



1631 SX LMC

Commands and Messages

PN 3AL45392AJ 01
R10.01, Issue 01, February 2005

THIS PRODUCT COMPLIES WITH D.H.H.S. RADIATION PERFORMANCE STANDARDS 21 CFR, 1040.10, FOR A CLASS 1 LASER PRODUCT.

DANGER

Invisible laser radiation is present when the optic connector is open. AVOID DIRECT EXPOSURE TO BEAM.

WARNING

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case users will be required to correct the interference at their own expense.

NOTICE

This manual applies to 1631 SX LMC R10.01 software. Release notes describing revisions to this software may impact operations described in this manual.

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1. INTRODUCTION

1.1. General

This Manual describes the Transaction Language 1 (TL1) command and response messages available in release 10.01.00 of the 1631 SX Digital Cross-Connect system. These messages consist of input commands, command output response messages (successful and unsuccessful), acknowledgement output messages, and autonomous output messages.

This section of the manual provides the general description and syntax for these messages.

A description of each input command and its associated output responses (successful and unsuccessful) is presented in Section 2 in alphabetical order by command code.

A description of each autonomous output message is presented in Section 3 in alphabetical order by response code.

Supplementary information is included in the appendices which follow Section 3. A list of the appendices is provided at the end of this Introduction.

This manual is intended for use by personnel involved in system installation and acceptance, technical support, facility provisioning, plant maintenance, remote administration, and Operations Support Systems development.

1.2. Conventions

The following conventions, described below, are used in this manual.

1.2.1. TL1 Syntax Characters

The following symbols are TL1 command input and response output syntax characters. Some of these symbols are also used in this manual for notational purposes in describing command input format and response output format, but these characters are only used as literal characters in an actual command input or response output as described below.

- : A colon is used to separate parameter blocks in an input command or in a parsable text output message.
- , A comma is used to separate parameters within a parameter block of an input command or an output response message.
- ; A semi-colon is used as a terminator to indicate the completion, and to identify the end, of an input command, a successful or unsuccessful output message, or an autonomous message. A semi-colon does not appear within a parsable text string or within free form, non-parsable, informational text.
- > A greater-than sign is used as a continuation message terminator and indicates additional output associated with the response will follow. A greater-than sign does not appear within a parsable text string or within free form informational text.
- < A less-than sign is used as an acknowledgement message terminator and identifies the end of an acknowledgement output message. A less-than sign does not appear within a parsable text string or within free form informational text.
- A hyphen is used to separate a command verb and modifiers (the command code) and to separate arguments of a compound parameter.
- = An equal sign is used to separate a keyword parameter from the keyword parameter value.
- & An ampersand is used to group parameter values in an input command (a list of parameter values is generated), and to combine parameter values in an output message (for example, secondary states). For additional information on parameter addressing rules, refer to Section 1.9., AID (Access Identifier) Addressing (&&-Ranging and &-Grouping Rules).

&&	A double-ampersand is used to represent numeric ranging on the argument value of a (simple or compound) parameter in an input command (a sequential series of parameter values is generated beginning with the first term specified to the last term specified). For additional information on parameter addressing rules, refer to Section 1.9., AID Addressing (&&–Ranging and &–Grouping Rules).
.++.	A period – plus sign – plus sign – period is used to indicate that a numeric incrementing value, other than one, is being specified for a numeric &&–range. (Adding the notation .++.N after the argument value specified in a numeric &&–range results in a sequential series of values where the argument value of the parameter is incremented by N.) For additional information on parameter addressing rules, refer to Section 1.9., AID Addressing (&&–Ranging and &–Grouping Rules).
“ ... ”	Enclosing quotation marks are used to enclose parsable text strings in an output response message line or to enclose a literal string used for an input parameter value.
/ * ... */	Beginning slash–asterisk and ending asterisk–slash are used to enclose non–parsable free–form text strings in an output response message line.
\ “ ... \”	Enclosing back–slash–quotation marks are used to enclose non–parsable free–form text strings within a parsable text string in an output response message line.

1.2.2. Valid Character Set

The valid character set for command input is:

Upper and lower case alphabetical characters unless otherwise specified

Decimal numerals 0 through 9

Special characters:

- _ underscore
- + addition or plus sign
- % percent sign
- # number or pound sign

In addition, the following special characters are reserved for TL1 command input syntax and may not be used as part of a parameter’s value unless otherwise specified in a command’s description.

- : colon
- ; semi–colon
- , comma
- hyphen or dash
- = equal sign
- & ampersand
- ” quotation mark

All alphabetic characters entered by the user must be in upper case except:

Command code (verb–modifier–modifier), which may be entered in either upper or lower case, or a mixture of upper and lower case.

Values for CTAG (Correlation Tag), which may be entered in upper or lower case.

Values for PID (Password Identifier), UID (User Identifier), UNAM (User Name), and PNAM (Process File Name), which must be entered in the same case as when created.

Values for TID (Target Identifier), which are converted to upper case for comparison to the provisioned SID (Site Identifier) value.

Values for SID, which are converted to upper case for comparison to the entered TID value.

Values for OSL (Output Subscription Level), which must be entered using the case as shown in the ENT–USER and ED–PRVG–USER command descriptions.

Extra spaces (“white spaces”) are ignored by the system's command parser when entered in a command input message in the following cases:

Before or after a command verb or verb modifier in a command code

Before or after a command syntax punctuation or operator character,
(i.e., : , ; - = & && &- &&- .++ .)

Before or after a command parameter name or a parameter value.

The case of characters displayed by output messages is the same case as entered or as when created except:

Values for TID, which are always displayed in upper case.

Values for SID, which are always displayed in upper case.

Leading zeroes in parameter values can be entered in a command input, but may be truncated by the system, depending on the specific parameter. In general, leading zeroes in parameter values that are decimal numerals less than ten digits (nine digits or less) are truncated by the system. Leading zeroes in decimal numerals greater than or equal to ten digits are not truncated and are treated as a literal string by the system. Parameter values that are treated as a literal string (leading zeroes are not truncated), regardless of the value's length, are specifically identified as such in a command's description in Section 2.

Following definition is used for 'Printable ASCII characters' when they are retrieved :

All NULL characters (00 hex) are replaced with a period (.) character (2E hex).

All control characters (i.e., 01 hex to 1F hex and the value 7F hex) are replaced with a question mark (?) character (3F hex).

All double quote (") and back slash (\) characters (22 hex and 5C hex respectively) are replaced with a question mark (?) character(3F hex).

All 8 bit characters (i.e., 80 hex to FF hex) are replaced with a question mark (?) character (3F hex).

All other characters are left unchanged.

1.2.3. Parameter Value Set Notation

In most cases, an input parameter of a command has more than one possible value. A parameter's set of values, or domain, is defined in this manual by using the following notation:

- , A comma is used to separate parameter values when multiple values exist.
- A hyphen is used to indicate a range of values for the parameter, or a range of values within an argument of a compound parameter. For example, 1–12 indicates a value set of 12 discrete values from one through twelve. A hyphen may also be a literal character of a compound parameter's value.
- <...> Enclosing less-than and greater-than signs are used to enclose a description of the parameter's domain when this is more understandable than an exact definition of the domain. For example,

- < 1 – 6 VALID CTAG CHARACTERS >
describes the CTAG domain of 1–6 case sensitive alphanumeric characters.
- {...} Enclosing braces are used to enclose a set of values. Enclosing braces may be nested. For example:
Enclosing braces as used to enclose a set of values.
 {LOF, LOFLOS, LOS}
describes a value set consisting of the values LOF, LOFLOS, and LOS.
Enclosing braces as used to enclose an argument of a compound parameter when a range of values exist for the argument of the compound parameter.
 {ABC – {1–16} – {1–16} }
describes a value set of 256 discrete values from ABC–1–1 through ABC–16–16 (note that the hyphens outside of the braces are literal characters in the parameter's value).
Braces are used to enclose a value subset that has been named to provide additional clarity. A value subset may be named when the possible values of a parameter consist of more than one type of value (or when naming the value set provides additional clarity). When a value subset is named, the name of the value subset and the value subset are separated by a colon (:).
 {Date:{0–99} – {1–12} – {1–31},
 Day:{SUN,MON,TUE,WED,THU,FRI,SAT,ALL,ODD,EVEN} }
describes a value set that consists of two types of value subsets, one value subset named Date and the other value subset named Day.
- :
- A colon is used to separate the name of a value subset and the value subset when the value subset has been named for additional clarity. Refer to the example above.
- <NoVal> The notation <NoVal> is used to indicate a parameter value of “no value”. <NoVal> is used in describing input parameters when an unpopulated (not entered) parameter value has an explicit definition other than another specific parameter value or “previously existing value”. (Refer to RTRV–TACC for an example of the use of <NoVal>). <NoVal> is used in describing output parameters when no displayed output parameter value is part of the output parameter value set.

1.2.4. Command Input Format Notation

The following notation is used in this manual to describe a command's input format:

- [...] Enclosing brackets are used to enclose an optional command input parameter.
- <...> Enclosing less-than and greater-than signs are used to indicate a value substitution. The enclosing less-than and greater-than signs are not part of the actual input command. Generally, this notation is only used in this section to provide additional clarity in the syntax descriptions for an input command.

Also refer to Section 1.2.1., TL1 Syntax Characters, for a description of the TL1 command input syntax characters, and to Section 1.6., Command Input Format, for a description of each command input parameter block.

1.2.5. Output Response Format Notation

The following notation is used in this manual to describe a command's output response message or an autonomous output response message:

- ^ A caret is used to identify a space in a output response message. Generally, this notation is only used in this section to provide additional clarity in the syntax descriptions for output messages.
- cr “cr” (carriage return) is used to indicate a carriage return in an output response message. Generally, this notation is only used in this section to provide additional clarity in the syntax descriptions for output messages.
- lf “lf” (line feed) is used to indicate a line feed in an output response message. Generally, this notation is only used in this section to provide additional clarity in the syntax descriptions for output messages.

- (...) Enclosing parenthesis may be used to enclose a group of symbols in an output response, generally to provide additional notational clarity. Enclosing parenthesis are also used in the non-parsable command echo line (refer to Section 1.7., Command Response Messages) to enclose the Communications Interface device (CID) or Order Number (ON) pertaining to the output response message. The enclosing parenthesis are not part of the actual output message, except when used in the command echo line of an output response.
- [...] Enclosing brackets are used to enclose an optional item or group of items (for example, a parameter or output response message line) in an output response. Enclosing brackets are also used in the non-parsable command echo line (refer to Section 1.7., Command Response Messages) to enclose the CTAG value pertaining to the output response message. The enclosing brackets are not part of the actual output message, except when used in the command echo line of an output response.
- <...> Enclosing less-than and greater-than signs are used to indicate a value substitution. The enclosing less-than and greater-than signs are not part of the actual output message.
- {...} Enclosing braces are used to enclose a set of values. Generally, enclosing braces are used in the notation for the non-parsable command echo line and in describing an output parameter's value set. The enclosing braces are not part of the actual output message.
- ,
- A comma is used to separate parameters within an output response message, and is also used as part of a parameter's value set notation to separate parameter values. When used to separate parameter values within a value set, the separating comma is not part of the actual output message.
-
- A hyphen is used in describing an output parameter's value set to indicate a range of values for the parameter, or a range of values within an argument of a compound parameter. A hyphen may also be a literal character of a compound parameter's value.
- *
- An asterisk that is following enclosing brackets or parenthesis is used to indicate the enclosed item may appear in an output response message zero, one, or more times. The enclosing brackets or parenthesis and asterisk are not part of the actual output message. Generally, this notation is only used in this section to provide additional clarity in the syntax descriptions for output messages.
- +
- A plus sign that is following enclosing brackets or parenthesis is used to indicate the enclosed item may appear in an output response message one or more times. The enclosing brackets or parenthesis and plus sign are not part of the actual output message. Generally, this notation is only used in this section to provide additional clarity in the syntax descriptions for output messages.

1.3. Command Descriptions

Command descriptions for each command are located in Section 2 of this manual. Each command description consists of the following subsections:

- **Command Header**, located at the top of the first page of each command description, consists of the command code (verb and one or two modifiers) and the command name. For example:
COMMAND CODE: **ENT-T3**
COMMAND NAME: **ENTER T3**
- **Purpose** provides information on the use, effect, and function of the command.
- **Input Format** shows the command's TL1 input syntax. Refer to Section 1.6., Command Input Format, for a description of the format and notation for a TL1 command as used in this manual.
- **Input Parameters** describes the input parameters and parameter values that can be used with the command. Keyword-defined parameters are (generally) shown in alphabetical order, but may be entered in any order (the keyword defines the parameter value being entered). Refer to Section 1.3.1., Input Parameter Descriptions, for a description of the format used for this subsection of a command description.

- **Successful Response Format** shows the normal (successful) response format for the command. Keyword-defined parameters are (generally) shown in alphabetical order, but the system may generate an output response message with the keyword parameters in non-alphabetical order (the keyword in the output response defines the parameter value being reported). Refer to Section 1.7., Command Response Messages, for a description and syntax of command output response messages.
- **Acknowledgement Response Format** shows any unique acknowledgement response format for the command. An acknowledgement response format is only shown when a unique acknowledgement response is generated by the command (the standard In-Progress acknowledgement response format is not shown with each command description). Refer to Section 1.7.1., Acknowledgement Response Format, for a description and syntax of acknowledgement responses.
- **Output Parameters** describes the output parameters and parameter values shown in the output response message, if any, except for parameters in the response header. An Output Parameters subsection is not shown if the command does not provide output parameters. Refer to Section 1.3.2., Output Parameter Descriptions, for a description of the format used for this subsection of a command description.
- **Unsuccessful Response Format** shows the error (unsuccessful) response format for the command. Refer to Section 1.7., Command Response Messages, for a description and syntax of command output response messages.
- **Error Codes** lists the error codes associated with the command's unsuccessful response. The error code acronym, the expanded error code description, and any informational error description text that may be generated by the system for the Error Code, is provided for each Error Code listed. Error Codes common to all commands that are generated because of a Command Parser error are shown in Appendix D, Error Codes, and are not duplicated in this section. Only non-Parser generated Error Codes are shown in this subsection.
- **Examples** provides one or more illustrations on the use of the command.
- **Related Commands** provides a list of closely related or prerequisite (commands that must be executed before the described command can be executed) commands.
- **Related Autonomous Responses** provides a list of closely related autonomous response messages, if any. This subsection is not shown if there are no related autonomous responses.

1.3.1. Input Parameter Descriptions

The Input Parameters subsection of a command description describes all required and optional parameters listed in the Input Format subsection of a command description, and describes the possible values, default value, and any addressing or restrictions for each parameter. The general format of the Input Parameters subsection is:

```

PARM          {PARAMETER_VALUE_SET}
              Default:      {Default Value}
              Addressing:    Any parameter addressing or grouping rules
              Description:    Description of the parameter. Values are:
                              PARM_VALUE Description of the input parameter's values.
              Restrictions:    Any restrictions pertaining to the parameter or parameter's values.
```

where:

- **PARM**: the parameter identifier. A positional parameter is identified by PARM, a keyword parameter is identified by PARM=.
- **PARAMETER_VALUE_SET**: the parameter's set of values or domain.
- **Default**: the default value of the parameter if the parameter is omitted from the input command (the parameter value assumed by the system and/or obtained via an associated retrieve command if the parameter is not entered in the command).

- Addressing: any addressing rules that may apply to the parameter. In most cases, parameter addressing only applies to the AID parameter, in which case the type of AID addressing supported is specified. If no addressing is supported, "None" is specified. In a few cases, a description of any unique addressing supported for a specific parameter is provided.
- Description: the input parameter's name and a brief description of the parameter.
- PARM_VALUE: the parameter's value identifier and description for each of the parameter's values. PARM_VALUE is only shown when applicable, for example, it's not shown for the TID or CTAG parameters.
- Restrictions: any restrictions pertaining to the parameter or the parameter's values. Restrictions are only described when applicable.

1.3.2. Output Parameter Descriptions

The Output Parameters subsection of a command description describes all output parameters included in the command's successful response message, except those in the response header. If the command does not produce output parameters, this subsection does not appear. The format of the Output Parameters subsection is:

```
PARM          { PARAMETER VALUE SET }  
              Parameter Name. Description of the Output Parameter. Values are:  
                PARM_VALUE Value's Name. Description of the output parameter's value.
```

where:

- PARM: the output parameter's identifier.
- PARAMETER VALUE SET: the output parameter's set of values or domain.
- PARM_VALUE: the parameter's value identifier and description for each of the output parameter's values. PARM_VALUE is only shown when applicable.

1.4. Autonomous Response Descriptions

Autonomous response descriptions for each autonomous response are located in Section 3 of this manual. Refer to Section 1.8., Autonomous Response Messages, for a description and syntax of autonomous response messages. Each autonomous response description consists of the following subsections:

- **Response Header**, located at the top of the first page of each autonomous response description, consists of the autonomous response code (verb and one or two modifiers) and response name. For example:
RESPONSE CODE: REPT^EVT^T3
RESPONSE NAME: REPORT EVENT T3
- **Purpose** provides information on the function or cause of the autonomous response.
- **Response Format** shows the response format for the autonomous response.
- **Output Parameters** describes the parameters and parameter values shown in the autonomous response message, except for parameters in the response header. The description format for this subsection is the same as that used for describing a command's output parameter. (Refer to Section 1.3.2., Output Parameter Descriptions.)
- **Examples** provides one or more illustrations of the autonomous response message.
- **Related Commands** identifies closely related commands, if any.
- **Related Autonomous Responses** provides a list of closely related autonomous response messages, if any. This subsection is not shown if there are no related autonomous responses.

1.5. Command Entry

User access is provided through control ports (CPORTs) that connect to video display terminals (VDT – VT220 or compatible), Teletype (TTY) terminals, printers, or Operations Support Systems (OSSs).

Two command entry modes are available, Direct Input Command Entry mode (supported for VDT and TTY terminals) and Menu Entry mode (supported for VDT terminals only). In Direct Input Command Entry mode, commands are entered in their entirety by the user. In Menu Entry mode with VDT terminals, applicable parameters and values are presented in Form screens for each command.

1.5.1. Direct Input Command Entry Mode

In Direct Input Command Entry mode, commands are entered by typing the desired command on the command input line, ending with a ; (semi-colon). The system echoes keyboard entries in this area as they are typed.

1.5.2. Menu Entry Mode

In the VDT Menu Entry mode, a task-oriented hierarchy of menu and form screens are provided to simplify the task of entering commands. Commands are entered by making selections from the series of menus displayed in the on-screen work area. A menu is selected by typing the letter corresponding to the selection desired. The system then displays either a more detailed menu or a command input form. The input form contains fields in which parameter data required to execute the command are entered.

1.6. Command Input Format

A TL1 command is an input message which consists of a command code, blocks of parameters, and punctuation. The input message begins with the command verb and must end with a semicolon (;) terminator. The general command input format takes the form:

VERB-MODIFIER[-MODIFIER]:[TID]:[AID]:[CTAG]:[GENERAL]:[POSITIONAL]:[KEYWORD]:[STATE];

Some commands (for example, the CONN-TACC-T3 command) have an input format where all parameter blocks following the General Block are positional parameter blocks. In these cases, the command input format takes the form:

VERB-MODIFIER[-MODIFIER]:[TID]:[AID]:[CTAG]:[GENERAL]:[POSITIONAL]: . . . :[POSITIONAL];

A series of parameter blocks follow the command code. Parameter blocks contain zero, one, or more parameters. Parameter blocks are separated from the command code, and from each other, by a colon (:). Parameters within a parameter block are separated from each other by a comma (,). All parameter blocks are not required by all commands, nor are all parameters always required for each block.

Brackets [...] are used in the command input format to indicate optional parameters within a block. Absence of brackets indicate the parameter must be entered. The brackets are not entered as part of the actual command and are shown only for notational purposes. The syntax characters , (comma) or : (colon) can also be optional (as described below), but brackets are not necessarily used to indicate that they are optional.

If one or more parameter blocks are omitted from the end of a command (no parameters are entered in the last block(s) of a command), the trailing colons associated with them may be omitted. In addition, if one or more parameters are omitted from the end of a parameter block, the trailing commas associated with them may be omitted. However, if an optional parameter value in a positional parameter block is omitted with other positional parameter values following, all of the intervening place-holder commas must be provided to indicate no value is being entered for that positional parameter. No additional commas are needed if an optional keyword parameter is omitted from a keyword parameter block; only commas separating each keyword parameter are required in the keyword parameter block.

1.6.1. TID Parameter Block

The Target Identifier (TID) is optional and is the first block after the command code. The TID value is used to specify the target system for remotely issued commands. If unpopulated (not entered), the system assumes a TID value of the (upper-case) Site Identifier (SID) value. If a value is entered for TID, that value is converted to upper case and compared with the provisioned (upper-case) SID value. The command is denied if the converted upper-case TID value and the provisioned (upper-case) SID value don't match.

Valid values for TID are up to 20 alphanumeric characters, including up to four non-consecutive – (hyphen) characters. A TID value must begin with an alphabetic character and may not begin or end in a – (hyphen) character. No other special characters are allowed. If a TID value contains a – (hyphen), any leading zeroes are truncated unless the TID value is entered as a literal string by enclosing the value within quotes (" ... ").

1.6.2. AID Parameter Block

The Access Identifier (AID) may be optional and is the second parameter block after the command code. An AID value is generally a compound value and directs an input command to its intended equipment, facility, or data entity. Refer to Appendix B, Access Identifiers (AIDs), for a description of the AID formats used in the system for the following types of entities.

- **Equipment**
- **OC3**
- **OC12**
- **EC1**
- **STS-1**
- **STS-3C**
- **VT1.5**
- **DS3**
- **DS1**
- **F3 (Fractional T3)**
- **Stratum Synchronization Timing Reference Source**
- **Communication Port**

1.6.3. CTAG Parameter Block

The Correlation Tag (CTAG) is an optional block and is used to correlate an input command with its associated output message by copying the command's CTAG value into the appropriate field of the command's output response. A CTAG value is generated by the system for every command. If a user-specified CTAG value is entered in a command, the system-generated CTAG value is discarded and the user-specified CTAG value is used in the output response. However, the discarded system-generated CTAG value is not re-used for the next non-specified CTAG value since each system-generated CTAG value is assigned a sequential modulo value.

In the case where an invalid user-specified CTAG value is entered with a command, or the system is unable to parse the input command, the system provides a single decimal character zero (0) CTAG value in the output response for the command.

