintenance control program (MACP) job requested to perform switch. Disposition of the request will be given by an output message.
RL	Retry Later. MACP job queue full; repeat later.

5. REFERENCES

PIDENTs
MCFWPEM0
PUCN00

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . SW:VIF
WORK CENTER . . MAC, MOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Switches controllers or submembers within the specified frame.

2. FORMAT

SW:VIF a[,**VIU** b][;**UCL**]!

3. EXPLANATION OF MESSAGE

a — Voiceband interface frame (**VIF**) number (1-127).

b — Voiceband interface unit (**VIU**) number (0-7).

UCL — Unconditional switch.

NOTE: If the subunit field b is defaulted, controller activity is switched if the controllers are duplex. When the frame is simplex, the in-service controller is removed and the out-of-service controller is placed in-service. In the latter case, all memory is copied from the in-service unit.

If more than one submember is out-of-service in the frame (excluding the spare), the specified submember will be protection switched and the currently protection switched unit will be unprotection switched. This action restores the trunks assigned to the specified submember and removes those assigned to the previously protection-switched submember. The spare must be in-service.

The controllers or subunits may be switched either conditionally or unconditionally. In either case, initial checks are made prior to the switch to insure that basic read/write capability exists to out-of-service units involved in the switch and requests are denied if these tests fail. The difference between these cases lies in a second error source test done after the switch has been performed while the units are still pested. If this access test fails and a conditional switch is input, an unswitch back to the initial configuration will be performed. If instead, an unconditional switch is performed, the unit will be left pested.

4. SYSTEM RESPONSE

NG — No Good. Invalid input combination or invalid member or submember number.

PF — Printout Follows. Maintenance control program (MACP) job requested to perform switch. Disposition of the request will be given by an output message.

SEE PROPRIETARY NOTICE ON COVER PAGE

RL Retry Later. MACP job queue full; repeat later.

5. REFERENCES

PIDENTs
MCFWPEMO
PUCNOO

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . SW:XTSI
WORK CENTER . . MAC, MOC, TEC, TOC
GENERIC . . . . . 4E22 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Switches controllers activity or moves protection switching to specified operational Digital Signal Level 3 Unit (**D3U**) or Signal Processing Unit (**SPU**) within the specified Expanded Time Slot Interchange (**XTSI**) frame.

If no subunit (**D3U** or **SPU**) is specified, and if the specified **XTSI** frame is simplex, the out-of-service controller is restored to service (made active) and the previously in-service controller is removed from service.

If no subunit (**D3U** or **SPU**) is specified, and if the specified **XTSI** frame is duplex, the current active controller is made standby and the current standby controller is made active. The **XTSI** remains duplex.

If a subunit (**D3U** or **SPU**) is specified, and if more than one submember of a type within a service group is out-of-service in the frame (excluding the spares), then the specified submember number will be protection switched and the currently protection switched unit will be unprotection switched.

NOTE: The action restores trunks assigned to the specified submember and removes those assigned to the previously protection switched submember. The spare within the service group must be in service.

2. FORMAT

SW:XTSI a[**CONTR** b][,{**D3U** c|**SPU** d};**UCL**]!

3. EXPLANATION OF MESSAGE

a	**XTSI** member number (0-63). Companion member numbers (odd numbers) generate Input/Output (I/O) error text.
b	Controller (**CONTR**) member number (0-1).
c	**D3U** member number (0-5).
d	**SPU** member number (0-9).

4. SYSTEM RESPONSE

NG	No Good. Invalid input combination, invalid member, submember number or companion member.
PF	Printout Follows. Maintenance Control Program (MACP) job requested to perform switch. Disposition of the request will be given by an output message.

SEE PROPRIETARY NOTICE ON COVER PAGE

RL	Retry Later. MACP job queue full.

5. REFERENCES

PIDENTs
- FRDI
- MIRA
- PSCTOPEX
- PSCTOPOP
- TOPIC000
- XTSTOPEX
- XTSTOPOP

Output Message
- SW:XTSI

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . TEST:API
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1A-APS
TYPE . . . . . Input

1. PURPOSE

Tests the specified attached processor interface (API) by executing the API-deferred fault-recognition program. The API may be either in or out of service, and the status does not change, regardless of the test results.

2. FORMAT

`TEST:API` `a!`

3. EXPLANATION OF MESSAGE

`a`	Member number of the **`API`** (0-15).

4. SYSTEM RESPONSE

`PF`	Printout Follows. Followed by a `TEST:API` output message.
`RL`	Retry Later. No available general buffer table or job request table entry.

5. REFERENCES

PIDENTs
APFRBASE
MIRA

Practice 254-280-114, *Attached Processor Interface Programs*
Practice 254-280-210, *Maintenance Control Program*

Input Message
`RST:API`

Output Message
`TEST:API`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . TEST:AUB
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Tests all in-service auxiliary units (i.e., API, DUS) by executing the auxiliary unit deferred fault recognition program. The status of any auxiliary unit does not change regardless of the test results.

2. FORMAT

TEST:AUB a!

3. EXPLANATION OF MESSAGE

a	Auxiliary unit bus (**AUB**) member number to be tested (0 or 1).

4. SYSTEM RESPONSE

PF	Printout Follows. Followed by a TEST:AUB output message.
RL	Retry Later. No available general buffer table or job request table entry.

5. REFERENCES

PIDENTs
AUFRDFOR
MIRA

Practice 254-280-210, *Maintenance Control Program*

Output Message
TEST:AUB

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . TEST:AUI
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Tests the auxiliary unit interface (AUI) by executing the IFB controller tests, the AUI client access tests, the AUI client direct memory access (DMA) tests and the AUI client specific tests. The status of the AUI under test does not change regardless of the test results.

2. FORMAT

`TEST:AUI` `a!`

3. EXPLANATION OF MESSAGE

`a`	Auxiliary unit interface (**`AUI`**) member number to be tested (0 or 1).

4. SYSTEM RESPONSE

`PF`	Printout Follows. Followed by a `TEST:AUI` output message.
`RL`	Retry Later. No available general buffer table or job request table entry.

5. REFERENCES

PIDENT
AUFRBASE

Output Message
`TEST:AUI`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . TEST:CC
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Tests the active central controller (CC) or the active and the standby CCs by executing the deferred CC fault recognition program.

2. FORMAT

TEST:CC a[**;RPT**][**TSTNO** b]**!**

3. EXPLANATION OF MESSAGE

a — Member number of the **CC** to be tested (0 or 1). If the standby CCs' member number is specified, both CCs will be tested providing that they will run in step. If they will not run in step, only the active CC will be tested. If the active CCs' member number is specified, only the active CC will be tested.

RPT — Repeatedly perform the test(s) until terminated by a STOP:MACLI input message for the subclass to which CC fault recovery (CCFR) is assigned.

b — Execute only those tests specified by b; where b is a single number, range, or list of numbers. Default is to execute all tests. The following tests may be selected:

TSTNO	DESCRIPTION
0	Buffer register test
1	Register and homogeneity logic test
2	Index adder test
3	Add one logic test
4	Parity generator and checker test
5	Protected area test
6	Stack test
7	Boot read only memory (ROM) test
8	Matcher test
9	Decoder test
10	Buffer bus access test
11	Interrupt sequencer test
12	Fetch / execution sequencer test
13	Peripheral bus test
14	Interface bus test

SEE PROPRIETARY NOTICE ON COVER PAGE

4. SYSTEM RESPONSE

PF	Printout Follows. Followed by a TEST:CC output message.
RL	Retry Later. No available general buffer table (GBT) or job request table entry.

5. REFERENCES

PIDENTs
CCFRMAIN
CCFRTEST
MIRA

Input Message
STOP:MACLI

Output Message
TEST:CC

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . TEST:DSIG
WORK CENTER . . MAC, MOC, NMOC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Requests a test of common channel interoffice signaling (CCIS) direct signaling network.

Format [1] is used to request inward wide area telecommunications service (INWATS) test call.
Format [2] is used to request direct signaling translation test.
Format [3] is used to request a network call denial (NCD) test query.
Format [4] is used to request a number services 800 (NS800) test query.
Format [5] is used to request an INFO-1 (Dial-A-View) test query.

2. FORMAT

[1] **TEST:DSIG;INWATS:DIG** a,**ORIGNPA** b[,**STPNET** c]**!**

[2] **TEST:DSIG;DSTT:**{**FNUM** d|**DATABASE** e|**SOFC** f|**SDN** g|**NCD** h}[,**STPNET** c]**!**

[3] **TEST:DSIG;NCD:DIG** i[,**STPNET** c][,**INTLCODE**]**!**

[4] **TEST:DSIG;NS800:DIG** a{,**ORIGNPA** b|,**ANI** j},**LATA** k,**TOS** l[,**II** m]**!**

[5] **TEST:DSIG;DAV:NVID** n,**MODE** o**!**

3. EXPLANATION OF MESSAGE

a — The **INWATS** number to be tested; a 10-digit number starting with 800. For INWATS OOX codes, enter 800 instead of the OOX and enter the corresponding numbering plan area (NPA) in the **ORIGNPA** field. For example, **DIG 8001234567**.

b — Originating NPA which is the simulated 3-digit NPA for this test. Represents the NPA of an INWATS customer (one who calls an INWATS number). For example, **ORIGNPA 312**.

c — The signaling transfer point (STP) network over which the direct signaling test will be sent. If 1, the test will be sent over the 1STP network. If 2, the test will be sent over the 2STP network.

If the **STPNET** keyword is not present, the test will default to the STP network defined in office data (ODA).

SEE PROPRIETARY NOTICE ON COVER PAGE

d — Function number that specifies the CCIS direct signaling domain of function number. This variable is a 1- to 5-digit number from 0 to 32,767. The direct signaling translation test (DSTT) is sent to the node which is assigned the input function number. For example, **FNUM 11978**.

e — Database address that specifies the CCIS direct signaling domain of **DATABASE**. The address is the 3-digit NPA and 3-digit office code. For INWATS, the address is 800 + XXX. Any 6-digit number may be entered. The DSTT will be sent to the database which handles the input address. For example, **DATABASE 800123**.

f — Switching office address; specifies the CCIS direct signaling domain of the switching office. This variable is the NPA and office code which the switching office terminates. Any 6-digit number may be entered. The DSTT will be sent to the requested switching office. For example, **SOFC 312645**.

NOTE: Until modifications are added, a 4ESS™ switch does not have a valid address in this switching office domain.

g — Software defined network (SDN) database address. It specifies the CCIS direct signaling domain of **SDN**. The address is the 3-digit NPA and the 3-digit office code. Any 6-digit number may be entered. The DSTT will be sent to the SDN database that handles the input address. For example, **SDN 312979**.

h — The network call denial (NCD) database address. The address specifies the CCIS direct signaling domain of **NCD**. The address is the 3-digit numbering plan area (NPA) and the 3-digit office code. Any 6-digit number may be entered. The DSTT will be sent to the NCD database that handles the input address. For example, **NCD 312979**.

i — The network call denial (NCD) number to be tested. This number can be any ten-digit billing number. For example, **DIG 3129793998**.

INTLCODE — For NCD, indicates this as an international query. Default is domestic.

j — Customer's ten digit automatic number identification (**ANI**).

k — Originating local access and transport area (**LATA**) which is the simulated 3-digit LATA for this test. It represents the LATA of a number service 800 caller (one who calls an NS800 number). For example, **LATA 120**.

l — The type of service (**TOS**) indicator. A number from 0 to 31 that is assigned as the 800 number service type of service. The TOS is used to obtain the CCS7 subsystem number and translation type to use in sending the query.

SEE PROPRIETARY NOTICE ON COVER PAGE

`m` The automatic number identification (ANI) information digits (IIs), also called the originating station type, which is the simulated 2-digit **`II`** for this test. It identifies characteristics of the calling station (e.g., coin, hotel, motel). If the **`II`** keyword is not present, the test will default to 23 which is an identified line (coin or noncoin).

`n` National vendor identification number (1-127).

`o` Type of query.

- **`MODE`**`=1` — Dial-A-View query to the feature control office (signaling connection control port [SCCP] messages only).
- **`MODE`**`=2` — Dial-A-View query to the vendor (SCCP messages and Q931 / service access data channel [SADC] messages).
- **`MODE`**`=2` — Individual per call control (IPCC) query to gateway using primary link access circuit identifier (LACID). (Use the `VER:ADSLINK` input message with an `ADSI` of 16 to use this mode, this is only valid with `NVID` = `99`.)
- **`MODE`**`=3` — IPCC query to gateway using secondary LACID. (Use the `VER:ADSLINK` input message with an `ADSI` of 16 to use this mode, this is only valid with `NVID` = `99`.)

4. SYSTEM RESPONSE

`?D` Data field contains an error. Invalid or out of range data was input.

`?E` Syntax Error exists in the message but cannot be resolved to the proper field. An invalid keyword combination was discovered.

`PF` Printout Follows. The test has been initiated and the results will be printed when received.

`RL` Retry Later. No teletypewriter (TTY) output buffer or trunk assignment generation (TAG) block.

`RL,CODE a` Retry Later. A system resource was not available at this time. Codes are:

- `2` — Unable to seize a trunk maintenance register (TMR).
- `3` — Previous test in progress.
- `4` — Terminal congestion.
- `5` — Signaling link failure.
- `6` — Audit condition detected in link security.
- `7` — Response timing could not be initiated.

5. REFERENCES

PIDENTs
- ADJSCNTL
- DSIGTEST
- IOCPIMC4
- IPCC

SEE PROPRIETARY NOTICE ON COVER PAGE

TCAPTEST
TMAD0005

Input Message
`VER:ADSLINK`

Output Messages
`TEST:DSIG-DSTT`
`TEST:DSIG-INWA`
`TEST:DSIG-NCD`
`TEST:DSIG-NS800`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . TEST:FNS
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Tests the fan system (FNS) within the specified 1B Processor frame and reports any existing defective FNS component(s).

2. FORMAT

TEST:FNS a!

3. EXPLANATION OF MESSAGE

a	A 1-digit decimal number specifying the **FNS** to be tested (0 or 1).

4. SYSTEM RESPONSE

?E	Syntax Error exists in the message but cannot be resolved to the proper field.
?I	Identification field contains an error. Invalid **FNS** specified. Must be 0 or 1.
PF	Printout Follows. Output message follows.
RL	Retry Later. The request could not be honored due to a temporary lack of system resources.

5. REFERENCES

PIDENTs
FNFRBASE
MCCMEPS1

Input Messages
ALW:FNS
CLR:FNS
INH:FNS

Output Messages
ALW:FNS
CLR:FNS
REPT:FAN-ST
TEST:FNS

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . TEST:IFB
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Tests the interface bus (IFB) controller and clients by executing the IFB controller tests, the IFB client access tests, the IFB client direct memory access (DMA) tests and the IFB client specific tests. The status of any client does not change regardless of the test results.

2. FORMAT

TEST:IFB a!

3. EXPLANATION OF MESSAGE

a	Interface bus (**IFB**) member number to be tested (0 or 1).

4. SYSTEM RESPONSE

PF	Printout Follows. Followed by a TEST:IFB output message.
RL	Retry Later. No available general buffer table or job request table entry.

5. REFERENCES

PIDENT
IFFRBASE

Output Message
TEST:IFB

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . TEST:MUP
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Tests the master control complex (MCC) and utility processor (MUP) controller and clients by executing the interface bus (IFB) controller tests, the MUP client access tests, the MUP client direct memory access (DMA) tests and the MUP client specific tests. The status of the MUP under test does not change regardless of the test results.

2. FORMAT

TEST:MUP a!

3. EXPLANATION OF MESSAGE

a	Master control complex and utility processor (**MUP**) member number to be tested (0 or 1).

4. SYSTEM RESPONSE

PF	Printout Follows. Followed by a TEST:MUP output message.
RL	Retry Later. No available general buffer table or job request table entry.

5. REFERENCES

PIDENT
MCFRBASE

Output Message
TEST:MUP

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . TEST:MUPAUD
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Directs the master control complex (MCC) and utility processor (MUP) to run the specified MUP audit(s).

NOTE: `INH:MUPAUD` inhibits only automatic audits (not manual audits). Therefore, **`TEST:MUPAUD`** is still available after `INH:MUPAUD`.

2. FORMAT

`TEST:MUPAUD,MUP` `a`**`:BANK`** `b[`**`,NUM`** `{c|(c,c[,c...])}]`**`!`**

3. EXPLANATION OF MESSAGE

`a` Member number of the **`MUP`** (0 or 1).

`b` MUP audit bank number in decimal form. The number must be from 0 - 3.

`c` MUP audit number in the audit bank. The number must be in decimal form and range from 1 - 32.

`NUM` Optional. If the **`NUM`** key word and its arguments are not specified, then all the audits which have been implemented in the specified audit bank will be run. Otherwise, the only specified audits will be run.

NOTE: The MUP audit data structure consists of four audit banks and each audit bank has 32 audits. Currently, only seven audits in audit bank `0` have been implemented:

`BANK 0, NUM 1` — Dual asynchronous receiver transmitter (DUART) counter and timer audits.

`BANK 0, NUM 2` — User stack list audits.

`BANK 0, NUM 3` — Memory management structure audits.

`BANK 0, NUM 4` — Memory parity audits.

`BANK 0, NUM 5` — MCC matrix data structure audit.

`BANK 0, NUM 6` — Three phase audit of internal page translation tables for correct data and verifies that cross-referencing is correct.

`BANK 0, NUM 7` — General MCC global variables audit.

SEE PROPRIETARY NOTICE ON COVER PAGE

4. SYSTEM RESPONSE

`?E`	Syntax Error exists in the message but cannot be resolved to the proper field.
`?I,INV KW`	Identification field contains an error. Invalid key word.
`PF`	Printout Follows.
`RL,CODE 001`	Retry Later. Another **`TEST:MUPAUD`** is in progress.
`RL,CODE 002`	Retry Later. Unable to submit request to maintenance control program (MACP) (system resources).

5. REFERENCES

PIDENT
MCFRMAUD

Input Messages
`ALW:MUPAUD`
`INH:MUPAUD`
`OP:MUPAUD`
`STOP:MUPAUD`

Output Messages
`ALW:MUPAUD`
`INH:MUPAUD`
`OP:MUPAUD`
`TEST:MUPAUD`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . TEST:PUB
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Tests for source of babbling onto the peripheral unit bus (PUB).

2. FORMAT

TEST:PUB a[:[bc[,de]][,**EDATA** f][,**PUDATA** g][,**PLDATA** h]]!

3. EXPLANATION OF MESSAGE

a	Member number of the **PUB** (0 or 1).
b	Unit type.
c	Unit type member number.
d	Subunit type.
e	Subunit type member number.
f	Enable address bus test data.
g	Peripheral unit address bus opcode and extended opcode.
h	Peripheral unit address bus data.

NOTE: Each 24 bits of f g h data can range in value from 0 to 77777777. Bits 10 through 21 of f are equal to the peripheral unit KCODE. For test purposes an invalid KCODE may be used. Bits 0 through 4 of g are equal to the extended opcode while bits 5 through 11 represent the opcode.

4. SYSTEM RESPONSE

?I	Identification field contains an error. Extra keywords in message.
PF	Printout Follows. Followed by a TEST:PUB output message.

5. REFERENCES

PIDENTs
BBFR0000
MIRA

Output Message
TEST:PUB

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . TEST:PUSYS
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Tests the peripheral system by scheduling routine maintenance tests.

2. FORMAT

`TEST:PUSYS[;UCL]!`

3. EXPLANATION OF MESSAGE

`UCL` Unconditionally test all peripheral frames which are duplex (override normal scheduling).

4. SYSTEM RESPONSE

`OK` Good. Scheduling of routine maintenance test started.

5. REFERENCES

PIDENT
PUEX

Practice 234-180-251, *Automatic Routine Maintenance Exercise Program - Description*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . TEST:SD
WORK CENTER . . MAC,MOC,NMOC,TOC
GENERIC . . . . . 4E22 Rel. 2 and later
CLASS . . . . . ALL
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Requests a test query to be sent to the Segmentation Directory (**SD**) database from the 4ESS Switch serving as an Originating AT&T Switch (OAS). This test query verifies Triangular Call Flow between the 4ESS(OAS), **SD**, and Service Processor (**SP**) (NCP database) utilizing the Common Channel Signaling Version 7 (CCS7) Transaction Capability Application Part (TCAP) protocol. It also will enable office personnel, via input messages, to initiate queries to verify the interactions between the 4E and **SD**, and the **SP** and the 4E. The contents of specific responses sent by the **SD** complex to the 4ESS, and the responses sent by the **SP** will be displayed. The **SP** response will only be printed if the **SD** response indicates to "wait for instructions". This query is designed to be used as a testing vehicle for data associated with a particular customer.

2. FORMAT

```
TEST:SD;DIG a:[QRYTYPE b[,]][DPC c[,]][ANI d[,]|ANI d,APN[,]][SP e[,]]
      [TOS f[,]][NMTCH g[,]][CAR h[,]][SID i[,]][TYP j[,]][REF k[,]]
      [TMSD l[,]][TMSP m[,]][AUTHCODE n[,]][CCF o[,]][CD[,]][LIST]!
```

3. EXPLANATION OF MESSAGE

a — Called party number. A North American Numbering Plan (NANP) 10 digit number or 011 + International 5-15 digit number is required.

b — **SD**-Query type:

- 1 — Specific destination.
- 2 — Any destination. Default.
- 3 — All.

c — **SD** destination. **SD** point code is only entered if the **SD** query type is equal to specific destination.

d — Automatic Number Identification (**ANI**) digits. A 10 digit **ANI** is required.

APN — Action Point Numbering Plan (**APN**) indicates **ANI** is **APN**.

e — **SP** destination:

- 0 — Any available **SP**. Default.
- 1 — Primary **SP**
- 2 — Secondary **SP**

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`f` Trunk Subgroup (TSG) service type:

- `1` — Software Defined Network (SDN)
- `3` — Megacom®
- `6` — Switch Digital Service (SDS)
- `7` — Long Distance Service (LDS) Default.

`g` Match restriction indicator. For **SD** Phase I, the default is always sent by the switch.

- `0` — No restrictions. Default.
- `1` — Match on **ANI** only.
- `2` — Match on Dialed Number (DN) only.

`h` Carrier selection:

- `0` — No Indication
- `1` — Selected carrier identification code presubscribed and not input by the call party.. Default.
- `2` — Selected carrier identification code presubscribed and input by the calling party
- `3` — Selected carrier identification code presubscribed, no indication of whether input by the calling party
- `4` — Selected carrier identification code not presubscribed and input by the calling party

`i` 10 digit calling directory number.

`j` Origination station type. Format is two **ANI** II digits.

`k` Bearer capability requested.

- `0` — Voice call, default.
- `1` — 1.536 Megabits Per Second (MBPS) clear.
- `2` — 1.536 MBPS restricted.
- `3` — 384 MBPS clear.
- `4` — 384 MBPS restricted.
- `5` — 64 Kilobits Per Second (KBPS) clear.
- `6` — 56 KBPS.
- `7` — 64 KBPS restricted.

`l` **SD** query test timer (`5-120`). Each number is an increment of 100 ms. Default value is the provisioned value.

`m` **SP** response test timer (`5-120`). Each number is an increment of 100 ms. Default value is the provisioned value.

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n	Authorization code (15 digits). Parameter is accepted but the value is not sent in the TCAP message.
o	Concentrated Calling Feature (**CCF**) override code (8 digits). Parameter is accepted but the value is not sent in the TCAP message.
CD	Continue Data (**CD**) is used when there is too much data for one-line a second test query has to be entered with the remaining data. (Example: **TEST:SD;DIG 3128231200:CD!** followed by **TEST:SD;DIG 3128231200:QRYTYPE 1,DPC 254255101!**)
LIST	Performs raw dump of TCAP messages sent to and received from **SD** or **SP** database.

4. SYSTEM RESPONSE

?D	Data field contains an error. Invalid or out-of-range data was received in the input message.
?D, CODE 1	Data field contains an error. A keyword was entered twice.
?D, CODE 2	Data field contains an error. Invalid **SD** destination detected, or illegal combination of **SD** destination and **QRYTYPE**.
?D, CODE 3	Data field contains an error. Invalid **SD** query type detected.
?D, CODE 4	Data field contains an error. Invalid called party number digit count detected.
?D, CODE 8	Data field contains an error. Invalid ANI digit count detected.
?D, CODE 9	Data field contains an error. Invalid SP destination detected.
?D, CODE 10	Data field contains an error. Invalid TSG service type detected.
?D, CODE 11	Data field contains an error. Invalid Match Restriction Indicator detected.
?D, CODE 12	Data field contains an error. Invalid Carrier Selection detected.
?D, CODE 13	Data field contains an error. Invalid Called Directory digit count detected.
?D, CODE 15	Data field contains an error. Invalid Inbound Supplemental Origination Information detected.
?D, CODE 16	Data field contains an error. Invalid Station Group Designator detected.
?D, CODE 17	Data field contains an error. Invalid Bearer Capability detected.
?D, CODE 18	Data field contains an error. Invalid **SD** Query Test timer value detected.
?D, CODE 19	Data field contains an error. Invalid **SD** Response timer value detected.
?D, CODE 20	Data field contains an error. Invalid Authorization Code detected.

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`?D, CODE 21`	Data field contains an error. Invalid Concentrated Calling Feature override code detected.
`?D, CODE 22`	Data field contains an error. Unrecognized keyword.
`?D, CODE 23`	Data field contains an error. The TMAD0005 PIDENT found errors.
`?D, CODE 24`	Data field contains an error. Missing mandatory parameters.
`?D, CODE 25`	Data field contains an error. Illegal keyword combination.
`?D, INV KW`	Data field contains an error. Unrecognized keyword.
`?D, XTRA KW`	Data field contains an error. Duplicate keywords have been entered.
`?E`	Error exists in the message but cannot be resolved to the proper field. Required parameters are missing, or some duplicate keywords or errors in data was detected.
`PF`	Printout Follows. The test query has been initiated and the results will be printed.
`RL`	Retry Later. No Teletypewriter (TTY) output buffer or trunk query register available.

5. REFERENCES

PIDENT
IOCPIMC4
TESTSEGD
TMAD0005

Output Message
`TEST:SD`

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ID . . . . . TEST:SIGLK
WORK CENTER . . MOC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Tests the specified standby voice frequency links (VFLs) assigned to the specified signaling link. (Not used for international terminals.)

2. FORMAT

TEST:SIGLK aabb,**VFL** cdddd dd dd ddd ddd!

3. EXPLANATION OF MESSAGE

a	A terminal grouping (TGR) frame number (00-15).
b	A terminal subunit number within the frame (00-15).
c	Traffic number of the **VFL** tested.
d	Circuit identification number (CIN) with town, state, building, far-building subdivision, and near-building subdivision of VFL tested.

4. SYSTEM RESPONSE

IP	In Progress. The request has been accepted, followed by a TEST:SIGLK output message with the results of the request.
NA	Not Accepted. International terminal, test not allowed.
NG	No Good. The signaling link is not assigned; or the **VFL** specified either is not assigned to the link or is the only one available to the system.
NG	No Good. The link is unequipped or the **VFL** is not assigned to the signaling link.
NG RANGE ERROR	No Good. TGR number or terminal subunit number exceeds fifteen or the **VFL** is unassigned.
PF	Printout Follows. The request has been accepted; a TEST:SIGLK output message follows with the results of the request.
RL,CODE 1	Retry Later. A previous input request is in progress on this signaling link.
RL,CODE 3	Retry Later. A defensive check of internal data failed while the input request was being processed.
RL,CODE 4	Retry Later. The **VFL** is not available to the system.
RL,CODE 5	Retry Later. A conflict with a far-end configure request has occurred. Repeat the request after several minutes.

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`RL,CODE 6` Retry Later. The signaling link is automatic out-of-service and will be denied until signaling has been reestablished on this link.

5. REFERENCES

PIDENTs
CCISMNAC
CCISSLCN
CCISOPR

Output Message
`TEST:SIGLK`

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ID . . . . . TEST:SSD
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Tests the specified scan and signal distributor (SSD) by executing the SSD-deferred fault-recognition program. The SSD may be either in or out of service, and the status does not change regardless of the test result. However, the unit will not be tested, if the corresponding interface bus (IFB) is out-of-service (OOS).

2. FORMAT

TEST:SSD a!

3. EXPLANATION OF MESSAGE

a	Member number of the **SSD** to be tested (0 or 1).

4. SYSTEM RESPONSE

PF	Printout Follows. Followed by a TEST:SSD output message.
RL	Retry Later. No available general buffer table (GBT) or job request table entry.

5. REFERENCES

PIDENT
SSFRBASE

Output Message
TEST:SSD

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . TEST:TCAPAIN
WORK CENTER . . MAC, MOC, NMOC, TOC
GENERIC . . . . . 4E21 Rel. 4 and later
CLASS . . . . . ALL
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Requests a test query to be sent to the Service Control Point (SCP) from the 4ESS™ Switch serving as a Service Switch Point (SSP). This test query will enable office personnel, via input messages, to initiate queries to verify the contents of specific fields in the SCP response message. This test query tests the integrity of the Common Channel Signaling System 7 (CCS7) network between the two end points utilizing the ANSI® based Transaction Capability Application Part (TCAP) protocol. It also serves as a tool to test the data for a particular Advanced Intelligent Network (AIN) customer. The queries sent to the SCP can be either for Info_Collected or Info_Analyzed.

Format [1] is used to request an Info_Analyzed test query.
Format [2] is used to request an Info_Collected test query.