In the case where a control port (a non-X.25 CPORT or an X.25 virtual channel) is provisioned to automatically log-in a user (refer to ENT-CID, ENT-CID-VC, and ENT-OSADDR-SITE), the system generates an ACT-USER successful response message with a CTAG value of AUTOIN when the user identity (UID) auto-login is complete.

Valid values for a user-specified CTAG value are up to six case-sensitive alphanumeric characters, in any order. No special characters are allowed.

The format for the system-generated CTAG value is Pxxddd where P is the upper-case alphabetic character P, x is hexadecimal 0 – f, and d is decimal 0 – 9; a single decimal character zero; or the upper-case alphabetic characters AUTOIN.

(Refer to Section 1.8., Autonomous Response Messages, for a description of system-generated message TAGs for autonomous (ATAG), informational (ITAG), and keep-alive (KATAG) messages.)

1.6.4. General (Delayed Activation) Parameter Block

The general block is used for specifying delayed activation (DA) parameters. Delayed activation is only supported by those commands that include the general block in the command's input format. Brackets are used to indicate an optional parameter value. If one or more parameter values are omitted from the end of the block, the trailing commas associated with them may be omitted. However, if a parameter value is omitted with other positional parameter values following, all of the intervening place-holder commas must be provided to indicate no value is being entered for that parameter. The system assumes the default parameter value for omitted optional parameter values. Delayed activation is discussed in Section 1.10., Delayed Activation. The format of the general block is:

: [<ON>] , [<DATE>] , [<TIME>] , [<FLAG>]

For notational simplicity, the enclosing less-than and greater-than signs are not shown in a command description in Section 2 when describing a command's TL1 syntax. Only the parameter name and brackets to identify an optional parameter are shown in the parameter block (: [ON] , [DATE] etc.), but the appropriate parameter value must be entered for a parameter in an actual input command.

1.6.5. Positional Parameter Block

Parameters in the positional block are defined by their position or sequence in the block. Brackets are used to indicate optional parameter values. Absence of brackets indicate the parameter value must be entered. If one or more parameter values are omitted from the end of the block, the trailing commas associated with them may be omitted. However, if an optional parameter value is omitted with other positional parameter values following, all of the intervening place-holder commas must be provided to indicate no value is being entered for that parameter. The system assumes the default parameter value for omitted optional parameter values. Parameter value combinations are verified by the system whether the value is determined from a default value or explicitly entered in the command. The format for a positional parameter block is:

: [<PARM#1_Value>] , [<PARM#2_Value>] , [<PARM#3_Value>] , . . . , [<PARM_Value#n>]

For notational simplicity, the enclosing less-than and greater-than signs are not shown in a command description in Section 2 when describing a command's TL1 syntax. Only the parameter name, and any brackets to identify an optional parameter, are shown in the parameter block (: [PARAMETER#1], [PARAMETER#2] etc.), but the appropriate parameter value must be entered for a parameter in an actual input command.

1.6.6. Keyword Parameter Block

Parameters in the keyword block are defined by the use of a keyword parameter name. A value for a keyword parameter is specified by entering the parameter name followed by an = (equal) sign, followed by the parameter value. Keyword parameters may be entered in any order within the keyword block but must be separated by a comma. Only commas separating each keyword parameter are required in the keyword parameter block, but the keyword block may not begin or end with a comma. Brackets are used to indicate optional parameters and their associated comma separators. Absence of brackets indicate the parameter and any comma separator must be entered. The system assumes the default parameter value for omitted keyword parameters or omitted keyword parameter values. Parameter value combinations are verified by the system whether the value is determined from a default value or explicitly entered in the command. The format for a keyword parameter block is:

: [KEYWORD#1=VALUE#1] [, KEYWORD#2=VALUE#2] . . . [, KEYWORD#n=VALUE#n]

For notational simplicity, keyword parameters in a command description in Section 2 are (generally) shown in alphabetical order, but the keyword parameter value is not shown when describing a command's TL1 syntax. Only the keyword parameter name followed by an equal sign, and any brackets to identify an optional parameter, are shown in the parameter block (: [KEYWORD#1]=[, KEYWORD#2=] etc.), but the keyword parameter and keyword value must be entered in an actual input command.

1.6.7. State Parameter Block

The state parameter block is a positional block with parameters defined by their position or sequence in the block. The state block is only supported by those commands that include it in the command's input format. When supported, up to two parameters are possible for the state block, the PST (Primary State) parameter and SST (Secondary State) parameter. Brackets are used to indicate optional parameter values. Absence of brackets indicate the parameter value must be entered. If the SST parameter value is omitted from the end of the block, the trailing comma associated with it may be omitted. However, if an optional PST parameter value is omitted with an SST positional parameter value following, the intervening place-holder comma must be provided to indicate no value is being entered for the PST parameter. The system assumes the default parameter value for omitted optional parameter values. Parameter value combinations are verified by the system whether the value is determined from a default value or explicitly entered in the command. The format for a state parameter block is:

```
: [<PST>] , [<SST>]
```

For notational simplicity, the enclosing less-than and greater-than signs are not shown in a command description in Section 2 when describing a command's TL1 syntax. Only the parameter name, and any brackets to identify an optional parameter, are shown in the parameter block (:[PST],[SST]), but the appropriate parameter value must be entered for a parameter in an actual input command.

1.7. Command Response Messages – General

Command response messages provide information (data, status, etc.) as a result of entering a command. A successfully executed command results in a successful response. Commands which did not execute properly result in unsuccessful responses. If a successful or unsuccessful response cannot be sent within two seconds of receipt of an input command, one or more In-Progress acknowledgement response messages are sent to the user. If the user is provisioned appropriately (refer to the ENT-USER and ED-PRVG-USER commands), an additional In-Progress acknowledgement response message is sent to the user every MIPINTVL (Multiple In-Progress message Interval) until a successful or unsuccessful response is generated. The following general information applies to all response messages:

- All responses, except an Acknowledgement Response, begin with a header line:
cr If If
^^^<SID>^<YY-MM-DD>^<HH:MM:SS>
where:
 - SID is the upper-case Site Identifier as created using the SET-SID command.
 - YY-MM-DD is the year-month-day, where YY is the last two digits of the year, MM is the month, and DD is the day of the month. The range for MM is from 01 to 12 and the range for DD is from 01 to 31.
 - HH:MM:SS is the current time of day, where HH is the hour with a range from 00 to 23, MM is the minutes, SS is the seconds. The range for MM and SS is from 00 to 59.
- The last response line before the message terminator is a non-parsable "command echo" line. Presence of the command echo line in all types of output messages is controlled by the user's Output Subscription Level (OSL) O-flag set using the ENT-USER or ED-PRVG-USER command. If a user has the O-flag set, the user receives the command echo line as part of the output response, otherwise the user does not receive the command echo line. The format of a command echo line is:
^^^/*^<Command_Echo>^ [<CTAG>] ^ (<CID [-VCNUM] >) ^*/
or
^^^/*^<Command_Echo>^ [<CTAG>] ^ (CRON:<Order_Number>) ^*/
with a composite format representation of
^^^/*^<Command_Echo>^ [<CTAG>] ^ ({<CID [-VCNUM] >, CRON:<Order_Number>}) ^*/
where:
 - <Command_Echo> is an exact matching of the input command entered, except for commands that have password as an input parameter (ACT-USER, ENT-USER, ED-PID commands) do not display any parameter values after the CTAG as part of the command echo.

- <CTAG> is the associated CTAG value, displayed within brackets [...].
- <CID[-VCNUM]> is the control port number and virtual channel number, if any, used to enter the command, displayed within parenthesis (...).
- CRON:<Order_Number> is the delayed activation order number used to enter the command, displayed within parenthesis (...).

Two examples of a non-parsable command echo line are:

```
/* DLT-T3:APS672:8-22 [Paf285] (3-4) */
/* act-db-backup::OPD-1-3-1:: [P5d431] (CRON:246) */
```

- The maximum character length of any output response line is 256 characters. Output response lines that are longer than the terminal (VDT, TTY, or printer) display line automatically wrap to the first character position of the next line if the terminal is supporting an auto-wrap capability. The system does not insert a "cr lf" within a single output response line to prevent line "run-off" on terminals that do not have an auto-wrap capability.
- If the VDT abort output function key (F12) is pressed while the VDT is currently receiving output, that output is terminated, and the message /* Output aborted by user */ is displayed, followed by the message terminator (; , < , >) of the message that was aborted.

The system supports five command completion codes: **CANCLD** (Cancelled), **COMPLD** (Completed), **DELAY** (Delay Activated), **DENY** (Denied), and **PRTL** (Partial). The response format for the commands that can generate a CANCLD completion code is provided in the specific command description. Refer to Sections 1.7.2. through 1.7.8. for the general format of response messages that use the COMPLD, DENY, PRTL, or DELAY completion codes.

1.7.1. Acknowledgement Response Format

If the system is unable to complete a command within two seconds, a command acknowledgement response message (In-Progress message) is automatically generated. Additional In-Progress acknowledgement responses are generated if the user is provisioned to receive them (refer to the ENT-USER and ED-PRVG-USER commands). An acknowledgement response does not interrupt other output responses currently in progress.

The presence of the "cr lf" at the beginning of an acknowledgement message, any non-parsable (/ * ... */) lines containing informational text, and the non-parsable command echo line in an acknowledgement response is controlled by the user's Output Subscription Level (OSL) O-flag set using the ENT-USER or ED-PRVG-USER command.

IP (In-Progress) Acknowledgement Message: The IP (In-Progress) acknowledgement message indicates the command has been initiated and a completion message (CANCLD, COMPL, DELAY, DENY, PRTL) follows. An IP acknowledgement message is also used to provide error information when a Non-Administration, Retrieval command is issued using &&-ranging or &-grouping (for additional information, refer to Section 1.9., AID Addressing) and the command fails to execute for some of the AIDs within the range (refer to Section 1.7.5., Response Format – Non-Administration Retrieval Commands with &&-Ranging/&-Grouping). The general format of an IP acknowledgement message is:

```
[cr lf]
IP^<CTAG> cr lf
[^^^/*^<Free_Form_Informational_Text>^*/ cr lf] *
[^^^/*^<Command_Echo>^ [<CTAG>] ^ ( {<CID [-VCNUM] >, CRON:<Order_Number> } ) ^*/ cr lf ]
<
```

OK (Good) Acknowledgement Message: The OK (Good) acknowledgement message indicates a REPT-INITZN or REPT-STAT command was received and the requested action was initiated and completed. This response is only returned for the REPT-INITZN or REPT-STAT commands and no additional successful or unsuccessful response is returned for these commands. The general format of an OK acknowledgement message is:

```
[cr lf lf]
OK^<CTAG> cr lf
[^^^/*^<Free_Form_Informational_Text>^*/ cr lf ]*
[^^^/*^<Command_Echo>^ [<CTAG>] ^ ({<CID [-VCNUM] >, CRON:<Order_Number>}) ^*/ cr lf ]
<
```

The IP and OK acknowledgement responses are the only types of acknowledgement messages provided. The PF (Printout Follows), NA (No Acknowledgement), NG (No Good), and RL (Repeat Later) acknowledgement messages are not supported. The system generates an unsuccessful response message in lieu of any acknowledgement error response. Refer to Section 1.6.3., CTAG Parameter Block, for a description of CTAG values in output response messages.

1.7.2. Successful Response Format – Single AID

A single successful response message is generated if a command with a single AID specified is successfully executed. Information displayed in the response varies with each command and is specified in the command description. The general format of a successful response message is shown below.

The presence of the non-parsable command echo line in the successful response is controlled by the user's Output Subscription Level (OSL) O-flag set using the ENT-USER or ED-PRVG-USER command.

```
cr lf lf
^^^<SID>^<YY-MM-DD>^<HH:MM:SS> cr lf
M^^<CTAG>^COMPLD cr lf
[^^^"<Parsable_Output_Data>" cr lf ]*
[^^^/*^<Free_Form_Informational_Text>^*/ cr lf ]*
[^^^/*^<Command_Echo>^ [<CTAG>] ^ ({<CID [-VCNUM] >, CRON:<Order_Number>}) ^*/ cr lf ]
;
```

1.7.3. Unsuccessful Response Format

A single unsuccessful response message is generated if:

- A command (other than to establish a log-in session) with a **single AID** specified fails to execute (**Single Error Denial Response** generated).
- A **Non-Administration** (Retrieval or Non-Retrieval) command (for additional information, refer to Section 1.7.4. through 1.7.6.) is issued using &&-ranging or &-grouping (refer to Section 1.9., AID Addressing) and the command **fails to execute for all** of the specified AIDs for a **single error code** (fails to execute for only one type of error – **Single Error Denial Response** generated).
- A **Non-Administration** command is issued using &&-ranging or &-grouping and the command **fails to execute for all** of the specified AIDs for **multiple error codes** (fails to execute for more than one type of error – **Multiple Error Denial Response** generated).
- An ACT-USER command to establish a log-in session fails to execute (**Session Attempt Denial Response** generated).

The information displayed in an unsuccessful response message varies for different commands and is specified in the command description. If a parsable line of output data is provided, the <Parameter_Block> field provides information about the location of any error(s) in the input command.

The presence of the non-parsable Expanded Error Code Description line, the non-parsable Optional Suggested Action Text line, and the non-parsable command echo line in an unsuccessful response is controlled by the user's Output Subscription Level (OSL) O-flag set using the ENT-USER or ED-PRVG-USER command.

Single Error Denial Response: The general format of an Single Error Denial Response is:

```

cr lf lf
^^^<SID>^<YY-MM-DD>^<HH:MM:SS> cr lf
M^^<CTAG>^DENY cr lf
^^^<Error_Code> cr lf
([^^^<AID>[,<AID>][(:<Parameter_Block>)*]" cr lf ]
[^^^/*<Informational_Error_Description_Text>^*/ cr lf ])*
[^^^/*<Expanded_Error_Code_Description>^*/ cr lf ]
[^^^/*<Optional_Suggested_Action_Text>^*/ cr lf ]
[^^^/*<Command_Echo>^ [<CTAG>] ^ ( {<CID [-VCNUM] >, CRON:<Order_Number>} ) ^*/ cr lf ]
;

```

Multiple Error Denial Response: The general format of an Multiple Error Denial Response is:

```

cr lf lf
^^^<SID>^<YY-MM-DD>^<HH:MM:SS> cr lf
M^^<CTAG>^DENY cr lf
^^^MERR cr lf
(^^^<AID>]:ERCDE=<Error_Code>[,<Parameter_Block>(:<Parameter_Block>)*]" cr lf ]
[^^^/*<Informational_Error_Description_Text>^*/ cr lf ]
[^^^/*<Expanded_Error_Code_Description>^*/ cr lf ])*
[^^^/*Multiple ERROR^*/ cr lf ]
[^^^/*<Command_Echo>^ [<CTAG>] ^ ( {<CID [-VCNUM] >, CRON:<Order_Number>} ) ^*/ cr lf ]
;

```

Session Attempt Denial Response: In the special case where a user attempts to log-in to the system (using the ACT-USER command) but enters an incorrect UID (User Identifier) or an incorrect PID (Password Identifier), the system generates the following unsuccessful response message. For security reasons, an Error Code is not provided with this response.

```

cr lf lf
^^^<SID>^<YY-MM-DD>^<HH:MM:SS> cr lf
M^^<CTAG>^DENY cr lf
^^^/*session not active^*/ cr lf
;

```

1.7.4. Response Format – Administration Commands with &&-Ranging/&-Grouping

If an Administration command (see list below) is issued using &&-ranging or &-grouping (for additional information, refer to Section 1.9., AID Addressing) and the command fails to execute for some of the AIDs within the range, a separate and complete successful (COMPLD) or unsuccessful (DENY) response is generated for each unique AID value in the range or list. A separate successful response output is provided for each successfully processed AID value and a separate unsuccessful response output is provided for each unsuccessfully processed AID value. However, each successful or unsuccessful response output associated with the entered command has an identical CTAG value (all responses are correlated to the same CTAG). Depending on the command entered, information lines are presented as either parsable output data or as non-parsable free form informational text.

The presence of any non-parsable Expanded Error Code Description lines, any non-parsable Optional Suggested Action Text line, and any non-parsable command echo line in each response is controlled by the user's Output Subscription Level (OSL) O-flag set using the ENT-USER or ED-PRVG-USER command.

The following are the **Administration commands that support &&-ranging and &-grouping:**

- | | | |
|---------------|--------------------|-------------------|
| • ACT-DA | • ED-PARTITN-OC3 | • RTRV-CID |
| • CANC-DA | • ED-PARTITN-OC12 | • RTRV-DA |
| • DLT-CID-VC | • ED-PARTITN-STS1 | • START-CID |
| • ED-CID-LCTN | • ED-PARTITN-STS3C | • START-MON-CPORT |
| • ED-CID-VC | • ED-PARTITN-T1 | • STOP-CID |

- ED-PARTITN-EC1
- ED-PARTITN-T3
- STOP-MON-CPORT
- ED-PARTITN-F3
- ED-PARTITN-VT1

Partially Successful Administration Command Response: The general format for the response messages to a partially successful Administration command using &&-ranging/&-grouping is shown below:

```
(cr lf lf
^^^<SID>^<YY-MM-DD>^<HH:MM:SS> cr lf
M^^<CTAG>^COMPLD cr lf
[^^^"<Parsable_Output_Data>" cr lf ] *
[^^^/*^<Free_Form_Informational_Text>^*/ cr lf ] *
[^^^/*^<Command_Echo>^[<CTAG>]^( {<CID [-VCNUM] >, CRON:<Order_Number> } ) ^*/ cr lf ]
; ) *
(cr lf lf
^^^<SID>^<YY-MM-DD>^<HH:MM:SS> cr lf
M^^<CTAG>^DENY cr lf
^^^<Error_Code> cr lf
[^^^/*^<Informational_Error_Description_Text>^*/ cr lf ] *
[^^^/*^<Expanded_Error_Code_Description>^*/ cr lf ]
[^^^/*^<Optional_Suggested_Action_Text>^*/ cr lf ] *
[^^^/*^<Command_Echo>^[<CTAG>]^( {<CID [-VCNUM] >, CRON:<Order_Number> } ) ^*/ cr lf ]
; ) *
```

1.7.5. Response Format – Non–Administration RETRIEVAL Commands with &&–Ranging/&–Grouping

A single successful or partially successful response message is generated for a Non–Administration (refer to Section 1.7.4.) Retrieval command (a command with a verb of RTRV) issued using &&–ranging or &–grouping (for additional information, refer to Section 1.9., AID Addressing) and the command:

- Successfully **completes for all** of the AIDs specified (**Successful Non–Administration RETRIEVAL Response** generated). In this case, all successful reports are grouped within a single successful (COMPLD) response message.
- Successfully **completes for some** of the AIDs specified (**Partially Successful Non–Administration RETRIEVAL Response** generated). In this case, all successful reports are grouped within a single successful (COMPLD) response message, and all unsuccessful reports are grouped within a single IP (In–Progress) acknowledgement message, with an identical CTAG value provided for both the successful (COMPLD) and acknowledgement (IP) messages. The IP acknowledgement message is transmitted before the successful response message. (A denial response message is generated, refer to Section 1.7.3., Unsuccessful Response Format, if the command fails to execute for all AIDs.)

The information displayed in the successful or partially successful response message varies for different commands and is specified in the command description. If a parsable line of output data is provided in a partially successful IP (In–Progress) response message, the <Parameter_Block> field provides information about the location of the error(s) in the input command.

The presence of the non–parsable Expanded Error Code Description line, the non–parsable Optional Suggested Action Text line, and the non–parsable command echo line in the response is controlled by the user's Output Subscription Level (OSL) O–flag set using the ENT–USER or ED–PRVG–USER command.

Successful Non–Administration RETRIEVAL Response: The general format of a Successful Non–Administration Retrieval Response is:

```
cr lf lf
^^^<SID>^<YY-MM-DD>^<HH:MM:SS> cr lf
M^^<CTAG>^COMPLD cr lf
[^^^"<AID>[,<AID>][:<Parsable_Output_Data>]" cr lf]*
[^^^/*^No match was found in the specified Range^*/ cr lf]
[^^^/*^<Command_Echo>^ [<CTAG>] ^ ( { <CID [-VCNUM] >, CRON: <Order_Number> } ) ^*/ cr lf]
;
```

Partially Successful Non–Administration RETRIEVAL Response: The general format of a Partially Successful Non–Administration Retrieval Response is:

```
[cr lf lf]
IP^<CTAG> cr lf
(^^^/*^<AID>[,<AID>]:ERCDE=<Error_Code>[,<Parameter_Block>(:<Parameter_Block>)*]^*/ cr lf
[^^^/*^<Informational_Error_Description_Text>^*/ cr lf]
[^^^/*^<Expanded_Error_Code_Description>^*/ cr lf] )+
[^^^/*^<Command_Echo>^ [<CTAG>] ^ ( { <CID [-VCNUM] >, CRON: <Order_Number> } ) ^*/ cr lf]
<
cr lf lf
^^^<SID>^<YY-MM-DD>^<HH:MM:SS> cr lf
M^^<CTAG>^COMPLD cr lf
[^^^"<AID>[,<AID>][:<Parsable_Output_Data>]" cr lf]*
[^^^/*^<Command_Echo>^ [<CTAG>] ^ ( { <CID [-VCNUM] >, CRON: <Order_Number> } ) ^*/ cr lf]
;
```


1.7.6. Response Format – Non–Administration NON–RETRIEVAL Commands with &&–Ranging/&–Grouping

A single successful or partially successful response message is generated for a Non–Administration (refer to Section 1.7.4.) Non–Retrieval command (a command without a verb of RTRV) issued using &&–ranging or &–grouping (for additional information, refer to Section 1.9., AID Addressing) and the command:

- Successfully **completes for all** of the AIDs specified (**Successful Non–Administration NON–RETRIEVAL Response** generated). In this case, all successful reports are grouped within a single successful (COMPLD) response message.
- Successfully **completes for some** of the AIDs specified (**Partially Successful Non–Administration NON–RETRIEVAL Response** generated). In this case, all reports for unsuccessful AIDs are grouped within a single PRTL (Partial) completion message, and the successful AIDs are not reported (i.e., the command completes successfully for AIDs not reported in the PRTL completion message). (A denial response message is generated, refer to Section 1.7.3., Unsuccessful Response Format, if the command fails to execute for all AIDs.)

The information displayed in the successful or partially successful response message varies for different commands and is specified in the command description. If a parsable line of output data is provided in a partially successful IP (In–Progress) response message, the <Parameter_Block> field provides information about the location of the error(s) in the input command.

The presence of the non–parsable Expanded Error Code Description line and the non–parsable command echo line in the response is controlled by the user’s Output Subscription Level (OSL) O–flag set using the ENT–USER or ED–PRVG–USER command.

Successful Non–Administration NON–RETRIEVAL Response: The general format of a Successful Non–Administration Non–Retrieval Response is:

```
cr lf lf
^^^<SID>^<YY-MM-DD>^<HH:MM:SS> cr lf
M^^<CTAG>^COMPLD cr lf
[^^^"<Parsable_Output_Data>" cr lf ] *
[^^^/*<Free_Form_Informational_Text>^*/ cr lf ] *
[^^^/*<Command_Echo>^ [<CTAG>] ^ ( { <CID [-VCNUM] > , CRON: <Order_Number> } ) ^*/ cr lf ]
;
```

Partially Successful Non–Administration NON–RETRIEVAL Response: The general format of a Partially Successful Non–Administration Non–Retrieval Response is:

```
cr lf lf
^^^<SID>^<YY-MM-DD>^<HH:MM:SS> cr lf
M^^<CTAG>^PRTL cr lf
(^^^" [<AID> :ERCDE=<Error_Code> [ , <Parameter_Block> ( : <Parameter_Block> ) * ] " cr lf
[^^^/*<Informational_Error_Description_Text>^*/ cr lf ]
[^^^/*<Expanded_Error_Code_Description>^*/ cr lf ] ) +
[^^^/*<Command_Echo>^ [<CTAG>] ^ ( { <CID [-VCNUM] > , CRON: <Order_Number> } ) ^*/ cr lf ]
;
```

1.7.7. Continuation Message Format (Output Greater Than 4096 Bytes)

If a user is provisioned to receive output on a TTY terminal (TYPE=TTY, refer to ENT–USER and ED–PRVG–USER commands) and a response message contains more than 4096 bytes of data, the data block ends in a > (greater–than sign) terminator and subsequent data blocks containing the remainder of the data follow. The subsequent data blocks repeat the message header, the command echo line, and continue the data. The last data block ends with the normal ; (semi–colon) terminator.

The general format for continuation of a response message is:

```
( cr lf lf
^^^<SID>^<YY-MM-DD>^<HH:MM:SS> cr lf
M^^<CTAG>^<Completion_Code> cr lf
[^^^"<Parsable_Output_Data>" cr lf ] *
[^^^/*^<Free_Form_Informational_Text>^*/ cr lf ] *
[^^^/*^<Command_Echo>^ [<CTAG>] ^ ( { <CID [-VCNUM] > , CRON : <Order_Number> } ) ^*/ cr lf ]
> ) +
cr lf lf
^^^<SID>^<YY-MM-DD>^<HH:MM:SS> cr lf
M^^<CTAG>^<Completion_Code> cr lf
[^^^"<Parsable_Output_Data>" cr lf ] *
[^^^/*^<Free_Form_Informational_Text>^*/ cr lf ] *
[^^^/*^<Command_Echo>^ [<CTAG>] ^ ( { <CID [-VCNUM] > , CRON : <Order_Number> } ) ^*/ cr lf ]
;
```

1.7.8. Delayed Activation Response

A Delayed Activation response is returned upon successful queuing of any command submitted for delayed activation (refer to Section 1.10., Delayed Activation). The general format of a delayed activation response is:

```
cr lf lf
^^^<SID>^<YY-MM-DD>^<HH:MM:SS> cr lf
M^^<CTAG>^DELAY cr lf
[^^^"<Parsable_Output_Data>" cr lf ] *
[^^^/*^<Free_Form_Informational_Text>^*/ cr lf ] *
[^^^/*^<Command_Echo>^ [<CTAG>] ^ ( CRON : <Order_Number> ) ^*/ cr lf ]
;
```

1.8. Autonomous Response Messages – General

Autonomous response messages are unsolicited and generated automatically because of an autonomous event detected by the system, as opposed to solicited response messages generated in response to a command entered by a user. There are three general categories of autonomous responses: autonomous system event messages (alarms, events, database changes, scheduled performance monitoring reports, and system initialization), autonomous informational messages, and autonomous keep–alive messages.

All autonomous response messages begin with a header line:

```
^^^<SID>^<YY-MM-DD>^<HH:MM:SS>
```

where

- SID is the upper–case Site Identifier as created by the SET–SID command.
- YY–MM–DD is the year–month–day, where YY is the last two digits of the year, MM is the month, and DD is the day of the month. The range for MM is from 01 to 12 and the range for DD is from 01 to 31.
- HH:MM:SS is the current time of day, where HH is the hour with a range from 00 to 23, MM is the minutes, SS is the seconds, and the range for MM and SS is from 00 to 59.

1.8.1. Autonomous REPT Message Format

The general format of an autonomous REPT message is:


```
cr If If
^^^<SID>^<YY-MM-DD>^<HH:MM:SS> cr If
<CDE>^ { <ATAG>, <ITAG> } ^REPT^<MODIFIER> [ ^<MODIFIER> ] cr If
[ ^^^ "<Parsable_Output_Data>" cr If ] *
[ ^^^ /*<Free_Form_Informational_Text>*/ cr If ] *
;
```

where

- CDE identifies the type of autonomous REPT message. Values are:
 - *C autonomous critical alarm being reported
 - ** autonomous major alarm being reported
 - *^ autonomous minor alarm being reported
 - A^ autonomous non-alarm event being reported
 - I^ autonomous informational message being reported.
- ATAG is the autonomous message tag used to correlate autonomous messages. An ATAG value is sequentially generated by the system for every autonomous message (CDE has a value other than I^). The format for an ATAG is modulo nnnnn where n is decimal 0–9 with leading zeroes suppressed.
- ITAG is the informational message tag used to correlate informational messages. An ITAG value is sequentially generated by the system for every informational message (CDE has a value of I^). The format for an ITAG is modulo nnnnn where n is decimal 0–9 with leading zeroes suppressed.
- REPT^<MODIFIER> [^<MODIFIER>] is the autonomous response or informational response code name. Values are:
 - REPT^ALM { EC1, EQPT, F3, OC3, OC12, STS1, STS3C, T1, T3, VT1 }
 - REPT^DBCHG
 - REPT^EVT { EC1, EQPT, F3, OC3, OC12, STS1, STS3C, T1, T3, VT1, SESSION }
 - REPT^INITZN
 - REPT^PM { EC1, F3, OC3, OC12, STS1, STS3C, T1, T3, VT1 }
 - REPT^DEBUG
 - REPT^HWSW
 - REPT^INFORMATION

where REPT^ALM, REPT^DBCHG, REPT^EVT, REPT^INITZN, and REPT^PM are used with autonomous response messages (have an ATAG), and REPT^DEBUG, REPT^HWSW, and REPT^INFORMATION are used with informational response messages (have an ITAG).

1.8.2. Autonomous KEEP^ALIVE Message Format

The KEEP ALIVE MESSAGE autonomous response is generated by the system to maintain communication link activity to any logged-in user provisioned with a KAMINTVL (keep alive message interval) parameter value of {20–300} (refer to the ENT–USER and ED–PRVG–USER commands).

The format of an autonomous KEEP^ALIVE message is:

```
cr If If
^^^<SID>^<YY-MM-DD>^<HH:MM:SS> cr If
I^^<KATAG>^KEEP^ALIVE^MESSAGE cr If
;
```

where

- KATAG is the autonomous keep-alive message tag used to correlate keep-alive messages. An KATAG value is sequentially generated by the system for every keep-alive message. The format for a KATAG is modulo KAnnnn, where KA is the upper-case alphabetic characters K and A, and n is a decimal integer from 0 through 9.

1.9. AID Addressing (&&–Ranging and &–Grouping Rules)

In some commands, AIDs can be addressed so a single occurrence of the command is applied to more than one entity. When AID addressing is supported, “&&–ranging and &–grouping” is explicitly stated in the command description of the AID parameter under Addressing to indicate a range of AID values, a list of AID values, or a combination of a range and list of AID values is supported.

AID parameter addressing within a command can be used to generate a range (sequential series) of AID values, a list of AID values, or a combination of both. The string && (double ampersand) is used to specify a range of AID values (&&–ranging), while the & (ampersand) character is used to specify a list of AID values (&–grouping). In addition, when &&–ranging is used, the string .++. can be used to specify a numeric incrementing value for the range (sequential series) of AID values. (e.g., .++.N specifies the range or sequential series of AIDs is generated with a numeric incrementing value of N. The system assumes a default numeric incrementing value of one unless an incrementing value is explicitly specified.)

&&–ranging rules: The following rules apply when &&–ranging is used to specify a range of AIDs:

- A sequential series (range) of AID values is defined by using a double & (&&) between AIDs.
- &&–ranging only supports numeric ranging on the argument of an AID parameter (the information unit in the AID).
- The first AID value in the &&–range must be fully defined.
- The first AID value of the &&–range is always included in the sequential series of AID values.
- If a compound AID parameter is used with &&–ranging, the ending numeric argument of the &&–range must include the preceding hyphen of the argument in the compound AID.
- If &&–ranging is specified with a numeric incrementing value (i.e., .++.N), the resulting sequential series of AID values is incremented by the incrementing value (N – with a default of N=1 if an incrementing value is not explicitly specified) from the first AID specified until the series of AID values is incremented through the ending argument of the range.
- If &&–ranging is specified with a numeric incrementing value of one, the AID value identified by the ending numeric argument of the range is always included in the resulting sequential series of AID values.
- AID formats for different entity types (e.g., a DS3 AID format and a DS1 AID format) cannot be mixed together when specifying &&–ranging.

Several examples of the use of &&–ranging are shown below:

- 1&&5 expands into the sequential series {1, 2, 3, 4, 5}.
- T3T1–2–1&&–6 expands into the sequential series {T3T1–2–1, T3T1–2–2, T3T1–2–3, T3T1–2–4, T3T1–2–5, T3T1–2–6}.
- T3–3&&–13.++.3 expands into the sequential series {T3–3, T3–6, T3–9, T3–12}.
- T3T1–2–1&&4 or T3T1–2–1&&–3–4 or T3T1–2–1&&T3T1–3–4 are syntactically incorrect.

&–grouping rules: The following rules apply when &–grouping is used to specify a range of AIDs:

- A group (list) of AID values is defined by using a single-ampersand (&) between AIDs.
- The first AID value for the &–group must be fully defined.
- The second AID value for the &–group must either be fully defined, or, if a compound AID parameter is used, can be specified by the argument of the AID with its preceding hyphen.
- A numeric incrementing value (.++.N) cannot be specified with/within the &–group.

Several examples of the use of &–grouping are shown below:

- 1&3&7&12 expands into the list {1, 3, 7, 12}.
- T3–1&T3–15&T3–20 expands into the list {T3–1, T3–15, T3–20}.
- T3T1–1–1&–7&–28 expands into the list {T3T1–1–1, T3T1–1–7, T3T1–1–28}.
- T3T1–1–1&4–15 or T3–1&–12.++.2 are syntactically incorrect.

Additional &&–ranging/&–grouping rules: The following additional rules apply when both &&–ranging and &–grouping are combined to specify a range and/or a list of AID values:

- &&–ranging and &–grouping can be used together to generate a combination of a range of AID values and a list of AID values.
- No more than 12 AID terms can be specified using &–grouping (i.e., no more than 11 & (ampersands) may be used to specify the list of AID values).
- The number of AID values (in the expanded set of AIDs) resulting from the use of &&–ranging/&–grouping must be 128 or less.
- When &&–ranging and/or &–grouping is supported by all fields within a AID parameter block with multiple AID fields (for example, FROM,TO in the ENT–CRS–T1 command), then &&–ranging and/or &–grouping must appear in all AID fields with the same number of AID values in each field (the expanded set of AIDs in one AID field must be able to correspond to an expanded set of AIDs in the other AID fields).
- A command is denied without processing any of the specified AID values if the entered AID violates any of the above &&–ranging, &–grouping, or combined application rules.

An example of the use of both &&–ranging and &–grouping is shown below:

- 4–1–1&&–3&5–2–7&&–10&6–4–16&&–18 expands into the sequential series {4–1–1, 4–1–2, 4–1–3, 5–2–7, 5–2–8, 5–2–9, 5–2–10, 6–4–16, 6–4–17, 6–4–18}.

One unsuccessful response output message (refer to Section 1.7.3., Unsuccessful Response Format) is generated if a command is executed with &&–ranging and/or &–grouping specified in the AID parameter block and the command syntax is incorrectly specified (the command cannot be successfully parsed or an AID grouping/ranging syntax error exists).

If a command is executed with &&–ranging and/or &–grouping specified in the AID parameter block and the command syntax is correctly specified, the command is executed as if a series of commands were executed consecutively with each command having a unique AID value from the specified range or list of AIDs. Once correctly parsed, the type of completion response message generated depends on the type of command entered.

- Refer to Sections 1.7.4. and 1.7.3. for the successful and unsuccessful response formats for an Administration command with &&–ranging/&–grouping specified.
- Refer to Sections 1.7.5. and 1.7.3. for the successful and unsuccessful response formats for a Non–Administration Retrieval command (a command with a verb of RTRV) with &&–ranging/&–grouping specified.
- Refer to Sections 1.7.6. and 1.7.3. for the successful and unsuccessful response formats for a Non–Administration Non–Retrieval command (a command without a verb of RTRV) with &&–ranging/&–grouping specified.

1.10. Delayed Activation

The commands ACT–DB–BACKUP, DLT–EQPT, ENT–EQPT, and INIT–SYS can be scheduled to execute at some specified future time, either once, or perpetually. This is known as Delayed Activation (DA). These commands are assigned for delayed activation by specifying their optional General Block parameters ON (Order Number), DATE, TIME, and FLAG. The system then enters the command line into the system's DA table when the command is issued. Upon occurrence of the specified date and/or time, the command is executed from the table.

Delayed activation is managed by three commands:

- RTRV–DA is used to retrieve delayed activation data (displays the delayed activation table).
- ACT–DA is used to manually execute commands in the delayed activation table.
- CANC–DA is used to remove commands from the delayed activation table.

1.11. User Security

The system controls individual user access by user identifier (UID), password identifier (PID), Command Code Authorization Level (CCAL), and Command Community Functional Category Input (CCFCI) assignments. A user's UID and PID control user access to the system and a user's CCAL and CCFCI control user access to TL1 command execution. User access to system response output is controlled through the use of Command Community Functional Category Output (CCFCO) and Output Subscription Level (OSL) assignments. Refer to the ENT-USER, ED-PID, ED-PRVG-CMD, and ED-PRVG-USER commands for information on provisioning these parameters and to Appendix H, User Command Privilege Defaults (CCAL & CCFC), for default settings pertaining to CCAL and CCFC.

Additional user access security is provided through PID aging (PAGE), PID deactivation on user inactivity (POUT), and UID deletion on user inactivity (UOUT). Refer to the SET-ATTR-SECUDFLT command for information on provisioning of these parameters.

The system supports 32 CCAL command security levels (1 through 32). Each TL1 command is assigned a CCAL level. The system also supports up to 26 CCFC command security groups (A through Z). Each of the CCFC groups contains one or more TL1 commands. The CANC-USER command is always contained in every CCFC group to ensure that a user can always log off the system. In addition, all commands are always contained in CCFC group Z and cannot be removed to ensure that every command always exists in at least one CCFC group.

User command access security is provided by assigning each user a CCAL level and one or more CCFC groups (CCFCI controls command input and CCFCO controls unsolicited command output). A user can execute any command with a CCAL level less than or equal to the user's assigned CCAL level and that is contained in the user's assigned CCFC group.

Functionally related commands can be placed in different CCFC groups (for example, system administration commands in group A, facility provisioning commands and connection commands in group B, equipment provisioning commands in group C, etc.). Users from various organizations can then be assigned the appropriate CCFC group, allowing the users from each organization to execute the necessary commands without interfering with each other.

Users can also be assigned a CCAL level according to user experience. Less experienced users with a lower CCAL level would *not* be able to execute commands with a higher CCAL assignment. For example, a less experienced user with CCFC group B access may be assigned a lower CCAL to restrict command access to only connection-related commands, while a more experienced user in the same CCFC group can have a higher CCAL to allow access to facility provisioning and connection commands.

1.11.1. Default User IDs (UIDs)

The initial system UID defaults include four pre-provisioned users:

- **Alcatel account user**, user TYPE of TTY.
- **System administrator**, user TYPE of VDT, two UIDs of "system" and "SYSTEM". By default, only these users and the Alcatel account user may execute commands that establish or modify user security parameters. (Refer to Section 1.11.2.)
- **System printer**, user type PRN, UID of "sysprint". This user is the system printer.

The system administrator may create up to 508 additional users (for a total of 512 users), making password, CCAL, CCFCI, CCFCO, and OSL assignments as required for each.

1.11.2. Capabilities Restricted to the System Administrator

The following capabilities are restricted to the System Administrator (UID of “system” or “SYSTEM”) or the Alcatel account user.

- **User Log-In/Log-Out Restricted Capabilities:**
 - Only the System Administrator (or Alcatel account user) can log-out another user. Refer to CANC-USER.
 - Only the System Administrator (or Alcatel account user) can edit another user’s disk output buffer location (pointer) to the end of the disk output buffer. Refer to ED-CID-LCTN.
- **User Provisioning Restricted Capabilities:**
 - Only the System Administrator (or Alcatel account user) can edit (change) another user’s database profile. Refer to ED-PRVG-USER.
 - Only the System Administrator (or Alcatel account user) can edit a user’s UCFCI, UCAL, or PARTNAM provisioning. Other user’s can only edit their own remaining user provisioning parameters. Refer to ED-PRVG-USER.
 - Only the System Administrator (or Alcatel account user) can add/delete a value of R or S to/from a user’s OSL. Refer to ENT-USER and ED-PRVG-USER.
 - Only the System Administrator (or Alcatel account user) can edit another user’s PID (Password Identifier). Refer to ED-PID.
 - Only the System Administrator (or Alcatel account user) can delete (remove from the system) another user’s database profile. The System Administrator (and Alcatel account user) database profile cannot be deleted/removed. Refer to DLT-USER.
 - Only the System Administrator (or Alcatel account user) can retrieve the database profile provisioning of another user. Refer to RTRV-PRVG-USER.
- **CPORT Monitoring Restricted Capabilities:**
 - Only the System Administrator (or Alcatel account user) can retrieve a list of CPORTs being monitored by another user. Refer to RTRV-MON-CPORT.

1.12. User Facility Partitioning

User facility partitioning allows any EC1, F3, OC3, OC12, STS1, STS3C, T1, T3, or VT1.5 facility to be partitioned into groups of EC1, F3, OC3, OC12, STS1, STS3C, T1, T3, or VT1.5 facilities, respectively, (facility partitions) with each partition associated with specific “partitioned” users. A partitioned user’s TL1 command access to the EC1, F3, OC3, OC12, STS1, STS3C, T1, T3, or VT1.5 ports in the specified facility partition can then be restricted to the facilities assigned to that partition. Restricted access is controlled by defining a user as a partitioned user and associating the user with a specific partition, by the user’s CCAL and CCFCI provisioning (restricts the commands the user can execute) and by the set of commands that operate on facility partitions (restricts the command operation to the facilities assigned to a partition).

A facility partition is created by specifying a unique partition name using the ENT-PARTITN command. EC1, F3, OC3, OC12, STS1, STS3C, T1, T3, or VT1.5 facilities are assigned to an EC1, F3, OC3, OC12, STS1, STS3C, T1, T3, or VT1.5 partition, respectively, using the ED-PARTITN-{EC1, F3, OC3, OC12, STS1, STS3C, T1, T3, VT1.5} commands, respectively. A user is associated with a facility partition using the ENT-USER or ED-PRVG-USER command.

The EC1, F3, OC3, OC12, STS1, STS3C, T1, T3, or VT1.5 ports assigned to a facility partition need not be contiguous (physically or logically). A facility partition is only a logical mapping of EC1, F3, OC3, OC12, STS1, STS3C, T1, T3, or VT1.5 ports to the partition. Any EC1, F3, OC3, OC12, STS1, STS3C, T1, T3, or VT1.5 port can be added to an EC1, F3, OC3, OC12, STS1, STS3C, T1, T3, or VT1.5 facility partition, respectively, regardless of whether the port is provisioned or the port exists in the system.

Any user, except the “sysprint”, “system” or “SYSTEM” (system administrator), and Alcatel account users, can be associated with a facility partition. The commands that a partitioned user can execute are determined by the user’s command privileges (the user’s CCAL and CCFC provisioning using ENT-USER or ED-PRVG-USER). However, execution of a command that supports facility partitions by a partitioned user only operates on the facilities in the facility partition associated with the partitioned user.

Special care should be exercised when provisioning command privileges for a partitioned user. Only those commands that support facility partitioning provide protection for facilities not in the partitioned user's facility partition. All other commands that do not support facility partitioning operate the same regardless if a partitioned user or non-partitioned user executes the command (e.g., DLT-EQPT, ENT-USER, INIT-SYS, RESTORE-DB, etc.). A set of commands recommended for use by partitioned users is contained in the default CCAL Group Y (refer to Appendix H, User Command Privilege Defaults (CCAL & CCFC)).

The following input commands and autonomous responses support user facility partitioning.

Commands and Responses Supporting User Facility Partitioning					
Provisioning	Cross-Connect	Performance Monitoring	Alarms & Conditions	Test Access	Loopback
DLT-rr	DLT-CONF- {T1, VT1}	ALW-PMREPT-rr	RTRV-ALM-rr	CHG-ACCMD- {T1, T3}	ALW-CBIT-T1
ENT-rr	DLT-CRS- {STS1, STS3C, T1, T3, VT1}	INH-PMREPT-rr	RTRV-ATTR-rr	CHG-TL-DIG	INH-CBIT-T1
ED-rr	DLT-ROLL- {T1, VT1}	INIT-REG-rr	RTRV-COND-rr	CONN-TACC- {T1, T3}	OPR-ISGLP-rr
RMV-rr	ENT-CONF- {T1, VT1}	RTRV-PM-rr	SET-ATTR-rr	DISC-TACC	OPR-LPBK-rr
RST-rr	ENT-CRS- {STS1, STS3C, T1, T3, VT1}	RTRV-PMMODE-rr	REPT^ALM^rr	DISC-TACC-PRVG	RLS-ISGLP-rr
RTRV-rr	ENT-ROLL- {T1, VT1}	RTRV-TH-rr	REPT^EVT^rr	RST-TAP-DIG	RLS-LPBK-rr
RTRV-AAID-rr	RTRV-CONF- {T1, VT1}	SET-PMMODE-rr		RTRV-TACC	RTRV-ISGLP-ALL
	RTRV-CRS	SET-TH-rr		RTRV-TRID-T3	RTRV-LPBK-rr
	RTRV-CRS- {STS1, STS3C, T1, T3, VT1}	REPT^PM^rr		RTRV-TSID-T1	
	RTRV-ROLL- {T1, VT1}				

Note. Where the command code modifier "rr" is shown, "rr" can be {EC1, F3, OC3, OC12, STS1, STS3C, T1, T3, VT1}, provided the resulting command or response exists.