2. FORMAT

[1] **TEST:TCAPAIN;QRYTYPE** a**:TSGN** b**,DATA** c**,TRNUM** d**,DIG** e**,TOS** f
[**,ANI** g][**,SID** h][**,OLI** i|**,IIDIGITS** j][**,RID** k][**,RDC** l]
[**,AUTHCODE** m][**,TIME** n][**,CD**][**,LIST**]**!**

[2] **TEST:TCAPAIN;QRYTYPE** a**:TSGN** b**,DATA** c**,ANI** g**,DIG** o**,TOS** f
[**,SID** h][**,OLI** i|**,IIDIGITS** j][**,RID** k][**,RDC** l][**,AUTHCODE** m]
[**,TIME** n][**,CD**][**,LIST**][**,CAR** pppp[q]][**,TRNUM** d]**!**

3. EXPLANATION OF MESSAGE

a — The type of query to be sent:

1 — Info_Collected query

2 — Info_Analyzed query

b — The USERID contains the identity of the originating user which is the Trunk Subgroup Number (TSGN).

c — The bearer capability of the call that encountered the trigger:

0 — Speech

1 — f31kHz audio

2 — 7kHz audio, (NOT SUPPORTED)

3 — b56kbps

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4 — b64kbps

5 — Packet mode data, (NOT SUPPORTED)

d Trigger criteria type:

4 — Numbering Plan Area (NPA), for info analyzed queries.

5 — NPANXX, for info analyzed queries.

6 — Exchange Number (NXX), for info analyzed queries.

7 — NXXxxxx, where x is the final four digits of a number, for info analyzed queries..

8 — NPANXXxxxx, where x is the final four digits of a number, for info analyzed queries.

14 — Shared Inter-Office (IO) trunk, for info collected queries (default).

17 — Off hook delay, for info collected queries.

19 — NPAN, for info analyzed queries.

20 — NPANX, for info analyzed queries.

21 — NPANXXx, where x is a decimal number (0-9), for info analyzed queries.

22 — NPANXXxx, where x is a decimal number (0-9), for info analyzed queries.

23 — NPANXXxxx, where x is a decimal number (0-9), for info analyzed queries.

e Called party Identification (ID) represents the call's destination address. This parameter includes the nature of number along with the numbering plan, followed by the digits. Range: 3,6,7,10-15 digits.

Nature of number (first two digits)

00 — Not applicable, (NOT SUPPORTED)

01 — Subscriber number

02 — National (significant) number

03 — International number

04 — Subscriber number, operator requested (0+ call)

05 — National number, operator requested (0+ call)

06 — International number, operator requested (0+ call)

07 — No address present, operator requested (0-, 10xxx+0(0), or 00- call), where x is a decimal number (0-9), (NOT SUPPORTED).

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08 — No address present, cut-through call to carrier

09 — 950+ call from local exchange carrier public station or hotel/motel line or non - Equal Access End Office (EAEO)

10 — Test line test code

Numbering plan (third digit)

0 — Unknown or not applicable, (NOT SUPPORTED)

1 — Integrated Services Digital Network (ISDN) numbering plan

2 — Private

For example:

```
EX:  0121234567
Nature of number: Subscriber number
Numbering plan:   Private
Digits:           1234567
```

f Type Of Service (TOS) indicator is used to obtain the transaction type to use in sending the query (0-31).

g Charge number represents the billing number Automatic Number Identification (ANI) of the call's originating party. Range: 3,6,10 digits.

h Calling party ID represents the call's originating party. This parameter includes the nature of number, numbering plan, presentation restriction, screening indicator, followed by the digits. Range: 3,6,10-15.

Nature of number (first digit)

0 — Unknown or not applicable

1 — Unique subscriber number

2 — Unique national (significant) number

3 — Unique international number

4 — Non-unique subscriber number

5 — Non-unique national number

6 — Non-unique international number

7 — Test line test code

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Numbering plan (second digit)

- 0 — Unknown or not applicable
- 1 — ISDN numbering plan
- 2 — Private

Presentation Restriction Indicator (PRI) - Screening Indicator (SI) (third digit)

- 0 — Presentation allowed - reserved for user provided, not screened or spare
- 1 — Presentation allowed - user provided, passed network screening
- 2 — Presentation allowed - network provided
- 3 — Presentation restricted - reserved for user provided, not screened or spare
- 4 — Presentation restricted - user provided, passed network screening
- 5 — Presentation restricted - network provided
- 6 — Number unavailable - reserved for user provided, not screened or spare
- 7 — Number unavailable - user provided, passed network screening
- 8 — Number unavailable - network provided

For example:

```
EX:  1081234567
Nature of number: Unique subscriber number
Numbering plan:   Unknown or not applicable
PRI-SI:           Number unavailable -
                  network provided
Digits:           1234567
```

i Charge party station type represents the Originating Line Information (OLI) of the call's originating party. Range: 0...99.

j Charge party station type represents the Information Digits (II) of the call's originating party. Range: 0...99.

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k Redirecting party ID represents the dialed number of the last station for which call forwarding was invoked. This parameter includes the nature of number, numbering plan, presentation restriction, screening indicator, followed by the digits. Range: 3,6,10-15 Digits

Nature of number (first digit)

- 0 — Unknown or not applicable
- 1 — Unique subscriber number
- 2 — Unique national (significant) number
- 3 — Unique international number
- 4 — Non-unique subscriber number
- 5 — Non-unique national number
- 6 — Non-unique international number
- 7 — Test line test code

Numbering plan (second digit)

- 0 — Unknown or not applicable
- 1 — ISDN numbering plan
- 2 — Private

Presentation Restriction Indicator (PRI) - Screening Indicator (SI) (third digit)

- 0 — Presentation allowed - reserved for user provided, not screened or spare
- 3 — Presentation restricted - reserved for user provided, not screened or spare
- 6 — Number unavailable - reserved for user provided, not screened or spare

For example:

```
EX:  1067081234567
Nature of number: Unique subscriber number
Numbering plan:   Unknown or not applicable
PRI-SI:           Number unavailable -
                  reserved for user provided,
                  not screened or spare
Digits:           7081234567
```

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l Redirection information reflects the information about the call forwarding which has occurred on the call. It is only meaningful if the call has encountered call forwarding (either switch-based, or SCP initiated via forward_Call) before encountering a trigger. The redirection information parameter contains the following fields:

- Original Redirection Reason — Field reflects the reason the first call forwarding action was taken.
- Redirection Reason — Field reflects the reason the most recent call forwarding action was taken.
- Redirection Counter — Keeps count of the number of call forwarding actions which have occurred on the call. It is incremented each time SCP initiated forwarding occurs.

Original redirection reason (first digit)

0 — Unknown / not available

1 — User busy

2 — No reply

3 — Unconditional

Redirection reason (second digit)

0 — Unknown / not available

1 — User busy

2 — No reply

3 — Unconditional

Redirection counter (third and fourth digit) Range: 01-10

m Original called party ID represents the call's destination address. This parameter includes the nature of number, numbering plan, presentation restrictions, and screening indicator, followed by the digits. Range: 3,6,10-15.

Nature of number (first digit)

0 — Unknown or not applicable

1 — Unique subscriber number

2 — Unique national (significant) number

3 — Unique international number

4 — Non-unique subscriber number

5 — Non-unique national number

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6 — Non-unique international number

7 — Test line test code

Numbering plan (second digit)

0 — Unknown or not applicable

1 — ISDN numbering plan

2 — Private

Presentation Restriction Indicator (PRI) - Screening Indicator (SI) (third digit)

0 — Presentation allowed - reserved for user provided, not screened or spare

1 — Presentation allowed - user provided, passed network screening

2 — Presentation allowed - network provided

3 — Presentation restricted - reserved for user provided, not screened or spare

4 — — Presentation restricted - user provided, passed network screening

5 — Presentation restricted - network provided

6 — Number unavailable - reserved for user provided, not screened or spare

7 — Number unavailable - user provided, passed network screening

8 — Number unavailable - network provided

For example:

```
EX:  1081234567
Nature of number: Unique subscriber number
Numbering plan:   Unknown or not applicable
PRI-SI:           Number unavailable -
                  network provided
Digits:           1234567
```

n Sets the T1 timer for waiting reply. If not specified the default will be the value normally used for call processing messages. Range: 01-10.

o Collected address information contains the "untranslated" address information collected from the originating trunk. This parameter includes the nature of number along with the numbering plan, followed by the digits. Range: 0-15 digits.

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Nature of number (first two digits)

- 00 — Not applicable
- 01 — Subscriber number
- 02 — National (significant) number
- 03 — International number
- 04 — Subscriber number, operator requested (0+ call)
- 05 — National number, operator requested (0+ call)
- 06 — International number, operator requested (0+ call)
- 07 — No address present, operator requested (0-, 10XXX+0(0), or 00- call)
- 08 — No address present, cut-through call to carrier
- 09 — 950+ call from local exchange carrier public station or hotel / motel line or non-EAEO
- 10 — Test line test code

Numbering plan (third digit)

- 0 — Unknown or not applicable
- 1 — ISDN numbering plan
- 2 — Private

For example:

```
EX:  0127081234567
Nature of number: Subscriber number
Numbering plan:   Private
Digits:           7081234567
```

p — Carrier ID which should be sent to the SCP in the primary carrier parameter. If not included, the default carrier ID will be included in the query message. The carrier ID is 4 digits, if 3 digits, prepend a zero to the input.

q — Carrier selection:

- D — No indication (default).
- 1 — Presubscribed, Carrier ID (CID) not entered by calling party.
- 2 — Presubscribed, Carrier ID (CID) input by calling party.
- 3 — Presubscribed, unknown if input by calling party.
- 4 — Not presubscribed, input by calling party.

CD — Continue data is used when there is too much data for one line a second test query has to be entered with the remaining data.

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LIST Used to dump the message received from the Signaling Control Point (SCP) database.

The Info_Analyzed message is a switch event message. It is sent from the SSP to the SCP. The trigger detection point associated with this message is information analyzed.

The following description will show the valid use of parameters for the Info_Analyzed message:

InfoAnalyzed OPERATION	
PARAMETER	Designation
UserID (TSGN)	MANDATORY
BearerCapability (DATA)	MANDATORY
CalledPartyID (DIG)	MANDATORY
Lata (LATA)	NOT SUPPORTED
TriggerCriteriaType (TRNUM)	MANDATORY
ChargeNumber (ANI)	OPTIONAL
CallingPartyID (SID)	OPTIONAL
ChargePartyStationType (OLI or IIDIGITS)	OPTIONAL
PrimaryCarrier	NOT SUPPORTED
CollectedAddressInfo	NOT SUPPORTED
CollectedDigits	NOT SUPPORTED
VerticalServiceCode	NOT SUPPORTED
TCM	NOT SUPPORTED
OriginalCalledPartyID	OPTIONAL
RedirectingPartyID	OPTIONAL
RedirectionInformation	OPTIONAL
ACGEncountered	NOT SUPPORTED

The Info_Collected message is a switch event message. It is sent from the SSP to the SCP. The trigger detection point associated with this message is information collected.

The following description will show the valid use of parameters for the Info_Collected message:

InfoCollected OPERATION	
PARAMETER	Designation
UserID (TSGN)	MANDATORY
BearerCapability (DATA)	MANDATORY
ChargeNumber (ANI)	MANDATORY
Lata (LATA)	NOT SUPPORTED
PrimaryCarrier	NOT SUPPORTED
TriggerCriteriaType (TRNUM)	NOT SUPPORTED
continued next page	

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InfoCollected OPERATION	
PARAMETER	Designation
CallingPartyID (SID)	OPTIONAL
ChargePartyStationType (OLI or IIDIGITS)	OPTIONAL
AccessCode	NOT SUPPORTED
CollectedAddressInfo	MANDATORY
CollectedDigits	NOT SUPPORTED
VerticalServiceCode	NOT SUPPORTED
TCM	NOT SUPPORTED
OriginalCalledPartyID	OPTIONAL
RedirectingPartyID	OPTIONAL
RedirectionInformation	OPTIONAL
ACGEncountered	NOT SUPPORTED
Amp	NOT SUPPORTED

4. SYSTEM RESPONSE

`?D,CODE 1` Data field contains an error. Keyword entered twice in input.

`?D,CODE 2` Data field contains an error. Input parameter not allowed in Send Info Collected Query (SICQ).

`?D,CODE 3` Data field contains an error. Input parameter not allowed or all mandatory parameters not entered in SICQ.

`?D,CODE 4` Data field contains an error. All mandatory parameters not entered in Send Info Analyzed Query (SIAQ).

`?D,CODE 5` Data field contains an error. Invalid query type detected.

`?D,CODE 6` Data field contains an error. Invalid user ID detected.

`?D,CODE 7` Data field contains an error. Invalid bearer capability detected.

`?D,CODE 8` Data field contains an error. LATA not supported.

`?D,CODE 9` Data field contains an error. Invalid T1 timer detected.

`?D,CODE 11` Data field contains an error. Invalid collected address info digit count detected.

`?D,CODE 12` Data field contains an error. Nature should be cut to carrier for a zero digit collected address info parameter.

`?D,CODE 13` Data field contains an error. Invalid trigger criteria type detected.

`?D,CODE 14` Data field contains an error. Invalid called party ID digit count detected.

`?D,CODE 15` Data field contains an error. Invalid called party ID nature of number detected.

`?D,CODE 16` Data field contains an error. Invalid called party ID numbering plan detected.

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?D,CODE 17	Data field contains an error. Invalid calling party ID digit count detected.
?D,CODE 18	Data field contains an error. Invalid calling party ID nature of number detected.
?D,CODE 19	Data field contains an error. Invalid calling party ID numbering plan detected.
?D,CODE 21	Data field contains an error. Invalid charge party station type detected.
?D,CODE 22	Data field contains an error. IIDIGITS and OLI both input.
?D,CODE 23	Data field contains an error. Invalid original called Processor ID (PID) digit count detected.
?D,CODE 24	Data field contains an error. Invalid original called PID nature of number detected.
?D,CODE 25	Data field contains an error. Invalid original called PID numbering plan detected.
?D,CODE 26	Data field contains an error. Invalid original called PID presentation/screening detected.
?D,CODE 27	Data field contains an error. Invalid redirection PID digit count detected.
?D,CODE 28	Data field contains an error. Invalid redirection PID nature of number detected.
?D,CODE 29	Data field contains an error. Invalid redirection PID numbering plan detected.
?D,CODE 31	Data field contains an error. Invalid redirection information original redirection reason detected.
?D,CODE 32	Data field contains an error. Invalid redirection information redirection reason detected.
?D,CODE 33	Data field contains an error. Invalid redirection information redirection count detected.
?D,CODE 34	Data field contains an error. Invalid redirection information digit count detected.
?D,CODE 35	Data field contains an error. Invalid type of service detected.
?D,CODE 36	Data field contains an error. Unrecognized keyword.
?D,CODE 37	Data field contains an error. Invalid charge number digit count detected.
?D,CODE 38	Data field contains an error. Invalid calling party ID presentation/screening indicator detected.
?D,CODE 39	Data field contains an error. Invalid redirection PID presentation/screening indicator detected.

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`?D,CODE 41`	Data field contains an error. The TMAD0005 Pident found errors.
`?E`	Syntax Error exists in the message but cannot be resolved to the proper field. An invalid keyword combination was discovered.
`PF,CODE 0`	Printout Follows. Teletypewriter (TTY) message accepted and sent.
`PF,CODE 1`	Printout Follows. TTY message accepted waiting further input.
`RL,CODE 2`	Retry Later. Unable to seize a Trunk Maintenance Register (TMR).
`RL,CODE 3`	Retry Later. Previous test in progress.
`RL,CODE 4`	Retry Later. Terminal congestion.
`RL,CODE 5`	Retry Later. Signaling link failure.
`RL,CODE 6`	Retry Later. Audit condition detected in link security.
`RL,CODE 7`	Retry Later. Response timing could not be initiated.
`RL,CODE 8`	Retry Later. System overload.
`RL,CODE 9`	Retry Later. Stream down.
`RL,CODE 11`	Retry Later. Buffer overflow.

5. REFERENCES

PIDENT
AINTMESH
AINTTEST
IOCPIMC4
TMAD0005

Output Message
`TEST:TCAPAIN`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . TEST:TRK
WORK CENTER . . MOC, TOC
GENERIC . . . . . 4E23 Rel. 4 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Performs the specified type of test on the specified trunk or group of trunks.

Examples of **TEST:TRK** input messages follow.

(a) Perform an operational trunk test on all trunks in the office that were automatically placed in the maintenance lockout state. Print all results:

```
TEST:TRK,ALL;OPR:STAT MTC.LKO<AUT>,PALL!
```

(b) Perform an operational trunk test on all trunks in a trunk subgroup that are also on the same scan matrix circuit pack:

```
TEST:TRK,CIN 5CHCG1L1D68A57T;OPR:TSG,SCP!
```

(c) Perform a control office turn-up for the 12 trunks in the CAD.LKO state that have consecutive traffic numbers.

```
TEST:TRK,CIN 1INDHIL02DELLAB;TURNUPC:NUM 12,STAT CAD.LKO!
```

2. FORMAT

[1]
```
TEST:TRK,{OTAN a|TAN b|CIN c|TSN d|CCISTERM e,BAND f};g
[:{CAR|NUM o|SDM|SDP|SCP}[,STAT p][,SKPBY][,{PALL|PNT}]
[,INH][,CCS7CONV]]!
```

[2]
```
TEST:TRK,{OTAN a|TAN b|CIN c|TSN d|CCISTERM e,BAND f};g
[:TSG[,{CAR|SDM|SDP|SCP}][,STAT p][,SKPBY][,{PALL|PNT}]
[,INH][,CCS7CONV]]!
```

[3]
```
TEST:TRK,{TCA r|ALL};g[:[STAT p][,SKPBY][,{PALL|PNT}]
[,INH][,CCS7CONV]]!
```

3. EXPLANATION OF MESSAGE

a — Octal Trunk Appearance Number (**OTAN**) of trunk to test, or trunk in group to test.

b — Decimal format Trunk Appearance Number (**TAN**) of trunk.

c — Circuit Identification Number (**CIN**) of trunk.

d — Decimal Trunk Scanner Number (**TSN**) of trunk; may be qualified as octal if **TSN** `O'd` is used.

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`e` A three-digit decimal number indicating a Common Channel Interoffice Signaling (CCIS) terminal (000 - 255).

`f` A three-digit decimal number indicating a CCIS band (000 - 511).

`g` Types of tests:

`CCK` — Run a continuity check test.

`ATMB h` — ATMEB test on a CCITT5 or CCITT6 trunk; variable is the digits that should be outpulsed. The value is normally 62.

`ATMC i` — ATMEC test on a CCITT5 trunk; variable is the digits that should be outpulsed. The value is normally 63.

This test is available in AT&T offices with the `INH` keyword. This format of the `CCK` test will not cause a loopback at the far-end switch. This test is used to detect the occurrence of a pre-test loopback at the far-end switch.

`CTX2 j` — Run a Centrex II test. Variable is the outpulse digits.

`CTX3 k` — Run a Centrex III test. Variable is the outpulse digits.

`OPR` — Run the operational test specified by translations for the trunk.

`SVC` — Run a service circuit test according to the type of service circuit specified. Tests are available for Multi-Frequency (MF) receivers, MF transmitters, tone detectors, Common Channel Interoffice Signaling (CCIS) transceivers, and the transceiver test circuit.

`SXS l` — Run a step-by-step test. Variable is the outpulse digits.

`SYN m` — Run a synchronous test. Variable is the outpulse digits.

`T103 n` — Run a 103 test; Variable is the digits that should be outpulsed, normally 103.

`TIC` — Common Channel Interoffice Signaling System 6 (CCIS6) translation integrity check and Integrated Services Digital Network (ISDN) User Part (ISUP) circuit validation check tests. Available with the **`CCS7CONV`** option, used during CCIS6 to ISUP conversion.

`TQU` — Run a CCIS6 demand trunk query or ISUP demand circuit query check test.

`TURNUPC` — Turn up control office CCIS6 or ISUP trunk(s). For AT&T switches, if the PF53 feature bit is on, the `TURNUPC` test sequence will contain an additional test (a non-loopback `CCK` test). This test is used to detect the occurrence of a pre-test loopback at the far end switch.

`TURNUPN` — Turn up noncontrol office CCIS6 or ISUP trunk(s).

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CAR 24 trunks, starting with base MOD 24 trunk, will be processed, unless the trunk is on a Voiceband Interface Frame (VIF).

o Decimal number from 1 through 4095 representing number of consecutive trunks to process, depending on type of trunk identity input. If **CIN**, then consecutive traffic numbers are processed; if **OTAN** or **TAN**, then consecutive TANs; if **TSN**, then consecutive TSNs.

SDM Signal Distributor Matrix (**SDM**) pack family; e.g., test all trunks on the Signal Distributor (SD) matrix pack as the trunk that can have the specified test run.

SDP Signal distributor relay pack family.

SCP Scan matrix pack family.

p Old-status specification. This option can only be specified for a group request. It is used to specify testing only for trunks in the specified group (TSG, TCA, ALL, SDM, etc.) that are presently in state p. If **STAT** is not specified, then only active trunks in the group are affected.

Legal old-status values are:

ACT — (This is the default)

ALL

BLK

{**MTC**|**CAD**}[**.BLK**][**.LKO**[<{**MAN**|**AUT**}>]][**.DSA**[<x>]],

Where x is any combination of the following:

AUT — Automatic (e.g., error analysis, test failure).

CAR — Carrier alarm.

ESS™ — Any ESS™-controlled DSA reason (e.g., HAW, CAR, SPF, etc.).

HAW — High and wet.

MAN — Manual.

RBA — Recent change rollback.

SCP — Scan pack matrix family disabled.

SDM — Signal distributor matrix pack family disabled.

SDP — Signal distributor relay pack family disabled.

SPF — Signal processor failure.

TSF — CCIS total signaling failure.

TSI — Duplex Time Slot Interchange (TSI) failure.

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VIU — Voiceband Interface Unit (VIU) failure, no protection switch done.

NOTE: Fields of x may be separated by spaces, but total old-status specification cannot exceed 21 characters. Also note that not all combinations of old status that can be input can actually exist.

NOTE: For a turn-up request, only trunks in a **CAD** state are valid. If **STAT** is not specified for a turn-up request, then any trunks in the group that are not **CAD.DSA** <**MAN**> or **CAD.LKO** <**MAN**> will have an error message printed for them.

The traffic state may also be included for **STAT**. The format and possible traffic states are:

STAT ([p,]**TRAF**<{**2WOPB**|**AUDLIST**|**AUDST**|**CODE**q|**CTRA**|**HWL**|**HWT**|**IDLE**|**OOSI**|**UNA**}>)

2WOPB — 2-way operator busy
AUDLIST — Audit list
AUDST — Audit state
CODE q — Decimal trunk register state code (see item TR4CODE on COMPOOL)
CTRA — Connected to recorded announcement
HWL — High-and-wet list
HWT — High-and-wet timing
IDLE — Idle
OOSI — Out-of-service ignore
UNA — Unassigned

NOTE: The parentheses are not required if old state is not specified and only a traffic state is specified.

SKPBY Skip busy trunks. Do not wait for a trunk to go idle in order to test it; just skip the test on busy trunks.

PALL Print all test results for each trunk encountered in a group test. This will cause All Tests Pass (ATP), failures, skip busy, and any other result to be printed for each trunk on which a test was attempted.

NOTE: If **PALL** is not specified on a group test, then only failing results will be printed, not ATPs or busy trunks skipped via **SKPBY**.

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PNT Print no test. This causes the printing of trunks that were not tested. For example, if **SKPBY** was requested, then **PNT** would cause each trunk skipped to be printed. Note that ATPs are not printed even if **PNT** is specified. Only trunks not tested at all are printed. This option is available only if the **STAT** option is specified. This option does not apply to a turn-up request. A "no test" is considered a failing turn-up test.

TSG All trunks in same Trunk Subgroup (**TSG**) as the specified trunk.

NOTE: If **TSG** appears along with **SDM**, **SDP**, or **SCP**, then only trunks in the **TSG** and in the specified family, after possible **STAT** p screening, will have the specified test run.

r Trunk Control Area (**TCA**) number. All trunks in the control area in **STAT** p that can have the specified test run on them will be tested.

ALL All trunks in the office in **STAT** p that can have the specified test run on them will be tested.

4. SYSTEM RESPONSE

PF Printout Follows. Request is being processed. Output message TEST:TRK will follow.

RL Retry Later. Request cannot be processed at this time. Reasons include failure to queue a single trunk test request and failure to seize a Trunk Maintenance Register (**TMR**) for group requests.

5. REFERENCES

PIDENTs
ATMECNTL
IOCPIMC4
SVCTCTRL
TMAD0005
TMAD0006
TMAD0003
TMADCIST
TOPT0000

Practice 234-180-242, *Service Circuit Test Program (SVCT) - Description*
Practice 234-180-246, *Trunk Testing Programs - Description*

Input Message
STOP:TEST-TRK

Output Message
TEST:TRK

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . TRC:TRK
WORK CENTER . . MOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Traces the status of a trunk, traces and holds a network connection, or releases a trunk previously placed on hold.

NOTE: Both trunks placed on hold (**HLD**) must be released in order to idle both trunks. The release option (**RLS**) does not free up both trunks.

2. FORMAT

TRC:TRK,{**OTAN** a|**TAN** b|**CIN** c|**TSN** d};{**HLD**|**RLS**|**TRC**}**!**

3. EXPLANATION OF MESSAGE

a — Six-digit octal trunk appearance number (**OTAN**) of the trunk.

b — TSI-SP-PORT-CHANNEL trunk appearance number (**TAN**) of trunk:

- CHANNEL — A 3-digit decimal number indicating channel, range 0-127.
- PORT — A 1-digit decimal number indicating port of time slot interchange (TSI), range 0-6.
- SP — A 1-digit decimal number indicating signaling processor (SP) of TSI, range 0-1.
- TSI — A 2-digit decimal number indicating the time slot interchange (TSI) member number, range 00-63.

c — Circuit identification number (**CIN**) of the trunk.

d — SP-ROW-POINT **TSN** of trunk:

- POINT — A 2-digit decimal number indicating the point in the row, range 00-15.
- ROW — A 3-digit decimal number indicating the row in the SP, range 000-255.
- SP — A 2-digit decimal number indicating the SP member number, range 00-31.

NOTE: **TSN** d may be entered in octal by using the form **TSN O'**d.

HLD — Trace trunk and hold the network connection if one exists.

RLS — Release one trunk previously placed on hold.

TRC — Trace the status of the trunk and indicate identity of a connected trunk if one exists (i.e., busy to trunk register only state).

SEE PROPRIETARY NOTICE ON COVER PAGE

4. SYSTEM RESPONSE

?E	Syntax Error exists in the message but cannot be resolved to the proper field.
PF	Printout Follows. Followed by a TRC:TRK output message.
RL	Retry Later. System resources not available.

5. REFERENCES

PIDENTs
TACCORG
TMAD0005

Output Message
TRC:TRK

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . UPD:CMAP
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Starts the CINMAP function. All CINMAPs are sent to the 3B for teleprocessing.

2. FORMAT

`UPD:CMAP;ISC!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`NG`	No Good. Teleprocessing recording of CINMAPs is not allowed.
`PF`	Printout Follows. Followed by a `REPT:CMAP` output message.
`RL`	Retry Later. CINMAP function is already active.

5. REFERENCES

PIDENTs
CMAPCINI
IOCPIMC4

Output Message
`REPT:CMAP`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . UPD:COMMIT
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1A-APS
TYPE . . . . . Input

1. PURPOSE

Requests to commit the system to the UPDFILE version (new generic) or NORMFILE version (old generic) of the 1A file following a system update in an attached processor system (APS) office. A commit to the NORMFILE also locks the UPDFILE version of the 1A file prior to initiating a system update.

2. FORMAT

UPD:COMMIT;{NORMFILE|UPDFILE}!

3. EXPLANATION OF MESSAGE

NORMFILE Commits to the **NORMFILE** after a rollback from an unsuccessful system update. Also used prior to a system update to lock the **UPDFILE** file on the APS.

UPDFILE Commits to the UPDFILE after a successful system update, that is, renames the **UPDFILE** file as the **NORMFILE**.

4. SYSTEM RESPONSE

An attempt will be made to make the specified file the **NORMFILE**, and the file not specified the **UPDFILE**, which will be locked from being accessed. The master control complex (MCC) "UPDATE-IN-PROGRESS" lamp will be extinguished.

PF Printout Follows. A UPD:COMMIT message will follow providing the status of the commit.

RL Retry Later. Job cannot be scheduled.

5. REFERENCES

PIDENT
SYUR

Practice 254-280-270, *System Update Program Description*

Output Messages
UPD:COMMIT
UPD:FS

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . UPD:CORE
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Instructs the system update program (SYUP) to update core memory from the updated file store (FS). This message causes all buffered changes in data bases to be written into core in a single segment break. After this segment, the system will be using the new data base. A peripheral controller (PC) pump will automatically back out of the update by pumping with old data.

This message must be preceded by `UPD:FS-GEN` input message.

2. FORMAT

`UPD:CORE!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`?I`	Identification field contains an error. Extra keywords in message.
`NG`	No Good. No system update procedure is in progress.
`PF`	Printout Follows. A message of the form `UPD:CORE` will be printed.
`RL`	Retry Later. One essential disk file is out of service.

NOTE: For description of master control complex (MCC) codes, see `UPD:FS-GEN` message.

5. REFERENCES

PIDENTs
SYUP
SYUR
SYURPS20

Practice 234-160-001, *Generic Retrofit and Update*
Practice 254-280-270, *System Update Program Description*

Input Message
`UPD:FS-GEN`

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Message
UPD:CORE

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . UPD:ERAP
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Updates portions of the error analysis file store (FS) data base.

2. FORMAT

UPD:ERAP {POINTERS|FSDATA}!

3. EXPLANATION OF MESSAGE

POINTERS Core copies of the error analysis maintenance file number, unprocessed data pointer, and processed data pointer are updated from FS. This case is typically used after error analysis program (ERAP) data has been read into FS from tape (see COPY:TAPE input message).