1.13. Appendices

The appendices contain supplementary information useful in using this manual. The following appendices are provided:

- **Appendix A, Acronyms and Abbreviations** contains an alphabetized list of general acronyms and abbreviations used within this manual.
 - Abbreviations for command names and autonomous response names can be found in the command and autonomous response descriptions in Sections 2 and 3 of this manual, respectively.
 - Abbreviations for condition types can be found in Appendix C.
 - Abbreviations for error codes can be found in Appendix D.
 - Abbreviations for monitored parameters can be found in Appendix F.
 - Abbreviations for equipment and facility state names can be found in Appendix G.
- **Appendix B Access Identifiers (AIDs)** contains a description of AID formats, a diagram of the equipment rack and shelf numbering, and an alphabetized list of equipment names.
- **Appendix C, Condition Types** contains a list of all equipment and facility condition types.
- **Appendix D, Error Codes** contains a list of all Error Codes that may be used in an unsuccessful response message, a list of Error Codes generated by the system's Command Parser, and a list of all Data Base Error Code Error Status Numbers that may be supplied as additional information with an Error Code of SDBE (Status, internal Data Base Error).
- **Appendix E, (Command Entry) Menus** explains the use of the command entry menus available with a VDT terminal and provides the menu structure (hierarchy) implemented in this release.
- **Appendix F, Monitored PM Parameters** provides a list of performance monitoring facility parameters along with the system threshold default value for each parameter.
- **Appendix G, State Transitions** defines the Primary and Secondary states for equipment, facilities, or cross-connect entities, and provides state transition diagrams for each entity.
- **Appendix H, User Command Privilege Defaults (CCAL & CCFC)** contains the system Command Code Authorization Level (CCAL) and Command Community Functional Category (CCFC) default values for each command.
- **Appendix I, VDT Function Keys** provides a description of each function key supported for a VDT terminal.

2. TL1 COMMAND

This section contains a description of each input command and its associated output (successful and unsuccessful) responses. The command descriptions are presented in alphabetical order by command code.

For general information and input/output formats, refer to Section 1 of this manual.

For information on autonomous messages, refer to Section 3 of this manual.

For supplementary and reference information (e.g., condition types, state names and state diagrams, monitored parameters, etc.), refer to the appendices.

COMMAND CODE: **ACT-DA**
COMMAND NAME: **ACTIVATE DELAYED ACTIVATION**

PURPOSE

The ACT-DA command manually activates a selected set of previously scheduled delay-activated commands.

The commands ACT-DB-BACKUP, DLT-EQPT, ENT-EQPT, or INIT-SYS may be scheduled to execute at some specified future time, either once, or perpetually. This is known as Delayed Activation (DA).

These commands are scheduled for delayed activation by specifying the optional parameters ON (Order Number), DATE, and TIME when the command is entered. When the command is entered with these parameters specified, the command line is entered into the delayed activation table. The command will subsequently execute automatically upon occurrence of the specified date and/or time, or manually by use of the ACT-DA command.

NOTE: Although the ON parameter value can be an integer from 0 to 999999, the user should limit the number of delayed activation commands at any given time to 500.

An ACT-DA command is denied if:

- The specified ON (Order Number) does not exist in the delayed activation table.
- An invalid parameter value is entered.

INPUT FORMAT

ACT-DA: [TID] :ON: [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
ON	{ON_AID:{0 – 999999}, ALL} Default: Entry Required Addressing: &&-ranging and &-grouping Description: Order Number AID, specifies the Order Number of the command to be delay activated. Values are: 0-999999 Order Number value previously assigned to the command. ALL All pending Order Numbers are to be activated. Restrictions: ACT-DA is denied if the specified Order Number does not exist in the delayed activation table.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Optional Suggested Action Text> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

```
IPNV      Input, Parameter Not Valid
          /* Order Number = <ON_AID> not found in crontab */
          /* Invalid Order Number = <ON_AID> */
```

EXAMPLES

In the following example, ACT-DA is used to activate the scheduled command which was assigned an Order Number (ON) of 1003.

```
ACT-DA::1003;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P28015. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P28015 COMPLD
/* ACT-DA::1003 [P28015] (1) */
;
```

In the next example, ACT-DA is used to activate all scheduled commands.

```
ACT-DA::ALL;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of P28020. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P28020 COMPLD
/* ACT-DA::ALL [P28020] (2) */
;
```

RELATED COMMANDS

```
ACT-DB-BACKUP
CANC-DA
DLT-EQPT
ENT-EQPT
INIT-SYS
RTRV-DA
```

COMMAND CODE: **ACT-DB-BACKUP**
COMMAND NAME: **ACTIVATE DATABASE BACKUP**

PURPOSE

The ACT-DB-BACKUP command performs a database backup (writes the system database) to the specified optical disk. Normal system operation continues during the database backup process.

The database backup includes all provisioning, cross-connection, loopback, and test access database information, but does not include performance monitoring (PM) current or historical data or the contents of the Event Log File output disk buffer. The database backup does not produce a "bootable" optical disk media (the backup disk does not contain the system executable software code).

In addition to the database, the system also writes the System Type, software Release Stream, software Release Number, Site ID (SID), a backup date and time stamp, a media write count, and a 32-bit CRC (Cyclic Redundancy Code) to the optical disk media. The 32-bit CRC written to the media is verified against the CRC calculated by reading the backup data on the media (the data written to the media is validated) if VERIFY is specified for the VER parameter. If the CRCs do not match, the system "marks" the backed-up data on the optical disk media as "invalid" so that it cannot be used for a subsequent database restoral and returns an unsuccessful response (DENY) message for the ACT-DB-BACKUP command.

If TOD is specified for the TRYOTHER parameter and the database backup process to the specified optical disk drive fails, the system automatically attempts to perform the database backup on the opposite copy optical disk drive.

If the database backup process to the specified optical disk drive fails, a DBFFT Condition Type is set for the specified drive. If TOD is specified for the TRYOTHER parameter and the second database backup process to the opposite copy drive fails, a DBF Condition Type is set for the specified drive. (Note. A DBFFT or DBF condition is cleared via the CLR-ALM-EQPT command.)

An ACT-DB-BACKUP command can be scheduled for delayed activation (e.g., a database backup can be scheduled to occur at a specific date and time or every day at a specific time). However, command parsing and parameter validation is not performed until the command is executed (at the delay activated scheduled date and time).

NOTE: Although the ON parameter value can be an integer from 0 to 999999, the user should limit the number of delayed activation commands at any given time to 500.

Any database backup currently in-progress can be aborted (cancelled) by the CANC-DB-BACKUP command. If an in-progress database backup is cancelled, an unsuccessful response (CANCLD) message is generated for the ACT-DB-BACKUP command and the system "marks" the backed-up data on the optical disk media as "invalid" so that it cannot be inadvertently used for a subsequent database restoral.

NOTE: The 1631 SX LMC validates a new DB file (requiring 10 to 30 minutes) before verifying successful completion of DB file transfer. With a DB file uploaded using a PC client through FTP, a timeout may occur after the file transfer but before completion confirmation on the client. If a timeout occurs, the RTRV-DB-LABEL command or the FTP dir/lis commands may be used to verify that the file transfer was complete and that the new DB file was legitimate. Prior to completion of validation on the uploaded file, RTRV-DB-LABEL will return information about the previously backed up DB file, not the uploaded file.

An ACT-DB-BACKUP command is denied if:

- The write operation to the optical disk drive cannot be performed (e.g., the media is not inserted in the drive, the drive door is not closed, the drive is currently in use, etc.).
- VERIFY is specified for the VER parameter and the CRC validation fails.
- A database backup operation is currently in-progress.
- An in-service upgrade via the STA-ISU command is currently in progress
- The specified AID is not in an in-service (IS) state.
- If a database transfer to or from the client is in progress.
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

ACT-DB-BACKUP: [TID]:AID:[CTAG]:[ON],[DATE],[TIME],[FLAG]:[VER],[TRYOTHER];

INPUT PARAMETERS

TID	<p>< 1–20 VALID TID CHARACTERS ></p> <p>Default: <SID></p> <p>Addressing: None</p> <p>Description: Target Identifier, specifies the network node TID for the command.</p>
AID	<p>EQUIPMENT_AID:</p> <p>{DSK-1-3-1, DSK-1-4-2}</p> <p>{OPD-1-3-1, OPD-1-4-2}</p> <p>Default: Entry Required</p> <p>Addressing: None</p> <p>Description: Equipment AID, specifies the equipment entity that is the target of the database backup. Refer to Appendix B, Access Identifiers (AIDs) for a definition of equipment mnemonics.</p>
CTAG	<p>< 1–6 VALID CTAG CHARACTERS ></p> <p>Default: < System assigned CTAG value ></p> <p>Addressing: None</p> <p>Description: Correlation Tag, associates input command with its output responses.</p>
ON	<p>{ON_AID:0–999999, <NoVal>}</p> <p>Default: <NoVal></p> <p>Addressing: None</p> <p>Description: Order Number, unique user–assigned integer number (up to six digits) used to identify scheduled (delay activated) commands. Values are:</p> <p>{0–999999} User–assigned Order Number. The command is scheduled to be executed as specified by DATE and TIME. If no value is entered for DATE or TIME, the command is scheduled for delayed manual activation (the command is entered in the delayed activation table and manually scheduled by using the ACT-DA command).</p> <p><NoVal> No Value, the command is executed immediately. (No value is entered for ON (Order Number), DATE, and TIME if ACT-DB-BACKUP is to be executed immediately – not delay activated.)</p> <p>Restrictions: ACT-DB-BACKUP is denied if no value is entered for ON (Order Number) and a value is entered for either DATE, TIME, or FLAG.</p>

DATE	{YY-MM-DD:{00-37,70-99} – {1-12, ALL} – {1-31, ALL}, {DAY:{SUN, MON, TUE, WED, THU, FRI, SAT, EVEN, ODD, ALL} }, <NoVal>}
Default:	<NoVal>
Addressing:	None
Description:	<p>Date, specifies the date the command is scheduled to be executed. A specific date is specified by the value format <YY> – <MM> – <DD> where <YY> is the year, <MM> is the month, <DD> is the day. Values for <YY> from 70 through 99 are interpreted as the year 1970 through the year 1999. The values 00 through 37 are interpreted as the year 2000 through the year 2037. A specific day is specified by entering a keyword value. Values are:</p> <p><YY> – <MM> – <DD> Command is scheduled to be executed on the specified year, month, and day.</p> <p><YY> – <MM> – ALL Command is scheduled to be executed every day on the specified year and month.</p> <p><YY> –ALL– <DD> Command is scheduled to be executed every month on the specified year and day.</p> <p><YY> –ALL–ALL Command is scheduled to be executed every day of every month of the specified year.</p> <p>ALL– <MM> – <DD> Command is scheduled to be executed every year on the specified month and day.</p> <p>ALL– <MM> –ALL Command is scheduled to be executed every day of every year on the specified month.</p> <p>ALL–ALL– <DD> Command is scheduled to be executed every month of every year on the specified day.</p> <p>SUN Command is scheduled to be executed every Sunday.</p> <p>MON Command is scheduled to be executed every Monday.</p> <p>TUE Command is scheduled to be executed every Tuesday.</p> <p>WED Command is scheduled to be executed every Wednesday.</p> <p>THU Command is scheduled to be executed every Thursday.</p> <p>FRI Command is scheduled to be executed every Friday.</p> <p>SAT Command is scheduled to be executed every Saturday.</p> <p>EVEN Command is scheduled to be executed every even day (from January 1, 1970).</p> <p>ODD Command is scheduled to be executed every odd day (from January 1, 1970).</p> <p>ALL Command is scheduled to be executed every day.</p> <p><NoVal> No Value, the command is executed immediately if no value is entered for ON (Order Number), DATE, and TIME (not delay activated), or the command is scheduled to be executed at the next occurrence of the time specified by TIME.</p>
Restrictions:	ACT-DB-BACKUP is denied if a value is entered for DATE and no value is entered for ON (Order Number).

TIME	{HH-MM-SS:{0-23, ALL} – {0-59} – {0-59, HLF, QTR}, <NoVal>}
	Default: <NoVal>
	Addressing: None
	Description: Time, specifies the time the command is scheduled to be executed. A specific time is specified by the value format <HH> – <MM> – <SS> where <HH> is the hour, <MM> is the minute, and <SS> is the second. A value for <SS> must be entered, but the system uses a value of 0 when an integer value is entered. Values are:
	<HH> – <MM> – <SS> The command is scheduled to be executed at the specified hour and minute.
	ALL– <MM> – <SS> The command is scheduled to be executed every hour at the specified minute.
	<HH> – <MM> –HLF Two commands are scheduled to be executed, one command at the hour and minute specified by <HH> and <MM> and one command a half-hour (30 minutes) later. (<MM> must be less than 30.)
	<HH> – <MM> –QTR Four commands are scheduled to be executed, one command at the hour and minute specified by <HH> and <MM> and one command each quarter-hour (15 minutes) later. (<MM> must be less than 15.)
	ALL– <MM> –HLF Two commands are scheduled to be executed every hour, one command at the minute specified by <MM> and one command a half-hour (30 minutes) later. (<MM> must be less than 30.)
	ALL– <MM> –QTR Four commands are scheduled to be executed every hour, one command at the minute specified by <MM> and one command each quarter-hour (15 minutes) later. (<MM> must be less than 15.)
	<NoVal> No Value, the command is executed immediately if no value is entered for ON (Order Number), DATE, and TIME (not delay activated), or the command is scheduled to be executed at the current time on the date specified by DATE.
	Restrictions: ACT-DB-BACKUP is denied if a value is entered for TIME and no value is entered for ON (Order Number). ACT-DB-BACKUP is denied if <SS> of HLF or QTR is entered and <MM> is not less than 30 or 15, respectively.
FLAG	{0, <NoVal>}
	Default: <NoVal>
	Addressing: None
	Description: Flag. The value for FLAG is verified, but not processed by the system.
	Restrictions: ACT-DB-BACKUP is denied if a value is entered for FLAG and no value is entered for ON (Order Number).

VER	{NOVERIFY, VERIFY}
Default:	{NOVERIFY}
Addressing:	None
Description:	Verify, specifies whether a CRC (Cyclic Redundancy Code) verification of the data written to the optical disk is performed. Values are:
NOVERIFY	No CRC Verification, specifies that the data written to the optical disk is not verified.
VERIFY	CRC Verification, specifies that the data written to the optical disk is verified. After the data is written to the optical disk, the data on the optical disk is read and its re-calculated CRC compared to the overall CRC of the backed-up data. If the CRCs do not match, the system “marks” the backed-up data on the optical disk as “bad” so that it cannot be used for a database restoral.
TRYOTHER	{NOTOD, TOD}
Default:	{NOTOD}
Addressing:	None
Description:	Try Other Drive, specifies whether the database backup is to be attempted on the opposite copy optical disk drive if the database backup to the specified drive fails. Values are:
TOD	Try Other Drive, specifies that a database backup is automatically attempted on the opposite copy optical disk drive if the first database backup to the specified drive fails.
NOTOD	No Try Other Drive, specifies that a database backup is not automatically attempted on the opposite copy optical disk drive.
Restrictions:	ACT-DB-BACKUP shall be denied if either of the disk AIDs are specified with TRYOTHER parameter .

SUCCESSFUL RESPONSE FORMAT

The following successful response format is provided when the ACT-DB-BACKUP command is executed. If the command is executed as a scheduled (delay activated) command, the delay activation Order Number is provided in the command echo line.

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
/* <SYSTYPE>,<STREAM>,<RLSTYPE><RLSNUM>.<IREV>.<MREV>,<SID> */
/* Creation Date: <DATE> <TIME> */
/* Media Write Count: <WRCNT>, CRC: <CRC> */
[/* <Command Echo> [<CTAG>] ({<CID[-VCNUM]>,<CRON:<Order_Number>}) */]
;

```

The following output response format is provided if the ACT-DB-BACKUP command is scheduled for delayed activation (values for ON (Order Number), DATE, and TIME were entered in the command).

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DELAY
/* Command has been scheduled */
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

OUTPUT PARAMETERS

SYSTYPE	{1631SX}
	System Type of the system software for the database being written to the backup media.
STREAM	{GRN-APS}
	Release Stream of the system software for the database being written to the backup media. Value is:
GRN-APS	Green-Administration Processing System.

RLSTYPE	<p>{F, P, R}</p> <p>Software Release Type of the system software for the database being written to the back-up media. Refer to the Software Support Agreement for applicable terms and conditions. Values are:</p> <table> <tr> <td>F</td><td>First Office Application, the software load is intended for FOA evaluation and testing and is qualified to carry traffic under specified conditions or constraints.</td></tr> <tr> <td>P</td><td>Preliminary, the software load is only intended for evaluation and testing under controlled, non-traffic bearing conditions.</td></tr> <tr> <td>R</td><td>Released, the software load is fully qualified to carry traffic per applicable Alcatel specifications.</td></tr> </table>	F	First Office Application, the software load is intended for FOA evaluation and testing and is qualified to carry traffic under specified conditions or constraints.	P	Preliminary, the software load is only intended for evaluation and testing under controlled, non-traffic bearing conditions.	R	Released, the software load is fully qualified to carry traffic per applicable Alcatel specifications.
F	First Office Application, the software load is intended for FOA evaluation and testing and is qualified to carry traffic under specified conditions or constraints.						
P	Preliminary, the software load is only intended for evaluation and testing under controlled, non-traffic bearing conditions.						
R	Released, the software load is fully qualified to carry traffic per applicable Alcatel specifications.						
RLSNUM	<p>{06}</p> <p>Software Release Number of the system software for the database being written to the backup media.</p>						
IREV	<p>{00–99}</p> <p>Intermediate Release Revision of the system software for the database being written to the backup media. Refer to the Software Support Agreement.</p>						
MREV	<p>{00–99}</p> <p>Maintenance Release Revision of the system software for the database being written to the backup media. Refer to the Software Support Agreement.</p>						
SID	<p><1–20 CHARACTER SID></p> <p>Site Identification, identifies the SID provisioned via the SET–SID command.</p>						
DATE	<p>{YY–MM–DD:{00–37,70–99} – {1–12} – {1–31} }</p> <p>Database Backup Date, identifies the date of the database backup. The value format is <YY> – <MM> – <DD> where <YY> is the year, <MM> is the month, <DD> is the day. Values for <YY> from 70 through 99 are interpreted as the year 1970 through the year 1999 and 00 through 37 are interpreted as the year 2000 through the year 2037.</p>						
TIME	<p>{ {0–23}:{0–59}:{0–59} }</p> <p>Database Backup Time, identifies the time of the database backup. The format of TIME is <HH>:<MM>:<SS> where <HH> is the hour, <MM> is the minute, and <SS> is the second.</p>						
WRCNT	<p>{0–999}</p> <p>Optical Disk Write Count, indicates the number of times data has been written to the optical disk media.</p>						
CRC	<p><8 UPPER CASE HEXADECIMAL CRC CHARACTERS></p> <p>Database Backup Cyclic Redundancy Code, indicates the value of the 32-bit Cyclic Redundancy Code calculated over the backed-up data.</p>						

UNSUCCESSFUL RESPONSE FORMAT

The following unsuccessful response is generated if an incorrect or illegal command is entered or the database backup operation fails.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Optional Suggested Action Text> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

The following unsuccessful response is generated if the ACT-DB-BACKUP command is cancelled by executing a CANCEL-DB-BACKUP command before the database backup operation is completed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> CANCLD
/* Media operation aborted */
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier /* AID specified is AOOS */
IPNV	Input, Parameter Not Valid /* Order number required if date, time, and/or flag are entered */
SNVS	Status, Not in Valid State
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, a database backup to OPD-1-3-1 is performed.

```
ACT-DB-BACKUP::OPD-1-3-1;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P19003. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed. The first line of non-parsable data would also contain the provisioned Site ID of the system.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P19003 COMPLD
/* 1631SX,GRN-APS,R06.00.00,<SID> */
/* Creation Date: 94-09-03 14:05:01 */
/* Media Write Count: 5, CRC: 8A5CE31B */
/* ACT-DB-BACKUP::OPD-1-3-1 [P19003] (1) */
;
```

In the following example, a database backup to OPD-1-3-1 is scheduled to be performed with an Order Number of 152 on each day at 12:30 a.m. If the backup to OPD-1-3-1 fails, a backup attempt is performed on OPD-0-2.

```
ACT-DB-BACKUP::OPD-1-3-1::152,ALL,00-30-00:VERIFY,TOD;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P19015. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P19015 COMPLD
/* Command has been scheduled */
/* ACT-DB-BACKUP::OPD-1-3-1::152,ALL,00-30-00:VERIFY,TOD [P19015] (1)
*/
;
```

In the following example, the database backup to OPD-1-3-1 is cancelled by executing a CANC-DB-BACKUP command before the database backup operation is completed.

```
ACT-DB-BACKUP::OPD-1-3-1;
```

```
CANC-DB-BACKUP;
```

The output responses, shown below, assume CID 1 was used to enter the command and the system generated CTAG values of P19020 for the ACT-DB-BACKUP command and P19021 for the CANC-DB-BACKUP command. The response headers would contain the provisioned Site ID of the system, and the date and time the commands were executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P19020 COMPLD
/* Media operation aborted */
/* ACT-DB-BACKUP::OPD-1-3-1 [P19020] (1) */
;

<SID> <YY-MM-DD> <HH:MM:SS>
M P19021 COMPLD
/* CANC-DB-BACKUP [P19021] (1) */
;
```

RELATED COMMANDS

```
ACT-DA
CANC-DA
CANC-DB-BACKUP
CLR-ALM-EQPT
RESTORE-DB
RTRV-DA
RTRV-DB-LABEL
STA-ISU
START-OPS
STOP-OPS
```

COMMAND CODE: **ACT-EUA**
COMMAND NAME: **ACTIVATE EMERGENCY USER ACCESS**

PURPOSE

The ACT-EUA command suspends the transfer of the following message types between the Level-1 processor and Level-2 processor and generates an EUA condition type. The messages already residing in the input buffers of the Level-1 and Level-2 processors are processed in the normal manner. Normal resumption of the message transfer between the Level-1 and Level-2 processor and clearing of the EUA condition type can be achieved when a CANC-EUA command is successfully executed.

Level-1 to Level-2 processor message types suspended are:

- Requests for Historical 15-minute and 1-day PM data
- Requests for PM Threshold Crossing alerts

Level-2 to Level-1 processor message types suspended are:

- Facility alarms
- PM Threshold Crossing alerts
- Historical 15-minute and 1-day PM data
- Historical XIDMISM data

An ACT-EUA command is denied if:

- The EUA condition type is already set.
- The system is unable to read or update the database.

INPUT FORMAT

ACT-EUA: [TID] : : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID [-VCNUM] >) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID [-VCNUM] >) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

SDBE	Status, internal Data Base Error /* The ACT-EUA aborted due to system error. */ /* Error reading system configuration data base. */ /* Error updating system configuration data base. */
SNVS	Status, Not in Valid State /* The ACT-EUA was rejected. */ /* Emergency User Access already activated. */

EXAMPLES

In the following example, ACT-EUA is used to suspend the transfer of message types between the Level-1 processor and Level-2 processor and to generate an EUA condition type.

ACT-EUA;

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of P28020. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P28020 COMPLD
/* ACT-EUA [P28020] (2) */
;
```

RELATED COMMANDS

CANC-EUA

COMMAND CODE: **ACT-USER**
COMMAND NAME: **ACTIVATE USER**

PURPOSE

The ACT-USER command establishes a session with the system and logs in the specified user.

The entered PID (Password Identifier) is not displayed on any screen and is not available to any user in any file. No in-progress message is output by the system in response to an ACT-USER command.

A user cannot log in to the system (via ACT-USER command) from a terminal that another user is already logged-in, unless the CID is provisioned for the SNIDER protocol (PROTOCOL of SNIDER in ENT-CID).

The ACT-USER command can be executed while in the Limited Command Execution mode (i.e., after execution of a STOP-OPS command) or the Normal Command Execution mode.

An ACT-USER command is denied if:

- The specified user identifier (UID) has not been provisioned (does not exist in the system).
- Another user is already logged-in over the terminal being used, unless the CID is provisioned for the SNIDER protocol (PROTOCOL of SNIDER in ENT-CID).
- The specified UID is provisioned (via ENT-USER or ED-PRVG-USER) as an auto-login user.
- The specified password identifier (PID) has been deactivated by the system due to user account inactivity.
- An invalid parameter value is entered.

INPUT FORMAT

ACT-USER: [TID] :UID: [CTAG] : :PID, [SKIPTOEND] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
UID	<5-12 VALID UID CHARACTERS> Default: Entry Required Addressing: None Description: User Identifier, specifies the user issuing this command. (Refer to the UID parameter in ENT-USER for a description of valid UID values.) Restrictions: ACT-USER is denied if the specified UID is provisioned in the system as an auto-login (automatically logged-in) user. ACT-USER is denied if the system has removed the user's account (UID) due to inactivity. If the UID aging security option is enabled, the system will automatically remove the user's account when the user has not logged-in to the system for a period greater than the value specified in the UOUT parameter of the SET-ATTR-SECUDFLT command. This applies to all user accounts except for the system administrator and Alcatel user accounts.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

PID	<6–12 VALID PID CHARACTERS>
Default:	Entry Required
Addressing:	None
Description:	Password Identifier, specifies the user's login password. The password is not echoed to the screen or printed. (Refer to the PID parameter in ED–PID or ENT–USER for a description of valid PID values.)
Restrictions:	ACT–USER is denied if the system has deactivated the user's password identifier (PID) for security reasons. There are two conditions that cause the system to automatically deactivate the user's PID. The first condition, if enabled, occurs when the user has not logged–in to the system for a period greater than the value specified in the POUT parameter of the SET–ATTR–SECUDFLT command. The first condition applies to all user accounts except for the system administrator and Alcatel user accounts. The second condition, if enabled, occurs when the user has not changed the password identifier (PID) within the provisioned system password aging period and then does not change the PID during the first log–in session after that point in time. The second condition applies to all user accounts except the system administrator and the Alcatel user account. The system password aging period is provisionable through the PAGE parameter in the SET–ATTR–SECUDFLT command.
SKIPTOEND	{END}
Default:	<NoVal>
Addressing:	None
Description:	Skip To End, skip to end of saved output. If the user's DSKBFIND parameter (see ENT–USER or ED–PRVG–USER command) is set to ALWAYS, the system output is buffered while the user is logged–out. When the user logs–in, SKIPTOEND may be used to either receive all buffered output or to skip to the end of the output buffer and receive only new output. If the DSKBFIND parameter is set to NEVER, SKIPTOEND has no effect. Values are:
	END End, skip to the end of the output buffer and send only new output.
	<NoVal> No Value, receive buffered output at login if the user's DSKBFIND parameter (see ENT–USER or ED–PRVG–USER command) is set to ALWAYS.

SUCCESSFUL RESPONSE FORMAT

The user (executing an ACT-USER command) receives the following two output messages in response to a successful login via an ACT-USER command. The autonomous response message is only sent to the user that is logging-in to the system (the user executing the ACT-USER command). The autonomous REPT^EVT^SESSION response message is always transmitted to the user that is logging-in to the system and cannot be inhibited via a user's OSL provisioning with the ENT-USER or ED-PRVG-USER commands. The user is prompted to change the password identifier (PID) if the password has expired due to password aging (i.e. the PIDEVP parameter value is YES).

```

    <SID> <YY-MM-DD> <HH:MM:SS>
M  <CTAG> COMPLD
    /* ACT-USER <UID> on CID <CPORT> [-<VCNUM>] */
    /* <SYSTYPE>,<STREAM>,<RLSTYPE><RLSNUM>.<IREV>.<MREV> */
    /* (c) Copyright <YEAR> Alcatel Network Systems*/
    "<UID>:<LSEDATE>,<LSESTIME>,<LOGATMPT>
[,<SYSTYPE>,<STREAM>,<RLSTYPE><RLSNUM>.<IREV>.<MREV>]"
    [/* ACT-USER::<UID>:::***** [<CTAG>] (<CID [-VCNUM]>) */]
;

    <SID> <YY-MM-DD> <HH:MM:SS>
M  <ATAG> REPT EVT SESSION
    "<SID>:<PIDEVP>"
[/* Password will be deactivated if not changed before logging-off */]
    /* <WARN> */
;

```

The following successful response message is transmitted to other logged-in users if they are provisioned appropriately (via the ENT-USER or ED-PRVG-USER commands).

```

    <SID> <YY-MM-DD> <HH:MM:SS>
M  <CTAG> COMPLD
    /* ACT-USER <UID> on CID <CPORT> [-<VCNUM>] */
    [/* ACT-USER::<UID>:::***** [<CTAG>] (<CID [-VCNUM]>) */]
;

```

Note. If a CPORT or X.25 virtual channel is provisioned to automatically log-in a UID (refer to ENT-CID, ENT-CID-VC, and ENT-OSADDR-SITE), the above successful response messages are generated with a CTAG value of AUTOIN when the system automatically logs-in the provisioned auto-log-in UID.

OUTPUT PARAMETERS

UID	<5-12 VALID UID CHARACTERS> User Identifier, identifies the UID of the user that executed the command.
CPORT	{1-12} Control Port, identifies the physical control port connection to the system.
VCNUM	{1-8} Virtual Channel Number, identifies any X.25 virtual channel connection to the system. A value for VCNUM is only returned if the session is being established over an X.25 virtual channel.
SYSTYPE	{1631SX} System Type of the system the user is logging-on. A value for SYSTYPE is only returned in the parsable text line if ENRELNUM is Y (as set by ED-PRMTR-SITE).
STREAM	{LMC-APS} Release Stream of the system software for the indicated System Type. A value for STREAM is only returned in the parsable text line if ENRELNUM is Y (as set by ED-PRMTR-SITE). Value is: LMC-APS Large Matrix Configuration – Administration Processing System.

RLSTYPE	{F, P, R} Software Release Type of the system software. Refer to the Software Support Agreement for applicable terms and conditions. A value for RLSTYPE is only returned in the parsable text line if ENRELNUM is Y (as set by ED-PRMTR-SITE). Values are: F First Office Application, the software load is intended for FOA evaluation and testing and is qualified to carry traffic under specified conditions or constraints. P Preliminary, the software load is only intended for evaluation and testing under controlled, non-traffic bearing conditions. R Released, the software load is fully qualified to carry traffic per applicable Alcatel specifications.
RLSNUM	{06} Software Release Number. A value for RLSNUM is only returned in the parsable text line if ENRELNUM is Y (as set by ED-PRMTR-SITE).
IREV	{00-99} Intermediate Release Revision. Refer to the Software Support Agreement. A value for IREV is only returned in the parsable text line if ENRELNUM is Y (as set by ED-PRMTR-SITE).
MREV	{00-99} Maintenance Release Revision. Refer to the Software Support Agreement. A value for MREV is only returned in the parsable text line if ENRELNUM is Y (as set by ED-PRMTR-SITE).
YEAR	{1970-2069} Copyright Year, identifies the year of the system software copyright.
LSESDATE	{YY-MM-DD:{00-99} - {1-12} - {1-31} } Last Session Date, identifies the date of the last session established by this UID. The format of LSESDATE is <YEAR> - <MONTH_OF_YEAR> - <DAY_OF_MONTH>.
LSESTIME	{HH-MM-SS:{00-23} - {00-59} - {00-59} } Last Session Time, identifies the time of the last session established by this UID. The format of LSESTIME is <HOUR> - <MINUTES> - <SECONDS>.
LOGATMPT	{0-15} Unsuccessful Login Attempt Number, identifies the number of unsuccessful session attempts since last session.
SID	<1-20 VALID SID CHARACTERS> Site Identification, SID as established with the SET-SID command.
PIDEXP	{NO,YES} Password ID Expired, indicates whether the user is required to update the user's password identifier (PID) because of password aging. The user is prompted to change the password identifier in the REPT^EVT^SESSION autonomous message if the value of this parameter (PIDEXP) is YES.
WARN	<0-20 LINES OF INFORMATION> Warning, warning message field containing up to 20 lines as provisioned with the SET-WARN-MSG command.

UNSUCCESSFUL RESPONSE FORMAT

The following unsuccessful response message is generated if a user is not currently logged-in to the system over the CPORT[-VCNUM] (a session is not active) and an incorrect or illegal command is entered. No error code is generated (for security purposes) in this case.

```

    <SID> <YY-MM-DD> <HH:MM:SS>
M  <CTAG> DENY
    [/* Session not active */]
;

```

The following unsuccessful response message is generated if a user is currently logged-in to the system over the CPORT[-VCNUM] (a session is active) and an ACT-USER command is entered.

```

    <SID> <YY-MM-DD> <HH:MM:SS>
M  <CTAG> DENY
    <ERROR CODE>
    [/* <Informational Error Description Text> */]
    [/* <Expanded Error Code Description> */]
    [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

No error code is generated (for security purposes) when a user is not currently logged-in to the system over the CPORT[-VCNUM] and an ACT-USER command is unsuccessful.

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

```

IPNV      Input, Parameter Not Valid
          /* Invalid login attempt on CID <CPORT[-VCNUM]>, UID: <UID> */

```

EXAMPLES

In the following example, ACT-USER is used to login a user named JOHN:

```

ACT-USER::JOHN::*****;

```

The output response, shown below, assumes CID 3 was used to enter the command, a system generated CTAG value of P2e002, and a system generated ATAG value of 3521. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```

    <SID> <YY-MM-DD> <HH:MM:SS>
M  P2e002 COMPLD
    /* ACT-USER JOHN on CID 3 */
    /* 1631SX,LMC-APS,R06.00.00 */
    /* (c) Copyright 1995 Alcatel Network Systems */
    "JOHN:94-06-22,15-14-24,0,1631SX,LMC-APS,R06.00.00"
    /* ACT-USER::JOHN::***** [P2e002] (2) */
;

    <SID> <YY-MM-DD> <HH:MM:SS>
A  3521 REPT EVT SESSION
    "<SID>:NO"
    /* WARNING - This is a secured system */
    /* Unauthorized access will be prosecuted */
;

```

RELATED COMMANDS

CANC-USER

ED-CID

ED-CID-VC

ED-OSADDR-SITE

ED-PID

ED-PRMTR-SITE

ENT-CID

ENT-CID-VC

ENT-OSADDR-SITE

RTRV-DFLT-SECU

SET-ATTR-SECUDFLT

SET-WARN-MSG

COMMAND CODE: **ALW-CBIT-T1**
COMMAND NAME: **ALLOW CBIT T1**

PURPOSE

The ALW-CBIT-T1 command enables a received C-bit loop back request in the supporting DS2 signal to cause a DS1 loop back of the specified embedded DS1.

The ALW-CBIT-T1 command is allowed on a DS1 port that is embedded within an unconnected/unterminated DS3 or on a DS1 port that is one-way or two-way cross-connected. If the C-bit loopback is executed on a DS1 that is one-way or two-way cross-connected (i.e., it has a SST of ACT or BUSY), DS1 AIS is transmitted in the outgoing direction if cross-connected to a DS1, or VT1.5 AIS is transmitted in the outgoing direction if cross-connected to a VT1.5, and the incoming DS1 signal is looped back.

Executing an ALW-CBIT-T1 causes an ALWCBLPBK condition type to be set for the specified DS1. (A RCVCBLPBK condition type is set for the specified DS1 if the DS1 is looped back as a result of a received C-bit loop back request in the supporting DS2 signal.)

An ALW-CBIT-T1 command is denied if:

- The specified DS1 port is not provisioned.
- The specified DS1 port is provisioned as an Idle Signal Source port.
- C-bit loop back is already enabled for the specified DS1 port (ALWCBLPBK condition type is set).
- The specified DS1 is connected to a Test Access port (a DS1 SST of TS), is a connected Test Access Port (a DS1 SST of TS), or is in a loop back (a DS1 SST of LPBK).
- The specified DS1 is embedded within VT1.5.
- The specified DS1 port is part of a redlined connection.
- An invalid parameter value is entered.

INPUT FORMAT

ALW-CBIT-T1 : [TID] : AID : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >		
	Default:	<SID>	
	Addressing:	None	
	Description:	Target Identifier, specifies the network node TID for the command.	
AID	DS1_AID:		
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)	
	{EC1T1-{1-3840}-{1-28}}	(EC1T1-EC1/STS1/DS3#-DS1#)	
	{OC3T1-{1-2240}-{1-3}-{1-28}}	(OC3T1-OC3#-STS1/DS3#-DS1#)	
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}	(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)	
	Default:	Entry Required	
	Default:		
	Addressing:	&&-ranging and &-grouping	
	Description:	DS1 AID, identifies the DS1 port.	
CTAG	< 1-6 VALID CTAG CHARACTERS >		
	Default:	< System assigned CTAG value >	
	Addressing:	None	
	Description:	Correlation Tag, associates input command with its output responses.	

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
SAAL	Status, Already ALlowed
SDBE	Status, internal Data Base Error /* <DATABASE TYPE> Database Error: <STATUS> for <AID STRING> */
SNVS	Status, Not in Valid State
SROF	Status, Requested Operation Failed
SRQN	Status, invalid ReQuest /* Cbit not allowed when supporting entities are connected */

EXAMPLES

In the following example, ALW-CBIT-T1 enables an automatic loop back on DS1 port T3T1-1489-5 if a C-bit loop back request is received in the supporting DS2 signal.

```
ALW-CBIT-T1 : T3T1-1489-5 ;
```

RELATED COMMANDS

```
INH-CBIT-T1
RTRV-COND-ALL
RTRV-COND-T1
```

COMMAND CODE: **ALW-FL-EQPT**
COMMAND NAME: **ALLOW FAULT LOCATION EQUIPMENT**

PURPOSE

The ALW-FL-EQPT command enables (allows) fault location (isolation) data collection and updating of the system's fault isolation database and enables the setting and clearing of equipment INTERR condition types (previously disabled by the INH-FL-EQPT command).

When ALW-FL-EQPT is executed, the system automatically updates (re-baselines) the fault isolation database with the current status of the equipment in the system. As a result, INTERR condition types that have not previously been declared are set and INTERR condition types that no longer exist are cleared.

Executing an ALW-FL-EQPT command also clears the INHFL condition type (previously set by executing an INH-FL-EQPT).

An ALW-FL-EQPT command is denied if:

- Fault location data collection is already enabled/allowed.
- An invalid parameter value is entered.

INPUT FORMAT

ALW-FL-EQPT: [TID] : [AID] : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	EQUIPMENT_AID: {ALL} Default: {ALL} Addressing: None Description: Equipment AID. ALL is the only entry accepted by the system.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  /* The ALW-FL-EQPT completed. */
  /* Fault isolation allowed. */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

ENRE	Equipage, Not Recognized Equipage /* The command was rejected. */ /* Invalid or unassigned equipment identifier specified. */
ICNV	Input, Command Not Valid /* Invalid command requested on equipment. */
IPNV	Input, Parameter Not Valid /* The ALW-FL-EQPT was rejected. */ /* Invalid or unassigned equipment identifier specified. */
SAAL	Status, Already ALlowed /* The ALW-FL-EQPT was rejected. */ /* Fault isolation already allowed. */
SDBE	Status, internal Data Base Error /* The ALW-FL-EQPT aborted due to system error. */ /* Error reading system configuration data base. */ /* Error updating system configuration data base. */

EXAMPLES

In the following example, updating of the system's fault isolation data base and the setting and clearing of equipment INTERR condition types is enabled.

```
ALW-FL-EQPT;
```

RELATED COMMANDS

```
DGN-EQPT  
FLTLOC-PATH-STs1  
FLTLOC-PATH-STs3C  
FLTLOC-PATH-T1  
FLTLOC-PATH-T3  
FLTLOC-PATH-VT1  
INH-FL-EQPT  
RTRV-DGN-STATUS  
RTRV-EQPT  
RTRV-FL-EQPT  
RTRV-GTI-STATUS  
RTRV-PATH-STs1  
RTRV-PATH-STs3C  
RTRV-PATH-T1  
RTRV-PATH-T3  
RTRV-PATH-VT1  
RTRV-STATE-EQPT  
RTRV-XIDMISM
```


COMMAND CODE: **ALW-PMREPT-EC1**
COMMAND NAME: **ALLOW PERFORMANCE MONITORING
REPORT EC1**

PURPOSE

The ALW-PMREPT-EC1 command enables (allows) scheduled PM reporting (via the scheduled REPT^PM^EC1 message and binary PM reports via RS-232) for the specified EC1 port (previously disabled by the INH-PMREPT-EC1 command).

Executing an ALW-PMREPT-EC1 causes the INHPMREPT condition type to be cleared for the specified EC1.

An ALW-PMREPT-EC1 command is denied if:

- The specified EC1 port is not provisioned (via ENT-EC1).
- PM reporting is already enabled (an EC1 condition type of INHPMREPT is not set) for the specified EC1.
- An invalid parameter value is entered.

INPUT FORMAT

ALW-PMREPT-EC1 : [TID] : AID : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	EC1_AID: {EC1-{1-3840} } (EC1-EC1/STS1#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: EC1 AID, identifies the EC1 port.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID [-VCNUM] >) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID [-VCNUM] >) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

ICNV	Input, Command Not Valid /* Invalid command requested. */
IIAC	Input, Invalid ACcess identifier /* Invalid AID entered. */ /* AID not in Partition. */
SAAL	Status, Already ALlowed /* PM report already allowed. */
SDBE	Status, internal Data Base Error /* Error reading pm report database. */ /* Error updating pm report database. */ /* Failed to set pointer to FM EC1 record. */
SNVS	Status, Not in Valid State /* Facility is unprovisioned. */ /* AID not as provisioned. */
SROF	Status, Requested Operation Failed /* Unable to determine facility type. */

EXAMPLES

In the following example, the PM reporting for EC1 port EC1–198 is enabled.

```
ALW-PMREPT-EC1 : : EC1-198 ;
```

RELATED COMMANDS

```
ENT-EC1  
INH-PMREPT-EC1  
RTRV-DFLTPMREPT-EC1  
RTRV-PMSCHED-ALL  
RTRV-PMSCHED-EC1  
SCHED-PMREPT-ALL  
SCHED-PMREPT-EC1  
SET-DFLTPMREPT-EC1
```

RELATED AUTONOMOUS RESPONSES

```
REPT^PM^EC1
```

COMMAND CODE: ALW-PMREPT-F3
COMMAND NAME: ALLOW PERFORMANCE MONITORING REPORT F3

PURPOSE

The ALW-PMREPT-F3 command enables (allows) scheduled PM reporting (via the scheduled REPT^PM^F3 message and binary PM reports via RS-232) for the specified F3 port (previously disabled by the INH-PMREPT-F3 command).

Executing an ALW-PMREPT-F3 causes the INHPMREPT condition type to be cleared for the specified F3.

An ALW-PMREPT-F3 command is denied if:

- The specified F3 port is not provisioned (via ENT-F3).
- PM reporting is already enabled (an F3 condition type of INHPMREPT is not set) for the specified F3.
- An invalid parameter value is entered.

INPUT FORMAT

ALW-PMREPT-F3 : [TID] :AID: [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	F3_AID: {T3F3-{1-4800}-{1-14}} (T3F3-DS3#-Fractional_DS3#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: F3 AID, identifies the F3 port.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

ICNV	Input, Command Not Valid /* Invalid command requested. */
IIAC	Input, Invalid ACcess identifier /* Invalid AID entered. */ /* AID not in Partition. */
SAAL	Status, Already ALlowed /* PM report already allowed. */
SDBE	Status, internal Data Base Error /* Error reading pm report database. */ /* Error updating pm report database. */ /* Failed to set pointer to FM F3 record. */
SNVS	Status, Not in Valid State /* Facility is unprovisioned. */ /* AID not as provisioned. */
SROF	Status, Requested Operation Failed /* Unable to determine facility type. */

EXAMPLES

In the following example, the PM reporting for F3 port T3F3-5-4 is enabled.