FSDATA All records previously marked for deletion via a CLR:ERAPDATA message are now deleted from storage. This usually causes a relocation of the remaining records, but it does not affect the retrieval process from the user's viewpoint.

4. SYSTEM RESPONSE

OK Good. Completion response for **POINTERS**.

PF Printout Follows. Followed by the UPD:ERAP output message for **FSDATA**.

5. REFERENCES

PIDENTs
ERAP
ERIF

Practice 254-280-320, *Error Analysis Program*
Practice 254-200-215, *Error Analysis Program Application*

Input Messages
ALW:ERAP
AUD:ERAPDATA
CLR:ERAPDATA
COPY:TAPE
INH:ERAP

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Message
UPD:ERAP

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . UPD:FS-GEN
WORK CENTER . . MOC
GENERIC . . . . . 4E20 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Initiates the request to the System Update Program (SYUP) to process a generic tape for either a full system update or a partial system update, and places the data on a previously selected set of file stores. **UPD:FS;GEN PARTIAL** is also used to start the BIG GULP process. No changes will be made to the existing data base until UPD:CORE! is input. This message is not to be confused with the System Audit Of Stores Using Tape (SAST) message UPD:GEN.

2. FORMAT

UPD:FS;GEN {a|**PARTIAL**}**!**

3. EXPLANATION OF MESSAGE

a	New generic to be read in (1 to 21 characters).
PARTIAL	Used when loading BIG GULP.

4. SYSTEM RESPONSE

?E	Syntax Error exists in the message but cannot be resolved to the proper field.
?I	Identification field contains an error. Too many characters in generic ID.
MCC CODES	The "EAI FAIL DATA DISPLAY CODE" on the Master Control Complex (MCC) page. In addition to Teletypewriter (TTY) messages, SYUP will also periodically direct numeric codes to the "EAI FAIL DATA DISPLAY CODE" on the MCC. Since SYUP requires a long time to process tapes, these MCC codes will indicate progress markers to inform the craft that the processing is continuing. After halting call processing, if the UPD:CORE message is entered, TTY communications are lost and the MCC provides the only information relative to the progress (or failure) of the core overwrite. SYUP will display the UPDATE IN PROG indicator and will write an 8-digit progress code in the EAI FAIL DATA DISPLAY CODE on the MCC Emergency Action Interface (EAI) page.

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The progress code has the format:

1 4 0	4 4 1 0 1
Progress Code	Data Field

The codes and corresponding descriptions are given in the table.

PF	Printout Follows. The "UPD IN PROG" lamp on the MCC will be displayed.
RL	Retry Later. No available general buffer area; one essential file store is out-of-service.

5. REFERENCES

PIDENTs
SYUP
SYUR
SYURPS20

Practice 234-160-001, *Generic Retrofit and Update*
Practice 254-280-270, *System Update Program Description*

Input Messages
`STOP:UPD-FS`
`UPD:CORE`
`UPD:FS-GEN`
`UPD:GEN`

Output Message
`UPD:FS`

SEE PROPRIETARY NOTICE ON COVER PAGE

Prog-ress Code	Description	Data Field
110	Page entered from Maintenance Control Program (MACP). Paging operation was successful. SYUP will now make some preliminary checks.	Null.
120	No file stores selected for update. A selection must be made via MCC within number of seconds shown in data field or SYUP will abort.	Number of seconds (octal) remaining to make file store selection.
121	Unlock the update file.	Timer showing number of seconds to complete.
122	Unlock the update file and copy NORM file to the update file.	Timer showing number of seconds to complete.
130	All preliminary checks pass. SYUP preparing to read data from tape.	Type of tape: 4 — Office Database Assembler (ODA) 10 — Generic
140	SYUP is currently reading the tape.	File number (octal) and record number (octal) currently being processed. File number is shown in the 2 left-most digits of the data; record number is shown in the right-most 3 digits.
160	SYUP is rewinding tape.	Null.
170	Entire tape has been processed. SYUP awaiting further instructions.	Number of seconds (octal) remaining in 10-minute wait period.
210	Merge procedure started. SYUP will now extract all CS2FS data and hash sums of backed up core data not input on tape(s).	One bit for the ID tag of each type of data present on input tape(s). 2 — Generic 10 — ODA 12 — Generic and ODA
220	CS2FS extraction complete. SYUP will now extract all ID2FS data and hash sums of disk only data not input on tape(s).	One bit for the ID tag of each type of data present on input tape(s). 2 — Generic 10 — ODA 12 — Generic and ODA

SEE PROPRIETARY NOTICE ON COVER PAGE

Prog-ress Code	Description	Data Field
230	ID2FS extraction complete. SYUP will now extract all necessary hash sum collision blocks.	One bit for the ID tag of each type of data present on input tape(s). 2 — Generic 10 — ODA 12 — Generic and ODA
300	Merge instructions have been received. SYUP will proceed with merge procedure.	Null.
310	If extraction was necessary, it has completed. SYUP now ready to begin merging ID2FS table.	One bit for the ID tag of each type of data present on the tape(s) input. 2 — Generic 10 — ODA 12 — Generic and ODA
320	ID2FS map has been merged (but not checked for overlaps). SYUP now ready to begin merging CS2FS table.	One bit for the ID tag of each type of data present on the tape(s) input. 2 — Generic 10 — ODA 12 — Generic and ODA
330	CS2FS map has been merged and checked for consistency. SYUP now ready to begin range overlap check of ID2FS map.	Null.
340	ID2FS map contains no range overlaps. SYUP ready to calculate absolute address versions of maps and place them on disk.	Null.
350	ID2FS, CS2FS maps on disk. SYUP ready to merge hash sums.	Null.
360	Hash sums merged. All hash sums for COMPOOL or ODA defined disk areas are initialized. SYUP ready to order hash sum collision blocks.	Null.
370	Collision blocks ordered. SYUP ready to calculate special hash sums and move hash sums and head table to disk.	Null.

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Prog-ress Code	Description	Data Field
374	The updated file store is being initialized.	File store ID (octal) and relative address in the new ID2FS map of the range block for the ID that is being initialized. ID number is in the 2 left-most digits and range block address is in the 3 right-most digits.
377	All system maps have been successfully built. Input tapes are compatible. Test merge will now end and no change to core will be made.	Null.
400	Begin a real-time break. SYUP releasing control to MACP.	Relative address in SYUP to which control should return.
410	New segment successfully started. SYUP will now continue processing.	Relative address in SYUP to which control will be given.
510	All maps have been successfully merged. SYUP will continue procedure to update core. SYUP ready to clear all disk write requests from queue preparatory to file store mapping.	Number of attempts to clear queue.
520	Disk writes successfully cleared. SYUP ready to give control to application program to perform file store mapping.	Number of half second periods (octal) that mapping has been in progress.
524	Duplicate call stores are being zeroed and placed in maintenance mode prior to data mapping.	KCODE being zeroed.
530	File store mapping successful. Duplicate call stores configured for core mapping. SYUP ready to give control to application program to perform core mapping.	Number of half second periods (octal) that mapping has been in progress.
600	Core mapping failed.	Error code from application mapping routine.
601	PS0 pump failed.	Null.
602	Request for pump failed.	KCODE of failing store.
603	Program Store (PS) bootstrap failed.	Null.
604	Call Store (CS) bootstrap failed.	Null.
605	File store mapping failed.	Error code from application mapping program.
607	Auxiliary Unit (AU) status update failed.	Null.
610	File store mapping timeout.	Number of seconds (octal) that mapping was in progress.

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Prog-ress Code	Description	Data Field
611	Core mapping timeout.	Number of seconds (octal) that mapping was in progress.
710	SYUP ready to cancel all disk requests.	Null.
720	All interrupts pested. Call processing will stop. SYUP about to switch updated file stores into service, old file stores out of service.	Null.
721	Partial update. File stores successfully switched. Overwrites about to be written to core.	Null.
722	Partial update. Overwrites successfully written to core. New maps about to be written to core.	Null.
731	Full update. File stores successfully switched. SYUP ready to initialize file store hardware for pump.	Null.
732	Full update. File store hardware successfully initialized. SYUP will now set up disk request to fill PS0.	20
733	PS0 successfully pumped. Note that new vector table and new versions of PS0 programs will be used by SYUP. SYUP ready to pump CSn.	Null.
734	CSn successfully pumped. SYUP ready to configure new PS community.	Null.
735	PS community has been successfully configured according to new CSn data. SYUP now ready to configure new CS community.	Null.
736	Store community has been successfully configured according to new translation data. SYUP now ready to pump remaining stores.	KCODE being pumped.
741	All stores successfully pumped. SYUP now ready to release System Audit Of Writable Stores (SAWS) lockout.	Null.
747	SYUP preparing to run designated phase.	Null.
777	System is updated. SYUP transferring to application phase program. Control will not return to SYUP, since phase will clear MACP memory.	Bit corresponding to phase requested. 2 — phase 1 4 — phase 2 10 — phase 3 20 — phase 4

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . UPD:GEN
WORK CENTER . . MOC
GENERIC . . . . . 4E19 through 4E21
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Loads the generic data by using a tape mounted on the specified tape unit. This function is used when there is extensive mutilation of disk data. Enter this message immediately following these two commands:

```
SET:TUC a;FUNCTION UPD!
ALW:TUC a;RO!
```

A complete set of tapes must be loaded - GEN, ODA. The generic tape must be loaded first.

A file selection must be made via the Master Control Complex (MCC) Emergency Action Interface (EAI) page in the file select pokes, select the normal file key.

With an APS application, the load process requires the system to be in 1B file access duplex failure. If file access is active when **`UPD:GEN;UCL!`** is entered, an output message will be printed requesting further instructions (see output message `UPD:0`). To proceed, enter **`UPD:GEN;UCL!`** again, and the system will automatically be put into file access duplex failure. An output message then will direct the user to begin tape paging procedures (see output message `UPD:0`).

Do not confuse this message with the input message: `UPD:FS;GEN a!`

2. FORMAT

`UPD:GEN;UCL!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`NG`	No Good. Program already in progress.
`PF`	Printout Follows. An output message, `UPD:0,` will indicate the system response to the message.

5. REFERENCES

PIDENTs
SASR
SAST

SEE PROPRIETARY NOTICE ON COVER PAGE

Input Messages

```
ALW:TUC
SET:TUC
UPD:FS-GEN
```

Output Message

```
UPD:0
```

SEE PROPRIETARY NOTICE ON COVER PAGE

WARNING
INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

ID . . . . . UPD:HDATA
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

WARNING
Caution should be exercised when using this message so as not to permanently lose capabilities in the main memory or file system.

1. PURPOSE

Initiates step 3 (the final step) of permanent overwrite procedure. Causes new hash sums to be calculated for the affected areas of memory. For backed-up core data, the file systems are also updated. The inhibit on the writable store audit is released.

The "UPDATE IN PROG" lamp on Master Control Complex (MCC) will be turned off.

NOTE: This message may only be entered from the switching machine Maintenance (MTC) channel or the Switching Control Center (SCC1) channel. If the MTC channel is out of service, the message will then be allowed from the Secondary Record (SREC1) channel.

2. FORMAT

`UPD:HDATA!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`?C,CODE 136` Channel is not valid for this message. **`UPD:HDATA`** may be input only from the maintenance channel (or its backup if the maintenance channel is out of service) or the Switching Control Center (SCC1) channel. Before entering message, check for audit printouts or interrupts to assure overwrite is correct.

`?R,DPLX FAIL` Insufficient system Resources are available to determine the validity of the message. Generic Utility Program (GULP) cannot be paged to parse the message because the file system is duplex failed.

`NG,CODE 130` No Good. System Audit of Writable Stores (SAWS) lockout. Another MERGE changing client (tape writing program, Recent Change Verify (RCV), tape audit, etc.) is in progress. Wait for program to finish, then re-enter.

`NG,CODE 131` No Good. Overwrite procedure was not initiated on this channel.

`NG,CODE 132` No Good. Previously input `COPY:OWBUF` request has not yet completed.

SEE PROPRIETARY NOTICE ON COVER PAGE

NG,CODE 133	No Good. Hash mismatch on COPY:OWBUF. Enter STOP:OVRWRT.
NG,CODE 134	No Good. Previously input **UPD:HDATA** request has not yet completed.
NG,CODE 135	No Good. Overwrite procedure is not in progress.
NG,CODE 137	No Good. A COPY:OWBUF message must be input.
NG,CODE 153	No Good. Hash update by SAWS failed. Enter STOP:OVRWRT. System Audit of Stores Using Tape (SAST) must be run to correct hash errors.
PF,CODE 050	Printout will conditionally follow. This acknowledgement is used if file system is duplex failed and GULP is being paged from tape.
PF,CODE 091	Printout will conditionally follow.
RL,CODE 180	Retry Later. Execution of GULP function is in progress.
RL,CODE 181	Retry Later. Message processing in progress. Wait until it completes (may be a flag waiting for additional input), then re-enter.
RL,CODE 182	Retry Later. Data set input mode in progress on another channel. Wait until it completes, then re-enter.
RL,CODE 183	Retry Later. Data set execution mode in progress. Wait until it completes, then re-enter.
RL,CODE 185	Retry Later. No General Buffer Table (GBT) available or failure to page in GULP.

5. REFERENCES

PIDENTs
GULPOWRT
GULRUTCR

Practice 234-301-003, *1B Processor Generic Utility Program (GULP) Application - Description*

PA-4A002-01, *4ESS™ User's Manual*, Generic Utility Section

Input Messages
COPY:OWBUF
IN:OWBUF
STOP:OVRWRT

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . UPD:LIBSYS
WORK CENTER . . MOC
GENERIC . . . . . 4E19 through 4E21
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Updates the library program file store (FS) area by repacking the library packages to eliminate fragmentation. Updates both the library file store directory table (with the new file store addresses of the library programs) and the file store availability table.

2. FORMAT

`UPD:LIBSYS!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`PF` Printout Follows. The packing operation has been started and the final disposition will be reported by an `UPD:LIBSYS` output message.

`RL` Retry Later. Another library control function is presently in progress (`LOAD`, `INIT`, **`UPD:LIBSYS`**, `OP:LIBSTAT`, and `IN:OWBUF` [lib]).

5. REFERENCES

PIDENT
LIBRLOAD

Practice 254-280-214, *Library Control Program*

Input Messages
`IN:OWBUF`
`INIT:LIBSYS`
`OP:LIBSTAT`

Output Message
`UPD:LIBSYS`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . UPD:ODA
WORK CENTER . . MOC
GENERIC . . . . . 4E19 through 4E21
CLASS . . . . . PMTC
APPLICATION . . 4E, 1B
TYPE . . . . . Input

1. PURPOSE

Loads the office data by using a tape mounted on the specified tape unit. This function is typically used to restore a file system after a duplex failure. Enter this message immediately following these two commands:

```
SET:TUC a;FUNCTION UPD!
ALW:TUC a;RO!
```

To recover the file system, a complete set of tapes must be loaded in the following sequence: Generic (GEN), Office Data(base) Assembler (ODA). File selection must be selected for loading via the Master Control Complex (MCC).

2. FORMAT

`UPD:ODA;UCL!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`NG`	No Good. Program already in progress.
`PF`	Printout Follows. An output message, `UPD:0`, will indicate the system response to the message.

5. REFERENCES

PIDENTs
SASR
SAST

Input Messages
`ALW:TUC`
`SET:TUC`

Output Message
`UPD:0`

SEE PROPRIETARY NOTICE ON COVER PAGE

WARNING
INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

ID . . . . . UPD:SCS
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

WARNING
Any calls connected to the SCS will be dropped during a generic update.

1. PURPOSE

The purpose of this update message is to replace the software in one Service Circuit System (SCS) controller with another software version and make the controller active. When the initial system configuration is duplex both controllers will be updated with the new software version. This message would normally be used as part of a system-wide generic retrofit or an SCS software upgrade.

Format [1] is used to update an SCS controller from the disk of the first available in-service Service Circuit Unit (SCU).
Format [2] is used to update an SCS controller from the disk of a specific SCU.

2. FORMAT

[1] **UPD:SCS** a,**CONTR** b,**SVN** c!

[2] **UPD:SCS** a,**CONTR** b,**SVN** c,**SCU** d!

3. EXPLANATION OF MESSAGE

a	Is the **SCS** member number (0 - 7).
b	Is the controller to be loaded with the new software (0 - 1).
c	Is the source file version number on the SCU disk (0 - 3).
d	Is the **SCU** member number from which the new software is to be obtained (0 -15).

4. SYSTEM RESPONSE

?D	Data field contains an error. The update request has been denied because a required keyword argument is missing.
?E	Syntax Error exists in the message but cannot be resolved to the proper field. The update request was rejected because the program was unable to parse the input message.
?I	Identification field contains an error. The update request has been denied because of one of the following: 1. A required keyword is missing.

SEE PROPRIETARY NOTICE ON COVER PAGE

2. A keyword argument is out-of-range.
3. Extra keywords or keyword arguments were specified.

PF — Printout Follows. The update request has been accepted. Output messages will follow to indicate the status of the controller update.

RL — Retry Later. The update request has been denied because there are too many tasks in progress.

5. REFERENCES

PIDENT
SCSCFSCU

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . UPD:UTILDS
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Edits an existing utility data set.

Format [1] is used to renumber the lines in the data set.
Format [2] is used to replace a specified line with another on a one for one basis, or, to add a line (replacement or added lines must be input within 120 seconds).
Format [3] is used to delete one or more lines.
Format [4] is used to insert one to nine lines after a specified line.
Format [5] is used to stop the update of the dataset.

2. FORMAT

[1] **UPD:UTILDS** a;**FILE!**

[2] **UPD:UTILDS** a,**LINE** b;**REPLACE!**

[3] **UPD:UTILDS** a,**LINE** c;**DLT!**

[4] **UPD:UTILDS** a,**LINE** b;**ADD!**

[5] **STOP:UPD;UTILDS!**

3. EXPLANATION OF MESSAGE

a	Name of existing data set (1 to 9 alphanumeric characters, the first of which must be a letter).
b	Valid line number for given data set.
c	Valid line number for given data set or a range of valid line numbers.
FILE	Renumber the lines in the data set.
REPLACE	Replace line b with the next line input.
DLT	Delete the lines specified by c from the data set.
ADD	Add from one to nine of the following lines that are input to the data set following the line specified by b.

4. SYSTEM RESPONSE

?I,CODE 012	Identification field contains an error. Data set does not exist.

SEE PROPRIETARY NOTICE ON COVER PAGE

`?R,DPLX FAIL`	Insufficient system Resources are available to determine the validity of the message. Generic utility program (GULP) cannot be paged to parse the message because the file system is duplex failed.
`NG,CODE 008`	No Good. Number of lines to insert exceeds 9.
`NG,CODE 010`	No Good. No data set input mode in progress.
`NG,CODE 019`	No Good. Invalid line number.
`OK,CODE 090`	Good. Request complete.
`OK,CODE 092`	Good. Line(s) has been placed in data set.
`PF,CODE 050`	Printout will conditionally follow. This acknowledgement is used if file system is duplex failed and GULP is being paged from tape.
`PF,CODE 091`	Printout will conditionally follow.
`RL,CODE 180`	Retry Later. Execution of GULP function is in progress.
`RL,CODE 181`	Retry Later. Message processing in progress.
`RL,CODE 182`	Retry Later. Data set input mode in progress on another channel.
`RL,CODE 183`	Retry Later. Data set execution is in progress.
`RL,CODE 185`	Retry Later. No general buffer table (GBT) available or failure to page in GULP.

5. REFERENCES

PIDENTs
GULPDSET
GULRUTCR

Practice 234-301-003, *1B Processor Generic Utility Program (GULP) Application - Description*

PA-4A002-01, *4ESS™ User's Manual*, Generic Utility Section

Input Message
`IN:UTILDS`
`STOP:UPD-UTL`

Output Message
`UPD:UTILDS`

SEE PROPRIETARY NOTICE ON COVER PAGE

WARNING
INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

ID . . . . . UPD:XTSI
WORK CENTER . . MOC
GENERIC . . . . . 4E24 Rel. 2 and later
CLASS . . . . . PUMTC
APPLICATION . . 4E
TYPE . . . . . Input

WARNING
The UCL option is not recommended for normal usage. Use only as directed when there is a problem making the frame Duplex.

1. PURPOSE

This update message replaces the software in an Expanded Time Slot Interchange (**XTSI**) controller or its subunits with another software version, then makes the controller or its subunits active. When the initial system configuration is Duplex (both controllers in-service) both controllers will be updated with the new software version. This message would normally be used as part of a system-wide generic retrofit or an **XTSI** software upgrade.

Format [1] is used to update **XTSI** controllers with a specific program version from the flash memory on the in-service Standby controller of **XTSI**. The Standby **XTSI** controller will be updated, then made Active (there will be a controller activity switch). The software version obtained from the flash memory is **XTSI** Controller (**XTC**) operational software. The configuration state of **XTSI** frame must be Duplex.

Format [2] is used to update the **XTSI** controller with a specific program version from the flash memory on a controller of **XTSI**. The software version obtained from the flash memory is XTC operational software. The configuration state of **XTSI** frame can be Duplex or Simplex (one controller in-service; other controller Out-Of-Service [OOS]).

— If the **XTSI** is a Simplex, the XTC operational software file will be obtained from the flash memory on the Out of Service controller. The **UCL** option for simplex state is not for the OOS controller due to hardware failure. It may be used when a generic software can not bring up a frame to duplex state.

— If the **XTSI** is a Duplex, the XTC operational software file will be obtained from the flash memory on the in-service Standby controller.

Format [3] is used to update an **XTSI** subunit, Digital Signal Level 3 Unit (**D3U**), with a specific program version from the flash memory on an in-service Active controller of **XTSI**. The program file obtained from the flash memory is **D3U** operational software. The configuration state of **XTSI** frame can be Simplex or Duplex and the **D3U** must have its spare **D3U** unit available (i.e. not out-of-service). If the **D3U** Protection Switch (PS) spare unit (**D3U 6** or **D3U 7**), it must not be switched in and protecting a **D3U** client.

Format [4] is used to update an **XTSI** subunit, Signal Processing Unit (**SPU**), with a specific program version from the flash memory on an in-service Active controller of **XTSI**. The program file obtained from the flash memory is **SPU** operational software. The configuration state of **XTSI** frame can be Simplex or Duplex and the **SPU** must have its

SEE PROPRIETARY NOTICE ON COVER PAGE

spare **SPU** unit available (i.e. not out-of-service). If the **SPU** Protection Switch (PS) spare unit (**SPU 10** or **SPU 11**), it must not be switched in and protecting a **SPU** client.

Format [5] is used to update an **XTSI** subunit, In-Band Unit (**IBU**), with a specific program version from the flash memory on an in-service Active controller of **XTSI**. The program file obtained from the flash memory is **IBU** operational software. The configuration state of **XTSI** frame can be Simplex or Duplex.

2. FORMAT

[1] **UPD:XTSI** a,**XTC,SVN** c**!**

[2] **UPD:XTSI** a,**XTC,SVN** c**;UCL!**

[3] **UPD:XTSI** a,**D3U** b,**SVN** c**!**

[4] **UPD:XTSI** a,**SPU** d,**SVN** c**!**

[5] **UPD:XTSI** a,**IBU 0,SVN** c**!**

3. EXPLANATION OF MESSAGE

a	**XTSI** member number (0-63).
b	**D3U** number (0-7).
c	Is the Source File Version (**SVN**) number on the flash memory (0-1). Only version numbers 0 and 1 are valid field assignments.
UCL	Unconditional.
d	**SPU** number (0-11).

4. SYSTEM RESPONSE

?D	Data field contains an error. The update request has been denied because a required keyword argument is missing.
?E	Syntax Error exists in the message but cannot be resolved to the proper field. The update request was rejected because the program was unable to parse the input message.
?I	Identification field contains an error. The update request has been denied because either a required keyword is missing, a keyword argument is out-of-range, or extra keywords or keyword arguments were specified.
PF	Printout Follows. The update request has been accepted. Output messages will follow to indicate the status of the controller update.
RL	Retry Later. The update request has been denied because there are too many tasks in progress.

SEE PROPRIETARY NOTICE ON COVER PAGE

5. REFERENCES

PIDENT
XTSGNUPD

Output Message
`UPD:XTSI`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID VER:0
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Requests verification of data in the miscellaneous scanner number (MSN) or miscellaneous distributor number (MDN) translator.

The signaling processor (**SP**) contains miscellaneous scan and signal distributor points which are identified by MSNs and MDNs, respectively. The MSN translator stores one word of data per MSN, which is primarily used when an MSN report is received from an SP to decide what action should be taken. The MDN translator is used to store data which identifies the user of MDNs and initialization states on a distributor point basis. This translator is primarily used by the program to initialize points to their proper state.

There are two basic types of data in the MSN and MDN translator. These are trunk related and nontrunk related. If the MSN or MDN is trunk related, translation data will include a trunk program index (TPI) and a trunk scanner number (TSN). The TPI will be used to transfer control to the appropriate program for action. The TSN identifies the trunk or trunks associated with the MSN or MDN. For MSNs or MDNs that are not related to a trunk, the translation data includes a non-trunk program index (NTPI) and a unit type and member number identification. The NTPI or miscellaneous program index (MPI) is used in a way that is similar to the TPI. These indicators specify the disposition of the scan point report.

For MSNs that are not related to a trunk, the translation data includes a MPI and miscellaneous data (e.g., TASI frame and clique number).

2. FORMAT

VER:a**:SP** c**,MML** d**,ROW** e**,COL** f**!**

3. EXPLANATION OF MESSAGE

a	MDN — Miscellaneous distributor number.
	MSN — Miscellaneous scanner number.
b	CUR — Indicates this data currently resided in the translation area.
	INA — Specifies that the data exists in the "test" state of the recent change system.
c	Signal processor (0-31).
d	Matrix (0 or 1).
e	Row (0-63).

SEE PROPRIETARY NOTICE ON COVER PAGE

`f`	Column (0-15).

4. SYSTEM RESPONSE

`PF`	Printout Follows.
`RL`	Retry Later.

5. REFERENCES

PIDENTs
- VRFYCNTL
- VRFYINPT
- VRFYMISC
- VRFYOUT

Translation Guide, 4ESS™, TG-4, Division 8, Section 6i

Output Message
- `VER:MSN`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:ABSOLUTE
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E21 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Requests the the contents of memory used for office data at the address, or range of addresses. When **CORE** is used, the address is a main core address. When **FS** is used, the address is a file segment 0 disk address. When **XS** is used, the address is a file segment 1 backup disk address.

2. FORMAT

VER:ABSOLUTE:ADR a,{**CORE**|**FS**|**XS**}[,**L** b]!

3. EXPLANATION OF MESSAGE

a	Address or range of addresses to be displayed. This must be a single address if the keyword **L** is also used.
CORE	Display contents of main call store memory.
FS	Display contents of file store.
XS	Display contents of extended call store memory.
b	Number of consecutive memory locations to be listed (1 - 1024).

4. SYSTEM RESPONSE

PF	Printout Follows.
RL	Retry Later.

5. REFERENCES

PIDENTs
VRFYCNTL
VRFYINPT
VRFYMISC
VRFYOUT

Translation Guide, 4ESS™, TG-4, Division 8, Section 18a

Output Message
VER:ABSOLUTE

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:ADSLINK
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

To request data pertaining to the automatic number identification (ANI) delivery service (ADS) feature.

2. FORMAT

`VER:ADSLINK:ADSI` `aa!`

3. EXPLANATION OF MESSAGE

`a`	ANI delivery service data link index (**`ADSI`**) (1-16).

4. SYSTEM RESPONSE

`PF`	Printout Follows. Followed by a `VER:ADSLINK` output message.
`RL`	Retry Later.

5. REFERENCES

PIDENTs
VRFYINPT
VRFYMISC
VRFYOUT

Translation Guide, 4ESS™, TG-4, Division 8

Output Message
`VER:ADSLINK`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:AIN-LIST
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E19 Rel. 2 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

To display the code group domain, area code indicator, and type of service index associated with the advanced intelligent network (AIN) trigger.

2. FORMAT

`VER:AIN:LIST` `{a|(a,a,...)|a-a}!`

3. EXPLANATION OF MESSAGE

`AIN`	Advanced intelligent network.
`a`	Trigger number (1-8191), which may be a single number, a list or a range, or a combination of a range and a list of announcement numbers. A list or a combination must be enclosed in parentheses.

4. SYSTEM RESPONSE

`PF`	Printout Follows. Followed by a `VER:AIN-LIST` output message.
`NA`	Not Accepted.

5. REFERENCES

PIDENTs
IOCPIMC4
VRFYCNTL
VRFYINPT
VRFYOUT
VRFYRTNG

Translation Guide, 4ESS™, TG-4, Division 8, Section 13T

Output Message
`VER:AIN-LIST`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:AMA
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Verifies automatic message accounting (AMA) information, and prints call code and structure code mapping information.

2. FORMAT

VER:AMA a!

3. EXPLANATION OF MESSAGE

a	**AMA** index (0-999). Input can be single, multiple, or a range of indexes.

4. SYSTEM RESPONSE

PF	Printout Follows.
RL	Retry Later.

5. REFERENCES

PIDENTs
IOCPIMC4
VRFYCNTL
VRFYINPT
VRFYMISC
VRFYOUT

Translation Guide, 4ESS™, TG-4, Division 8

Output Message
VER:MISC-AMA

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:AMACODE
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Verifies automatic message accounting (AMA) information, and prints call code and structure code mapping information.

2. FORMAT

`VER:AMACODE` `a!`

3. EXPLANATION OF MESSAGE

`a`	AMA index (0-999). Input can be single, multiple, or a range of indexes.

4. SYSTEM RESPONSE

`PF`	Printout Follows.
`RL`	Retry Later.

5. REFERENCES

PIDENTs
IOCPIMC4
VRFYCNTL
VRFYINPT
VRFYMISC
VRFYOUT

Translation Guide, 4ESS™, TG-4, Division 8

Output Message
`VER:MISC-AMA`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:ANINDEX
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

To verify the requested announcement (ANN) index with the announcement treatment.

2. FORMAT

`VER:ANINDEX` `a!`

3. EXPLANATION OF MESSAGE

`a`	ANN index (0-255). Input can be single, multiple, or a range of indexes.

4. SYSTEM RESPONSE

`PF`	Printout Follows.
`RL`	Retry Later.

5. REFERENCES

PIDENTs
IOCPIMC4
VRFYCNTL
VRFYINPT
VRFYMISC
VRFYOUT

Translation Guide, 4ESS™, TG-4, Division 8

Output Message
`VER:MISC-ANN`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:CAMASCRN
WORK CENTER . . MAC, MOC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Displays **CAMASCRN** data. Five data lists of current data are available.

Format [1] is used to display a list of telephone numbering plan areas (TNPAs) associated with a specific **OLCIGI**.
Format [2] is used to display a list of terminating office codes blocked for a specific terminating numbering plan area (NPA).
Format [3] is used to display a list of originating office codes, pass originating validity checks, and originating local call intercept (LCI) group indices.
Format [4] is used to display a list of unauthorized area codes.
Format [5] is used to display a list of unauthorized office codes.

2. FORMAT

[1] **VER:CAMASCRN:OLCIGI** a**!**

[2] **VER:CAMASCRN:OLCIGI** a**,TNPA** b**!**

[3] **VER:CAMASCRN:TG** c**!**

[4] **VER:CAMASCRN:UNAREA!**

[5] **VER:CAMASCRN:UNAOFC!**

3. EXPLANATION OF MESSAGE

a	Originating LCI group index (2 through 255).
b	Terminating NPA (200 through 999).
c	Trunk group (circuit identification number [CIN] without traffic number).
UNAREA	Unauthorized area code list requested.
UNAOFC	Unauthorized office code list requested.

4. SYSTEM RESPONSE

PF	Printout Follows.
RL	Retry Later.

SEE PROPRIETARY NOTICE ON COVER PAGE

5. REFERENCES

PIDENTs
VRFYCAMA
VRFYCNTL
VRFYINPT
VRFYOUT

Translation Guide, 4ESS™, TG-4, Division 8

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:CCDADC
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

To display the acceptable digit count for the input country code digit.

Lists all the acceptable digit count assigned for the given country code digit(s) used by common channel signaling system number 7 (CCITT7) overlap signaling.

2. FORMAT

VER:CCDADC:CCD a!

3. EXPLANATION OF MESSAGE

a	Country code digit. Acceptable input can be one, two or three digits (0-999). This input may or may not be a valid country code.

4. SYSTEM RESPONSE

PF	Printout Follows.
NA	Not Accepted.

5. REFERENCES

PIDENTs
IOCPIMC4
VRFYCNTL
VRFYINPT
VRFYIRTG

Output Message
VER:CODEGRP-CCDA

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:CCDCONV
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

To list the entries in table HT4CCCONV that are indexed by the specified ABC digits. The corresponding output message displays the data for assigned country code or pseudo country-code entries.

2. FORMAT

VER:CCDCONV:ABC {a|(a-a)|(a,a,a)} [**CUR**|**INA**|**BOTH**]**!**

3. EXPLANATION OF MESSAGE

a	ABC digits that index the table HT4CCCONV entries. This entry may be a single item, a range or a list.
CUR	Currently active entries to be listed.
INA	Inactive entries to be listed.
BOTH	Both inactive and current entries to be listed.

4. SYSTEM RESPONSE

PF	Printout Follows.
RL	Retry Later.

5. REFERENCES

PIDENTs
VRFYCNTL
VRFYINPT
VRFYIRTG
VRFYOUT

Translation Guide, 4ESS™, TG-4, Division 8, Section 11

Output Message
VER:CDGRP-CCDCON

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:CDB-ANI
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

To display the matching customer data block indices (CDBIs) that are assigned to the input automatic number identification (ANI) number.

2. FORMAT

`VER:CDB:ANI` `a!`

3. EXPLANATION OF MESSAGE

`CDB`	Customer data block.
`ANI`	Customer billing number.
`a`	A ten digit number.

4. SYSTEM RESPONSE

`PF`	Printout Follows. Followed by a `VER:CDB-ANI` output message.
`RL`	Retry Later.

5. REFERENCES

PIDENTs
IOCPIMC4
VRFYCNTL
VRFYCRD
VRFYINPT

Translation Guide, 4ESS™, TG-4, Division 8, Section 16av

Output Message
`VER:CDB-ANI`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:CDB-CDBI
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Verifies customer data block (CDB) information and prints billing data.

2. FORMAT

`VER:CDB:CDBI` `a!`

3. EXPLANATION OF MESSAGE

`CDBI`	Display customer data block index.
`a`	Customer data block index (0-4095). Input can be single, multiple, or a range of indices.

4. SYSTEM RESPONSE

`PF`	Printout Follows. Followed by a `VER:CDB` output message.
`RL`	Retry Later.

5. REFERENCES

PIDENTs
IOCPIMC4
VRFYCNTL
VRFYCRD
VRFYINPT
VRFYOUT

Translation Guide, 4ESS™, TG-4, Division 8

Output Message
`VER:CDB`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:CODEGRP
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E25 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Verifies a code group by displaying routing treatment and, optionally, the Routing Data Block (RDB) associated with the requested code, or by displaying the screening clock.

Format [1] is used to verify the code grouping translator.
Format [2] is used to verify the digit type translator.
Format [3] is used to verify the international routing translator.

2. FORMAT

[1] **VER:CODEGRP**[;**ALL**]:[**DOM** a,][**AC** b,]**ABC** c[,**ST1** d,**IDX1** e]
[,**LINENO** f][,**ST2** g,**IDX2** h][,**DEF** i[,**GHI** j[,**JKL** k]]][,**RDB**]**!**

[2] **VER:CODEGRP:DIGTYP** l[,**RDIG** m]**!**

[3] **VER:CODEGRP**[;**ALL**]:[**DOM** n,]**CCD** o[,**ST1** d,**IDX1** e]
[,**ST2** g,**IDX2** h][,**DCNT** p][,**LD** q][,**NN1** r[,**NN2** s]]**!**

3. EXPLANATION OF MESSAGE

ALL Used to request all translations. This code gives current translations as well as a list of faulty to Vacant Code Announcement (VCA) Final Handling Treatment (FHT).

a Domain. The default of **DOM** is Plain Old Telephone Service (**POTS**): APN, ATNS, DAVT, DEC0, DEC1, DEC6, DED, DER0, DER1, DER6, DEV, GSDN, I384, I56D, I64C, IH1C, INCD, INTL, IVT, N64C, N64R, NH0C, NH1C, NSR, POTS (20-83), SDNA, SF00-SF39, STCD, VRFY.

b Area code (Y or N). **AC** must not be specified if **DOM** is not **POTS**. The default is Y.

c First three digits of the code.

d Subsequent Digit Index Type (**ST1**). See **ST1/IDX1** and **ST2/IDX2** TABLE at end of message.

e Index for **ST1** type. See **ST1/IDX1** and **ST2/IDX2** TABLE at end of message.

f Last four digits of the line number. DEFG or GHIJ for 7 or 10 digit faulty Positive Look Up (PLU) (0000-9999).

SEE PROPRIETARY NOTICE ON COVER PAGE

g — Subsequent Digit Index Type (**ST2**). The input cannot be the same as the **ST1** value. See **ST1/IDX1** and **ST2/IDX2** TABLE at end of message.

h — Index for **ST2** type. See **ST1/IDX1** and **ST2/IDX2** TABLE at end of message.

i — Next three digits of the code (digits 4,5, and / or 6).

j — Last three digits of the code (digits 7,8, and / or 9). If used, **DEF** must also be specified.

NOTE: The Positive Look Up (PLU) message does not differentiate **ALL** or **STD**. It will print all data.

NOTE: The last digit argument of the code to be input can be a single argument and / or range.

k — Last three digits of the code (digits 10,11, and / or 12).

RDB — Print the **RDB** associated with a single code.

l — One of the following Digit Types (**DIGTYP**). All codes of the given **DIGTYP** will be printed:

BNPA — Billing number Automatic Number Identification (ANI) Numbering Plan Area (NPA). This **DIGTYP** entry is used to identify codes that are valid billing numbers or ANI NPAs for originating switched Equal Access Signaling State (EAS) calls.

DEF1-4 — DEF digit codes. These codes correspond to the **DEF** digits of the incoming call. They will enable blocking of customer dialed calls, from specific far end networks, which attempt to access these codes.

DNHR — Dynamic Non-Hierarchical Routing (DNHR) prefix codes. This **DIGTYP** entry specifies that the three-digit codes listed will have the Home Numbering Plan Area (HNPA) prefixed by the DNHR delete and prefix algorithm for special codes of six or fewer digits.

DP3 — Dial pulse three-digit codes. This **DIGTYP** entry specifies that the assigned three-digit nonarea codes arriving by dial pulse signaling will be verified. Only those three-digit codes that may be the first three digits of three-, four-, or five-digit codes will be output if this category is specified.

DP6 — Dial pulse six-digit codes. This **DIGTYP** entry requests verification of codes corresponding to the fourth, fifth, and sixth digits of six-digit codes that may arrive by dial pulse signaling will be verified. Only those assigned nonarea codes that total six digits will be output if this category is entered.

SEE PROPRIETARY NOTICE ON COVER PAGE

`DT1` — Digit Type1: Delete first digit of called number on an SDN call.

`DT2` — Digit Type2: Apply normal call handling for this SDN call based on the NPA of the ANI.

`DT3` — Digit Type3: Do not allow this NPA to receive IBNS treatment.

`DT4` — Digit Type4: This is an international 0+ number.

`DT5` — Digit Type5: This is a domestic 0+ number.

`DT6` — Digit Type6: Do not allow this NPA to receive QuietHear treatment (<4E25R4), Spare digit type (4E26R1>).

`DT7` — Digit Type7: Associate the NPA with the Caribbean portion of IWZ1.

`DT8` — Digit Type8: **Not** a request for SDDN service.

`DT9` — Digit Type9: **Not** a request for SDS service.

`DT10` — Digit Type10: Request for RESELL service.

`DT11` — Digit Type 11: NPA associated with proximity screening.

`DT12` — Digit Type 12: AT&T Digital Link (ADL) Equal Access dial around call.

`DT13` — Digit Type 13: Identifies emergency calls per Digital Link Phase 3 - 911 Capabilities.

`DT14` — Digit Type 14: Identifies an NANP number is eligible for NRN DB Query - feature 7592 (4E25R3>)

`DT15` — Digit Type 15: Identifies an APN number is eligible for NRN DB Query - feature 7592 (4E25R3>)

`DT16-DT17` — Spare digit type; reserved for future use.

`I809` — International World Zone 1 codes for the 809 NPA. The 809 NPA has certain areas that are "domestic" and others that are "international". This **`DIGTYP`** entry is used to specify those "international" NXX codes in the 809 NPA to which calls can be placed.

`IIA` — Invalid international automatic call. This **`DIGTYP`** entry requests verification of codes corresponding to the fourth, fifth, and sixth digits of the ten-digit incoming terminating international call. The codes verified under this code type are blocked from completing (`000-199` set to block generically).

`IIC` — Invalid international call. This **`DIGTYP`** entry requests verification of codes corresponding to the first three digits of the ten-digit incoming terminating international call. The codes verified under this code type are blocked from completing.

SEE PROPRIETARY NOTICE ON COVER PAGE

INO — International nonreroutable originating. This **DIGTYP** entry requests verification of country codes or pseudo country codes for which originating calls are not allowed to reroute by network management.

INT — International nonreroutable transit. This **DIGTYP** entry requests verification of pseudo country codes that are not allowed to reroute by network management.

IRS — International revenue settlement. This **DIGTYP** entry requests verification of codes corresponding to the first three digits of the ten-digit incoming terminating international call which should be recorded for international revenue settlement procedures.

ITS — International terminating call allowed to route to satellite. This **DIGTYP** entry requests verification of codes corresponding to the first three digits of the ten-digit incoming terminating international call which should be allowed to route to satellite trunk subgroups in the domestic network.

IWZ1 — International World Zone (WZ1) 1 codes. This **DIGTYP** entry is used to specify all international WZ1 area codes to which calls can be placed, except for the 809 NPA which has a separate **DIGTYP** entry.

NPAG — Announcement group per NPA. When the **DIGTYP** keyword is set to NPA Announcement Group (NPAG), the **RDIG** keyword must be specified with the announcement group (0-3) to be used.

NRA — Nonreroutable area codes. This **DIGTYP** entry requests verification of three-digit number plan area codes. The NPA codes verified under this code type are not routed by the network management program.

NRAEXC — Nonreroutable area code/excluded. This category allows codes in the 0/1XX and 800 series, normally marked as nonreroutable by Office Data (ODA), to be routed. These codes would be specifically excluded from the NRA category by using NRAEXC.

NRN — Nonreroutable area codes. This **DIGTYP** entry requests verification of three-digit Exchange Number (NXX) codes assigned in the home NPA that will not be rerouted by the network management program.

SSSG — Announcement group per Action Point Numbering Plan (APN) switch assignment. When **DIGTYP** keyword is set to APN Announcement Group (SSSG) then the **RDIG** keyword must be specified with the announcement group (0-3) to be used.

SEE PROPRIETARY NOTICE ON COVER PAGE

UTC — Universal treatment nonarea codes. The three-digit codes for the **DIGTYP** have a common system destination. Theses codes are not deleted from a call and are not used with area codes. Most codes in this category are associated with gateway office operation. These include overseas operator (160) and 16X/18X access codes. This type of code may arrive from offices in the areas served directly by the 4ESS™ Switch.

WZ1A — World Zone 1 area is entered to specify that an R-Digit is being defined for 01R equal access signaling protocol.

m — R-Digit of a geographic region within a World Zone 1 area. The **RDIG** keyword must be specified with a value (2-9) when the **DIGTYP** entry is WZ1A, or with a value (0-3) when the **DIGTYP** entry is either NPAG or SSSG. Otherwise, the keyword must not be input.

n — Translation domain in which the digits are to be processed:

INTO — International originating. This is the default.

INTT — International transit.

NOTE: A range of digits is allowed on variables o, p, q, and r as long as the keyword containing the range is the only keyword specifying a range and is the last keyword entered.

o — Country Code Digits (**CCD**). A one- to three-digit entry (0-999), with each digit having a value of 0-9.

p — Digit Count (**DCNT**), for processing digits when a non default digit count case is involved (2-14). A message will default to a digit count when codes are in conflict between operator and subscriber codes.

q — Language Digit (**LD**), used for transit calls (0-9) when a digit has been assigned to type (operator, subscriber, etc.). **LD** is necessary for routing.

r — National Number Part 1 (**NN1**), the first one to six digits of a national number (0-9, B, C).

s — National Number Part 2 (**NN2**), the second one to six digits of a national number (0-9, B, C).

NOTE: B and C digits are not valid entries when **NN1** or **NN2** specifies a range.

4. SYSTEM RESPONSE

PF — Printout Follows.

RL — Retry Later.

SEE PROPRIETARY NOTICE ON COVER PAGE

5. REFERENCES

PIDENTs
VRFYCNTL
VRFYINPT
VRFYIRTG
VRFYOUT
VRFYRTNG

Translation Guide, 4ESS™, TG-4, Division 8

VALID **ST1/IDX1** and **ST2/IDX2** COMBINATIONS TABLE

ST1/ST2 VALUE	**IDX1/IDX2** VALUE
CSRT	0-1022
DC	0-15
DRTC	0-15
FAI	0-1022
FPR	0-1022
GSDN	0-1
IPR	0-1022
MTS	0-63
RSI	0-126
SDN	0-1022
TPC	0-1022

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:CODEGRP-EAR
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

To request verification of the emergency alternate routings (EARs) information contained in the translators.

2. FORMAT

[1] **`VER:CODEGRP:EAR`** `a!`

[2] **`VER:CODEGRP:LISTEAR!`**

3. EXPLANATION OF MESSAGE

`a`	7 or 10 digits primary number.
`LISTEAR`	For all EARs.

4. SYSTEM RESPONSE

`NA`	Not Accepted.
`PF`	Printout Follows.

5. REFERENCES

PIDENTs
IOCPIMC4
VRFYCNTL
VRFYINPT
VRFYRTNG

Output Message
`VER:CODEGRP-`*[unit]*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:CODEGRP-MCTI
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E23 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Requests information on the Multiple Carrier Treatment Index (**`MCTI`**) contained in the CODEGRP database.

2. FORMAT

`VER:CODEGRP:MCTI` `a!`

3. EXPLANATION OF MESSAGE

`a`	**`MCTI`** number (`1-1023`).

4. SYSTEM RESPONSE

`PF`	Printout Follows. Followed by a `VER:CODEGRP-MCT` output message.
`NA`	Not Accepted.

5. REFERENCES

PIDENTs
IOCPIMC4
IOCPPVR4
VRFYCNTL
VRFYINPT
VRFYOUT
VRFYRTNG

Output Message
`VER:CODEGRP-MCT`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:CODEGRP-MRTI
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

To request verification of multiple routing treatment block.

2. FORMAT

`VER:CODEGRP:MRTI` `a!`

3. EXPLANATION OF MESSAGE

`a`	Multiple Routing Treatment Index (**`MRTI`**) (`1-8191`).

4. SYSTEM RESPONSE

`PF`	Printout Follows. Followed by a `VER:CODEGRP-MRT` output message.
`RL`	Retry Later.

5. REFERENCES

PIDENTs
IOCPIMC4
IOCPPVR4
VRFYINPT
VRFYOUT
VRFYRTNG

Output Message
`VER:CODEGRP-MRT`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:CODEGRP-PRTI
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Allows the user to verify the proportional routing translator.

2. FORMAT

VER:CODEGRP:PRTI a!

3. EXPLANATION OF MESSAGE

a	Proportional routing block index. Legal entries are 0-127. The input may be a single entry, a range, or a list.

4. SYSTEM RESPONSE

PF	Printout Follows.
RL	Retry Later.

5. REFERENCES

PIDENTs
VRFYCNTL
VRFYINPT
VRFYOUT
VRFYRTNG

Translation Guide, 4ESS™, TG-4, Division 8

Output Message
VER:CODEGRP-PRTI

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:CODEGRP-SDX
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Requests data pertaining to call type information referenced by **SDINDEX** and/or **INDEX** values.

2. FORMAT

VER:CODEGRP:SDINDEX a[,**INDEX** b]!

3. EXPLANATION OF MESSAGE

a	Subsequent Digit Routing Index (**SDINDEX**) (1-16383).
b	Displays which treatment in the subsequent digit entry is being displayed (0-1022).

4. SYSTEM RESPONSE

PF	Printout Follows. Followed by a VER:CODEGRP-SDX output message.
RL	Retry Later.

5. REFERENCES

PIDENTs
VRFYINPT
VRFYOUT
VRFYRTNG

Output Message
VER:CODEGRP-SDX

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:CODEGRP-SDXM
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

To request verification of subsequent digit indexes which were manually created.

2. FORMAT

`VER:CODEGRP:SDINDEX` `a``,MAN!`

3. EXPLANATION OF MESSAGE

`a`	Subsequent digit index (`1-16383`).

4. SYSTEM RESPONSE

`PF`	Printout Follows. Followed by a `VER:CODEGRP-SDX` output message.
`RL`	Retry Later.

5. REFERENCES

PIDENTs
IOCPIMC4
IOCPPVR4
VRFYINPT
VRFYOUT
VRFYRTNG

Translation Guide, 4ESS™, TG-4, Division 8

Output Message
`VER:CODEGRP-SDX`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:CODEGRP-SDXU
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Requests a list of unassigned subsequent digit entries.

2. FORMAT

VER:CODEGRP:SDINDEX {a|**(**a,a,...**)**|a-a}**,UNA!**

3. EXPLANATION OF MESSAGE

a	Subsequent Digit Routing Indexes (**SDINDEX**s) to be checked (1-16,383). May be a single number, a list or a range, or a combination of a range and a list of numbers. A list or a combination must be enclosed in parentheses.

4. SYSTEM RESPONSE

PF	Printout Follows.
RL	Retry Later.

5. REFERENCES

PIDENTs
IOCPIMC4
IOCPOMC4
IOCPPVR4
VRFYCNTL
VRFYINPT
VRFYOUT
VRFYRTNG

Output Message
VER:CODEGRP-SDXU

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:CODEGRP-TYPE
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E23 Rel. 3 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

To request verification of the domain type information.

2. FORMAT

`VER:CODEGRP:TYPE` `a!`

3. EXPLANATION OF MESSAGE

`a` Domain type:

`FCID` — Determines whether a call is a carrier call.

`SDAC` — Determines whether a domain is allowed for a six digit Called Number Trigger (CNT) for either the Advanced Intelligent Network (AIN) or Local Number Portability (LNP) features.

`TDAC` — Determines whether a domain is allowed for AIN 10 digit called number trigger.

4. SYSTEM RESPONSE

`PF` Printout Follows.

5. REFERENCES

PIDENTs
IOCPIMC4
VRFYCNTL
VRFYINPT
VRFYOUT
VRFYRTNG

Output Message
`VER:CODEGRP-TYPE`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:CODELIST
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E25 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Requests the verification of the list of codes or Positive Look Up (PLU) numbers that point to a particular call type. The input defines the Call Type (CALLTYP) as well as combinations of keywords to obtain if specific information is desired. Output information lists the digit combinations whose translations point to the specified **CALLTYP** index.

2. FORMAT

[1] **VER:CODELIST**[;{**STD**|**STDP**|**ALL**[,**OPT** a]}]:[**DOM** b,]**CALLTYP** c [,**CALLDATA** d][,**SC** e][,**CHI** f][,**DESEP** g][,**AD1** h][,**AD2** i] [,**AD3** j][,**DNST** k]**!**

[2] **VER:CODELIST**[;**OPT** a]:[**DOM** b,]**CALLTYP** c[,**CALLDATA** d][,**SC** e] [,**CHI** f][,**DESEP** g][,**AD1** h][,**AD2** i][,**AD3** j][,**DNST** k]**!**

3. EXPLANATION OF MESSAGE

STD Standard (**STD**), list all codes that point directly to the specified call type word. (**STD** is default value.)

STDP Standard Plus (**STDP**), list all codes that yield the treatment. This includes call types within Proportional Routing (PRT) blocks, Multiple Routing (MRT) blocks, Multiple Carrier Treatment (MCT) blocks, and Subsequent Digit Index (SDX) blocks.

ALL Alternative output, list all indexes to the treatment. This includes call types within Proportional Routing (PRT) blocks, Multiple Routing (MRT) blocks, Multiple Carrier Treatment (MCT) blocks, and Subsequent Digit Index (SDX) blocks.

a Used to specify optional code grouping data:

ALLRDB — Used to search for all data using input Routing Data Block Index (RDBI). When ALLRDB is specified, the **STDP**, **CALLTYP** and **CALLDATA** keywords must be set. RDB is the only valid input for **CALLTYP** with this keyword and **CALLDATA** cannot be a range.

PLU — Positive Look Up (PLU) numbers.

PLU can be used with the **STD**, **STDP**, and **ALL** keywords in the following ways:

- PLU with **STD** — Request only PLU data. (No regular code group data.)

SEE PROPRIETARY NOTICE ON COVER PAGE

- PLU with **STDP** — Request PLU and regular code group data. Also search PRTs, MRTs, etc..
- PLU with **ALL** — Request only PLU data. Also search PRTs, MRTs, etc..

If PLU is input without **STD**, **STDP**, or **ALL** keyword, then the program defaults to the **STD** option.

b — Domain to which the search should be restricted: APN, ATNS, DAVT, DEC0, DEC1, DEC6, DED, DER0, DER1, DER6, DEV, GSDN, I384, I56D, I64C, IH1C, INCD, INTL, IVT, N64C, N64R, NH0C, NH1C, NSR, POTS (20-83), SDNA, SF00-SF39, STCD, VRFY.

c — Call type item. See input message APP:CALLTYPE for valid **CALLTYP**.

d — Call Data (**CALLDATA**), which is directly related to the particular **CALLTYP** option. See input message APP:CALLTYPE for valid **CALLDATA**. This field is required when the domain is LSI or DAVT.

e — Service categories. See input message APP:CALLTYPE for valid **SC**s)

f — Call handling instruction. See input message APP:CALLTYPE for valid **CHI**)

g — Destination Separation (**DESEP**) Class (1-255). See input message APP:CALLTYPE.

h — Additional Data Field 1 (**AD1**). This field is required when the input domain is LSI. See input message APP:CALLTYPE.

i — Additional Data Field 2 (**AD2**). This field is required when the input domain is LSI. See input message APP:CALLTYPE.

j — Additional Data Field 3 (**AD3**). (Valid entries are A-H in unique combinations, e.g. **AD3 ABH**.) See input message APP:CALLTYPE for valid **AD3**.

k — Dialed Number Service Type (**DNST**). See input message APP:CALLTYPE.

4. SYSTEM RESPONSE

PF — Printout Follows.

RL — Retry Later.

SEE PROPRIETARY NOTICE ON COVER PAGE

5. REFERENCES

PIDENTs
IOCPPVR4
VRFYCNTL
VRFYINPT
VRFYIRTG
VRFYOUT
VRFYRTNG

Translation Guide, 4ESS™, TG-4, Division 8, Section 13f

Input Message
`APP:CALLTYPE`

Output Messages
`VER:CODEGRP-ALL`
`VER:CODEGRP-D12`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:CPA-ALA
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

To request the verification of a network switch number (NSN) and routing data block index (RDBI) for each adjunct logical address (ALA).

2. FORMAT

VER:CPA:L a[**,NSN** b]**!**

3. EXPLANATION OF MESSAGE

CPA	Common platform adjunct.
a	Adjunct logical address number (0 - 15). A single, comma separated list or a range of numbers is allowed.
b	Network switching number (0 - 255).

4. SYSTEM RESPONSE

PF	Printout Follows.
NA	Not Accepted.

5. REFERENCES

PIDENTs
IOCPIMC4
IOCPPVR4
VRFYCNTL
VRFYINPT
VRFYOUT
VRFYPCP

Translation Guide, 4ESS™, TG-4, Division 8, Section 16ax

Output Message
VER:CPA-ALA

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:CPA-C-OR
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E20 Rel. 3 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Request information on the customer automatic number identifications (CANIs) that are contained in the common platform adjunct (CPA) database.

2. FORMAT

[1] **VER:CPA:CANI** a[,**TOA** b][,**TSVC** c][,**NUMPL** d][,**RDB**]**!**

[2] **VER:CPA:ORIGLIST**[,**L** e[,**FID** f]]**!**

[3] **VER:CPA;STD,OPT X** g**:ORIGLIST!**

[4] **VER:CPA:ORIGLIST,FIR** h**!**

3. EXPLANATION OF MESSAGE

a — Customer automatic numbering identification (3, 6, or 9 digits).

b — Type of access:

- DC — Direct connect.
- SA — Switch access.

c — Type of service:

- LDS — Long distance service.
- OMEG — Outward wide area telephone service (OUTWATS) or Megacom® Telecommunications Service.

d — Numbering plan:

- APN — Action point numbering.
- NANP — North American numbering plan.

ORIGLIST — Origination list.

RDB — Routing data block.

e — Adjunct logical address, single entry only (0 to 15).

f — Feature processing data type (FPDT) indicator:

- ALA — Adjunct logical address.
- FI — Feature indicator.

g — X indicator:

- N — No.
- Y — Yes.

SEE PROPRIETARY NOTICE ON COVER PAGE

h	Feature indicator request (FIR), single entry only (0-127).

4. SYSTEM RESPONSE

NA	Not Accepted.
PF	Printout Follows.

5. REFERENCES

PIDENTs
IOCPIMC4
IOCPMCP4
IOCPPVR4
IOCPVRT4
VRFYCNTL
VRFYINPT
VRFYOUT
VRFYPCP

Translation Guide, 4ESS™, TG-4, Division 8, Section 16aq

Output Message
VER:CPA-CANI

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:CPA-DATA
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Request adjunct common data.

2. FORMAT

VER:CPA:DATA!

3. EXPLANATION OF MESSAGE

DATA	For adjunct common data.

4. SYSTEM RESPONSE

NA	Not Accepted.
PF	Printout Follows.

5. REFERENCES

PIDENTs
IOCPIMC4
VRFYCNTL
VRFYINPT
VRFYPCP

Translation Guide, 4ESS™, TG-4, Division 8, Section 16as

Output Message
VER:CPA-DATA

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:CPA-DNUM
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E19 - 4E25R4
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Request information on the Destination Numbers (**DNUM**s) contained in the Common Platform Adjunct (**CPA**) database.

2. FORMAT

[1] **VER:CPA:DNUM** a[,**NUMPL** b][,**RDB**]**!**

[2] **VER:CPA:DESTLIST!**

[3] **VER:CPA;STD,OPT X** c**:DESTLIST!**

3. EXPLANATION OF MESSAGE

a	Destination number (3,6, or 9 digits).
b	Numbering plan:
	APN — Action point numbering.
	NANP — North American numbering plan.
RDB	Routing data block.
DESTLIST	For all destination numbers.
c	X indicator:
	N — No.
	Y — Yes.

4. SYSTEM RESPONSE

NA	Not Accepted.
PF	Printout Follows.

5. REFERENCES

PIDENTs
IOCPIMC4
VRFYCNTL
VRFYINPT
VRFYPCP

Translation Guide, 4ESS™, TG-4, Division 8, Section 6ay

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Message
VER:CPA-DNUM

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:CPA-RDBLIST
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

To request the verification of a network switch number (NSN) and adjunct logical address (ALA) for the routing data block index (RDBI).