```
ALW-PMREPT-F3 : T3F3-5-4 ;
```

RELATED COMMANDS

```
ENT-F3
INH-PMREPT-F3
RTRV-DFLTPMREPT-F3
RTRV-PMSCHED-ALL
RTRV-PMSCHED-F3
SCHED-PMREPT-ALL
SCHED-PMREPT-F3
SET-DFLTPMREPT-F3
```

RELATED AUTONOMOUS RESPONSES

```
REPT^PM^F3
```

COMMAND CODE: **ALW-PMREPT-OC12**
COMMAND NAME: **ALLOW PERFORMANCE MONITORING
REPORT OC-12**

PURPOSE

The ALW-PMREPT-OC12 command enables (allows) scheduled PM reporting (via the scheduled REPT^PM^OC12 message and binary PM reports via RS-232) for the specified OC-12 port (previously disabled by the INH-PMREPT-OC12 command).

Executing an ALW-PMREPT-OC12 causes the INHPMREPT condition type to be cleared for the specified OC-12.

An ALW-PMREPT-OC12 command is denied if:

- The specified OC-12 port is not provisioned (via ENT-OC12).
- PM reporting is already enabled (an OC-12 condition type of INHPMREPT is not set) for the specified OC-12.
- An invalid parameter value is entered.

INPUT FORMAT

ALW-PMREPT-OC12 : [TID] : AID : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	OC12_AID: {OC12-{1-560}} (OC12-OC12#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: OC12 AID, identifies the OC-12 port.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

ICNV	Input, Command Not Valid /* Invalid command requested. */
IIAC	Input, Invalid ACcess identifier /* Invalid AID entered. */ /* AID not in Partition. */
SAAL	Status, Already ALlowed /* PM report already allowed. */
SDBE	Status, internal Data Base Error /* Error reading pm report database. */ /* Error updating pm report database. */ /* Failed to set pointer to FM OC12 record. */
SNVS	Status, Not in Valid State /* Facility is unprovisioned. */ /* AID not as provisioned. */
SROF	Status, Requested Operation Failed /* Unable to determine facility type. */

EXAMPLES

In the following example, the PM reporting for OC–12 port OC12–118 is enabled.

```
ALW-PMREPT-OC12::OC12-118;
```

RELATED COMMANDS

```
ENT-OC12
INH-PMREPT-OC12
RTRV-DFLTPMREPT-OC12
RTRV-PMSCHED-ALL
RTRV-PMSCHED-OC12
SCHED-PMREPT-ALL
SCHED-PMREPT-OC12
SET-DFLTPMREPT-OC12
```

RELATED AUTONOMOUS RESPONSES

```
REPT^PM^OC12
```

COMMAND CODE: **ALW-PMREPT-OC3**
COMMAND NAME: **ALLOW PERFORMANCE MONITORING
REPORT OC-3**

PURPOSE

The ALW-PMREPT-OC3 command enables (allows) scheduled PM reporting (via the scheduled REPT^PM^OC3 message and binary PM reports via RS-232) for the specified OC-3 port (previously disabled by the INH-PMREPT-OC3 command).

Executing an ALW-PMREPT-OC3 causes the INHPMREPT condition type to be cleared for the specified OC-3.

An ALW-PMREPT-OC3 command is denied if:

- The specified OC-3 port is not provisioned (via ENT-OC3).
- PM reporting is already enabled (an OC-3 condition type of INHPMREPT is not set) for the specified OC-3.
- An invalid parameter value is entered.

INPUT FORMAT

ALW-PMREPT-OC3 : [TID] : AID : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	OC3_AID: {OC3-{1-2240}} (OC3-OC3#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: OC3 AID, identifies the OC-3 port.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID [-VCNUM] >) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID [-VCNUM] >) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

ICNV	Input, Command Not Valid /* Invalid command requested. */
IIAC	Input, Invalid ACcess identifier /* Invalid AID entered. */ /* AID not in Partition. */
SAAL	Status, Already ALlowed /* PM report already allowed. */
SDBE	Status, internal Data Base Error /* Error reading pm report database. */ /* Error updating pm report database. */ /* Failed to set pointer to FM OC3 record. */
SNVS	Status, Not in Valid State /* Facility is unprovisioned. */ /* AID not as provisioned. */
SROF	Status, Requested Operation Failed /* Unable to determine facility type. */

EXAMPLES

In the following example, the PM reporting for OC–3 port OC3–118 is enabled.

```
ALW-PMREPT-OC3 : : OC3-118 ;
```

RELATED COMMANDS

```
ENT-OC3
INH-PMREPT-OC3
RTRV-DFLTPMREPT-OC3
RTRV-PMSCHED-ALL
RTRV-PMSCHED-OC3
SCHED-PMREPT-ALL
SCHED-PMREPT-OC3
SET-DFLTPMREPT-OC3
```

RELATED AUTONOMOUS RESPONSES

```
REPT^PM^OC3
```


COMMAND CODE: **ALW-PMREPT-STS1**
COMMAND NAME: **ALLOW PERFORMANCE MONITORING
REPORT STS-1**

PURPOSE

The ALW-PMREPT-STS1 command enables (allows) scheduled PM reporting (via the scheduled REPT^PM^STS1 message and binary PM reports via RS-232) for the specified STS-1 port (previously disabled by the INH-PMREPT-STS1 command).

Executing an ALW-PMREPT-STS1 causes the INHPMREPT condition type to be cleared for the specified STS-1.

An ALW-PMREPT-STS1 command is denied if:

- The specified STS-1 port is not provisioned (via ENT-STS1).
- The specified STS-1 port is embedded within a protection OC-3 or protection OC-12.
- PM reporting is already enabled (an STS-1 condition type of INHPMREPT is not set) for the specified STS-1.
- An invalid parameter value is entered.

INPUT FORMAT

ALW-PMREPT-STS1: [TID] :AID: [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	STS1_AID: {EC1STS1-{1-3840}} (EC1STS1-EC1/STS1#) {OC3STS1-{1-2240}-{1-3}} (OC3STS1-OC3#-STS1#) {OC12STS1-{1-560}-{1-4}-{1-3}} (OC12STS1-OC12#-STM1#-STS1#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: STS1 AID, identifies the STS-1 port.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID [-VCNUM] >) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID [-VCNUM] >) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

ICNV	Input, Command Not Valid /* Invalid command requested. */
IIAC	Input, Invalid ACcess identifier /* Invalid AID entered. */ /* AID not in Partition. */
SAAL	Status, Already ALlowed /* PM report already allowed. */
SDBE	Status, internal Data Base Error /* Error reading pm report database. */ /* Error updating pm report database. */ /* Failed to set pointer to FM STS1 record. */
SNVS	Status, Not in Valid State /* Facility is unprovisioned. */ /* AID not as provisioned. */
SROF	Status, Requested Operation Failed /* Unable to determine facility type. */

EXAMPLES

In the following example, the PM reporting for STS-1 port EC1STS1-197 is enabled.

```
ALW-PMREPT-STs1: :EC1STS1-197;
```

RELATED COMMANDS

```
ENT-STs1  
INH-PMREPT-STs1  
RTRV-DFLT-PMREPT-STs1  
RTRV-PMSCHED-ALL  
RTRV-PMSCHED-STs1  
SCHED-PMREPT-ALL  
SCHED-PMREPT-STs1  
SET-DFLT-PMREPT-STs1
```

RELATED AUTONOMOUS RESPONSES

```
REPT^PM^STs1
```

COMMAND CODE: **ALW-PMREPT-STS3C**
COMMAND NAME: **ALLOW PERFORMANCE MONITORING
REPORT STS-3C**

PURPOSE

The ALW-PMREPT-STS3C command enables (allows) scheduled PM reporting (via the scheduled REPT^PM^STS3C message and binary PM reports via RS-232) for the specified STS-3C port (previously disabled by the INH-PMREPT-STS3C command).

Executing an ALW-PMREPT-STS3C causes the INHPMREPT condition type to be cleared for the specified STS-3C.

An ALW-PMREPT-STS3C command is denied if:

- The specified STS-3C port is not provisioned (via ENT-STS3C).
- PM reporting is already enabled (an STS-3C condition type of INHPMREPT is not set) for the specified STS-3C.
- An invalid parameter value is entered.

INPUT FORMAT

ALW-PMREPT-STS3C: [TID] :AID: [CTAG] ;

INPUT PARAMETERS

TID	<1-20 VALID TID CHARACTERS> Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	STS3C_AID: {OC3STS3C-{1-2240}} (OC3STS3C-OC3#/STS3C#) {OC12STS3C-{1-560}-{1-4}} (OC12STS3C-OC12#-STM1/STS3C#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: STS3C AID, identifies the STS-3C port.
CTAG	<1-6 VALID CTAG CHARACTERS> Default: <System Assigned CTAG Value> Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

ICNV	Input, Command Not Valid /* Invalid command requested. */
IIAC	Input, Invalid ACcess identifier /* Invalid AID entered. */ /* AID not in Partition. */
SAAL	Status, Already ALlowed /* PM report already allowed. */
SDBE	Status, internal Data Base Error /* Error reading pm report database. */ /* Error updating pm report database. */ /* Failed to set pointer to FM STS3C record. */
SNVS	Status, Not in Valid State /* Facility is unprovisioned. */ /* AID not as provisioned. */
SROF	Status, Requested Operation Failed /* Unable to determine facility type. */

EXAMPLES

In the following example, the PM reporting for STS-3C port OC3STS3C-4 is enabled.

```
ALW-PMREPT-ST3C: :OC3STS3C-4;
```

RELATED COMMANDS

```
ENT-ST3C  
INH-PMREPT-ST3C  
RTRV-DFLT-PMREPT-ST3C  
RTRV-PMSCHED-ALL  
RTRV-PMSCHED-ST3C  
SCHED-PMREPT-ALL  
SCHED-PMREPT-ST3C  
SET-DFLT-PMREPT-ST3C
```

RELATED AUTONOMOUS RESPONSES

```
REPT^PM^ST3C
```

COMMAND CODE: **ALW-PMREPT-T1**
COMMAND NAME: **ALLOW PERFORMANCE MONITORING REPORT T1**

PURPOSE

The ALW-PMREPT-T1 command enables (allows) scheduled PM reporting (via the scheduled REPT^PM^T1 message and binary PM reports via RS-232) for the specified DS1 port (previously disabled by the INH-PMREPT-T1 command).

Executing an ALW-PMREPT-T1 causes the INHPMREPT condition type to be cleared for the specified DS1.

An ALW-PMREPT-T1 command is denied if:

- The specified DS1 port is not provisioned (via ENT-T1).
- The specified DS1 port is embedded within a protection OC-3 or protection OC-12.
- PM reporting is already enabled (a DS1 condition type of INHPMREPT is not set) for the specified DS1.
- An invalid parameter value is entered.

INPUT FORMAT

ALW-PMREPT-T1 : [TID] : AID : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >		
	Default:	<SID>	
	Addressing:	None	
	Description:	Target Identifier, specifies the network node TID for the command.	
AID	DS1_AID:		
	{T1-{1-59392}}	(T1-DS1#)	
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)	
	{EC1T1-{1-3840}-{1-28}}	(EC1T1-EC1/STS1/DS3#-DS1#)	
	{EC1T1-{1-3840}-{1-7}-{1-4}}	(EC1T1-EC1/STS1#-VTGrp#-VT1/DS1#)	
	{OC3T1-{1-2240}-{1-3}-{1-28}}	(OC3T1-OC3#-STS1/DS3#-DS1#)	
	{OC3T1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3T1-OC3#-STS1#-VTGrp#-VT1/DS1#)	
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}	(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)	
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	(OC12T1-OC12#-STM1#-STS1#-VTGrp#-VT1/DS1#)	
	Default:	Entry Required	
	Addressing:	&&-ranging and &-grouping	
	Description:	DS1 AID, identifies the DS1 port.	
CTAG	< 1-6 VALID CTAG CHARACTERS >		
	Default:	< System assigned CTAG value >	
	Addressing:	None	
	Description:	Correlation Tag, associates input command with its output responses.	

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

ICNV	Input, Command Not Valid /* Invalid command requested. */
IIAC	Input, Invalid ACcess identifier /* Invalid AID entered. */ /* AID not in Partition. */
SAAL	Status, Already ALlowed /* PM report already allowed. */
SDBE	Status, internal Data Base Error /* Error reading pm report database. */ /* Error updating pm report database. */ /* Failed to set pointer to FM T1 record. */
SNVS	Status, Not in Valid State /* Facility is unprovisioned. */ /* AID not as provisioned. */
SROF	Status, Requested Operation Failed /* Unable to determine facility type. */

EXAMPLES

In the following example, the PM reporting for DS1 port T3T1-1157-5 is enabled.

```
ALW-PMREPT-T1 : : T3T1-1157-5 ;
```

RELATED COMMANDS

```
ENT-T1
INH-PMREPT-T1
RTRV-DFLT-PMREPT-T1
RTRV-PMSCHED-ALL
RTRV-PMSCHED-T1
SCHED-PMREPT-ALL
SCHED-PMREPT-T1
SET-DFLT-PMREPT-T1
```

RELATED AUTONOMOUS RESPONSES

```
REPT^PM^T1
```

COMMAND CODE: **ALW-PMREPT-T3**
COMMAND NAME: **ALLOW PERFORMANCE MONITORING
REPORT T3**

PURPOSE

The ALW-PMREPT-T3 command enables (allows) scheduled PM reporting (via the scheduled REPT^PM^T3 message and binary PM reports via RS-232) for the specified DS3 port (previously disabled by the INH-PMREPT-T3 command).

Executing an ALW-PMREPT-T3 causes the INHPMREPT condition type to be cleared for the specified DS3.

An ALW-PMREPT-T3 command is denied if:

- The specified DS3 port is not provisioned (via ENT-T3).
- The specified DS3 port is embedded within a protection OC-3 or protection OC-12.
- PM reporting is already enabled (a DS3 condition type of INHPMREPT is not set) for the specified DS3.
- An invalid parameter value is entered.

INPUT FORMAT

ALW-PMREPT-T3 : [TID] : AID : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	DS3_AID: {T3-{1-4800}} (T3-DS3#) {EC1T3-{1-3840}} (EC1T3-EC1/STS1/DS3#) {OC3T3-{1-2240}-{1-3}} (OC3T3-OC3#-STS1/DS3#) {OC12T3-{1-560}-{1-4}-{1-3}} (OC12T3-OC12#-STM1#-STS1/DS3#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: DS3 AID, identifies the DS3 port.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

ICNV	Input, Command Not Valid /* Invalid command requested. */
IIAC	Input, Invalid ACcess identifier /* Invalid AID entered. */ /* AID not in Partition. */
SAAL	Status, Already ALlowed /* PM report already allowed. */
SDBE	Status, internal Data Base Error /* Error reading pm report database. */ /* Error updating pm report database. */ /* Failed to set pointer to FM T3 record. */
SNVS	Status, Not in Valid State /* Facility is unprovisioned. */ /* AID not as provisioned. */
SROF	Status, Requested Operation Failed /* Unable to determine facility type. */

EXAMPLES

In the following example, the PM reporting for DS3 port T3–1157 is enabled.

```
ALW-PMREPT-T3 : T3-1157;
```

RELATED COMMANDS

```
ENT-T3  
INH-PMREPT-T3  
RTRV-DFLTPMREPT-T3  
RTRV-PMSCHED-ALL  
RTRV-PMSCHED-T3  
SCHED-PMREPT-ALL  
SCHED-PMREPT-T3  
SET-DFLTPMREPT-T3
```

RELATED AUTONOMOUS RESPONSES

```
REPT^PM^T3
```


COMMAND CODE: **ALW-PMREPT-VT1**
COMMAND NAME: **ALLOW PERFORMANCE MONITORING
REPORT VT1**

PURPOSE

The ALW-PMREPT-VT1 command enables (allows) scheduled PM reporting (via the scheduled REPT^PM^VT1 message and binary PM reports via RS-232) for the specified VT1.5 port (previously disabled by the INH-PMREPT-VT1 command).

Executing an ALW-PMREPT-VT1 causes the INHPMREPT condition type to be cleared for the specified VT1.5.

An ALW-PMREPT-VT1 command is denied if:

- The specified VT1.5 port is not provisioned (via ENT-VT1).
- The specified VT1.5 port is embedded within a protection OC-3 or protection OC-12.
- PM reporting is already enabled (a VT1.5 condition type of INHPMREPT is not set) for the specified VT1.5.
- An invalid parameter value is entered.

INPUT FORMAT

ALW-PMREPT-VT1: [TID] :AID: [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >	
	Default:	<SID>
	Addressing:	None
	Description:	Target Identifier, specifies the network node TID for the command.
AID	VT1_AID:	
	{EC1VT1-{1-3840}-{1-7}-{1-4}}	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)
	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)
	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	
	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)	
	Default:	Entry Required
	Addressing:	&&-ranging and &-grouping
	Description:	VT1 AID, identifies the VT1.5 port.
CTAG	< 1-6 VALID CTAG CHARACTERS >	
	Default:	< System assigned CTAG value >
	Addressing:	None
	Description:	Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

ICNV	Input, Command Not Valid /* Invalid command requested. */
IIAC	Input, Invalid ACcess identifier /* Invalid AID entered. */ /* AID not in Partition. */
SAAL	Status, Already ALlowed /* PM report already allowed. */
SDBE	Status, internal Data Base Error /* Error reading pm report database. */ /* Error updating pm report database. */ /* Failed to set pointer to FM VT1 record. */
SNVS	Status, Not in Valid State /* Facility is unprovisioned. */ /* AID not as provisioned. */
SROF	Status, Requested Operation Failed /* Unable to determine facility type. */

EXAMPLES

In the following example, the PM reporting for VT1.5 port EC1VT1-197-5-2 is enabled.

```
ALW-PMREPT-VT1: :EC1VT1-197-5-2;
```

RELATED COMMANDS

```
ENT-VT1  
INH-PMREPT-VT1  
RTRV-DFLTPMREPT-VT1  
RTRV-PMSCHED-ALL  
RTRV-PMSCHED-VT1  
SCHED-PMREPT-ALL  
SCHED-PMREPT-VT1  
SET-DFLTPMREPT-VT1
```

RELATED AUTONOMOUS RESPONSES

```
REPT^PM^VT1
```

COMMAND CODE: **ALW-SW-EQPT**
COMMAND NAME: **ALLOW SWITCH EQUIPMENT**

PURPOSE

The ALW-SW-EQPT command enables (allows) automatic copy switching for the specified one-for-one redundant (duplex) CPU, IPU, or SPB equipment. Either copy of equipment can be specified; the command enables copy switching on both copies of equipment. (Note, if the system is locked to a faulty copy of equipment, it will automatically revert back to the functional copy when the ALW-SW-EQPT is executed.)

Executing an ALW-SW-EQPT command clears the SST of ASI (previously set by executing an INH-SW-EQPT command) for the specified equipment entity and the corresponding opposite copy equipment entity.

Executing an ALW-SW-EQPT command clears the INHSWDX condition type (previously set by executing an INH-SW-EQPT) for the specified equipment entity and the corresponding opposite copy equipment entity.

An ALW-SW-EQPT command is denied if:

- Both copies of the specified equipment entity have not previously been provisioned with the ENT-EQPT command.
- Copy switching for the specified equipment is already allowed/enabled (does not have a SST of ASI and a condition type of INHSWDX).
- An invalid parameter value is entered.

INPUT FORMAT

ALW-SW-EQPT: [TID] :AID: [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	EQUIPMENT_AID: {CPU-1-2-{1-2}} {IPU-{44-63}-{1-4}-{1-8}} {SPB-{2-43, 102-111 , 112-135, 136-141 }-{1, 3}-{1-2}} {SPB-{5}-{1, 3}-{1, 2}} Default: Entry Required Addressing: None Description: Equipment AID, identifies the equipment object entity. Refer to Appendix B, Access Identifiers (AIDs) for a definition of equipment mnemonics.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  /* The ALW-SW-EQPT for <AID> was completed. */
  /* Automatic switching allowed for <AID>. */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;
```

OUTPUT PARAMETERS

AID	EQUIPMENT_AID: {CPU-1-2-{1-2}} {IPU-{44-63}-{1-4}-{1-8}} {SPB-{2-43, 102-111 , 112-135, 136-141 }-{1, 3}-{1-2}} Equipment AID, identifies the equipment entity.
-----	--

UNSUCCESSFUL RESPONSE FORMAT

```

      <SID> <YY-MM-DD> <HH:MM:SS>
M  <CTAG> DENY
      <ERROR CODE>
      [/* <Informational Error Description Text> */]
      [/* <Expanded Error Code Description> */]
      [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
SAAL	Status, Already ALlowed /* Automatic switching already allowed for <AID>. */ /* Unexpected message response from <AID> – response expected from Slave. */
SDBE	Status, internal Data Base Error /* An invalid module type specified in request. */ /* Error accessing auxiliary EM data area. */

EXAMPLES

In the following example, manual and automatic copy switching is enabled for SPB-4-1-1 and its opposite copy SPB-4-1-2.