2. FORMAT

`VER:CPA:RDBLIST` `a!`

3. EXPLANATION OF MESSAGE

`CPA`	Common platform adjunct.
`a`	Routing data block index number (1 - 8191).

4. SYSTEM RESPONSE

`NA`	Not Accepted.
`PF`	Printout Follows.

5. REFERENCES

PIDENTs
IOCPIMC4
IOCPPVR4
VRFYCNTL
VRFYINPT
VRFYOUT
VRFYPCP

Translation Guide, 4ESS™, TG-4, Division 8, Section 16aw

Output Message
`VER:CPA-ALA`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:CRB-CRBI
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Verifies customer routing block (CRB) information and prints linking data.

2. FORMAT

VER:CRB:CRBI a[,**UNA**]**!**

3. EXPLANATION OF MESSAGE

CRBI	Display customer routing block index.
a	Customer routing block index (0-32767). Input can be single, multiple, or a range of indexes.
UNA	Display unassigned customer routing block indexes.

4. SYSTEM RESPONSE

PF	Printout Follows. Followed by a VER:CRB output message.
RL	Retry Later.

5. REFERENCES

PIDENTs
IOCPIMC4
VRFYCNTL
VRFYCRD
VRFYINPT
VRFYOUT

Translation Guide, 4ESS™, TG-4, Division 8

Output Message
VER:CRB

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:CRBLIST
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

To verify all customer routing blocks (CRBs) that contain the customer data block index (CDBI) or trunk appearance number (TAN) specified.

2. FORMAT

[1] **`VER:CRBLIST:[CDBI a]!`**

[2] **`VER:CRBLIST:[TAN b]!`**

3. EXPLANATION OF MESSAGE

`a`	Customer data block index (**`CDBI`**) to be searched (0-4095). Only single CDBIs will be accepted.
`b`	Trunk appearance number (**`TAN`**) to be searched (1-6316120). Only single TANs will be accepted.

4. SYSTEM RESPONSE

`PF`	Printout Follows. Followed by a `VER:CRBLIST-TAN` or `VER:CRB-CDBI` output messages.
`RL`	Retry Later.

5. REFERENCES

PIDENTs
IOCPIMC4
VRFYCNTL
VRFYCRD
VRFYINPT
VRFYOUT

Translation Guide, 4ESS™, TG-4, Division 8

Output Messages
`VER:CRB-CDBI`
`VER:CRBLIST-TAN`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:DESPLIST
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Displays all codes associated with a given destination separation (DESEP) class.

2. FORMAT

`VER:DESPLIST:DESEPR` `a!`

3. EXPLANATION OF MESSAGE

a	DESEP range or list (0-255).

4. SYSTEM RESPONSE

None.

5. REFERENCES

PIDENT
VRFYRTNG

Output Message
`VER:DESPLIST-D12`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:DIALUP
WORK CENTER . . MAC, MOC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Requests verification of a dial-up port client.

2. FORMAT

VER:DIALUP[**:CTYPE**[a]][**,DUPID** b]**!**

3. EXPLANATION OF MESSAGE

a — Client type:

- Blank — Multiple output form is requested.
- TDAS — Client has access to traffic data administration system (TDAS) data.
- TVSP — Televote sponsor.

b — Dial-up port identifier based on client type (**CTYPE**), as follows:

CTYPE	**DUPID**
TDAS	Two characters which may be letters (A-Z) or letter and digit (0-9).
TVSP	Two characters which may be letters (A-Z) or letter and digit (0-9).

4. SYSTEM RESPONSE

PF — Printout Follows.

RL — Retry Later.

5. REFERENCES

PIDENTs
VRFYCNTL
VRFYINPT
VRFYMISC
VRFYOUT

Translation Guide, 4ESS™, TG-4, Division 8, Section 16b

Output Message
VER:DIALUP

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:DNHRMISC
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Requests verification of dynamic non-hierarchical routing (DNHR) parameters, including the forecast period change date and time, and load-set periods.

This message verifies several DNHR related translators, including HT4FPCD (forecast period change date and time), and HT4LSP (load set period table).

2. FORMAT

`VER:DNHRMISC!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`PF` Printout Follows. Followed by the `VER:DNHRMISC` output message.

5. REFERENCES

PIDENTs
VRFYCNTL
VRFYINPT
VRFYMISC
VRFYOUT

Output Message
`VER:DNHRMISC`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:DPC
WORK CENTER . . MOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . ALL
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

To output the input destination point code (DPC) in all possible formats (ATT, ANSI®, international signaling point code [ISPC], binary and hex). To provide the identity of the first associated trunk subgroup (TSG).

To output at a target switch, the old point code and the new point code of a rehomed switch.

2. FORMAT

VER:DPC a**,TYPE** b**!**

3. EXPLANATION OF MESSAGE

a — Destination point code:

- 0 — For signaling end point rehome.
- ANSI Format — 9 numeric characters.
- ATT Format — 9 numeric characters, AT&T point code (PC).
- Hex Format — 6 hex characters.
- ISPC Format — 5 numeric characters (international signaling point code format).

b — Type:

- ANSI — ANSI® format.
- ATT — AT&T point code.
- HEX — Hexadecimal format.
- ISPC — International signaling point code format (world).
- SEP — Signaling end point rehome.

4. SYSTEM RESPONSE

?D	Data field contains an error.
?E	Syntax Error exists in the message but cannot be resolved to the proper field.
PF	Printout Follows.

SEE PROPRIETARY NOTICE ON COVER PAGE

5. REFERENCES

PIDENTs
TMAD0005
TMAD0006
TMAD0007

Output Message
VER:DPC

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:EA-CID
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

To verify the Transit Network Selection (TNS) types for a specified carrier code.

2. FORMAT

VER:EA:CID {a|(a,a,...)|a-a}!

3. EXPLANATION OF MESSAGE

a	Carrier identification (0000-9999). May be a single number, a list or a range, or a combination of a range and a list of numbers. A list or a combination must be enclosed in parentheses.

4. SYSTEM RESPONSE

PF	Printout Follows.
RL	Retry Later.

5. REFERENCES

PIDENTs
IOCPIMC4
IOCPPVR4
VRFYCNTL
VRFYEA
VRFYINPT
VRFYOUT

Output Message
VER:EA-CID

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:EA-CONV-IIDI
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

To verify the Originating Line Identity (OLI) value conversion translator for the requested Information Digit (II) digits.

2. FORMAT

VER:EA;CONV:IIDIGITS {a|(a,a,...)|a-a}!

3. EXPLANATION OF MESSAGE

a	II digits (00-99). May be a single number, a list or a range, or a combination of a range and a list of numbers. A list or a combination must be enclosed in parentheses.

4. SYSTEM RESPONSE

PF	Printout Follows. Followed by a VER:EA-CONV output message.

5. REFERENCES

PIDENTs
IOCPIMC4
VRFYCNTL
VRFYEA
VRFYINPT
VRFYOUT

Input Message
VER:EA-CONV-OLI

Output Message
VER:EA-CONV

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:EA-CONV-OLI
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

To verify the Information Digit (II) digit conversion translation for the specified Originating Line Identity (OLI) value.

2. FORMAT

VER:EA;CONV:OLI {a|**(**a,a,...**)**|a-a}**!**

3. EXPLANATION OF MESSAGE

a — **OLI** value (0-255). May be a single number, a list or a range, or a combination of a range and a list of numbers. A list or a combination must be enclosed in parentheses.

4. SYSTEM RESPONSE

PF — Printout Follows. Followed by a VER:EA-CONV output message.

5. REFERENCES

PIDENTs
IOCPIMC4
VRFYCNTL
VRFYEA
VRFYINPT
VRFYOUT

Input Message
VER:EA-CONV-IIDI

Output Message
VER:EA-CONV

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:EA-FUNC
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

To request verification of the information digits (IIs) digits translator or originating line identity (OLI) translator.

2. FORMAT

[1] **`VER:EA;FUNC:IIDIGITS`** `a!`

[2] **`VER:EA;FUNC:OLI`** `b!`

3. EXPLANATION OF MESSAGE

`a`	**`II`** digits, in range 00-99.
`b`	**`OLI`** value, in range 0-255.

4. SYSTEM RESPONSE

`PF`	Printout Follows.
`RL`	Retry Later.

5. REFERENCES

PIDENTs
VRFYEA
VRFYINPT
VRFYOUT

Translation Guide, 4ESS™, TG-4, Division 8

Output Messages
`VER:EA-F-IIDIGIT`
`VER:EA-FUNC-OLI`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:EA-IPPD
WORK CENTER . . MOC
GENERIC . . . . . 4E24 Rel. 3 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

To request verification of the Information Digits (IIs) payphone designations.

2. FORMAT

`VER:EA;OPT IPPD!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`PF`	Printout Follows.
`RL`	Retry Later.

5. REFERENCES

PIDENTs
IOCPIMC4
VRFYEA
VRFYINPT
VRFYOUT

Translation Guide, 4ESS™, TG-4, Division 8, Section 13bf

Output Message
`VER:EA-IPPD`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:EA-NX
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

To request verification of extra digit designating the incoming Exchange (**NX**) to Transit Network Selection (TNS) translator.

2. FORMAT

VER:EA:NX a!

3. EXPLANATION OF MESSAGE

a	Exchange digits (00-99).

4. SYSTEM RESPONSE

PF	Printout Follows. Followed by a VER:EA-NX output message.
RL	Retry Later.

5. REFERENCES

PIDENTs
IOCPIMC4
IOCPPVR4
VRFYEA
VRFYINPT
VRFYOUT

Translation Guide, 4ESS™, TG-4, Division 8

Output Message
VER:EA-NX

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:EA-OPPD
WORK CENTER . . MOC
GENERIC . . . . . 4E24 Rel. 3 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

To request verification of the Originating Line Identity (OLI) payphone designations.

2. FORMAT

VER:EA;OPT OPPD!

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

PF	Printout Follows.
RL	Retry Later.

5. REFERENCES

PIDENTs
IOCPIMC4
VRFYEA
VRFYINPT
VRFYOUT

Translation Guide, 4ESS™, TG-4, Division 8, Section 13bg

Output Message
VER:EA-OPPD

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:EA-SII
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

To verify service identity index (SII) information.

2. FORMAT

VER:EA:SII a!

3. EXPLANATION OF MESSAGE

a	Service identity index, 0-255.

4. SYSTEM RESPONSE

PF	Printout Follows.
RL	Retry Later.

5. REFERENCES

PIDENTs
IOCPIMC4
IOCPPVR4
VRFYEA
VRFYINPT
VRFYOUT

Translation Guide, 4ESS™, TG-4, Division 8

Output Message
VER:EA-SII

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:EA-ZZ
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

To request verification of ZZ to transit network selection (TNS) translator.

2. FORMAT

VER:EA:ZZ a!

3. EXPLANATION OF MESSAGE

a	**ZZ** digits.

4. SYSTEM RESPONSE

PF	Printout Follows. Followed by a VER:EA-ZZ output message.
RL	Retry Later.

5. REFERENCES

PIDENTs
IOCPIMC4
IOCPPVR4
VRFYEA
VRFYINPT
VRFYOUT

Translation Guide, 4ESS™, TG-4, Division 8

Output Message
VER:EA-ZZ

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:ECOS
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E25 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Request the verification of End-to-end Class Of Service (**ECOS**) data.

Format 1 lists the alternate or overflow route list.

Format 2 lists the activation status of **AREA**s.

Format 3 lists all data for the **AREA**s.

Format 4 lists preference levels of circuit selection capabilities for a specified service identity index.

2. FORMAT

[1] **VER:ECOS AORL:AREA** a[,**TPC** b][,**TYPE** c]**!**

[2] **VER:ECOS AREALIST:AREA** {a|**ALL**}**!**

[3] **VER:ECOS AREALIST;ALL:AREA** {a|**ALL**}**!**

[4] **VER:ECOS SIICSC:SII** d**!**

3. EXPLANATION OF MESSAGE

AORL Alternate/overflow route list.

AREALIST Activation status of **AREA**s.

AREALIST;ALL All data related to the **AREA**.

SIICSC Service Identity Index (**SII**) circuit selection capability preference levels.

a **AREA** name. (1-12 alphanumeric characters)

b Transport capabilities:

VOICE — Voice traffic.

C64 — Clear 64 Kilobits Per Second (KBPS) data.

C384 — Clear 384 KBPS data.

C1536 — Clear 1536 KBPS data.

SEE PROPRIETARY NOTICE ON COVER PAGE

`c`	Route type:
	`ARL1` — Alternate route list grade 1.
	`ARL2` — Alternate route list grade 2.
	`ORL1` — Overflow route list grade 1.
	`ORL2` — Overflow route list grade 2.
`ALL`	List activation status for all **`AREA`** names.
`d`	Service identity number (`1-255`).

4. SYSTEM RESPONSE

`NA`	Not Accepted.
`PF`	Printout Follows.

5. REFERENCES

PIDENTs
IOCPIMC4
VRFYECOS
VRFYCNTL
VRFYINPT

Translation Guide, 4ESS™, PTG-4, Division 8 Section 15j

Output Messages
`VER:ECOS-AORL`
`VER:ECOS-AREALIS`
`VER:ECOS-SIICSC`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:FEN
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Requests the verification of information pertaining to far end networks.

2. FORMAT

VER:FEN:CLASS a[,**FID** b]**!**

3. EXPLANATION OF MESSAGE

a — Classification of the Far End Network (**FEN**): ACCESA, ACCESI, ACCESO, CAMA, CMC, INTL, OEO, OWATS, PBX, POTS.

b — Identifies the particular **FEN** within a class of **FEN**s. If this field is omitted, the characteristics of all **FEN**s corresponding to the particular classification will be verified.

4. SYSTEM RESPONSE

PF — Printout Follows.

RL — Retry Later.

5. REFERENCES

PIDENTs
IOCPIMC4
VRFYCNTL
VRFYINPT
VRFYMISC

Translation Guide, 4ESS™, TG-4, Division 8

Output Message
VER:FEN

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:GT
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Request a list of universal global title translation (UGTT) data base for specific numbering plan areas (NPAs) and numbering plans (NUMPLs).

2. FORMAT

VER:GT:NUMPL a,**NPA** b**!**

3. EXPLANATION OF MESSAGE

GT Global title.

a Numbering plan (**NUMPL**) entry:

APN — Action point numbering plan.
NANP — North American numbering plan.

b Numbering plan area (**NPA**) entry (0-999).

4. SYSTEM RESPONSE

PF Printout Follows.

5. REFERENCES

PIDENTs
IOCPIMC4
VRFYCNTL
VRFYINPT
VRFYMISC

Output Message
VER:GT-UGTT

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:IDAM
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Requests verification of the incoming and destination separations matrix.

2. FORMAT

[1] **`VER:IDAM:INSEP`** `a`**`,DESEPR`** `b`**`!`**

[2] **`VER:IDAM:DESEP`** `b`**`,INSEPR`** `a`**`!`**

3. EXPLANATION OF MESSAGE

`a`	Incoming separations matrix number (0-255) (0-127 for AT&T offices).
`b`	Destination separations matrix number (1-255) (1-127 for AT&T offices).

4. SYSTEM RESPONSE

`PF`	Printout Follows.

5. REFERENCES

PIDENTs
IOCPIMC4
VRFYCNTL
VRFYINPT
VRFYMISC
VRFYOUT

Translation Guide, 4ESS™, TG-4, Division 8

Output Message
`VER:IDAM`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:IDAMLIST
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Requests verification of the incoming and destination separations classes for the cell group requested.

2. FORMAT

`VER:IDAMLIST:CELLGRP` `a!`

3. EXPLANATION OF MESSAGE

`a`	Cell group number (0-1023).

4. SYSTEM RESPONSE

`PF`	Printout Follows.

5. REFERENCES

PIDENTs
IOCPIMC4
VRFYCNTL
VRFYINPT
VRFYMISC
VRFYOUT

Translation Guide, 4ESS™, TG-4, Division 8

Output Message
`VER:IDAMLIST`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:INSPLIST
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Verifies trunk subgroups (TSGs) that have the given incoming separation (INSEP) classes.

2. FORMAT

`VER:INSPLIST:INSEPR` `a!`

3. EXPLANATION OF MESSAGE

`a`	Incoming separation class (0-255).

4. SYSTEM RESPONSE

`PF`	Printout Follows.

5. REFERENCES

PIDENTs
VRFYCNTL
VRFYINPT
VRFYOUT
VRFYTSG

Output Message
`VER:INSPLIST`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:INTLCODE
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E24 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

To list all international codes that point to a specific routing treatment.

2. FORMAT

[1] **VER:INTLCODE**[;{**ALL**|**STD**|**STDP**}]:[**DOM** a,]**CALLTYP** b,**CALLDATA** c ...
...[,**DESEP** d][,**AD1** e,**AD2** f][,**AD3** g][,**SC**h][,**CHI**i]**!**

[2] **VER:INTLCODE;STDP,OPT RECSCH:CALLTYP** {**SDX**|**MRT**|**PRT**|**MCT**|**RDB**},...
...**CALLDATA** c[,**DOM** a]**!**

3. EXPLANATION OF MESSAGE

ALL Print all codes that yield the treatment. Default is **STD**. This includes call types within Proportional Routing (PRT) blocks, Multiple Routing (MRT) blocks, and Subsequent Digit Index (SDX) blocks.

STD Print all codes that point directly to the specified call type word. Default is **STD**.

STDP Prints all codes that yield the treatment. This includes call types within Proportional Routing (PRT) blocks, Multiple Routing (MRT) blocks, and Subsequent Digit Index (SDX) blocks. Digit count and subsequent digit type data is not printed in the output message.

a Domain:

INTO — International Originating.
INTT — International Transmit.

b Call type item. (See *Translation Guide* for valid **CALLTYP**.)

c Call data format. This variable depends on the **CALLTYP** variable. Enter the appropriate variable that is associated with the **CALLTYP** variable. (See *Translation Guide* for valid **CALLDATA**.)

d Destination Separation (**DESEP**) number (1-127).

e Additional Data Field 1 (**AD1**).

f Additional Data Field 2 (**AD2**).

g Additional Data Field 3 (**AD3**). (Valid entries are **A**-**H** in unique combinations, e.g. **AD3**=**ABH**.) (See *Translation Guide* for valid **AD3**.)

h Service Category (**SC**). (See *Translation Guide* for valid **SC**.)

SEE PROPRIETARY NOTICE ON COVER PAGE

`i`	Call Handling Instruction (**`CHI`**). (See *Translation Guide* for valid **`CHI`**.)
`RECSCH`	Used to search for codes pointing to all embedded call types in the input **`CALLTYP`**.

4. SYSTEM RESPONSE

`PF`	Printout Follows.
`RL`	Retry Later.

5. REFERENCES

PIDENTs
IOCPPVR4
VRFYCNTL
VRFYINPT
VRFYIRTG
VRFYOUT
VRFYRTNG

Translation Guide, 4ESS™

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:LATASTAT-ARE
WORK CENTER . . MOC
GENERIC . . . . . 4E19 thru 4E21
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Requests display of Local Access and Transport Area (LATA) / state areas where traffic must be screened.

2. FORMAT

VER:LATASTAT:AREAS!

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

PF	Printout Follows. Followed by a VER:LATASTAT-ARE output message.
RL	Retry Later.

5. REFERENCES

PIDENTs
VRFYINPT
VRFYMISC
VRFYOUT

Translation Guide, 4ESS™, TG-4, Division 8

Output Message
VER:LATASTAT-ARE

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:LATASTAT-MAT
WORK CENTER . . MOC
GENERIC . . . . . 4E19 thru 4E21
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Requests the display of the Local Access and Transport Area (LATA) / state screening matrixes.

2. FORMAT

`VER:LATASTAT:MATRIX` `a!`

3. EXPLANATION OF MESSAGE

`a`	Specifies which LATA / state screening matrix is being displayed (`1-7`).

4. SYSTEM RESPONSE

`PF`	Printout Follows. Followed by a `VER:LATASTAT-MAT` output message.
`RL`	Retry Later.

5. REFERENCES

PIDENTs
VRFYINPT
VRFYMISC
VRFYOUT

Output Message
`VER:LATASTAT-MAT`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:MDN
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Requests verification of data in the miscellaneous distributor number (MDN) translator.

The signaling processor (SP) contains miscellaneous scan and signal distributor points which are identified by MDNs. The MDN translator is used to store data which identifies the user of MDNs and initialization states on a distributor point basis. This translator is primarily used by the program to initialize points to their proper state.

There are two basic types of data in the MDN translator. These are trunk related and nontrunk related. If the MDN is trunk related, translation data will include a trunk program index (TPI) and a trunk scanner number (TSN). The TPI will be used to transfer control to the appropriate program for action. The TSN identifies the trunk or trunks associated with the MDN. For MDNs that are not related to a trunk, the translation data includes a non-trunk program index (NTPI) and a unit type and member number identification. The NTPI or miscellaneous program index (MPI) is used in a way that is similar to the TPI. These indicators specify the disposition of the scan point report.

2. FORMAT

VER:MDN:SP a,**MML** b,**ROW** c,**COL** d!

3. EXPLANATION OF MESSAGE

MDN	Miscellaneous distributor number.
a	Signal processor (0-31).
b	Matrix (0 or 1).
c	Row (0-63).
d	Column (0-15).

4. SYSTEM RESPONSE

PF	Printout Follows.
RL	Retry Later.

SEE PROPRIETARY NOTICE ON COVER PAGE

5. REFERENCES

PIDENTs
VRFYCNTL
VRFYINPT
VRFYMISC
VRFYOUT

Translation Guide, 4ESS™, TG-4, Division 8, Section 6i

Output Message
`VER:MSN`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:MEASREPT
WORK CENTER . . MAC
GENERIC . . . . . 4E19 and later
CLASS . . . . . TRFM
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Requests the output of the parameters defining a traffic measurement report.

The output message specifies the primary channel, the maximum number of measurements allowed on the report, the trunk subgroup capacity, the output channels, the accumulation interval, and the first and last quarter hours of the week in which the schedule is outputted. The message also indicates whether or not the report has engineered memory for extended interval accumulation and whether or not the report is outputted on tape.

The message will also indicate if the schedule is picked up by error analysis program (ERAP), and if ERAP applies, whether it is printed or not.

2. FORMAT

`VER:MEASREPT` `a!`

3. EXPLANATION OF MESSAGE

`a`	Report number (00-23).

4. SYSTEM RESPONSE

`PF`	Printout Follows. Followed by a `VER:MEASREPT` output message.

5. REFERENCES

PIDENT
TRAFMSGS

Practice 234-100-045, *Plant Measurements and Machine Performance Report Description*
Practice 234-152-1x4, *Traffic and Plant Measurements - Machine Administration Center*
(Where x is the 2nd number of the generic issue [i.e., for 4E19 x=9].)

Translation Guide, 4ESS™, TG-4, Division 10, Section 2f

Output Message
`VER:MEASREPT`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:MEMORY
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Verifies all remaining trunk block status (TBS) and trunk subgroup head cell engineered memory. This message can also display remaining file store or core spare space in 1024 word blocks plus the starting address.

2. FORMAT

`VER:MEMORY:{EM|CORE|FS}!`

3. EXPLANATION OF MESSAGE

`EM`	TBS and trunk subgroup head cell (TSGHC) spare engineered memory.
`CORE`	Core spare space in numbers of 1024 word blocks.
`FS`	File store disk spare space in numbers of 1024 word blocks.

4. SYSTEM RESPONSE

`PF`	Printout Follows.
`RL`	Retry Later.

5. REFERENCES

PIDENTs
IOCPIMC4
VRFYCTRL
VRFYINPT
VRFYMISC
VRFYOUT

Translation Guide, 4ESS™, TG-4, Division 8

Output Message
`VER:MEMORY`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:MISC
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E23 Rel. 4 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

This is a general purpose input message which requests specific information based upon the input to the **MISC** keyword.

Format [1] requests carrier identification code data.

Format [2] requests the status of internal feature bits, proprietary, and non-proprietary feature indicators.

Format [3] requests Advanced Intelligent Network (AIN) data.

Format [4] requests the AIN/ Local Number Portability (LNP) Called Number Trigger (CNT) assignment data.

Format [5] requests all Subsequent Digit (SDX) indices that have been changed by Recent Change (RC) since the input time and date.

Format [6] requests all Trunk Subgroup (TSG) indices that have been changed by RC since the input time and date.

2. FORMAT

[1] **VER:MISC CIP:CIN** a!

[2] **VER:MISC ONOFF!**

[3] **VER:MISC AINITM!**

[4] **VER:MISC TRGASN:NPANXX** b!

[5] **VER:MISC CHGSDX:**ccddee**,TIME** ffgghh!

[6] **VER:MISC CHGTSG:**ccddee**,TIME** ffgghh!

3. EXPLANATION OF MESSAGE

CIP Requests carrier identification code data for the input Circuit Identification Number (CIN). The **CIN** keyword must be input when Carrier Identification Parameter (**CIP**) is input.

a Circuit Identification Number (**CIN**). Specified to output the carrier identification codes for a given CIN.

SEE PROPRIETARY NOTICE ON COVER PAGE

ONOFF	Requests the status of internal feature bits, proprietary, and non-proprietary feature indicators.
AINITM	Requests Advanced Intelligent Network data.
TRGASN	Requests the AIN/LNP Called Number Trigger assignment data.
b	Numbering Plan Area and Exchange Number (**NPANXX**) 6-digit number (000000-999999).
cc	Month value of the date.
dd	Day value of the date.
ee	Year value of the date.
ff	Hour value of the time.
gg	Minutes value of the time.
hh	Seconds value of the time.

4. SYSTEM RESPONSE

NA	Not Accepted.
PF	Printout Follows.

5. REFERENCES

PIDENTs
IOCPIMC4
VRFYCNTL
VRFYINPT
VRFYMISC

Output Messages
VER:MISC-AINITM
VER:MISC-CHGSDX
VER:MISC-CHGTSG
VER:MISC-ONOFF
VER:MISC-TRGASN
VER:TSG-CICS

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:MISC-AINTRIG
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E19 Rel. 4 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

To output the 10-digit Advanced Intelligent Network (AIN) triggers that are contained in the expanded 10-digit trigger database.

2. FORMAT

`VER:MISC:FHT AINTRIG,DIG` `a!`

3. EXPLANATION OF MESSAGE

`a`	Digits to match the 10-digit AIN triggers. May be 3, 6 or 10 digits.

4. SYSTEM RESPONSE

`NA`	Not Accepted.
`PF`	Printout Follows.

5. REFERENCES

PIDENTs
IOCPIMC4
IOCPMCP4
IOCPPVR4
IOCPVRT4
VRFYCNTL
VRFYFHT
VRFYINPT
VRFYOUT
VRFYPCP

Translation Guide, 4ESS™, TG-4, Division 8, Section 16dg

Output Message
`VER:MISC-AINTRIG`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:MISC-FHT-RC
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E21 Rel. 4 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

The purpose of this message is to obtain the current on/off feature status for the CONNECT-VU Recent Change EchoBack capability and to obtain the channels which have been input to receive the EchoBack.

2. FORMAT

`VER:MISC:FHT RCECO4CVU!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`PF` Printout Follows.

5. REFERENCES

PIDENTs
VRFYFHT
VRFYMSCM

Output Message
`VER:MISC-FHT-RC`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:MISC-FHT-USD
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E21 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

The purpose of this message is to output the Universal Subscriber Data Structure (USDS) point code and Subsystem Number (SSN) data. Two point code entries are allowed, each possessing up to two subsystem numbers.

2. FORMAT

`VER:MISC:FHT USDSPCSSN!`

3. EXPLANATION OF MESSAGE

None.

4. SYSTEM RESPONSE

`PF` Printout Follows.

5. REFERENCES

PIDENTs
IOCPIMC4
VRFYFHT

Output Message
`VER:MISC-FHT-USD`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:MISC-FHTEASY
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E20 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

To output point codes and subsystem numbers and feature interaction status indicators for the EasyReach capability.

2. FORMAT

`VER:MISC:FHT EASYREACH!`

3. EXPLANATION OF MESSAGE

None.

4. SYSTEM RESPONSE

`PF` Printout Follows.

5. REFERENCES

PIDENTs
IOCPIMC4
VRFYFHT

Output Messages
`VER:MISC-FHTEASY`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:MISC-FHTIBNS
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E20 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

To output the ABC-WXYZ routing number for the international billed number screening (IBNS) capability.

2. FORMAT

`VER:MISC:FHT IBNSROUTE!`

3. EXPLANATION OF MESSAGE

None.

4. SYSTEM RESPONSE

`PF` Printout Follows.

5. REFERENCES

PIDENTs
IOCPIMC4
VRFYFHT

Output Messages
`VER:MISC-FHTIBNS`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:MSN
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Requests verification of data in the miscellaneous scanner number (MSN).

The signaling processor (SP) contains miscellaneous scan and signal distributor points which are identified by MSNs. The MSN translator stores one word of data per MSN, which is primarily used when an MSN report is received from an SP to decide what action should be taken.

There are two basic types of date in the MSN translator. These are trunk related and nontrunk related. If the MSN is trunk related, translation data will include a trunk program index (TPI) and a trunk scanner number (TSN). The TPI will be used to transfer control to the appropriate program for action. The TSN identifies the trunk or trunks associated with the MSN. For MSNs that are not related to a trunk, the translation data includes a non-trunk program index (NTPI) and a unit type and member number identification. The NTPI or miscellaneous program index (MPI) is used in a way that is similar to the TPI. These indicators specify the disposition of the scan point report.

For MSNs that are not related to a trunk, the translation data includes a MPI and miscellaneous data (e.g., TASI frame and clique number).

2. FORMAT

VER:MSN:SP a**,MML** b**,ROW** c**,COL** d**!**

3. EXPLANATION OF MESSAGE

MSN	Miscellaneous scanner number.
a	Signal processor (0-31).
b	Matrix (0 or 1).
c	Row (0-63).
d	Column (0-15).