```
ALW-SW-EQPT::SPB-4-1-1;
```

RELATED COMMANDS

```

ENT-EQPT
INH-SW-EQPT
RTRV-EQPT
RTRV-STATE-EQPT
SW-DX-EQPT

```

COMMAND CODE: **ALW-SWTOPROTN-EQPT**
COMMAND NAME: **ALLOW SWITCH TO PROTECTION EQUIPMENT**

PURPOSE

The ALW-SWTOPROTN-EQPT command enables (allows) automatic and manual I/O protection switching of a main (working) I/O circuit pack to a protection I/O circuit pack for the specified equipment entity. If an AID for a protection circuit pack is entered, automatic and manual I/O protection switching is enabled for all I/O circuit packs in the protection group associated with the I/O protection circuit pack, except for any I/O circuit pack that has protection switching specifically inhibited due to an INH-SWTOPROTN-EQPT command. If an AID of ALL is entered, automatic and manual I/O protection switching is enabled for all I/O circuit packs in the system, regardless of whether I/O protection switching is specifically inhibited for any I/O circuit packs.

Executing an ALW-SWTOPROTN-EQPT command clears the SST of PSI (previously set by executing an INH-SWTOPROTN-EQPT) for the specified equipment entity.

Executing an ALW-SWTOPROTN-EQPT command clears the INHSWPR condition type (previously set by executing an INH-SWTOPROTN-EQPT) for the specified equipment entity.

An ALW-SWTOPROTN-EQPT command is denied if:

- The specified equipment entity has not previously been provisioned with the ENT-EQPT command.
- Protection switching for the specified equipment is already allowed/enabled (does not have a SST of PSI and a condition type of INHSWPR), unless an AID of ALL is entered.
- An invalid parameter value is entered.

INPUT FORMAT

ALW-SWTOPROTN-EQPT: [TID] :AID: [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	EQUIPMENT_AID: {ALL} {DSI-{44-63}-{1-4}-{1-32}} {SI48: EP3-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42, 104-106,108-110, 136-141}-{1, 3}-{1-18}, EP3-{9, 21, 35, 43, 107}-3-{1-18}, EP3-{15, 27, 31, 39, 111}-1-{1-18}} {SI36: EP3-{6-8, 12-14}-{1, 3}-{1-14}, EP3-9-3-{1-14}, EP3-15-1-{1-14}} {SI48: ES1-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42, 104-106,108-110,136-141}-{1, 3}-{1-18}, ES1-{9, 21, 35, 43,107}-3-{1-18}, ES1-{15, 27, 31, 39,111}-1-{1-18}} {SI36: ES1-{6-8, 12-14}-{1, 3}-{1-14}, ES1-9-3-{1-14}, ES1-15-1-{1-14}} {HMU-{44-53}-{1-4}-{1-8}} {LMU-{44-53}-{1-4}-{1-32}} Default: Entry Required Addressing: None Description: Equipment AID, identifies the equipment object entity. Refer to Appendix B, Access Identifiers (AIDs) for a definition of equipment mnemonics.

CTAG <1-6 VALID CTAG CHARACTERS>
Default: <System Assigned CTAG Value>
Addressing: None
Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  /* The ALW-SWTOPROTN-EQPT for <AID> was completed. */
  /* Switching to protection allowed. */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;
```

OUTPUT PARAMETERS

AID **EQUIPMENT_AID:**
 {DSI-{44-63}-{1-4}-{1-32}}
 {SI48: EP3-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42,
104-106,108-110, 136-141}-{1, 3}-{1-18},
 EP3-{9, 21, 35, 43, **107**}-3-{1-18},
 EP3-{15, 27, 31, 39, **111**}-1-{1-18}}
 {SI36: EP3-{6-8, 12-14}-{1, 3}-{1-14},
 EP3-9-3-{1-14},
 EP3-15-1-{1-14}}
 {SI48: ES1-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42,
104-106,108-110,136-141}-{1, 3}-{1-18},
 ES1-{9, 21, 35, 43,**107**}-3-{1-18},
 ES1-{15, 27, 31, 39,**111**}-1-{1-18}}
 {SI36: ES1-{6-8, 12-14}-{1, 3}-{1-14},
 ES1-9-3-{1-14},
 ES1-15-1-{1-14}}
 {HMU-{44-53}-{1-4}-{1-8}}
 {LMU-{44-53}-{1-4}-{1-32}}
 Equipment AID, identifies the EP3, ES1, HMU, LMU or DSI equipment entity.

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC Input, Data Not Consistent
 /* Unable to read aux buffer for <AID>. */
IIAC Input, Invalid ACcess identifier
 /* Invalid or unassigned equipment identifier specified. */
 /* The command was rejected. */
 /* Invalid command for a TGR card. */
 /* Invalid AID for the given slot. */
 /* The ALW-SWTOPROTN-EQPT for <AID> was rejected. */

SAAL	Status, Already ALlowed /* The ALW-SWTOPROTN-EQPT for <AID> was rejected. */ /* Switching to protection already allowed. */
SARB	Status, All Resources Busy /* The command was rejected. */ /* Command already in progress on equipment. */ /* INIT-SYS command still active on shelf that equipment is on. */ /* Automatic configuration (database download) of parent processor in progress. */ /* Level 2 processor software download in progress. Try again later. */
SDBE	Status, internal Data Base Error /* The command was aborted. */ /* Error accessing auxiliary EM data area. */ /* Data base access failure. */ /* The command was rejected. */ /* The ALW-SWTOPROTN-EQPT for <AID> was aborted. */ /* Auxiliary buffer access failure */ /* SPB Auxiliary buffer access failure */ /* IPU Auxiliary buffer access failure */ /* LMU/DSI data base access failure. */ /* HMU data base access failure. */
SSRE	Status, System Resources Exceeded /* The command was rejected. */ /* Unable to allocate USI response buffer. */

EXAMPLES

In the following example, automatic and manual I/O protection switching is enabled for EP3-8-1-4.

```
ALW-SWTOPROTN-EQPT: :EP3-8-1-4;  
  <SID> <YY-MM-DD> <HH:MM:SS>  
M P70003 COMPLD  
  /* The ALW-SWTOPROTN-EQPT for EP3-8-1-4 was completed. */  
  /* Switching to protection allowed. */  
  /* ALW-SWTOPROTN-EQPT::EP3-8-1-4 [P70003] (1) */
```

In the following example, automatic and manual I/O protection switching is enabled for all EP3 circuit packs (EP3-9-3-2 through EP3-9-3-9, except for those that have protection switching specifically disabled because of an INH-SWTOPROTN command) in the protection group associated with the protection circuit pack EP3-9-3-1.

```
ALW-SWTOPROTN-EQPT: :EP3-9-3-1;  
  <SID> <YY-MM-DD> <HH:MM:SS>  
M P70002 COMPLD  
  /* The ALW-SWTOPROTN-EQPT for EP3-9-3-1 was completed. */  
  /* Switching to protection allowed. */  
  /* ALW-SWTOPROTN-EQPT::EP3-9-3-1 [P70002] (1) */
```

In the following example, automatic and manual I/O protection switching is enabled for all DSI, EP3, ES1, HMU and LMU circuit packs in the system.

```
ALW-SWTOPROTN-EQPT: :ALL;  
  <SID> <YY-MM-DD> <HH:MM:SS>  
M P70003 COMPLD  
  /* The ALW-SWTOPROTN-EQPT for ALL was completed. */  
  /* ALW-SWTOPROTN-EQPT::ALL [P70003] (1) */
```

RELATED COMMANDS

ALW-SWTOWKG-EQPT

ENT-EQPT
INH-SWTOPROTN-EQPT
INH-SWTOWKG-EQPT
RTRV-EQPT
RTRV-STATE-EQPT
SW-TOPROTN-EQPT
SW-TOWKG-EQPT

COMMAND CODE: **ALW-SWTOWKG-EQPT**
COMMAND NAME: **ALLOW SWITCH TO WORKING
EQUIPMENT**

PURPOSE

The ALW-SWTOWKG-EQPT command enables (allows) automatic and manual I/O protection switching from the protection I/O circuit pack to the main (working) I/O circuit pack for the specified equipment entity. If an AID for a protection circuit pack is entered, automatic and manual I/O protection switching from protection to working is enabled for all I/O circuit packs in the protection group associated with the I/O protection circuit pack, except for any I/O circuit pack that has protection switching to working specifically inhibited due to an INH-SWTOWKG-EQPT command. If an AID of ALL is entered, automatic and manual I/O protection switching from protection to working is enabled for all I/O circuit packs in the system, regardless of whether I/O protection switching to working is specifically inhibited for any I/O circuit packs.

Executing an ALW-SWTOWKG-EQPT command clears the SST of PRI (previously set by executing an INH-SWTOWKG-EQPT) for the specified equipment entity.

Executing an ALW-SWTOWKG-EQPT command clears the INH-SWTOWKG condition type (previously set by executing an INH-SWTOWKG-EQPT) for the specified equipment entity.

An ALW-SWTOWKG-EQPT command is denied if:

- The specified equipment entity has not previously been provisioned with the ENT-EQPT command.
- Protection switching from protection to working (main) for the specified equipment is already allowed/enabled (does not have a SST of PRI and a condition type of INH-SWTOWKG), unless an AID of ALL is entered.
- An invalid parameter value is entered.

INPUT FORMAT

ALW-SWTOWKG-EQPT: [TID] :AID: [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >
Default:	<SID>
Addressing:	None
Description:	Target Identifier, specifies the network node TID for the command.

AID	EQUIPMENT_AID:
	{ALL} {DSI-{44-63}-{1-4}-{1-32}} {SI48: EP3-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42, 104-106,108-110, 136-141 }-{1, 3}-{1-18}, EP3-{9, 21, 35, 43, 107 }-3-{1-18}, EP3-{15, 27, 31, 39, 111 }-1-{1-18}} {SI36: EP3-{6-8, 12-14}-{1, 3}-{1-14}, EP3-9-3-{1-14}, EP3-15-1-{1-14}} {SI48: ES1-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42, 104-106,108-110,136-141 }-{1, 3}-{1-18}, ES1-{9, 21, 35, 43, 107 }-3-{1-18}, ES1-{15, 27, 31, 39, 111 }-1-{1-18}} {SI36: ES1-{6-8, 12-14}-{1, 3}-{1-14}, ES1-9-3-{1-14}, ES1-15-1-{1-14}} {HMU-{44-53}-{1-4}-{1-8}} {LMU-{44-53}-{1-4}-{1-32}} Default: Entry Required Addressing: None Description: Equipment AID, identifies the equipment object entity. Refer to Appendix B, Access Identifiers (AIDs) for a definition of equipment mnemonics.
CTAG	<1-6 VALID CTAG CHARACTERS>
	Default: <System Assigned CTAG Value> Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* The ALW-SWTOWKG-EQPT for <AID> was completed */]
  [/* Switching to working allowed. */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

OUTPUT PARAMETERS

AID **EQUIPMENT_AID:**
 {DSI-{44-63}-{1-4}-{1-32}}
 {SI48: EP3-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42,
 104-106,108-110, 136-141}}-{1, 3}-{1-18},
 EP3-{9, 21, 35, 43, **107}**}-3-{1-18},
 EP3-{15, 27, 31, 39, **111}**}-1-{1-18}}
 {SI36: EP3-{6-8, 12-14}-{1, 3}-{1-14},
 EP3-9-3-{1-14},
 EP3-15-1-{1-14}}
 {SI48: ES1-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42,
 104-106,108-110,136-141}}-{1, 3}-{1-18},
 ES1-{9, 21, 35, 43,**107}**}-3-{1-18},
 ES1-{15, 27, 31, 39,**111}**}-1-{1-18}}
 {SI36: ES1-{6-8, 12-14}-{1, 3}-{1-14},
 ES1-9-3-{1-14},
 ES1-15-1-{1-14}}
 {HMU-{44-53}-{1-4}-{1-8}}
 {LMU-{44-53}-{1-4}-{1-32}}
 Equipment AID, identifies the EP3, ES1, HMU, LMU or DSI equipment entity.

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent /* Unable to read aux buffer for <AID>. */
IIAC	Input, Invalid ACcess identifier /* Invalid or unassigned equipment identifier specified. */ /* The command was rejected. */ /* Invalid command for a TGR card. */ /* Invalid AID for the given slot. */ /* The ALW-SWTOWKG-EQPT for <AID> was rejected. */
SAAL	Status, Already ALlowed /* Switching to working already allowed. */ /* The ALW-SWTOWKG-EQPT for <AID> was rejected. */
SARB	Status, All Resources Busy /* The command was rejected. */ /* Command already in progress on equipment. */ /* Automatic system configuration active on equipment. */ /* INIT-SYS command still active on shelf that equipment is on. */ /* Automatic configuration (database download) of parent processor in progress. */ /* Level 2 processor software download in progress. Try again later. */

SDBE Status, internal Data Base Error
 /* The command was aborted. */
 /* Error accessing auxiliary EM data area. */
 /* Data base access failure. */
 /* The command was rejected. */
 /* The ALW-SWTOWKG-EQPT for <AID> was aborted. */
 /* Auxiliary buffer access failure */
 /* SPB Auxiliary buffer access failure */
 /* IPU Auxiliary buffer access failure */
 /* LMU/DSI data base access failure. */
 /* HMU data base access failure. */
SSRE Status, System Resources Exceeded
 /* The command was rejected. */
 /* Unable to allocate USI response buffer. */

EXAMPLES

In the following example, automatic and manual I/O protection switching (from protection) back to working (main) is enabled for EP3-7-1-5.

```
ALW-SWTOWKG-EQPT: :EP3-7-1-5;  
  
<SID> <YY-MM-DD> <HH:MM:SS>  
M P70007 COMPLD  
/* The ALW-SWTOWKG-EQPT for EP3-7-1-5 was completed. */  
/* Switching to working allowed. */  
/* ALW-SWTOWKG-EQPT: :EP3-7-1-5 [P70007] (1) */
```

In the following example, automatic and manual I/O protection switching (from protection) back to working (main) is enabled for all EP3 circuit packs (EP3-9-3-2 through EP3-9-3-9, except for those that have protection switching to working specifically disabled because of an INH-SWTOWKG command) in the protection group associated with the protection circuit pack EP3-9-3-1.

```
ALW-SWTOWKG-EQPT: :EP3-9-3-1;  
  
<SID> <YY-MM-DD> <HH:MM:SS>  
M P70009 COMPLD  
/* The ALW-SWTOWKG-EQPT for EP3-9-3-1 was completed. */  
/* Switching to working allowed. */  
/* ALW-SWTOWKG-EQPT: :EP3-9-3-1 [P70009] (1) */
```

In the following example, automatic and manual I/O protection switching (from protection) back to working (main) is enabled for all EP3, ES1, DSI, HMU and LMU circuit packs in the system.

```
ALW-SWTOWKG-EQPT: :ALL;  
  
<SID> <YY-MM-DD> <HH:MM:SS>  
M P70011 COMPLD  
/* The ALW-SWTOWKG-EQPT for ALL was completed. */  
/* ALW-SWTOWKG-EQPT: :ALL [P70011] (1) */
```

RELATED COMMANDS

ALW-SWTOPROTN-EQPT
ENT-EQPT
INH-SWTOPROTN-EQPT
INH-SWTOWKG-EQPT
RTRV-EQPT
RTRV-STATE-EQPT
SW-TOPROTN-EQPT
SW-TOWKG-EQPT

COMMAND CODE: **CANC-DA**
COMMAND NAME: **CANCEL DELAYED ACTIVATION**

PURPOSE

The CANC-DA command cancels previously scheduled delay-activated commands (removes the command line entry from the delayed activation table).

The commands ACT-DB-BACKUP, DLT-EQPT, ENT-EQPT, or INIT-SYS may be scheduled to execute at some specified future time, either once, or perpetually. This is known as Delayed Activation (DA).

These commands are scheduled for delayed activation by specifying the optional parameters ON (Order Number), DATE, and TIME when the command is entered. When the command is entered with these parameters specified, the command line is entered into the delayed activation table. The command will subsequently execute automatically upon occurrence of the specified date and/or time, or manually by use of the ACT-DA command. The CANC-DA command removes the command line entry in the delayed activation table and cancels the scheduled delayed activation.

NOTE: Although the ON parameter value can be an integer from 0 to 999999, the user should limit the number of delayed activation commands at any given time to 500.

A CANC-DA command is denied if:

- The specified ON (Order Number) does not exist in the delayed activation table.
- An invalid parameter value is entered.

INPUT FORMAT

CANC-DA: [TID] :ON: [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
ON	{ON_AID:{0 - 999999}, ALL} Default: Entry Required Addressing: &&-ranging and &-grouping Description: Access Identifier, specifies the Order Number of the command to be cancelled (removed) from the delayed activation table. Values are: 0-999999 Order Number value previously assigned to the command. ALL All pending Order Numbers are to be cancelled. Restrictions: CANC-DA is denied if the specified Order Number does not exist in the delayed activation table.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Optional Suggested Action Text> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

```
IPNV      Input, Parameter Not Valid
          /* Order Number = <ON_AID> not in crontab/not deleted */
          /* Invalid Order Number = <ON_AID> */
```

EXAMPLES

In the following example, the command scheduled for delayed activation with Order Number 1003 is cancelled.

```
CANC-DA::1003;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P28024. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P28024 COMPLD
  /* CANC-DA::1003: [P28024] (1) */
;
```

In the next example, the commands scheduled for delayed activation with Order Numbers 10 and 12 through 19 are cancelled.

```
CANC-DA::10&12&&19;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of P28025. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P28025 COMPLD
  /* CANC-DA::10&12&&19: [P28025] (2) */
;
```

RELATED COMMANDS

```
ACT-DA
ACT-DB-BACKUP
DLT-EQPT
ENT-EQPT
INIT-SYS
RTRV-DA
```


COMMAND CODE: **CANC-DB-BACKUP**
COMMAND NAME: **CANCEL DATABASE BACKUP**

PURPOSE

The CANC-DB-BACKUP command aborts (cancels) any database backup currently in-progress (because of an ACT-DB-BACKUP command).

If an in-progress database backup is cancelled, an unsuccessful response (CANCLD) message is generated for the ACT-DB-BACKUP command (refer to the ACT-DB-BACKUP command) and the system "marks" the backed-up data on the optical disk media as "invalid" so that it cannot be inadvertently used for a subsequent database restoral.

A CANC-DB-BACKUP command is denied if:

- A database backup operation is not in-progress.
- The in-progress database backup operation has already been cancelled.
- An invalid parameter value is entered.

INPUT FORMAT

CANC-DB-BACKUP: [TID] : : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Optional Suggested Action Text> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

ICNV Input, Command Not Valid
 /* No Backup in progress */
 /* CANCEL-DB-BACKUP already in progress. */

EXAMPLES

In the following example, the in-progress database backup operation is cancelled.

```
CANCEL-DB-BACKUP ;
```

RELATED COMMANDS

ACT-DB-BACKUP
RESTORE-DB
RTRV-DB-LABEL
START-OPS
STOP-OPS

COMMAND CODE: **CANC-EUA**
COMMAND NAME: **CANCEL EMERGENCY USER ACCESS**

PURPOSE

The CANC-EUA command restores the transfer of message types between the Level-1 processor and Level-2 processor that were suspended via the ACT-EUA command and *resynchronizes the two processors*. It also clears the EUA condition type.

An CANC-EUA command is denied if:

- The EUA condition type is already set.
- The system is unable to read or update the database.

INPUT FORMAT

CANC-EUA: [TID] : : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >
Default:	<SID>
Addressing:	None
Description:	Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS >
Default:	< System assigned CTAG value >
Addressing:	None
Description:	Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

SDBE	Status, internal Data Base Error
	/* The CANC-EUA aborted due to system error. */
	/* Error reading system configuration data base. */
	/* Error updating system configuration data base. */
SNVS	Status, Not in Valid State
	/* The CANC-EUA was rejected. */
	/* Emergency User Access already cancelled. */

EXAMPLES

In the following example, CANCEL-EUA is used to restore the transfer of message types between the Level-1 processor and Level-2 processor that were suspended via the ACT-EUA command and to resynchronize the two processors.

```
CANCEL-EUA;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of P28020. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M P28020 COMPLD  
/* CANCEL-EUA [P28020] (2) */  
;
```

RELATED COMMANDS

ACT-EUA

COMMAND CODE: **CANC-USER**
COMMAND NAME: **CANCEL USER**

PURPOSE

The CANC-USER command terminates a session with the system which was previously established by an ACT-USER command and logs-off the specified user.

Only the system administrator (UID of "system" or "SYSTEM") or the Alcatel account user can log-off any other user. Other users, besides the system administrator or Alcatel account, cannot log-off another user.

The CANC-USER command belongs to all Command Community Functional Category command privilege groups A through Z. The CANC-USER command cannot be removed from any command privilege group (refer to the ED-GROUP-CMD command and to Appendix H, User Command Privilege Defaults (CCAL & CCFC).)

The CANC-USER command can be executed while in the Limited Command Execution mode (i.e., after execution of a STOP-OPS command) or the Normal Command Execution mode.

A CANC-USER command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

CANC-USER: [TID] : [UID] : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
UID	<5-12 VALID UID CHARACTERS> Default: <The UID of the user entering the command> Addressing: None Description: User Identifier, specifies the user to be logged-off. (Refer to the UID parameter in ENT-USER for a description of valid UID values.) Restrictions: CANC-USER is denied if a user other than "SYSTEM", "system", or the Alcatel account user, enters another user's UID.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

The following successful response message is sent to the user whose session is being terminated (the user being logged-off). This message is not affected by a user's OSL provisioning (refer to ENT-USER or ED-PRVG-USER).

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
/* CANC-USER <UID> on CID <CPORT> [-<VCNUM>] */
"<UID> : <CPORT> [-<VCNUM>] "
;
```

The following successful response message is sent to any other user provisioned to receive messages generated in response to another user's commands (refer to ENT-USER or ED-PRVG-USER).

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * CANCEL-USER <UID> on CID <CPORT> [-<VCNUM>] */]
  [/ * <Command Echo> [<CTAG>] (<CID>[-<VCNUM>]) */]
;
```

OUTPUT PARAMETERS

UID	<5-12 VALID UID CHARACTERS> User Identifier, identifies the UID of the user that is logged-off the system.
CPORT	{ 1-12} Control Port, identifies the physical control port connection to the system.
VCNUM	{1-8} Virtual Channel Number, identifies any X.25 virtual channel connection to the system. A value for VCNUM is only returned if the session was over an X.25 virtual channel.

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID>[-<VCNUM>]) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IPNV	Input, Parameter Not Valid /* A user is not currently logged onto this CID */ /* Invalid UID entered */ /* UID not found */ /* Privilege: Cannot process CANCEL-USER with specified UID */
SROF	Status, Requested Operation Failed /* Unable to read USDB record, status <STATUS> */ /* UID does not have an active session */ /* This CID is in an AOOS state */

EXAMPLES

In the following example, the session with the user “user4” on CID 2 is terminated (the user “user4” is logged-off).

```
CANC-USER;
```

The output responses, shown below, assume CID 2 was used to enter the command and a system generated CTAG value of P2b009. The response headers would contain the provisioned Site ID of the system, and the date and time the command was executed.

The following output response is sent to the user “user4” on CID 2.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M   P2b009 COMPLD
/*  CANC-USER user4 on CID 2 */
"user4:2"
/*  CANC-USER [P2b009] (2) */
;
```

The following output response is sent to any other user provisioned to receive the response messages generated from the execution of a command by another user.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M   P2b009 COMPLD
/*  CANC-USER user4 on CID 2 */
/*  CANC-USER [P2b009] (2) */
;
```

RELATED COMMANDS

ACT-USER

COMMAND CODE: **CHG-ACCMD-STS1**
COMMAND NAME: **CHANGE ACCESS MODE STS1**

PURPOSE

The CHG-ACCMD-STS1 command changes the test access mode of a previously established test access session for a Test Access port connection from one mode to another. This command can only be executed after a CONN-TACC-STS1 command has been executed to establish a test access session.

The available test access modes for a Test Access port connection (the FAD A AID is specified for TAP) are LOOPE, LOOPF, MONE, MONEF, MONF, SPLTA, SPLTB, SPLTE, SPLTEF, or SPLTF.