4. SYSTEM RESPONSE

PF	Printout Follows.
RL	Retry Later.

SEE PROPRIETARY NOTICE ON COVER PAGE

5. REFERENCES

PIDENTs
VRFYCNTL
VRFYINPT
VRFYMISC
VRFYOUT

Translation Guide, 4ESS™, TG-4, Division 8, Section 6i

Output Message
`VER:MSN`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:NAILUP
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Lists the trunk appearance number (TAN) nailups requested.

2. FORMAT

[1] **VER:NAILUP:TAN** a**!**

[2] **VER:NAILUP;ALL!**

3. EXPLANATION OF MESSAGE

a — A single **TAN** (seven digits) or a range or list of **TAN**s.

An example using a range would be:
VER:NAILUP:TAN (0416115-0603050)!

An example using a list would be:
VER:NAILUP:TAN (0416115,0504020,0603050)!

ALL — Produce a list of all nailed-up TANs.

4. SYSTEM RESPONSE

PF — Printout Follows.

RL — Retry Later.

5. REFERENCES

PIDENTs
IOCPIMC4
VRFYINPT
VRFYMISC
VRFYOUT

Output Message
VER:NAILUP

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:NDB-NDBI
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

To allow the user to display the data contained in the number services routing data blocks (NDB).

2. FORMAT

`VER:NDB:NDBI` `a!`

3. EXPLANATION OF MESSAGE

`a`	**`NDB`** index (1-1023). Input can be single, multiple, or a range of indexes.

4. SYSTEM RESPONSE

`PF`	Printout Follows.
`RL`	Retry Later.

5. REFERENCES

PIDENTs
IOCPIMC4
VRFYCNTL
VRFYINPT
VRFYOUT
VRFYRDB

Translation Guide, 4ESS™, TG-4, Division 8

Output Message
`VER:NDB-NDBI`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:NDB-NDBLIST
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

To allow the user to display all number service routing data blocks (NDBs) which contain a specified routing data block index (RDBI).

2. FORMAT

`VER:NDB:NDBLIST` `a!`

3. EXPLANATION OF MESSAGE

`a`	RDBI (1-8191). Input can only be a single RDBI.

4. SYSTEM RESPONSE

`PF`	Printout Follows.
`RL`	Retry Later.

5. REFERENCES

PIDENTs
IOCPIMC4
VRFYCNTL
VRFYINPT
VRFYOUT
VRFYRDB

Translation Guide, 4ESS™, TG-4, Division 8

Output Message
`VER:NDB-NDBLIST`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:NPADPC
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Requests the output of the destination point code and subsystem number use to route Network Call Denial (NCD) queries to the NCD network control point.

2. FORMAT

`VER:NPADPC:NPA` `a!`

3. EXPLANATION OF MESSAGE

`a`	The numbering plan area value (`200-999`).

4. SYSTEM RESPONSE

`PF`	Printout Follows. Followed by a `VER:NPADPC` output message.
`RL`	Retry Later.

5. REFERENCES

PIDENTs
VRFYINPT
VRFYMISC
VRFYOUT

Translation Guide, 4ESS™, TG-4, Division 8

Output Message
`VER:NPADPC`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:OFFICE
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Verifies an office generic, Common Language Location Identifier (CLLI) code, Point Code Format (PCF), Origination Point Code (OPC), and Network Switch Number (NSN).

This message will print the generic - full generic - including dot issues. This will be followed by the office's unique CLLI code, point code format, origination point code, and by the office's unique network switch number.

2. FORMAT

`VER:OFFICE!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`PF`	Printout Follows.
`RL`	Retry Later.

5. REFERENCES

PIDENTs
VRFYCNTL
VRFYINPT
VRFYMISC

Output Message
`VER:OFFICE`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:PASANN
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Verifies the public announcement service (PAS) announcement data associated with the voice storage system identification (VSSID) / service identification (SID), the barge-in or service circuit system (SCS) announcement, or all announcements.

2. FORMAT

VER:PASANN[:{**VSSID** a,**SID** b|**ANNUM** c}]**!**

3. EXPLANATION OF MESSAGE

a	**VSSID** (0 - 99999).
b	Service ID. For SCS announcements, the range is 000000 - 9990000, 9999901 or 9999902. For barge-in announcements, the range is 9999901 - 9999511, 9999901 or 9999902.
c	Announcement number (range 1 — 511).

4. SYSTEM RESPONSE

?E	Syntax Error exists in the message but cannot be resolved to the proper field.
?I	Identification field contains an error. Invalid keyword or combination of keywords.
PF	Printout Follows.

5. REFERENCES

PIDENTs
VRFYCNTL
VRFYINPT
VRFYMAS
VRFYOUT

Translation Guide, 4ESS™, TG-4, Division 8, Section 16i

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:PASCTHRU
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Requests verification of the public announcement service (PAS) with the cut-through function. The input specifies the cut-through application number (CAPPN). Output data lists the external announcement identification, start and stop dates and time, mass announcement number, cut-through number, gap index, member number of the mass announcement system (MAS) frame and announcement number.

This message prints out the cut through data for each CAPPN input. The cut through data is for the cut through application of a MAS announcement.

2. FORMAT

VER:PASCTHRU:CAPPN a**!**

3. EXPLANATION OF MESSAGE

a	Cut-through application number (0-63) is a unique identifier designating the cut-through application. A range may be entered if more than one PAS with cut-through is to be verified.

4. SYSTEM RESPONSE

PF	Printout Follows. Followed by a VER:PASCTHRU output message.

5. REFERENCES

PIDENTs
VRFYCNTL
VRFYINPT
VRFYMAS
VRFYOUT

Translation Guide, 4ESS™, TG-4, Division 8, Section 16j

Output Message
VER:PASCTHRU

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:PASTVOTE
WORK CENTER . . MAC, MOC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Requests the verification of a public announcement service (PAS) with the televote application. The input can define either a slave application number (SAPN), a master application number (MAPN), or a range of SAPNs or MAPNs. The output defines each televote application for a slave or a master office as applicable. Only the SAPN or MAPN can be used as an input.

2. FORMAT

VER:PASTVOTE:{**SAPN** a|**MAPN** b}**!**

3. EXPLANATION OF MESSAGE

a	Slave application number (0-15) identifies a particular slave televote application. The output message uses the televote slave format.
b	Master application number (0-63) identifies a particular master televote application. The output message uses the TELEVOTE master format.

4. SYSTEM RESPONSE

?E	Syntax Error exists in the message but cannot be resolved to the proper field.
?I	Identification field contains an error.
PF	Printout Follows.
RL	Retry Later.

5. REFERENCES

PIDENTs
VRFYCNTL
VRFYINPT
VRFYMAS
VRFYOUT

Translation Guide, 4ESS™, TG-4, Division 8, Section 16K

Output Messages
VER:PASTVOTE-M
VER:PASTVOTE-S

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:PCP
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E20 - 4E25R4
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Requests information on the Customer Automatic Number Identifications (**CANI**s) contained in the Positive Call Processing (**PCP**) database.

2. FORMAT

[1] **VER:PCP:CANI** a[,**TOA** b][,**TSVC** c][,**NUMPL** d]**!**

[2] **VER:PCP;ALL!**

3. EXPLANATION OF MESSAGE

a — Customer automatic number identification (3, 6 or 10 digits).

b — Type of access:

CAMA — Centralized Automatic Message Accounting (CAMA)

DC — Direct Connect (DC)

SA — Switched Access (SA)

c — Type of service:

LDS — Long distance service

OMEG — Outward Wide Area Telephone Service (OUTWATS) or Megacom® Telecommunications Service

SDN — Software defined network

d — Numbering plan:

APN — Action point numbering.

NANP — North American numbering plan.

ALL — For all **CANI**.

4. SYSTEM RESPONSE

NA — Not Accepted.

PF — Printout Follows.

SEE PROPRIETARY NOTICE ON COVER PAGE

5. REFERENCES

PIDENTs
IOCPIMC4
VRFYCNTL
VRFYINPT
VRFYPCP

Translation Guide, 4ESS™, TG-4, Division 8

Output Message
VER:PCP

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:PCP-NPASPLIT
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

This input message requests that the numbering plan area (NPA) - split information that is stored in the positive call processing (PCP) database be displayed.

2. FORMAT

`VER:PCP:NPASPLIT!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`NA`	Not Accepted.
`PF`	Printout Follows.

5. REFERENCES

PIDENTs
IOCPIMC4
VRFYCNTL
VRFYINPT
VRFYPCP

Translation Guide, 4ESS™, TG-4, Division 8

Output Message
`VER:PCP-NPASPLIT`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:PCP-SCTABLE
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

This message requests that all service code to redirect destination number mappings be displayed.

2. FORMAT

VER:PCP:SCTABLE!

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

NA	Not Accepted.
PF	Printout Follows.

5. REFERENCES

PIDENTs
IOCPIMC4
VRFYCNTL
VRFYINPT
VRFYPCP

Translation Guide, 4ESS™, TG-4, Division 8

Output Message
VER:PCP-SCT

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:PCP-TTSII
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

This input message requests that all redirect service identities and access indicators be output for all combinations of type of access and type of service.

2. FORMAT

`VER:PCP:TTSII!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`NA`	Not Accepted.
`PF`	Printout Follows.

5. REFERENCES

PIDENTs
IOCPIMC4
VRFYCNTL
VRFYINPT
VRFYPCP

Translation Guide, 4ESS™, TG-4, Division 8

Output Message
`VER:PCP-RSII`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:RCFORM
WORK CENTER . . MAC, MOC, NMOC, TEC, TOC
GENERIC . . . . . 4E24 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Requests the verification of the metric reports for all activated Recent Change Forms (RCFORM) and messages.

2. FORMAT

`VER:RCFORM!`

3. EXPLANATION OF MESSAGE

None.

4. SYSTEM RESPONSE

`PF`	Printout Follows.
`RL`	Retry Later.

5. REFERENCES

PIDENTs
VRFYT002

Output Message
`VER:RCFORM`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:RDB
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Verifies Routing Data Block (RDB) characteristics, and prints a list of all Trunk Subgroups (TSGs), including auxiliary RDBs. The **UNA** option will list all unassigned RDBs in the input range.

2. FORMAT

VER:RDB:RDBI a[**,UNA**]**!**

3. EXPLANATION OF MESSAGE

a	Routing data block index (0-8191). Input can be single, multiple, or a range of indexes.
UNA	Display unassigned routing data block indexes.

4. SYSTEM RESPONSE

PF	Printout Follows.
RL	Retry Later.

5. REFERENCES

PIDENTs
IOCPIMC4
VRFYCNTL
VRFYINPT
VRFYOUT
VRFYRDB

Translation Guide, 4ESS™, TG-4, Division 8

Output Messages
VER:RDB-INCHAIN
VER:RDB-UNA

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:RDBLIST
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E21 Rel. 3 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Displays the Routing Data Blocks (RDBs) that contain the input type specified.

Format [1] displays all the Routing Data Blocks (RDBs) that contain the input Trunk Subgroup (TSG). It will also display its position in the routing sequence.

Format [2] displays the RDBs that contain the input `ABC` prefix digits. Only domestic RDBs are searched.

Format [3] displays the RDBs that contain the input Final Handling Treatment (`FHT`). Only domestic RDBs are searched.

Format [4] displays the RDBs that contain the input Terminating Toll Switch Index (`TTSI`).

2. FORMAT

[1] **`VER:RDBLIST`**`[;{`**`STD`**`|`**`ALL`**`}]:`**`TSG`** `abbbbccddeeefff`**`!`**

[2] **`VER:RDBLIST:[`**`ABC g]`**`!`

[3] **`VER:RDBLIST:[`**`FHT h]`**`!`

[4] **`VER:RDBLIST:[`**`TTSI i]`**`!`

3. EXPLANATION OF MESSAGE

`STD`	List all routing blocks where `TSG` is the first route.
`ALL`	List all RDBs in which `TSG` resides.
`a`	Base Traffic Number (BTFN) (`0-9976`).
`bbbb`	The Town (TOWN), city, or location for the far end of the TSG (4 characters).
`cc`	The far end State (ST), province, or foreign country (2 characters).
`dd`	The Building (BL) or office identity for the far end of the TSG (2 characters).
`eee`	The Far Building Subdivision (FBS) code for internal building identification (3 characters).
`fff`	The Internal Building Subdivision (NBS) for the near end of the TSG (3 characters).

SEE PROPRIETARY NOTICE ON COVER PAGE

g	ABC prefix digits (000-999).
h	Final handling treatment: AR, BT, DNN, DOO, E01-E20, EA1-EA7, HW, I01-I30, IFF, INC, INF, ISB, IVC, LDV, LOB, LSA, MCA, NCA, NCB, NCC, NCD, NWC, NWN, OOA, OOB, OTS, R01-R10, ROA, S01-S19, SNA, SP1, SP2, STO, T, TDN, UNN, VCA, VMA, WAT.
i	**TTSI** decimal number range or list (0-31).

4. SYSTEM RESPONSE

PF	Printout Follows.
RL	Retry Later.

5. REFERENCES

PIDENTs
VRFYCNTL
VRFYINPT
VRFYOUT
VRFYRDB

Translation Guide, 4ESS™, TG-4, Division 8

Output Messages
VER:RDB-LISTTH
VER:RDB-LISTTW
VER:RDBLIST-ABC
VER:RDBLIST-FHT
VER:RDBLIST-TTSI

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:RTGLIST
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E23 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Used to request verify to list the indexes of a given type of routing table that contains specific **CALLTYP** and **CALLDATA** (optional) information.

2. FORMAT

VER:RTGLIST;STDP,OPT a**:CALLTYP** b[**,CALLDATA** c]**!**

3. EXPLANATION OF MESSAGE

a — Type of treatment:

MCT — Multiple carrier treatment.

MRT — Multiple routing treatment.

PRT — Proportional routing treatment.

b — **CALLTYP**: CRB, DSD, DSN, DUP, EAR, FHT, GNS, INW, IRA, LSI, MCT, MMT, MRT, NVD, PAS, PRT, RDB, RNR, SD1, SD2, SD3, SDX, SSP, TEL, TST, TTS.

c — **CALLDATA** is dependent on the **CALLTYP**:

CRB — 1-32767.

DSD — ARA, DSD1-DSD10, IN10, IQ10, RDOM, SDN7, SD10, SQ7, SQ10.

DSN — 1-167.

DUP — 12 digit value.

EAR — RDBI (1-8191).

FHT — AR, BT, DNN, DOO, E01-E20, EA1-EA7, HW, I01-I30, IFF, INC, INF, ISB, IVC, LDV, LOB, LSA, MCA, NCA, NCB, NCC, NCD, NWC, NWN, OOA, OOB, OTS, R01-R10, ROA, S01-S19, SNA, SP1, SP2, STO, T, TDN, UNN, VCA, VMA, WAT.

GNS — RDBI (1-8191).

INW — blank or 0-999.

IRA — D2RIN, D3RDOM, EASIN, EASXP, RTRDOM, RTRIN, TRD81, TRDIN.

LSI — APN or NANP.

SEE PROPRIETARY NOTICE ON COVER PAGE

MCT — Multiple Carrier Index (1-1023).

MMT — RDBI (1-8191).

MRT — Multiple Routing Index (1-8191).

NVD — National Vendor ID (0-127).

PAS — 12 digit value.

PRT — Proportional Routing Index (1-127).

RDB — 1-8191.

RNR — RDBI (1-8191).

SD1 — 1-16383.

SD2 — 1-16383.

SD3 — 1-16383.

SDX — 1-16383.

SSP — ACPN, AIIO, DB, DB00Y, DB7, DBCOIN, EASDNA, EASEQ, NCP12, NDB, RT, RT00Y, RTCOIN, RTP, SIAQ, SICQ, TNSND.

TEL — 12 digit value.

TST — 100, 101, 102, 103, 104, 105, 108, 109, DLC, SYN.

TTS — Termination Toll Switch Index.

4. SYSTEM RESPONSE

PF — Printout Follows. Followed by a VER:RTGLIST output message.

5. REFERENCES

PIDENTs
IOCPIMC4
IOCPPVR4
VRFYCNTL
VRFYINPT
VRFYOUT
VRFYRTNG

Translation Guide, 4ESS™, TG-4, Division 8, Section 13w

Input Messages
VER:CODEGRP-MCTI
VER:CODEGRP-MRTI
VER:CODEGRP-PRTI

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Message
VER:RTGLIST

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:RTNR-CIN
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

To verify Network Switch Number (NSN) characteristics of a Trunk Subgroup (TSG) in the Real Time Network Routing (RTNR) network.

2. FORMAT

`VER:RTNR:CIN` `abbbbccddeeefff!`

3. EXPLANATION OF MESSAGE

`a`	Base Traffic Number (BTFN) (`0-9976`).
`bbbb`	The Town (TOWN), city, or location for the far end of the TSG (4 characters).
`cc`	The far end State (ST), province, or foreign country (2 characters).
`dd`	The Building (BL) or office identity for the far end of the TSG (2 characters).
`eee`	The Far Building Subdivision (FBS) code for internal building identification (3 characters).
`fff`	The Internal Building Subdivision (NBS) for the near end of the TSG (3 characters).

4. SYSTEM RESPONSE

`NA`	Not Accepted.
`PF`	Printout Follows.

5. REFERENCES

PIDENTs
IOCPIMC4
VRFYINPT

Translation Guide, 4ESS™, TG-4, Division 8

Output Message
`VER:RTNR-TSGUSE`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:RTNR-ISW
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

To verify intermediate switch list for a specified destination Network Switch Number (**NSN**).

2. FORMAT

VER:RTNR;ISW:NSN a**,ISL** b**,GRADE** c**!**

3. EXPLANATION OF MESSAGE

a	Destination **NSN** (1-167).
b	Intermediate Switch List (**ISL**) (1-31).
c	Grade (1-2).

4. SYSTEM RESPONSE

PF	Printout Follows. Followed by the VER:RTNR-ISW output message.
RL	Retry Later.

5. REFERENCES

PIDENTs
IOCPIMC4
IOCPPVR4
VRFYINPT
VRFYOUT
VRFYRTNR

Translation Guide, 4ESS™, TG-4, Division 8

Output Message
VER:RTNR-ISW

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:RTNR-MSI
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

To display the service signaling types assigned for each market segment index (MSI).

Lists all the market segment indexes and their assigned service signaling types.

2. FORMAT

`VER:RTNR:MSI!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`NA`	Not Accepted.
`PF`	Printout Follows.

5. REFERENCES

PIDENTs
IOCPIMC4
VRFYCNTL
VRFYINPT
VRFYRTNR

Output Message
`VER:RTNR-MSI`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:RTNR-NSN
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

To verify the Network Switch Name (**NSNAME**). and destination point code for a specified Network Switch Number (**NSN**).

2. FORMAT

VER:RTNR:NSN a!

3. EXPLANATION OF MESSAGE

a	Network switch number (1-167).

4. SYSTEM RESPONSE

PF	Printout Follows. Followed by the VER:RTNR-NSN output message.

5. REFERENCES

PIDENTs
IOCPIMC4
IOCPPVR4
VRFYINPT
VRFYOUT
VRFYRTNR

Translation Guide, 4ESS™, TG-4, Division 8

Output Message
VER:RTNR-NSN

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:RTNR-RNSN
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

This message is used to request the number of channels engineered and the depth factor for heavily loaded and reserved routes used in determining path selection for Real Time Network Routing (**RTNR**). For each Network Switch Number (NSN) requested, the data for all assigned Routing Pattern Identity (RPI) values is output.

2. FORMAT

VER:RTNR:RNSN a!

3. EXPLANATION OF MESSAGE

a	Routing Network Switch Number (**RNSN**) (1-167).

4. SYSTEM RESPONSE

?E	Syntax Error exists in the message but cannot be resolved to the proper field.
PF	Printout Follows.
RL	Retry Later.

5. REFERENCES

PIDENTs
IOCPIMC4
VRFYINPT
VRFYOUT
VRFYRTNR

Translation Guide, 4ESS™, TG-4, Division 8

Output Message
VER:RTNR-RN

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:RTNR-RPI
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E20 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

This message is used to request the Routing Pattern Identity (**RPI**) information used for Real Time Network Routing (**RTNR**).

2. FORMAT

VER:RTNR:[;ALL]RPI a**!**

3. EXPLANATION OF MESSAGE

ALL Used to see the internally calculated Extended Routing Pattern Identity (ERPI) status indexes and ERPI count indexes when the **RPI** is 33-63.

a **RPI** valid range is 0-63 (0 and 32 not used):

1-31 — **RTNR RPI**s.

33-63 — End to End Class Of Service (ECOS) **RPI**s.

4. SYSTEM RESPONSE

?E Syntax Error exists in the message but cannot be resolved to the proper field.

PF Printout Follows.

RL Retry Later.

5. REFERENCES

PIDENTs
IOCPIMC4
VRFYINPT
VRFYOUT
VRFYRTNR

Translation Guide, 4ESS™, TG-4, Division 8

Output Message
VER:RTNR-RPI

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:RTNR-SII
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Verification of Service Identity Index (**SII**) and Transport Capability (TPC) used for Real Time Network Routing (**RTNR**).

2. FORMAT

VER:RTNR:SII a,**TPC** b!

3. EXPLANATION OF MESSAGE

a	Service identity index (0-255).
b	Transport capability:
	D15C — 5 Megabits Per Second (MBPS) Clear
	D384C — 384 Kilobits Per Second (KBPS) Clear
	D64C — 64 KBPS Clear
	D64R — 64 KBPS Restricted
	VOICE Voice

4. SYSTEM RESPONSE

NA	Not Accepted.
PF	Printout Follows.

5. REFERENCES

PIDENTs
IOCPIMC4
VRFYCNTL
VRFYINPT
VRFYRTNR

Translation Guide, 4ESS™, TG-4, Division 8

Output Message
VER:RTNR-SII

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:RTNR-SIILIST
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Lists all assignments for input service identity index (SII).

2. FORMAT

`VER:RTNR:SIILIST` `a!`

3. EXPLANATION OF MESSAGE

`a`	SII number from 1-255.

4. SYSTEM RESPONSE

`PF`	Printout Follows. Followed by a `VER:RTNR-TSDT` output message.

5. REFERENCES

PIDENTs
VRFYINPT
VRFYOUT
VRFYRTNR

Translation Guide, 4ESS™, TG-4, Division 8

Output Message
`VER:RTNR-TSDT`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:RTNR-TORIG
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

This message is used to request the service identity index (SII) for the specified type of origin (TORIG), type of destination (TDEST), signaling service type (SST), and dialed number service type (DNST) used for real time network routing (RTNR). At least one of the keywords must be input.

2. FORMAT

VER:RTNR:[**TORIG** a][**,TDEST** b][**,SST** c][**,DNST** d]**!**

3. EXPLANATION OF MESSAGE

a Type of origin:

- ISC — International switching center
- IWZ1 — International world zone 1
- LEC — Local exchange carrier
- NODAL — NODAL; e.g., PBX
- OPR — Operator
- SP1 — Spare

b Type of destination:

- ISC — International switching center
- IWZ1 — International world zone 1
- LEC — Local exchange carrier
- NODAL — NODAL; e.g., PBX
- OPR — Operator
- SP1 — Spare

c Signaling service type:

- CLC — 800 class of service (COS) classic
- CLCM — 800 COS classic -
- CLCP — 800 COS classic +
- GOLD — 800 COS gold
- GSDN — Global software defined network (SDN)
- GSDNK — Global SDN key customer
- LITE — 800 COS lite
- LDS — Long distance service
- MEGK — Megacom® Telecommunications Service key customer
- OMEG — Outward wide area telephone service (OUTWATS) or Megacom® Telecommunications Service
- PLT — 800 COS platinum

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REACH	—	Remote adjunct call handling
RECHK	—	Remote adjunct call handling key
SDN	—	Basic software defined network
SDNK	—	Software defined network key customer
SDS	—	Switched digital service
SDCSR	—	Switched digital international carrier specific routing (CSR)
SP1	—	SDN digital radio avoidance routing (SDN-DRAR) no key
SP2	—	SDN digital radio avoidance routing (SDN-DRAR) key
SP3 - SP23	—	Spare 3 through spare 23

d Dialed number service type:

D900	—	Dial-It® 900
DSD800	—	Direct services dialing (DSD) 800
HC800	—	High capacity calling (HICAP) 800
I800	—	I800 Canada
INWATS	—	Inward wide area telecommunications service
MQ	—	MultiQuest®
NETS	—	National emergency telephone service
SP1 - SP7	—	Spare 1 through spare 7
TC	—	Teleconferencing
UNAS	—	Long distance service

4. SYSTEM RESPONSE

PF Printout Follows. Followed by a VER:RTNR-TSDT output message.

5. REFERENCES

PIDENTs
VRFYINPT
VRFYOUT
VRFYRTNR

Translation Guide, 4ESS™, TG-4, Division 8

Output Message
VER:RTNR-TSDT

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:SCS-FHT
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Request output per-announcement data for input final handling treatment (FHT).

2. FORMAT

VER:SCS:FHT a!

3. EXPLANATION OF MESSAGE

a — Announcement designator. Designator may be any one of the following:

AR	BT	DNN	DOO	E01-E20
EAI-EA7	HW	I01-I30	IFF	INC
INF	ISB	IVC	LDV	LOB
LSA	MCA	NCA	NCB	NCC
NCD	NWC	NWN	OOA	OOB
OTS	R01-R10	ROA	SNA	SO1-S19
SP1	SP2	STO	T	TDN
UNN	VCA	VMA	WAT	

4. SYSTEM RESPONSE

PF — Printout Follows.

5. REFERENCES

PIDENTs
IOCPIMC4
VRFYCNTL
VRFYINPT

Output Message
VER:SCS-FHT

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:SDLIST
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Requests the output of subsequent digit indexes that contain a specified treatment.

2. FORMAT

```
VER:SDLIST:CALLTYP a[,CALLDATA b][,AD1 c][,AD2 d][,AD3 e][,SC f]
      [,CHI g][,DESEP h][,DNST i]!
```

3. EXPLANATION OF MESSAGE

a	The treatment to search for in the subsequent digit indexes.
b	Further definition of the routing treatment.
c	Additional data field 1 (**AD1**).
d	Additional data field 2 (**AD2**).
e	Additional data field 3 (**AD3**). (Valid entries are A-H in unique combinations, e.g. **AD3**=**ABH**.) (See *Translation Guide* for valid **AD3**.)
f	Service category.
g	Call handling instruction.
h	Destination separation.
i	Dialed number service type.

4. SYSTEM RESPONSE

PF	Printout Follows.
RL	Retry Later.

5. REFERENCES

PIDENTs
IOCPIMC4
IOCPMCP4
IOCPPVR4
VRFYCNTL
VRFYINPT
VRFYOUT
VRFYRTNG

Translation Guide, 4ESS™, TG-4, Division 8

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Message

```
VER:CODEGRP-SDX
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:SERVICE
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Requests data specific to certain switching services.

2. FORMAT

`VER:SERVICE:SRVC` `a!`

3. EXPLANATION OF MESSAGE

`a`	Service, a domain number, or a domain: `20-83, APN, DED, DEV, I56D, I64C, INCD, INTD, INTO, INTT, INTV, IO56, IO64, ITD, IVT, MEGC, N64C, N64R, NCAT, NH0C, NH1C, SDNA.`

4. SYSTEM RESPONSE

`PF`	Printout Follows. Followed by a `VER:SERVICE` output message.
`RL`	Retry Later.

5. REFERENCES

PIDENTs
VRFYINPT
VRFYMISC
VRFYOUT

Translation Guide, 4ESS™, TG-4, Division 8

Output Message
`VER:SERVICE`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:SPMTXPK
WORK CENTER . . MAC, MOC, NMOC, TEC, TOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . TMTC
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Verifies the identification of a signaling processor (SP) matrix circuit pack and lists all the points on the pack. Included for each point are the related circuit identification number (CIN) or the related unit type, the related non-trunk program index (NTPI), and action to be taken before the pack is removed.

NOTE: Examples of input messages follow.

(a) List all the points on the pack whose location is input:

```
VER:SPMTXPK:SP 1,EQPTLOC 128-09!
```

(b) List all the CINs on the same scan matrix circuit pack as the input trunk:

```
VER:SPMTXPK:SCP,CIN 1CHG11LWB68A57T!
```

Format [1] is used to list (or summarize) all points on the specified matrix circuit pack.
Format [2] is used to list (or summarize) all points on the specified scan matrix pack.
Format [3] is used to list (or summarize) all points on the specified signal distributor matrix pack or applique pack.

2. FORMAT

[1]
```
VER:SPMTXPK[;SUM]:SP a,EQPTLOC bcc-dd!
```

[2]
```
VER:SPMTXPK[;SUM]:SCP,
{CIN e|TAN f|OTAN g|TSN h|TDN i|MSN j}!
```

[3]
```
VER:SPMTXPK[;SUM]:{SDM|SDP},
{CIN e|TAN f|OTAN g|TSN h|TDN i|MDN k}!
```

3. EXPLANATION OF MESSAGE

SUM	Summary format (all points on pack are not listed).
SCP	Scan matrix pack.
SDM	Signal distributor matrix pack.
SDP	Signal distributor or pulse point applique pack.
a	Number of the **SP** containing the circuit pack.

SEE PROPRIETARY NOTICE ON COVER PAGE

`bcc-dd` Circuit pack location:

- `b` — Bay number (0,1,2,4,5,6,7).
- `cc` — Level (inches above floor).
- `dd` — Horizontal position.

`e` **`CIN`** of one trunk on the pack.

`f` TSI-SP-PORT-CHANNEL trunk appearance number (**`TAN`**) of one trunk on the pack:

- `CHANNEL` — A 3-digit decimal number indicating channel, range 0-127.
- `PORT` — A 1-digit decimal number indicating port of TSI, range 0-6.
- `SP` — A 1-digit decimal number indicating SP of TSI.
- `TSI` — A 2-digit decimal number indicating the time slot interchange (TSI) member number, range 00-63.

`g` Octal trunk appearance number (**`OTAN`**) of one trunk on the pack.

`h` SP-ROW-POINT trunk scanner number (**`TSN`**) of one trunk in the pack:

- `POINT` — A 2-digit decimal number indicating the point in the row, range 00-15.
- `ROW` — A 3-digit decimal number indicating the row in the SP, range 000-255.
- `SP` — A 2-digit decimal number indicating the SP member number, range 00-31.

NOTE: **`TSN`** can be entered in octal by using the format **`TSN`** `O'h`.

`i` Decimal format **`TDN`** of one trunk on the pack (same as `h`).

`j` Miscellaneous scanner number of one point on pack.

`k` Miscellaneous distributor number of one point on the pack.

4. SYSTEM RESPONSE

`?D` Data field contains an error.

`?E` Syntax Error exists in the message but cannot be resolved to the proper field.

`PF` Printout Follows. Request is being processed and output message `VER:SPMTXPK` will follow.

`RL` Retry Later. Request cannot be processed at this time.

SEE PROPRIETARY NOTICE ON COVER PAGE

5. REFERENCES

PIDENTs
SPMXDATA
SPMXPKRP
TMAD0005
TMAD0006

Output Message
VER:SPMTXPK

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:SSN-NSN
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E19 thru 4E23
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

To request output of a Survivable Signaling Network (SSN) S-link network for the specified Network Switch Number (NSN).

2. FORMAT

`VER:SSN:NSN` `a!`

3. EXPLANATION OF MESSAGE

`a`	Network switch number (`1-167`).

4. SYSTEM RESPONSE

`PF`	Printout Follows.

5. REFERENCES

PIDENTs
IOCPIMC4
VRFYCNTL
VRFYINPT
VRFYMISC
VRFYOUT

Output Message
`VER:SSN-NSN`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:TASI
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Displays the Trunk Subgroup (TSG) and Miscellaneous Scanner Number (MSN) assignments for each of the five cliques (0-4) in a Time Assigned Speech Interpolation (TASI) frame.

2. FORMAT

`VER:TASI:FRAME` `{a|a,a,...|a-a}!`

3. EXPLANATION OF MESSAGE

`a`	TASI frame number (0-255), which may be a single number, a list, a range, or a combination of a range and a list of frame numbers. A list or a combination must be enclosed in parentheses.

4. SYSTEM RESPONSE

`PF`	Printout Follows. Followed by a `VER:TASI` output message.
`RL`	Retry Later.

5. REFERENCES

PIDENTs
VRFYMISC
VRFYOUT

Translation Guide, 4ESS™, TG-4, Division 8

Output Message
`VER:TASI`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:TERMLIST
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Produces a list of all dangling terminals if any exist.

2. FORMAT

VER:TERMLIST!

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

PF	Printout Follows.
RL	Retry Later.

5. REFERENCES

PIDENTs
VRFYINPT
VRFYOUT
VRFYTRK

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:TFNB
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Lists the traffic number blocks (TFNBs) associated with each trunk sub-group in a trunk group. The output message will be repeated for each trunk sub-group, such as, 1-way incoming, 2-way and 1-way outgoing and lists the first traffic number and quantity of trunks in each traffic number block.

2. FORMAT

VER:TFNB:TG a!

3. EXPLANATION OF MESSAGE

a Trunk group (**TG**) characters:

- BL — Contains the office identity for the far end of the trunk sub-group. The code may be either two alphabetic or two numeric characters. Independent telephone company locations are always designated by an X plus some alpha character in this field. If the trunk sub-group terminates in a customer's building and it is not necessary to identify that particular building, this code may be arbitrary.
- FBS — A three character alphanumeric code for internal building identification.
- NBS — Identifies the internal building subdivision for the near end of the trunk sub-group. It is a three character alphanumeric combination.
- ST — The state is a two character alphabetic code for the far end state, province or foreign country.
- TOWN — A four character alphabetic combination representing the town, city or location for the far end of the trunk sub-group.

4. SYSTEM RESPONSE

None.

5. REFERENCES

Translation Guide, 4ESS™, TG-4, Division 8, Section 6a

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:TOS
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

To verify the requested Bell Operating Company's service switching point (BOC SSP) type of service information.

2. FORMAT

VER:TOS a!

3. EXPLANATION OF MESSAGE

a	Type of service (**TOS**) index (0-31). Input can be single, multiple, or a range of indexes.

4. SYSTEM RESPONSE

PF	Printout Follows.
RL	Retry Later.

5. REFERENCES

PIDENTs
IOCPIMC4
VRFYCNTL
VRFYINPT
VRFYMISC
VRFYOUT

Output Message
VER:MISC-TOS

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:TRK
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Verifies a message trunk by listing the Trunk Subgroup (TSG), Trunk Operations Center (TOC), Errored Seconds (ES) (if any), Miscellaneous Distribution Number (MDN) (if any), STATUS, and optionally, the Trunk Scanner Number (TSN) associated with the trunk.

The message can take six forms, as shown, depending upon how the trunk is identified.

2. FORMAT

[1] **VER:TRK:TAN** a[-a]**!**

[2] **VER:TRK:CIN** f[,**OPT** g]**!**

[3] **VER:TRK:TSI** h,**SPC** i,**LVL** j,**FTS** k[,**OPT** g]**!**

[4] **VER:TRK:SP** l,**ROW** m,**COL** n**!**

[5] **VER:TRK:CCISTERM** o,**FBAND** p,**FMEMN** q[,**OPT** g]**!**

[6] **VER:TRK:TSI** h,**SPC** i,**LVL** j,**FTS** k,**FCHAN** r[,**OPT** g]**!**

3. EXPLANATION OF MESSAGE

a — Decimal Trunk Appearance Number (**TAN**) which equals bbcdeee:

- bb — Time-slot interchange (00-63).
- c — Switching permuting circuit (0-1).
- d — Switch level (0-7).
- eee — First time slot (000-127).

NOTE: One **TAN** or a range of **TANS** may be specified.

f — Circuit Identification Number (**CIN**) of the trunk.

g — Trunk data option.

- D1 — D1 channel number.
- D2 — D2 channel number.
- DLTA — Data link trunk address.
- SCGA — Software carrier group alarm.
- TSN — Trunk scanner number.

h — Time Slot Interchange (**TSI**) frame (0-63).

i — Switching and permuting circuit (0-1).

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`j`	TSI level (0-6).
`k`	TSI first time slot (1-120). May be a single or multiple argument with a range.
`l`	Signaling Processor (**`SP`**) (0-31).
`m`	SP row (0-127).
`n`	SP column (0-15). May be a single argument with a range.
`o`	Common Channel Interoffice Signaling (CCIS) terminal (0-255).
`p`	CCIS band (0-511) Common Channel Signaling System 6 (CCITT6) (0-127).
`q`	CCIS member number (0-15). May be a single or multiple argument with a range.
`r`	First D1 or D2 channel.
`s`	SP-ROW-POINT Trunk Scanner Number (**`TSN`**) of trunk to be connected:

`POINT` — A 2-digit decimal number indicating the point in the row, range 00-15.
`ROW` — A 3-digit decimal number indicating the row in the SP, range 000-255.
`SP` — A 2-digit decimal number indicating the SP member number, range 00-31.

4. SYSTEM RESPONSE

`PF`	Printout Follows.
`RL`	Retry Later.

5. REFERENCES

PIDENTs
VRFY01
VRFY02
VRFYTRK

Translation Guide, 4ESS™, TG-4, Division 8

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:TRK-COOB
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E21 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Lists the status of customer out-of-band trunks.

2. FORMAT

[1] **VER:TRK:CIN** abbbbccddeeefff**,OPT COOB!**

[2] **VER:TRK:TAN** gghijjj**,OPT COOB!**

3. EXPLANATION OF MESSAGE

a	Base Traffic Number (BTFN) (0-9976).
bbbb	The Town (TOWN), city, or location for the far end of the Trunk Subgroup (TSG) (4 characters).
cc	The far end State (ST), province, or foreign country (2 characters).
dd	The Building (BL) or office identity for the far end of the TSG (2 characters).
eee	The Far Building Subdivision (FBS) code for internal building identification (3 characters).
fff	The Internal Building Subdivision (NBS) for the near end of the TSG (3 characters).
gg	Trunk Appearance Number (**TAN**) Time Slot Interchange (TSI) part (00-63).
h	**TAN** Switching And Permuting Circuit (SPC) part (0-1).
i	**TAN** Level (LVL) part (0-6). For Digital Signal Level 3 Unit (D3U) applications (0-7).
jjj	**TAN** First Time Slot (FTS) part (001-120). For D3U applications: for LVL 0 001-127, for LVL 1-6 000-127, for LVL 7 000-112.

4. SYSTEM RESPONSE

PF	Printout Follows.
RL	Retry Later.

SEE PROPRIETARY NOTICE ON COVER PAGE

5. REFERENCES

PIDENTs
IOCPIMC4
VRFYCNTL
VRFYINPT
VRFYTRK

Output Message
VER:TRK-COOB

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:TRK-LACID
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Allows the user to display all B-channels of a D-channel.

2. FORMAT

`VER:TRK:LACID` `a!`

3. EXPLANATION OF MESSAGE

`a`	Link access identifier (`0-2047`).

4. SYSTEM RESPONSE

`NA`	Not Accepted. Out of boundary input.
`PF`	Printout Follows.
`RL`	Retry Later.

5. REFERENCES

PIDENTs
IOCPPVR4
VRFYCNTL
VRFYINPT
VRFYOUT
VRFYTRK

Translation Guide, 4ESS™, TG-4, Division 8

Output Message
`VER:TRK-DCHAN`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:TRK-LACID-SR
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Requests Integrated Services Digital Network (ISDN) service data for a specified Link Access Circuit Identifier (**LACID**).

2. FORMAT

VER:TRK:LACID a,**SRVC** b!

3. EXPLANATION OF MESSAGE

a — Link access circuit identifier (0-2047).

b — ISDN service:

ALL — All services listed.

I800 — International 800.

ILDS — International Long Distance Service.

M800 — MEGACOM® 800.

MEGC — MEGACOM®.

NOVA — Dial-It NOVA.

SDN — Software Defined Network.

SDS — Switched Digital Service.

4. SYSTEM RESPONSE

PF — Printout Follows.

RL — Retry Later.

5. REFERENCES

PIDENTs
IOCPIMC4
VRFYINPT

Translation Guide, 4ESS™, TG-4, Division 8

Output Message
VER:TRK-ISDN

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:TRK-PTAN
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E21 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Verifies the Link Access Circuit Identifier (LACID) and all B-channels of a given D-channel.

2. FORMAT

`VER:TRK:PTAN` `aabcddd!`

3. EXPLANATION OF MESSAGE

`aa`	Trunk Appearance Number (TAN) Time Slot Interchange (TSI) part (`00-63`).
`b`	TAN Switching And Permuting Circuit (SPC) part (`0-1`).
`c`	TAN Level (LVL) part (`0-6`). For Digital Signal Level 3 Unit (D3U) applications (`0-7`).
`ddd`	TAN First Time Slot (FTS) part (`001-120`). For D3U applications: for LVL 0 `001-127`, for LVL 1-6 `000-127`, for LVL 7 `000-112`.

4. SYSTEM RESPONSE

`PF`	Printout Follows.
`RL`	Retry Later.

5. REFERENCES

PIDENTs
IOCPIMC4
VRFYCNTL
VRFYINPT
VRFYOUT
VRYTRK

Output Message
`VER:TRK-DCHAN`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:TRKNAME
WORK CENTER . . MAC, MOC, NMOC, TEC, TOC
GENERIC . . . . . 4E22 and later
CLASS . . . . . ALL
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Lists the identifiers (parameters) of a specified trunk.

2. FORMAT

```
VER:TRKNAME,{OTAN a|TAN b|CIN c|TSN d|DT e,DTU f,DG g|
      XTSI h,SPC i,SPU j,DG k|XTSI h,D3U l,DG m|DIF n,DIU o,DG p}
      [;DETL][:{OTAN|TAN|CIN|TSN|BTFN}]!
```

3. EXPLANATION OF MESSAGE

a — Octal Trunk Appearance Number (**OTAN**) of trunk for which data is to be obtained.

b — TSI-SP-PORT-CHANNEL Trunk Appearance Number (**TAN**):

- CHANNEL — A three-digit decimal number indicating channel (0-127).
- PORT — A one-digit decimal number indicating port of Time Slot Interchange (TSI) (0-6).
- SP — A one-digit decimal number indicating Signaling Processor (SP) of TSI (0 or 1).
- TSI — A two-digit decimal number indicating the Time Slot Interchange (TSI) member number (00-63).

c — Circuit Identification Name (**CIN**) of trunk.

d — SP-ROW-POINT Trunk Scanner Number (**TSN**):

- POINT — A two-digit decimal number indicating the point in the row, range 00-15.
- ROW — A three-digit decimal number indicating the row in the SP (000-255).
- SP — A two-digit decimal number indicating the SP member number (00-31).

NOTE: The value of **TSN** may be entered in the in octal using the format **TSN O'**d.

e — Digroup Terminal (**DT**) number.

f — Digroup Terminal Unit (**DTU**) number.

g — Digroup (**DG**) number.

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h	Expanded Time Slot Interchange (**XTSI**) member number.
i	Switching And Permuting Circuit (**SPC**) number (0 or 1).
j	Signal Processor Unit (**SPU**) member number.
k	**SPU** digroup number.
l	D3U unit number (0-5).
m	Digroup (DG) number (1-18).
n	Digital Interface Frame (**DIF**) number.
o	Digital Interface Unit (**DIU**) number.
p	Digroup number.
DETL	Detailed internal assignment data is output.

NOTE: If a specific parameter is requested, then that parameter is output. If specific parameters are not requested, the following data summary of the specified trunk is output.

BTFN	Base traffic number of Trunk Subgroup (TSG).
CIN	Circuit identification name.
DIF,DIU,DG	DIF, DIU, and DG data.
DT,DTU,DG	DT, DTU, and DG data.
ISC	Incoming signaling characteristics.
OSC	Outgoing signaling characteristics.
OTAN	Octal Trunk Appearance Number (**OTAN**).
TAN	Decimal format Trunk Appearance Number (**TAN**).
TSN	Decimal and octal format TSN.
XTSI,D3U,DG	XTSI, D3U, and DG data.
XTSI,SPC,SPU,DG	XTSI, SPC, SPU, and DG data.

4. SYSTEM RESPONSE

?E	Syntax Error exists in the message but cannot be resolved to the proper field.
PF	Printout Follows.
RL	Retry Later.

5. REFERENCES

PIDENTs
TMAD0005
TMAD0006

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Message
VER:TRKNAME

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:TSG
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Verifies a trunk subgroup (TSG) by displaying the trunk block characteristics and disk TSG characteristics with a list of trunks by traffic number, trunk appearance number (TAN), and status. When the **STDP** keyword option is used the list of trunk messages will not be output.

Format [1] is used to verify trunk subgroup characteristics identified by given circuit identification number (CIN).
Format [2] is used to verify trunk subgroup characteristics identified by trunk subgroup number.

2. FORMAT

[1] **VER:TSG**[**;STDP**]**:CIN** a[**,**{**D1**|**D2**}]**!**

[2] **VER:TSG**[**;STDP**]**:TSGN** b**!**

3. EXPLANATION OF MESSAGE

STDP	List of trunk messages will not be output.
a	The trunk subgroup to verify, where a is the circuit identification name of the TSG. It can be a 14-character CIN or an abbreviation. Refer to the *Translation Guide*, TG-4, Division 8.
D1	Order the list of trunks by **D1** channel number.
D2	Order the list of trunks by **D2** channel number.
b	Trunk subgroup number range of numbers.

4. SYSTEM RESPONSE

PF	Printout Follows.
RL	Retry Later.

5. REFERENCES

PIDENTs
VRFYCNTL
VRFYINPT
VRFYOUT
VRFYTSG

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Translation Guide, 4ESS™, TG-4, Division 8

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ID . . . . . VER:TSGLIST
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E24 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Lists all trunk subgroups with a specified set of characteristics.

2. FORMAT

[1] **VER:TSGLIST!**

[2] **VER:TSGLIST:FD1** a,**DT1** b[,**FD2** c,**DT2** d[,**FD3** e,**DT3** f[,**FD4** g,**DT4** h]]]**!**

[3] **VER:TSGLIST:FD1** a,**DT1** b[,**DT2** d[,**DT3** f[,**DT4** h]]]**!**

3. EXPLANATION OF MESSAGE

a,c,e,g	Search keys (See Table 1).
b,d,f,h	Values of search keys (See Table 1).

4. SYSTEM RESPONSE

PF	Printout Follows.
RL	Retry Later.

5. REFERENCES

PIDENTs
IOCPIMC4
VRFYCNTL
VRFYINPT
VRFYOUT
VRFYTSG

Output Message
VER:TSG-RDBLIST

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Table 1

a,c,e,g	b,d,f,h				
ACCID	1..255				
ACD	Y,N or T				
ADIG	2..9				
ANCR	Y or N				
ANI	0..255				
ANISID	NONE REQ	ANI SID	PANI *	PSID	
APS	Y or N				
AOPC	*				
BFTIS	ANN	REL			
BFTNI	ANN	REL			
BN	3 digits	4 digits	10 digits	*	
BNPT	NANP	APN			
BRL	L	S			
CAREA	0..9				
CARSON	Y or N				
CBC	Y or N				
CBNPR	PA	PR	APR		
CCIF	Y or N				
CCIS2WRE	Y or N				
CCODE	CCNO CCCMC CCINT CCPBX	CCACI CCCPA CCMEG CCSDN	CCACO CCFGB CCMGC CCPOTS	CCAM2 CCFD CCOWC	CCAMA CCICR CCOWT
CID	0000..9999				
CHNEG	Y or N				
CLU	0..255				
CMERGE	Y or N				
CMTYP	1	2			
CODSC	Y or N				
CPOS	0..9				
CREG	0..31				
CSCSET	1..16383				
CTYP	0..7				

* Any legal value except blank

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Table 1 (continued)

a,c,e,g	b,d,f,h				
D3DBN	Y or N				
DATA	Y or N				
DATAF	C	R			
DDD	Y or N				
DELAY	20 210	80 280	220	70	140
DNHR	Y OR N				
DNP	Y or N				
DOFP	Y or N				
DOM	HNPA SNPA1 SNPA3NAC SNPA6 INTLO DED DEC1 LSI ATNS I56D 1384	HNPANAC SNPA1NAC SNPA4 SNPA6NAC INTT DEC6 DER1 INCD IVT GSDN	AC SNPA2 SNPA4NAC SNPA7 VRFY DER6 DEVP IO56 N64C DAVT	IT SNPA2NAC SNPA5 SNPA7NAC SDNA DEC0 DEDP IO64 N64R 1..83	ITNAC SNPA3 SNPA5NAC INTL DEV DER0 NSR ITD I64C POTS
DPSTOP	Y or N				
EAS	N	A	E		
EXSEQ	N,T or B				
FAI	1..31				
FAR4E	Y or N				
FEAREA	1 to 12 alphanumeric characters				
FELATA	000..999				
FENCLASS	ACCESA PBX CAMA	ACCESI POTS CMC	ACCESO ITS *	INTL	OWATS
FENID	1 to 6 chars				
FENPA	200..999	2..9	20..99		
FEOFC	000..999				

* Any legal value except blank

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Table 1 (continued)

a,c,e,g	b,d,f,h				
FEPTY	Y or N				
FESC6	Y or N				
FESWID	1 to 12 alphanumeric characters				
FLDSPR	Y or N				
FOSPS	Y or N				
GEOSEP	0..31				
GLARE	A	E	O	N	
GNSC	0..3				
GSDN	Y or N				
GSDNPHSE	1	2			
HYBRD	Y or N				
IDDD	Y or N				
INCID	3	4	B		
INSEP	0..255				
ISC	MFWINK CCITT6 Q931 DPPLS TUP TOLLMFD RPACU	MFDDSD DOMCCIS DTS MFCCLS INUP TSPSMFW RPACS	DPDDSD 1WAYOUT ISUP DCHAN ICCS TSPSMFD MFOPWK	DPIMMED DPIMADG DTMFWK TESTATP CAMAKEY	CCITT5 DPIMPSW MIOPNOP CAMACW
IT	Y or N				
ITC	0..3				
ITELCO	Y or N				
IWZ1	Y or N				
LSST	2 chars				
MEGC	Y or N				
MEM	Y or N				
MEMBER	1..255				
MFSPEED	7	10			
MTSC	0..63				
MULAW	Y or N				

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Table 1 (continued)

a,c,e,g	b,d,f,h				
NCAR	Y or N				
NEOTR	Y or N				
NET	0..255				
NPARINH	Y or N				
ONCID	3	4			
OSC	MFWINK	MFDDSD	DPWINK	DPDDSD	DPIMMED
	CCITT5	CCITT6	DOMCCIS	1WAYIN	MASMNTR
	MASRECT	MASPLBK	MASBIPB	AART	DTMFWK
	TONE	MWATT	ANN	TERM	
	VFL	XCVRT	DATATAT	DATALPC	SOA
	SOB	MFRCVR	MFXMTR	MFRCVRT	MFXMTR
	TONEDT	105T	TESTATP		
	XCVR	TWOPDPI	TWOPDPD	TWOPMFW	TWOPDPW
	MIOPNOP	SIOPNOP	ICOPNOP	SIOPMFW	CAMAKEY
	CAMATLK	CAMACW	ROTLCA0	ROTLTA0	ROTLCA1
	ROTLTA1	ATMEDA	ATMERA	MWDWN10	104T
	DPPLS	EMFCIXC	EMFCOXC	DTMFRCR	
	DTMFXMR	109T	104D	105D	Q931
	ISUP	DCHAN	TUP	RESD	RESV
	INUP	ICCS	NSCX	MSFH	
OTMTN	000..9999999				
OTMTT	N	ATMC	CTX2	CTX3	SXS
	SYNC	T103	*		
OTSTN	000..9999999				
OTSTT	N	ATMB	CTX2	CTX3	
	SXS	SYNC	T103	*	
OVLP	Y or N				
OWAT	Y or N				
PBXAW	Y or N				
PBXESGD	Y or N				
PBXNWW	Y or N				
PCF	ATT	ANSI®	ISPC		
PRIT	NOQ931	TSGPBX	TSGCPA	CONV	SSA
	ATP	TSGACD			
PSATP	Y or N				
PSBN	Y or N				
PSCPN	Y or N				

* Any legal value except blank.

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Table 1 (continued)

a,c,e,g	b,d,f,h				
PSES	Y or N				
PSOLI	Y or N				
PSTNG	Y or N				
PSUUI	Y or N				
REV	Y or N				
RFA	Y or N				
RFMP	Y or N				
S5DIG	Y or N				
SAT	Y or N				
SBRIV	Y or N				
SCFN	Y or N				
SDNA	Y or N				
SDNPLAN	ORIG	PLUS	NXX	OPEN	
SDVG	Y or N				
SINDEX	0 8	1 16	2 32	4 64	
SKSP	Y or N				
SOIP	Y or N				
SPID	0..7				
STBI	Y or N				
TCC	0..15				
TD	TWOWAY	IN1WAY	OUT1WAY	NONMSG	
TFG	B	C	D		
TOT	TOLLC TAND INTLO NSDSD LCC	CAMAA ITAND ITOPA PBX ETC	CAMAO MISC ITOPB ITS OCC	TSPS ITOLL ITOP STC ATP	SECIT INTL
TRIDX	1..31				
TSGBBC	0..6				
TTA	Y or N				
VDCAP	VOICE	DATA	BOTH		
WANISID	NONE REQ	ANI SID	PANI *	PSID	
WATSBN	10 digits				
WBNPT	NANP	APN			

* Any legal value except blank

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Table 1 (continued)

a,c,e,g	b,d,f,h		
WGZ	1..7		
XCPA	0..3		
XTMTN	000..9999999		
XTMTT	N T105	T100 *	T102
XTSTN	000..9999999		
XTSTT	N T102	ATMA T105	T100 *

* Any legal value except blank.

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:TSI-WIDEBAND
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Request time slot interchange (TSI) units that are equipped with wideband.

2. FORMAT

`VER:TSI:WIDEBAND!`

3. EXPLANATION OF MESSAGE

See Purpose.

4. SYSTEM RESPONSE

`NA`	Not Accepted.
`PF`	Printout Follows.

5. REFERENCES

PIDENTs
IOCPIMC4
VRFYCNTL
VRFYINPT
VRFYMISC
VRFYOUT

Translation Guide, 4ESS™, TG-4, Division 8, Section 12g

Output Message
`VER:TSI-WIDEBAND`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:TTS-TTSI
WORK CENTER . . MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Displays load set periods (LSPs) 0-15 in two blocks (Block A and Block B) and the associated TTSNAME to a terminating toll switch index (TTSI). Will also indicate which block and LSP is the active one.

2. FORMAT

VER:TTS:TTSI a**!**

3. EXPLANATION OF MESSAGE

a **TTSI** decimal number range or list (0 - 31).

4. SYSTEM RESPONSE

None.

5. REFERENCES

PIDENT
VRFYRDB

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:TTSLIST
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E19 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Displays all terminating toll switch indices (TTSIs) associated to a given routing data block index (RDBI).

2. FORMAT

`VER:TTSLIST:RDBI` a**!**

3. EXPLANATION OF MESSAGE

a Decimal **`RDBI`** number (1-8191).

4. SYSTEM RESPONSE

None.

5. REFERENCES

PIDENT
VRFYRDB

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:UTYPE
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E24 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Verifies the unit type member equipage, submember equipage, or an octal dump of the specified unit type translator.

2. FORMAT

VER:UTYPE:a[,{**ME**|**SME** b|**ENTRY**}]**!**

3. EXPLANATION OF MESSAGE

a	Unit type identification and member number, e.g., SP 0. See TABLE 1 for a list of valid unit types.
ME	Unit type member equipage bits.
b	Unit type submember equipage bits. A number from 1 to 224 in TABLE 2 represents the submember equipage to verify.
ENTRY	Unit type entry. This is the default.

4. SYSTEM RESPONSE

PF	Printout Follows.
RL	Retry Later.

5. REFERENCES

PIDENTs
VRFYCNTL
VRFYINPT
VRFYOUT
VRFYUTYP

Translation Guide, 4ESS™, TG-4, Division 8

SEE PROPRIETARY NOTICE ON COVER PAGE

TABLE 1

VALID UNIT TYPES

Unit Type	Valid MEMN Range	Description
ABCNT	0-31	Area Bus Center
ADG	0-3	Automatic Distribution Group
API	0-1	Attached Processor Interface
AUB	0-1	Auxiliary Unit Bus
AUI	0-1	Auxiliary Unit Interface
BDFB	0-31	Battery Distribution Fuse Board
CC	0-1	Central Control
CCDS	0-15	CCIS Data Set Frame (2048A Dataset)
CCT	0-19	Continuity Check Transceiver
CS	0-39	Call Store
CSB	0-1	Call Store Bus
DIF	0-31	Digital Interface Frame
DT	0-127	Digroup Terminal Frame
DUS	0-1	Data Unit Selector
EST	0-31	Echo Suppressor Terminal
FNS	0-1	Fan System
GRID	0-15	Office Alarm Grid Circuit
IFB	0-1	Interface Bus
IOUS	0-7	Input/Output Unit Selector
MA	0-1	Miscellaneous Frame A
MB	0-6	Miscellaneous Frame B
MCF	0	Miscellaneous Frame C
MFS	0-31	Multi-Frequency (MF) Signaling Frame
MUP	0-1	MCC & Utility Processor
NCLK	0	Network clock
OA	0-127	Office Alarms
PCD	0-1	Power Distribution Frame
PP620	0-31	620 Power Plant
PP625	0-15	625 Power Plant
PP630	0-7	630 Power Plant
PS	0-13	Program Store
PSB	0-1	Program Store Bus
PUB	0-1	Peripheral Unit Bus
PUBB	0-4	Peripheral Unit Bus Branching
RA	0-5	Recorded Announcement Machine
RMDC	0	Network Management Remote Distribution Circuit
RT	0	Ringing and Tone Plant

SEE PROPRIETARY NOTICE ON COVER PAGE

TABLE 1 (continued)

VALID UNIT TYPES

Unit Type	Valid MEMN Range	Description
SCLK	0	System Clock
SCS	0-7	Service Circuit System Frame
SP	0-31	Signal Processor
SSD	0-1	Scan & Signal Distributor
TGR	0-15	Terminal Access Circuit
TMSP	0-3	Time Multiplexed Switch
TPOS	0-99	Test Position
TSI	0-63	Time Slot Interchange Frame
TUC	0-15	Tape Unit Controller
VIF	0-127	Voiceband Interface Frame
XPWR	0-1	Miscellaneous Power
XTSI	0-63	Expanded Time Slot Interchange Frame

TABLE 2

VALID UNIT TYPE SUBMEMBERS

SME Name	Index	Description
XL4USME0	01	Submember equipage
XL4USME1	02	Submember equipage
XL4USME2	03	Submember equipage
XL4USME3	04	Submember equipage
XL4USME4	05	Submember equipage
XL4USME5	06	Submember equipage
XL4USME6	07	Submember equipage
XL4USME7	08	Submember equipage
XL4UVIUEQ0	09	Voiceband Interface Unit (VIU) 0 equipage
XL4UVIUEQ1	10	VIU 1 equipage
XL4UVIUEQ2	11	VIU 2 equipage
XL4UVIUEQ3	12	VIU 3 equipage
XL4UVIUEQ4	13	VIU 4 equipage
XL4UVIUEQ5	14	VIU 5 equipage

SEE PROPRIETARY NOTICE ON COVER PAGE

TABLE 2 (continued)

VALID UNIT TYPE SUBMEMBERS

SME Name	Index	Description
XL4UVIUEQ6	15	VIU 6 equipage
XL4UTSNBLK0	16	Signaling Processor (SP) scan point equipage block 0
XL4UTSNBLK1	17	SP scan point equipage block 1
XL4UTSNBLK2	18	SP scan point equipage block 2
XL4UTSNBLK3	19	SP scan point equipage block 3
XL4UTDNBLK0	20	SP SD point equipage block 0
XL4UTDNBLK1	21	SP SD point equipage block 1
XL4UTDNBLK2	22	SP SD point equipage block 2
XL4UTDNBLK3	23	SP SD point equipage block 3
XL4UMSNBLK0	24	SP misc. scan point equipage block 0
XL4UMSNBLK1	25	SP misc. scan point equipage block 1
XL4UMDNBLK0	26	SP misc. SD point equipage block 0
XL4UMDNBLK1	27	SP misc. SD point equipage block 1
XL4UBFE	28	SP left frame equipage
XL4UCFE	29	SP right frame equipage
XL4UTMGRP0	32	Terminal Grouping (TGR) terminal 0 equipage
XL4UTMGRP1	33	TGR terminal 1 equipage
XL4UTMGRP2	34	TGR terminal 2 equipage
XL4UTMGRP3	35	TGR terminal 3 equipage
XL4UTMGRP4	36	TGR terminal 4 equipage
XL4UTMGRP5	37	TGR terminal 5 equipage
XL4UTMGRP6	38	TGR terminal 6 equipage
XL4UTMGRP7	39	TGR terminal 7 equipage
XL4UTMGRP8	40	TGR terminal 8 equipage
XL4UTMGRP9	41	TGR terminal 9 equipage
XL4UTMGRP10	42	TGR terminal 10 equipage
XL4UTMGRP11	43	TGR terminal 11 equipage
XL4UTMGRP12	44	TGR terminal 12 equipage
XL4UTMGRP13	45	TGR terminal 13 equipage
XL4UTMGRP14	46	TGR terminal 14 equipage
XL4UTMGRP15	47	TGR terminal 15 equipage
XL4UC0MBLK0	48	Time Multiplexed Switch (TMS) controller 0 memory block 0 equipage
XL4UC0MBLK1	49	TMS controller 0 memory block 1 equipage
XL4UC0MBLK2	50	TMS controller 0 memory block 2 equipage
XL4UC0MBLK3	51	TMS controller 0 memory block 3 equipage
XL4UC1MBLK0	52	TMS controller 1 memory block 0 equipage
XL4UC1MBLK1	53	TMS controller 1 memory block 1 equipage
XL4UC1MBLK2	54	TMS controller 1 memory block 2 equipage
XL4UC1MBLK3	55	TMS controller 1 memory block 3 equipage

SEE PROPRIETARY NOTICE ON COVER PAGE

TABLE 2 (continued)

VALID UNIT TYPE SUBMEMBERS

SME Name	Index	Description
XL4U0PRTEQ0	56	Time Slot Interchange (TSI) port 0 equipage SPC0
XL4U0PRTEQ1	57	TSI port 1 equipage SPC0
XL4U0PRTEQ2	58	TSI port 2 equipage SPC0
XL4U0PRTEQ3	59	TSI port 3 equipage SPC0
XL4U0PRTEQ4	60	TSI port 4 equipage SPC0
XL4U0PRTEQ5	61	TSI port 5 equipage SPC0
XL4U0PRTEQ6	62	TSI port 6 equipage SPC0
XL4U1PRTEQ0	63	TSI port 0 equipage SPC1
XL4U1PRTEQ1	64	TSI port 1 equipage SPC1
XL4U1PRTEQ2	65	TSI port 2 equipage SPC1
XL4U1PRTEQ3	66	TSI port 3 equipage SPC1
XL4U1PRTEQ4	67	TSI port 4 equipage SPC1
XL4U1PRTEQ5	68	TSI port 5 equipage SPC1
XL4U1PRTEQ6	69	TSI port 6 equipage SPC1
XL4UCKHEQ00	70	FOFI ckt half equipage 00
XL4UCKHEQ01	71	FOFI ckt half equipage 01
XL4UCKHEQ10	72	FOFI ckt half equipage 10
XL4UCKHEQ11	73	FOFI ckt half equipage 11
XL4UCKHEQ20	74	FOFI ckt half equipage 20
XL4UCKHEQ21	75	FOFI ckt half equipage 21
XL4UCKHEQ30	76	FOFI ckt half equipage 30
XL4UCKHEQ31	77	FOFI ckt half equipage 31
XL1IOEQPE0	78	Input / Output Unit Controller (IOUC) 0 port equipage
XL1IOEQPE1	79	IOUC 0 port equipage
XL1IOEQPE2	80	IOUC 0 port equipage
XL1IOEQPE0	81	IOUC 1 port equipage
XL1IOEQPE1	82	IOUC 1 port equipage
XL1IOEQPE2	83	IOUC 1 port equipage
XL1IOEQPE0	84	IOUC 2 port equipage
XL1IOEQPE1	85	IUOC 2 port equipage
XL1IOEQPE2	86	IOUC 2 port equipage
XL1IOEQPE0	87	IOUC 3 port equipage
XL1IOEQPE1	88	IOUC 3 port equipage
XL1IOEQPE2	89	IOUC 3 port equipage
XL1IOEQPE0	90	IOUC 4 port equipage
XL1IOEQPE1	91	IOUC 4 port equipage
XL1IOEQPE2	92	IOUC 4 port equipage
XL1IOEQPE0	93	IOUC 5 port equipage
XL1IOEQPE1	94	IOUC 5 port equipage
XL1IOEQPE2	95	IOUC 5 port equipage

SEE PROPRIETARY NOTICE ON COVER PAGE

TABLE 2 (continued)

VALID UNIT TYPE SUBMEMBERS

SME Name	Index	Description
XL1IOEQPE0	96	IOUC 6 port equipage
XL1IOEQPE1	97	IOUC 6 port equipage
XL1IOEQPE2	98	IOUC 6 port equipage
XL1IOEQPE0	99	IOUC 7 port equipage
XL1IOEQPE1	100	IOUC 7 port equipage
XL1IOEQPE2	101	IOUC 7 port equipage
XL1IOEQSME0	102	IOUC channel 0
XL1IOEQSME1	103	IOUC channel 1
XL1IOEQSME2	104	IOUC channel 2
XL1IOEQSME3	105	IOUC channel 3
XL1IOEQSME4	106	IOUC channel 4
XL1IOEQSME5	107	IOUC channel 5
XL1IOEQSME6	108	IOUC channel 6
XL1IOEQSME7	109	IOUC channel 7
XL4UDTUEQ0	110	Digroup terminal unit 0
XL4UDTUEQ1	111	Digroup terminal unit 1
XL4UDTUEQ2	112	Digroup terminal unit 2
XL4UDTUEQ3	113	Digroup terminal unit 3
XL4UDTUEQ4	114	Digroup terminal unit 4
XL4UDTUEQ5	115	Digroup terminal unit 5
XL4UDTUEQ6	116	Digroup terminal unit 6
XL4UDTUEQ7	117	Digroup terminal unit 7
XL4UC0GRWTH	118	Controller growth status IND
XL4UC1GRWTH	119	Controller growth status IND
XL4USP2EQ0	120	SP2 subtype equipage
XL4USP2EQ1	121	SP2 subtype equipage
XL4USP2EQ2	122	SP2 subtype equipage
XL4USP2EQ3	123	SP2 subtype equipage
XL1FSEQSME0	124	Disk file 0
XL1FEWQSME1	125	Disk file 1
XL1FSEQSME2	126	Disk file 2
XL1FSEQSME3	127	Disk file 3
XL4UESEQ0	128	Echo Suppressor Unit (ESU) 0 equipage
XL4UESEQ1	129	ESU 1 equipage
XL4UESEQ2	130	ESU 2 equipage
XL4UESEQ3	131	ESU 3 equipage
XL4UESEQ4	132	ESU 4 equipage
XL4UESEQ5	133	ESU 5 equipage
XL4UESEQ6	134	ESU 6 equipage
XL4UESEQ7	135	ESU 7 equipage

SEE PROPRIETARY NOTICE ON COVER PAGE

TABLE 2 (continued)

VALID UNIT TYPE SUBMEMBERS

SME Name	Index	Description
XL4UESEQ8	136	ESU 8 equipage
XL4UESEQ9	137	ESU 9 equipage
XL4UESEQ10	138	ESU 10 equipage
XL4UESEQ11	139	ESU 11 equipage
XL4UESEQ12	140	ESU 12 equipage
XL4UESEQ13	141	ESU 13 equipage
XL4UESEQ14	142	ESU 14 equipage
XL4DIUEQ0	143	Digital Interface Unit (DIU) 0 equipage
XL4DIUEQ1	144	DIU 1 equipage
XL4DIUEQ2	145	DIU 2 equipage
XL4DIUEQ3	146	DIU 3 equipage
XL4DIUEQ4	147	DIU 4 equipage
XL4DIUEQ5	148	DIU 5 equipage
XL4DIUEQ6	149	DIU 6 equipage
XL4DIUEQ7	150	DIU 7 equipage
XL4DIUEQ8	151	DIU 8 equipage
XL4DIUEQ9	152	DIU 9 equipage
XL4DIUEQ10	153	DIU 10 equipage
XL4DIUEQ11	154	DIU 11 equipage
XL4DIUEQ12	155	DIU 12 equipage
XL4DIUEQ13	156	DIU 13 equipage
XL4DIUEQ14	157	DIU 14 equipage
XL4DIUEQ15	158	DIU 15 equipage
XL4DIUEQ16	159	DIU 16 equipage
XL4DIUEQ17	160	DIU 17 equipage
XL4DIUEQ18	161	DIU 18 equipage
XL4DIUEQ19	162	DIU 19 equipage
XL4DIUEQ20	163	DIU 20 equipage
XL4DIUEQ21	164	DIU 21 equipage
XL4DIUEQ22	165	DIU 22 equipage
XL4DIUEQ23	166	DIU 23 equipage
XL4DIUEQ24	167	DIU 24 equipage
XL4DIUEQ25	168	DIU 25 equipage
XL4DIUEQ26	169	DIU 26 equipage
XL4DIUEQ27	170	DIU 27 equipage
XL4DIUEQ28	171	DIU 28 equipage
XL4DIUEQ29	172	DIU 29 equipage
XL4DIUEQ30	173	DIU 30 equipage
XL4DIUEQ31	174	DIU 31 equipage
XL4DIUSPQA	175	DIU Spare A (SPA) equipage

SEE PROPRIETARY NOTICE ON COVER PAGE

TABLE 2 (continued)

VALID UNIT TYPE SUBMEMBERS

SME Name	Index	Description
XL4DIUSPQB	176	DIU Spare B (SPB) equipage
XL4USCUEQ0	177	Service Circuit Unit (SCU) 0 equipage
XL4USCUEQ1	178	SCU 1 equipage
XL4USCUEQ2	179	SCU 2 equipage
XL4USCUEQ3	180	SCU 3 equipage
XL4USCUEQ4	181	SCU 4 equipage
XL4USCUEQ5	182	SCU 5 equipage
XL4USCUEQ6	183	SCU 6 equipage
XL4USCUEQ7	184	SCU 7 equipage
XL4USCUEQ8	185	SCU 8 equipage
XL4USCUEQ9	186	SCU 9 equipage
XL4USCUEQ10	187	SCU 10 equipage
XL4USCUEQ11	188	SCU 11 equipage
XL4USCUEQ12	189	SCU 12 equipage
XL4USCUEQ13	190	SCU 13 equipage
XL4USCUEQ14	191	SCU 14 equipage
XL4USCUEQ15	192	SCU 15 equipage
XL1IOEQPE0	193	Input / Output Unit Controller (IOUC) 8 port equipage
XL1IOEQPE1	194	IOUC 8 port equipage
XL1IOEQPE2	195	IOUC 8 port equipage
XL1IOEQPE0	196	IOUC 9 port equipage
XL1IOEQPE1	197	IOUC 9 port equipage
XL1IOEQPE2	198	IOUC 9 port equipage
XL1IOEQPE0	199	IOUC 10 port equipage
XL1IOEQPE1	200	IOUC 10 port equipage
XL1IOEQPE2	201	IOUC 10 port equipage
XL1IOEQPE0	202	IOUC 11 port equipage
XL1IOEQPE1	203	IOUC 11 port equipage
XL1IOEQPE2	204	IOUC 11 port equipage
XL1IOEQPE0	205	IOUC 12 port equipage
XL1IOEQPE1	206	IOUC 12 port equipage
XL1IOEQPE2	207	IOUC 12 port equipage
XL1IOEQPE0	208	IOUC 13 port equipage
XL1IOEQPE1	209	IOUC 13 port equipage
XL1IOEQPE2	210	IOUC 13 port equipage
XL1IOEQPE0	211	IOUC 14 port equipage
XL1IOEQPE1	212	IOUC 14 port equipage
XL1IOEQPE2	213	IOUC 14 port equipage

SEE PROPRIETARY NOTICE ON COVER PAGE

TABLE 2 (continued)

VALID UNIT TYPE SUBMEMBERS

SME Name	Index	Description
XL1IOEQPE0	214	IOUC 15 port equipage
XL1IOEQPE1	215	IOUC 15 port equipage
XL1IOEQPE2	216	IOUC 15 port equipage
XL4UD3UEQ0	217	Expanded Time Slot Interchange (XTSI) Even Member Number Digital Signal Level 3 (DS3) Unit (D3U). 0 equipage
XL4UD3UEQ0	218	XTSI Even Member Number D3U 1 equipage
XL4UD3UEQ0	219	XTSI Even Member Number D3U 2 equipage
XL4UD3UEQ0	220	XTSI Odd Member Number D3U 3 equipage
XL4UD3UEQ0	221	XTSI Odd Member Number D3U 4 equipage
XL4UD3UEQ0	222	XTSI Odd Member Number D3U 5 equipage
XL4UD3UEQ0	223	XTSI Even Member Number Spare D3U equipage
XL4UD3UEQ0	224	XTSI Odd Member Number Spare D3U equipage

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:VFUNC
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E22 Rel. 2 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Requests the verification of miscellaneous data and specific information based upon the input **VFUNC** keyword.

2. FORMAT

[1] **VER:VFUNC SUXTSI**[**:FD1 XTSIMEMN,DT1** a]**!**

[2] **VER:VFUNC XTSID3U**[**:FD1 XTSIMEMN,DT1** a][**,FD2 D3UN,DT2** b]**!**

3. EXPLANATION OF MESSAGE

SUXTSI	Sub-unit Expanded Time Slot Interchange (XTSI) type data.
a	XTSI member number (2-62 even numbers only).
XTSID3U	XTSI Digital Signal Level 3 (DS3) unit application.
b	DS3 number (0-7). Six is the spare Digital Signal Level 3 Unit (D3U) number for D3U numbers 0, 1 and 2. Seven is the spare D3U number for D3U numbers 3, 4 and 5.

4. SYSTEM RESPONSE

NA	Not Accepted.
PF	Printout Follows.

5. REFERENCES

PIDENTs
IOCPIMC4
VRFYCNTL
VRFYINPT
VRFYMISC
VRFYOUT

Output Messages
VER:MISC-OCTCP
VER:MISC-SUXTSI
VER:MISC-XTSID3U
VER:STAT-XTSIAB
VER:VFUNC-XTSISP

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:VFUNC-SCSDAT
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E22 Rel. 2 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Requests the verification of Service Circuit System Sub-Unit Data (**SCSDATA**) for the requested Service Circuit System (SCS) member number.

2. FORMAT

VER:VFUNC SCSDATA[**:FD1 XTSIMEMN,DT1** a]**!**

3. EXPLANATION OF MESSAGE

a	SCS member number (0-7).

4. SYSTEM RESPONSE

NA	Not Accepted.
PF	Printout Follows.

5. REFERENCES

PIDENTs
IOCPIMC4
VRFYCNTL
VRFYINPT
VRFYMISC
VRFYOUT

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Output Message
VER:UTYPE-SCSDAT

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:VFUNC-STAT
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E21 thru 4E23
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Requests the verification of miscellaneous data and specific information based upon the input **VFUNC** keyword.

2. FORMAT

VER:VFUNC STATICAB:FD1 TSIMEMN,DT1 a[**,FD2 D3UN,DT2** b]**!**

3. EXPLANATION OF MESSAGE

a	XTSI member number (2-62 even numbers only).
STATICAB	Static A/B signaling bits.
b	Digital Signal Level 3 (DS3) number (0-5).

4. SYSTEM RESPONSE

NA	Not Accepted.
PF	Printout Follows.

5. REFERENCES

PIDENTs
IOCPIMC4
VRFYCNTL
VRFYINPT
VRFYMISC
VRFYOUT

Output Messages
VER:MISC-OCTCP
VER:MISC-SUXTSI
VER:MISC-XTSID3U
VER:STAT-XTSIAB
VER:VFUNC-XTSISP

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:VFUNC-XTSIIB
WORK CENTER . . MAC, MOC
GENERIC . . . . . 4E24 and later
CLASS . . . . . VER
APPLICATION . . 4E
TYPE . . . . . Input

1. PURPOSE

Requests the verification of miscellaneous data and specific information for the Expanded Time Slot Interchange In-Band Unit (**XTSIIBU**).

2. FORMAT

VER:VFUNC XTSIIBU:FD1 XTSIMEMN,DT1 a!

3. EXPLANATION OF MESSAGE

a	Expanded Time Slot Interchange (XTSI) member number (2-62 even numbers only).

4. SYSTEM RESPONSE

NA	Not Accepted.
PF	Printout Follows.

5. REFERENCES

PIDENTs
IOCPIMC4
VRFYCNTL
VRFYINPT
VRFYMISC
VRFYOUT

Output Message
VER:MISC-XTSIIBU

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . WHEN:ADR
WORK CENTER . . MOC
GENERIC . . . . . 4E21 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Provides the capability to "flag" generic utilities. The `WHEN`: clause must be followed by one or more generic utility statements. (See `IF:`, `DUMP:`, `LOAD:`, `COPY:`, `CLR:UTILFLG`, `ALW:UTILMSG`, `INH:UTILMSG`, `CLR:UTIL`,`ELSE`.) The flag is activated after `ALW:UTIL` is input.

NOTE: Refer to the notes at the end of Explanation of Message for a list of restrictions of the **`WHEN:ADR`** input message.

The following format is used to flag a location whose contents will be treated as an instruction or as data.

2. FORMAT

`WHEN:ADR` `a;b/`

3. EXPLANATION OF MESSAGE

`a` Eight digit octal number indicating address of flag. Used to access non extended memory. Default type is octal. Address bits 1-22 that are not specified will be zero filled, but bits 23-29 will always be ones. When the address is accessed, a G-level interrupt source will be set. Entry to the generic utility program occurs when the interrupt occurs.

NOTE 1: Number input for address (ADR) is assumed to be octal unless qualified, B', D' or H' - binary, decimal, or hexadecimal.

`b` One of the following mnemonics which indicates the type of access to be flagged:

NOTE 2: Expect a 10-second delay (maximum 30 seconds) when setting up a matcher using `R`, `RW`, or `W`.

- `EXC` — Trigger after instruction is executed (uses utility execute instruction).
- `R` — Trigger when location is read as data (uses utility system matchers).
- `RW` — Trigger when location is either read or written (uses utility system matchers).
- `W` — Trigger when location is written (uses utility system matchers).

SEE PROPRIETARY NOTICE ON COVER PAGE

NOTE 3: A maximum of two flags may be input using the `R`, `RW`, or `W` options.

NOTE 4: The `EXC` option causes the flagged instruction to be displaced and a utility execute instruction to be written into the flagged location.

NOTE 5: The use of the **`WHEN:ADR`** input message on the second half of a long instruction must never be used. If used, a system outage will occur. The flagged location must always be the first word of the long instruction. Verify that the address to be flagged has not been overwritten before using the **`WHEN:ADR`** input message.

NOTE 6: A maximum of 12 flags on short instructions and 10 flags on long instructions may be used at any one time.

NOTE 7: Only one flag may be placed on a given address at any one time.

NOTE 8: Flags may be placed only on memory resident generic code.

NOTE 9: Utility flags may not be placed on locations that differ only in bit 21.

NOTE 10: Flags may not be placed on the following long instructions:
Conditional load (IF:L).
Conditional union (IF:U).
Load and rotate (Q:L).
Load and shift (H:L).
Load through 24-bit mask (L).
Long execute (EXC).
Long load (L).
Long load adjust (LA).
Maintenance load (ML).
Search (SEARCH).
Selective clear interrupt source register (SCINS).
Union (U).
Union and rotate (Q:U).
Union and shift (H:U).

NOTE 11: PIDENT GULP prohibits a flag on the store through 24 bit mask(s) instruction only if the inhibit normal interrupt (INI) option has been selected:

NOTE 12: A flag cannot be placed on an address where G-levels are normally inhibited.

NOTE 13: Except for the short relative transfer instruction, a flag cannot be placed on an instructions that use relative addressing.

4. SYSTEM RESPONSE

NOTE 14: When setting up a matcher, the system response is given after the last utility function is entered in the `WHEN` clause. The last utility function will end with an exclamation point (!).

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?E,CODE 045	Syntax Error exists in the message but cannot be resolved to the proper field. Total time required to execute all functions associated with this flag exceeds maximum allowed for G-level (1.5 ms).
?I,CODE 029	Identification field contains an error. A utility **EXC** instruction is on a relative address that is not allowed. Choose another address and re-enter the message.
?I,CODE 034	Identification field contains an error. An instruction flag has been requested for a location which does not fall into the generic code memory store address range.
?R,DPLX FAIL	Insufficient system Resources are available to determine the validity of the message. Generic utility program (GULP) cannot be paged to parse the message because the file system is duplex failed.
NG,CODE 039	No Good. A flag already exists at specified location.
NG,CODE 116	No Good. A flag has been requested for a location which resides in an MCODE less than 1770.
NG,CODE 188	No Good. Address is not equipped.
PF,CODE 050	Printout will conditionally follow. This acknowledgement is used if file system is duplex failed and GULP is being paged from tape.
PF,CODE 091	Printout will conditionally follow.
RL,CODE 023	Retry Later. Too many flags of a particular type have been requested. This will occur when a utility execute instruction has been requested for the 13th short instruction or the 11th long instruction.
RL,CODE 025	Retry Later. Utility work table overflow. The total space required to save utility work tables associated with all flags has exceeded available areas.
RL,CODE 026	Retry Later. Both matchers are busy.
RL,CODE 047	Retry Later. Exceeded maximum utility executes placed on long or short instructions.
RL,CODE 058	Retry Later. No active master control complex and utility processor (MUP), or an interface bus (IFB) error, or a MUP error.
RL,CODE 059	Retry Later. GULP cannot set up matchers because the MUP - utility active system (UAS) did not respond to the set up request within the normal time period.
RL,CODE 060	Retry Later. GULP cannot set up matchers because all matchers are in use by the remote utility active system (RUAS).
RL,CODE 180	Retry Later. Execution of GULP function is in progress.
RL,CODE 181	Retry Later. Message processing in progress.
RL,CODE 182	Retry Later. Data set input mode in progress on another channel.
RL,CODE 183	Retry Later. Data set execution is in progress.

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`RL,CODE 185` Retry Later. No general buffer table (GBT) available or failure to page in GULP.

5. REFERENCES

PIDENTs
- GULPUTPP
- GULPUTXP
- GULRUTCR

Input Messages
- `ALW:UTIL`
- `ALW:UTILMSG`
- `CLR:UTIL`
- `CLR:UTILFLG`
- `COPY:A1B`
- `COPY:CS`
- `COPY:CSS`
- `COPY:FS`
- `COPY:OWBUF`
- `COPY:PSS`
- `COPY:XS`
- `DUMP:A1B`
- `DUMP:CC`
- `DUMP:CS`
- `DUMP:CSS`
- `DUMP:FS`
- `DUMP:PSS`
- `DUMP:REG`
- `DUMP:TAPE`
- `DUMP:UMEM`
- `DUMP:XS`
- `ELSE:0`
- `IF:CC`
- `IF:CS`
- `IF:CSS`
- `IF:PSS`
- `IF:REG`
- `IF:UMEM`
- `INH:UTIL`
- `INH:UTILMSG`
- `LOAD:A1B`
- `LOAD:CS`
- `LOAD:CSS`
- `LOAD:PSS`
- `LOAD:REG`
- `LOAD:UMEM`
- `LOAD:XS`
- `WHEN:XADR`

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ID . . . . . WHEN:XADR
WORK CENTER . . MOC
GENERIC . . . . . 4E21 and later
CLASS . . . . . PMTC
APPLICATION . . 4E,1B
TYPE . . . . . Input

1. PURPOSE

Provides the capability to "flag" generic utilities. The `WHEN`: clause must be followed by one or more generic utility statements. (See `IF:`, `DUMP:`, `LOAD:`, `COPY:`, `CLR:UTILFLG`, `ALW:UTILMSG`, `INH:UTILMSG`, `CLR:UTIL`,`ELSE`.) The flag is activated after `ALW:UTIL` is input.

NOTE: Refer to the notes at the end of Explanation of Message for a list of restrictions of the **`WHEN:XADR`** input message.

The following format is used to flag a location whose contents will be treated as an instruction or as data.

2. FORMAT

`WHEN:XADR` `a;b/`

3. EXPLANATION OF MESSAGE

`a` Ten digit octal number indicating address of flag. Used to access either extended non-secure call store (XS) or non-XS memory. Default type is octal. Upper address bits that are not specified will be zero filled. When the address is accessed, a G-level interrupt source will be set. Entry to the generic utility program occurs when the interrupt occurs.

NOTE 1: Number input for extended address (XADR) is assumed to be octal unless qualified, B', D' or H' - binary, decimal, or hexadecimal.

`b` One of the following mnemonics which indicates the type of access to be flagged:

NOTE 2: Expect a 10-second delay (maximum 30 seconds) when setting up a matcher using `R`, `RW`, or `W`.

- `EXC` — Trigger after instruction is executed (uses utility execute instruction).
- `R` — Trigger when location is read as data (uses utility system matchers).
- `RW` — Trigger when location is either read or written (uses utility system matchers).
- `W` — Trigger when location is written (uses utility system matchers).

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NOTE 3: A maximum of two flags may be input using the `R`, `RW`, or `W` options.

NOTE 4: The `EXC` option causes the flagged instruction to be displaced and a utility execute instruction to be written into the flagged location.

NOTE 5: The use of the **`WHEN:XADR`** input message on the second half of a long instruction must never be used. If used, a system outage will occur. The flagged location must always be the first word of the long instruction. Verify that the address to be flagged has not been overwritten before using the **`WHEN:XADR`** input message.

NOTE 6: A maximum of 12 flags on short instructions and 10 flags on long instructions may be used at any one time.

NOTE 7: Only one flag may be placed on a given address at any one time.

NOTE 8: Flags may be placed only on memory resident generic code.

NOTE 9: Utility flags may not be placed on locations that differ only in bit 21.

NOTE 10: Flags may not be placed on the following long instructions:
Conditional load (IF:L).
Conditional union (IF:U).
Load and rotate (Q:L).
Load and shift (H:L).
Load through 24-bit mask (L).
Long execute (EXC).
Long load (L).
Long load adjust (LA).
Maintenance load (ML).
Search (SEARCH).
Selective clear interrupt source register (SCINS).
Union (U).
Union and rotate (Q:U).
Union and shift (H:U).

NOTE 11: PIDENT GULP prohibits a flag on the store through 24 bit mask(s) instruction only if the inhibit normal interrupt (INI) option has been selected:

NOTE 12: A flag cannot be placed on an address where G-levels are normally inhibited.

NOTE 13: Except for a short relative transfer instruction, a flag cannot be placed on an instructions that use relative addressing.

4. SYSTEM RESPONSE

NOTE 14: When setting up a matcher, the system response is given after the last utility function is entered in the `WHEN` clause. The last utility function will end with an exclamation point (!).

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RL,CODE 180	Retry Later. Execution of GULP function is in progress.
RL,CODE 181	Retry Later. Message processing in progress.
RL,CODE 182	Retry Later. Data set input mode in progress on another channel.

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RL,CODE 183	Retry Later. Data set execution is in progress.
RL,CODE 185	Retry Later. No general buffer table (GBT) available or failure to page in GULP.

5. REFERENCES

PIDENTs
GULPUTPP
GULPUTXP
GULRUTCR

Input Messages
ALW:UTIL
ALW:UTILMSG
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CLR:UTILFLG
COPY:A1B
COPY:CS
COPY:CSS
COPY:FS
COPY:OWBUF
COPY:PSS
COPY:XS
DUMP:A1B
DUMP:CC
DUMP:CS
DUMP:CSS
DUMP:FS
DUMP:PSS
DUMP:REG
DUMP:TAPE
DUMP:UMEM
DUMP:XS
ELSE:0
IF:CC
IF:CS
IF:CSS
IF:PSS
IF:REG
IF:UMEM
INH:UTIL
INH:UTILMSG
LOAD:A1B
LOAD:CS
LOAD:CSS

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```
LOAD:PSS
LOAD:REG
LOAD:UMEM
LOAD:XS
WHEN:ADR
```

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4ESS™ 1B Processor Input/Output Message Error Reporting Form

Use this form to report errors and make suggestions for improving the contents of the manual or quarterly release. If an error relates to a specific message, please write your comments on a TTY output or a photocopy of the message documentation and attach it to this form.

Manual: Input ☐ Output ☐

Generic: _____ Issue: _____

Quarterly Release (If applicable) :_____

Message ID(s): _____

Comments: _____

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	Excellent	Good	Fair	Poor
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Front Matter				

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