A CHG-ACCMD-STS1 command is denied if:

- An Idle Signal Source Port is not provisioned.
- The port specified for TAP is not the FAD A port of a TAPP owned by (provisioned by) the user and previously assigned for a test access session by a CONN-TACC-STS1 command.
- The specified MODE already exists.
- A value for MODE of {LOOPF, MONF, MONEF, SPLTEF, SPLTF} is entered and a facility-side connection does not exist, or if {SPLTA, SPLTB} is entered and a corresponding A-side or B-side connection does not exist.
- A value for MODE of {LOOPE, LOOPF} is entered and the port to be tested is in a terminate-and-leave status (a cross-connection SST of {TERMB, TERMF, TERMT}).
- A value for MODE other than {MONE, MONEF, MONF} is entered and the facility-side port to be tested is the head of a bridge or conference connection.
- A value for MODE other than {MONE, MONEF, MONF} is entered and any connection involved in the existing TACC operation is redlined.
- An invalid parameter value or combination of parameter values is entered.

CHG-ACCMD-STS1 executed with a value for MODE of {MONE, MONEF, MONF} is not service affecting. CHG-ACCMD-STS1 executed with a value for MODE of {LOOPE, LOOPF, SPLTA, SPLTB, SPLTE, SPLTEF, SPLTF} is service affecting and interrupts traffic. Care should be exercised when specifying one of these test access modes.

INPUT FORMAT

CHG-ACCMD-STS1 : [TID] : TAP : [CTAG] : : MODE ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >		
	Default:	<SID>	
	Addressing:	None	
	Description:	Target Identifier, specifies the network node TID for the command.	
TAP	STS1_AID:		
	{EC1STS1-{1-3840}}	(EC1STS1-EC1/STS1#)	
	{OC3STS1-{1-2240}-{1-3}}	(OC3STS1-OC3#-STS1#)	
	{OC12STS1-{1-560}-{1-4}-{1-3}}	(OC12STS1-OC12#-STM1#-STS1#)	
	Default:	Entry Required	
	Addressing:	None	
	Description:	Test Access Port AID, identifies the FAD A AID of the Test Access Port Pair (TAPP) which is currently involved in the test access session.	
	Restrictions:	CHG-ACCMD-STS1 is denied if TAP specifies the 3rd STS1 within an OC3 or the {4-3}th STS1 within an OC12. Refer to Appendix B, Access Identifiers (AIDs).	
CTAG	< 1-6 VALID CTAG CHARACTERS >		
	Default:	< System assigned CTAG value >	
	Addressing:	None	
	Description:	Correlation Tag, associates input command with its output responses.	

MODE	{LOOPE, LOOPF, MONE, MONEF, MONF, SPLTA, SPLTB, SPLTE, SPLTEF, SPLTF}
Default:	Entry Required
Addressing:	None
Description:	Test Access Mode, specifies the new test mode to be used. Values are:
LOOPE	Loop Equipment-side, specifies a test which loops the equipment-side incoming signal to its output and monitors the looped signal with FAD A. If a facility-side port is connected to the equipment-side port, the A and B side transmission paths are split, AIS-P is inserted into the outgoing facility-side signal, and the incoming facility-side signal is terminated.
LOOPF	Loop Facility-side, specifies a test which loops the facility-side incoming signal to its output and monitors the looped signal with FAD A. If an equipment-side port is connected to the facility-side port, the A and B side transmission paths are split, AIS-P is inserted into the outgoing equipment-side signal, and the incoming equipment-side signal is terminated.
MONE	Monitor Equipment-side, specifies a test which monitors the equipment-side port with FAD A.
MONEF	Monitor Equipment-side and Facility-side, specifies a test which monitors the equipment-side port with FAD A and the facility-side port with FAD B.
MONF	Monitor Facility-side, specifies a test which monitors the facility-side port with FAD A.
SPLTA	Split A-side, specifies a test which splits the A-side signal path and connects it both to and from FAD A.
SPLTB	Split B-side, specifies a test which splits the B-side signal path and connects it both to and from FAD A.
SPLTE	Split Equipment-side, specifies a test depending on the value entered for TAP. When a STS-1 AID is entered for TAP, the equipment-side port is connected both to and from FAD A. If a facility-side port is connected to the equipment-side port, the A and B side transmission paths are split, AIS-P is inserted into the outgoing facility-side signal, and the incoming facility-side signal is terminated.
SPLTEF	Split Equipment-side and Facility-side, specifies a test which splits the A and B transmission paths (if existing) and connects the equipment-side port both to and from FAD A and the facility-side port both to and from FAD B.
SPLTF	Split Facility-side, specifies a test depending on the value entered for TAP. When a STS-1 AID is entered for TAP, the facility-side port is connected both to and from FAD A. If an equipment-side port is connected to the facility-side port, the A and B side transmission paths are split, AIS-P is inserted into the outgoing equipment-side signal, and the incoming equipment-side signal is terminated.
Restrictions:	CHG-ACCMD-STs1 is denied if MODE of {LOOPF, MONF, MONEF, SPLTEF, SPLTF} is entered and a facility-side connection does not exist. CHG-ACCMD-STs1 is denied if MODE of {SPLTA, SPLTB} is entered and a corresponding A-side or B-side connection does not exist.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
ITSN	Input, invalid/inactive Test Session Number
RCIN	Resource, requested Circuit Id does Not exist /* Cannot use specified mode because there is no A-Side */ /* Cannot use specified mode because there is no B-Side */
RTEN	Resource, requested Tap does Not Exist /* TAPP specified does not exist */
SCSN	Status, invalid Command SequeNce /* LOOP mode not allowed on terminated ports */
SDBE	Status, internal Data Base Error /* <DATABASE TYPE> Database Error: <STATUS> for <AID STRING> */ /* <DATABASE TYPE> Database Error: <STATUS> for record number <RECORD NUMBER> */ /* <DATABASE TYPE> Database Error: <STATUS> */
SDNC	Status, Data Not Consistent /* Cannot use specified mode because there is no Facility */
SNVS	Status, Not in Valid State
SRCN	Status, Requested CoNdition already exists
SROF	Status, Requested Operation Failed /* No signal source is provisioned for UNCH QRS */
STTI	STatus, Tap Idle

EXAMPLES

The following example changes the existing test access mode for STS1 Test Access Port OC3STS1-5-2 to MONF.

```
CHG-ACCMD-STS1::STS1-5-2::MONF;
```

The following example changes the existing test access mode for STS1 Test Access Port OC3STS1-5-2 to SPLTB.

```
CHG-ACCMD-STS1::STS1-5-2::SPLTB;
```

RELATED COMMANDS

```

CHG-TL-DIG
CONN-TACC-STS1
DISC-TACC
DISC-TACC-PRVG
REPT-INITZN
REPT-STAT
RST-TAP-DIG
RTRV-TACC

```


COMMAND CODE: **CHG-ACCMD-T1**
COMMAND NAME: **CHANGE ACCESS MODE T1**

PURPOSE

The CHG-ACCMD-T1 command changes the test access mode of a previously established test access session for a Test Access port connection from one mode to another. This command can only be executed after a CONN-TACC-T1 command has been executed to establish a test access session.

The available test access modes for a Test Access port connection (the FAD A AID is specified for TAP) are LOOPE, LOOPF, MONE, MONEF, MONF, SPLTA, SPLTB, SPLTE, SPLTEF, or SPLTF.

A CHG-ACCMD-T1 command is denied if:

- An Idle Signal Source Port for unframed QRS is not provisioned.
- The DS1 port specified for TAP is not the FAD A port of a TAPP owned by (provisioned by) the user and previously assigned for a test access session by a CONN-TACC-T1 command.
- The specified MODE already exists.
- A value for MODE of {LOOPF, MONF, MONEF, SPLTEF, SPLTF} is entered and a facility-side connection does not exist, or if {SPLTA, SPLTB} is entered and a corresponding A-side or B-side connection does not exist.
- A value for MODE of {LOOPE, LOOPF} is entered and the DS1 port to be tested is in a terminate-and-leave status (a cross-connection SST of {TERMB, TERMB, TERMT}).
- A value for MODE other than {MONE, MONEF, MONF} is entered and the facility-side port to be tested is the head of a bridge or conference connection.
- A value for MODE other than {MONE, MONEF, MONF} is entered and any connection involved in the existing TACC operation is redlined.
- An invalid parameter value or combination of parameter values is entered.

CHG-ACCMD-T1 executed with a value for MODE of {MONE, MONEF, MONF} is not service affecting. CHG-ACCMD-T1 executed with a value for MODE of {LOOPE, LOOPF, SPLTA, SPLTB, SPLTE, SPLTEF, SPLTF} is service affecting and interrupts traffic. Care should be exercised when specifying one of these test access modes.

INPUT FORMAT

CHG-ACCMD-T1 : [TID] : TAP : [CTAG] : : MODE ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >		
	Default:	<SID>	
	Addressing:	None	
	Description:	Target Identifier, specifies the network node TID for the command.	
TAP	DS1_AID:		
	{T1-{1-59392}}	(T1-DS1#)	
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)	
	Default:	Entry Required	
	Addressing:	None	
	Description:	Test Access Port AID, identifies the FAD A AID of the Test Access Port Pair (TAPP) which is currently involved in the test session.	
	Restrictions:	CHG-ACCMD-T1 is denied if the TAP value specifies DS1 embedded within electrical DS3 and the 28th DS1 is not excluded.	
CTAG	< 1-6 VALID CTAG CHARACTERS >		
	Default:	< System assigned CTAG value >	
	Addressing:	None	
	Description:	Correlation Tag, associates input command with its output responses.	

MODE	{LOOPE, LOOPF, MONE, MONEF, MONF, SPLTA, SPLTB, SPLTE, SPLTEF, SPLTF}
Default:	Entry Required
Addressing:	None
Description:	Test Access Mode, specifies the new test mode to be used. Values are:
LOOPE	Loop Equipment-side, specifies a test which loops the equipment-side incoming signal to its output and monitors the looped signal with FAD A. If a facility-side port is connected to the equipment-side port, the A and B side transmission paths are split, unframed QRS is inserted into the outgoing facility-side signal, and the incoming facility-side signal is terminated.
LOOPF	Loop Facility-side, specifies a test which loops the facility-side incoming signal to its output and monitors the looped signal with FAD A. If an equipment-side port is connected to the facility-side port, the A and B side transmission paths are split, unframed QRS is inserted into the outgoing equipment-side signal, and the incoming equipment-side signal is terminated.
MONE	Monitor Equipment-side, specifies a test which monitors the equipment-side port with FAD A.
MONEF	Monitor Equipment-side and Facility-side, specifies a test which monitors the equipment-side port with FAD A and the facility-side port with FAD B.
MONF	Monitor Facility-side, specifies a test which monitors the facility-side port with FAD A.
SPLTA	Split A-side, specifies a test which splits the A-side signal path and connects it both to and from FAD A.
SPLTB	Split B-side, specifies a test which splits the B-side signal path and connects it both to and from FAD A.
SPLTE	Split Equipment-side, specifies a test depending on the value entered for TAP. If a DS1 AID is entered for TAP, the equipment-side port is connected both to and from FAD A. If a facility-side port is connected to the equipment-side port, the A and B side transmission paths are split, unframed QRS inserted into the outgoing facility-side signal, and the incoming facility-side signal is terminated.
SPLTEF	Split Equipment-side and Facility-side, specifies a test which splits the A and B transmission paths (if existing) and connects the equipment-side port both to and from FAD A and the facility-side port both to and from FAD B.
SPLTF	Split Facility-side, specifies a test depending on the value entered for TAP. If a DS1 AID is entered for TAP, the facility-side port is connected both to and from FAD A. If an equipment-side port is connected to the facility-side port, the A and B side transmission paths are split, unframed QRS inserted into the outgoing equipment-side signal, and the incoming equipment-side signal is terminated.
Restrictions:	CHG-ACCMD-T1 is denied if MODE of {LOOPF, MONF, MONEF, SPLTEF, SPLTF} is entered and a facility-side connection does not exist. CHG-ACCMD-T1 is denied if MODE of {SPLTA, SPLTB} is entered and a corresponding A-side or B-side connection does not exist.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
IPNV	Input, Parameter Not Valid
ITSN	Input, invalid/inactive Test Session Number
RCIN	Resource, requested Circuit Id does Not exist /* Cannot use specified mode because there is no A-Side */ /* Cannot use specified mode because there is no B-Side */
RTEN	Resource, requested Tap does Not Exist /* TAPP specified does not exist */
SCSN	Status, invalid Command SequeNce /* LOOP mode not allowed on terminated ports */
SDBE	Status, internal Data Base Error /* <DATABASE TYPE> Database Error: <STATUS> for <AID STRING> */ /* <DATABASE TYPE> Database Error: <STATUS> for record number <RECORD NUMBER> */ /* <DATABASE TYPE> Database Error: <STATUS> */
SDNC	Status, Data Not Consistent /* Cannot use specified mode because there is no Facility */
SNVS	Status, Not in Valid State
SRCN	Status, Requested CoNdition already exists
SROF	Status, Requested Operation Failed /* No signal source is provisioned for UNCH QRS */
STTI	STatus, Tap Idle

EXAMPLES

The following example changes the existing test access mode for Test Access Port T1-28672 to MONF.

```
CHG-ACCMD-T1::T1-28672::MONF;
```

The following example changes the existing test access mode for Test Access Port T1-28672 to SPLTB.

```
CHG-ACCMD-T1::T1-28672::SPLTB;
```

RELATED COMMANDS

```
CHG-TL-DIG
CONN-TACC-T1
```

DISC-TACC
DISC-TACC-PRVG
REPT-INITZN
REPT-STAT
RST-TAP-DIG
RTRV-TACC

COMMAND CODE: **CHG-ACCMD-T3**
COMMAND NAME: **CHANGE ACCESS MODE T3**

PURPOSE

The CHG-ACCMD-T3 command changes the test access mode of a previously established test access session for a Test Access port connection from one mode to another. This command can only be executed after a CONN-TACC-T3 command has been executed to establish a test access session.

The available test access modes for a Test Access port connection (the FAD A AID is specified for TAP) are LOOPE, LOOPF, MONE, MONEF, MONF, SPLTA, SPLTB, SPLTE, SPLTEF, or SPLTF.

A CHG-ACCMD-T3 command is denied if:

- An IDLE Signal Source Port is not provisioned.
- The DS3 port specified for TAP is not the FAD A port of a TAPP in use by the user and previously assigned for a test access session by a CONN-TACC-T3 command.
- The specified MODE already exists.
- A value for MODE of {LOOPF, MONF, MONEF, SPLTEF, SPLTF} is entered and a facility-side connection does not exist, or if {SPLTA, SPLTB} is entered and a corresponding A-side or B-side connection does not exist.
- A value for MODE of {LOOPE, LOOPF} is entered and the DS3 port to be tested is in a terminate-and-leave status (a cross-connection SST of {TERMB, TERMB, TERMT}).
- A value for MODE other than {MONE, MONEF, MONF} is entered and the facility-side port to be tested is the head of a bridge or conference connection.
- A value for MODE other than {MONE, MONEF, MONF} is entered and any connection involved in the existing TACC operation is redlined.
- An invalid parameter value or combination of parameter values is entered.

CHG-ACCMD-T3 executed with a value for MODE of {MONE, MONEF, MONF} is not service affecting. CHG-ACCMD-T3 executed with a value for MODE of {LOOPE, LOOPF, SPLTA, SPLTB, SPLTE, SPLTEF, SPLTF} is service affecting and interrupts traffic. Care should be exercised when specifying one of these test access modes.

INPUT FORMAT

CHG-ACCMD-T3 : [TID] : TAP : [CTAG] : : MODE ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >	
	Default:	<SID>
	Addressing:	None
	Description:	Target Identifier, specifies the network node TID for the command.
TAP	DS3_AID:	
	{T3-{1-4800}}	(T3-DS3#)
	Default:	Entry Required
	Addressing:	None
	Description:	Test Access Port AID, identifies the FAD A AID of the Test Access Port Pair (TAPP) which is currently involved in the test session.
CTAG	< 1-6 VALID CTAG CHARACTERS >	
	Default:	< System assigned CTAG value >
	Addressing:	None
	Description:	Correlation Tag, associates input command with its output responses.

MODE	{LOOPE, LOOPF, MONE, MONEF, MONF, SPLTA, SPLTB, SPLTE, SPLTEF, SPLTF}
Default:	Entry Required
Addressing:	None
Description:	Test Access Mode, specifies the new test mode to be used. Values are:
LOOPE	Loop Equipment-side, specifies a test which loops the equipment-side incoming signal to its output and monitors the looped signal with FAD A. If a facility-side port is connected to the equipment-side port, the A and B side transmission paths are split, IDLE is inserted into the outgoing facility-side signal, and the incoming facility-side signal is terminated.
LOOPF	Loop Facility-side, specifies a test which loops the facility-side incoming signal to its output and monitors the looped signal with FAD A. If an equipment-side port is connected to the facility-side port, the A and B side transmission paths are split, IDLE is inserted into the outgoing equipment-side signal, and the incoming equipment-side signal is terminated.
MONE	Monitor Equipment-side, specifies a test which monitors the equipment-side port with FAD A.
MONEF	Monitor Equipment-side and Facility-side, specifies a test which monitors the equipment-side port with FAD A and the facility-side port with FAD B.
MONF	Monitor Facility-side, specifies a test which monitors the facility-side port with FAD A.
SPLTA	Split A-side, specifies a test which splits the A-side signal path and connects it both to and from FAD A.
SPLTB	Split B-side, specifies a test which splits the B-side signal path and connects it both to and from FAD A.
SPLTE	Split Equipment-side, specifies a test depending on the value entered for TAP. When a DS3 AID is entered for TAP, the equipment-side port is connected both to and from FAD A. If a facility-side port is connected to the equipment-side port, the A and B side transmission paths are split, IDLE inserted into the outgoing facility-side signal, and the incoming facility-side signal is terminated.
SPLTEF	Split Equipment-side and Facility-side, specifies a test which splits the A and B transmission paths (if existing) and connects the equipment-side port both to and from FAD A and the facility-side port both to and from FAD B.
SPLTF	Split Facility-side, specifies a test depending on the value entered for TAP. When a DS3 AID is entered for TAP, the facility-side port is connected both to and from FAD A. If an equipment-side port is connected to the facility-side port, the A and B side transmission paths are split, IDLE inserted into the outgoing equipment-side signal, and the incoming equipment-side signal is terminated.
Restrictions:	CHG-ACCMD-T3 is denied if MODE of {LOOPF, MONF, MONEF, SPLTEF, SPLTF} is entered and a facility-side connection does not exist. CHG-ACCMD-T3 is denied if MODE of {SPLTA, SPLTB} is entered and a corresponding A-side or B-side connection does not exist.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID [-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
ITSN	Input, invalid/inactive Test Session Number
RCIN	Resource, requested Circuit Id does Not exist /* Cannot use specified mode because there is no A-Side */ /* Cannot use specified mode because there is no B-Side */
RTEN	Resource, requested Tap does Not Exist /* TAPP specified does not exist */
SCSN	Status, invalid Command SequeNce /* LOOP mode not allowed on terminated ports */
SDBE	Status, internal Data Base Error /* <DATABASE TYPE> Database Error: <STATUS> for <AID STRING> */ /* <DATABASE TYPE> Database Error: <STATUS> for record number <RECORD NUMBER> */ /* <DATABASE TYPE> Database Error: <STATUS> */
SDNC	Status, Data Not Consistent /* Cannot use specified mode because there is no Facility */
SNVS	Status, Not in Valid State
SRCN	Status, Requested CoNdition already exists
SROF	Status, Requested Operation Failed
STTI	STatus, Tap Idle

EXAMPLES

The following example changes the existing test access mode for Test Access Port T3-1156 to MONF.

```
CHG-ACCMD-T3::T3-1156:::MONF;
```

The following example changes the existing test access mode for Test Access Port T3-1156 to SPLTB.

```
CHG-ACCMD-T3::T3-1156:::SPLTB;
```

RELATED COMMANDS

```
CHG-TL-DIG
CONN-TACC-T3
DISC-TACC
DISC-TACC-PRVG
REPT-INITZN
REPT-STAT
RST-TAP-DIG
RTRV-TACC
```


COMMAND CODE: **CHG-ACCMD-VT1**
COMMAND NAME: **CHANGE ACCESS MODE VT1**

PURPOSE

The CHG-ACCMD-VT1 command changes the test access mode of a previously established test access session for a Test Access port connection from one mode to another. This command can only be executed after a CONN-TACC-VT1 command has been executed to establish a test access session.

The available test access modes for a Test Access port connection (the FAD A AID is specified for TAP) are LOOPE, LOOPF, MONE, MONEF, MONF, SPLTA, SPLTB, SPLTE, SPLTEF, or SPLTF.

A CHG-ACCMD-VT1 command is denied if:

- An Idle Signal Source Port is not provisioned.
- The port specified for TAP is not the FAD A port of a TAPP owned by (provisioned by) the user and previously assigned for a test access session by a CONN-TACC-VT1 command.
- The specified MODE already exists.
- A value for MODE of {LOOPF, MONF, MONEF, SPLTEF, SPLTF} is entered and a facility-side connection does not exist, or if {SPLTA, SPLTB} is entered and a corresponding A-side or B-side connection does not exist.
- A value for MODE of {LOOPE, LOOPF} is entered and the port to be tested is in a terminate-and-leave status (a cross-connection SST of {TERMB, TERMF, TERMT}).
- A value for MODE other than {MONE, MONEF, MONF} is entered and the facility-side port to be tested is the head of a bridge or conference connection.
- A value for MODE other than {MONE, MONEF, MONF} is entered and any connection involved in the existing TACC operation is redlined.
- An invalid parameter value or combination of parameter values is entered.

CHG-ACCMD-VT1 executed with a value for MODE of {MONE, MONEF, MONF} is not service affecting. CHG-ACCMD-VT1 executed with a value for MODE of {LOOPE, LOOPF, SPLTA, SPLTB, SPLTE, SPLTEF, SPLTF} is service affecting and interrupts traffic. Care should be exercised when specifying one of these test access modes.

INPUT FORMAT

CHG-ACCMD-VT1 : [TID] : TAP : [CTAG] : : MODE ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >		
	Default:	<SID>	
	Addressing:	None	
	Description:	Target Identifier, specifies the network node TID for the command.	
TAP	VT1_AID:		
	{EC1VT1-{1-3840}-{1-7}-{1-4}}	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)	
	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)	
	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}		
	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)		
	Default:	Entry Required	
	Addressing:	None	
	Description:	Test Access Port AID, identifies the FAD A AID of the Test Access Port Pair (TAPP) which is currently involved in the test access session.	
	Restrictions:	CONN-TACC-VT1 is denied if TAP specifies the {7-4}th VT1 within an STS1. Refer to Appendix B, Access Identifiers (AIDs).	
CTAG	< 1-6 VALID CTAG CHARACTERS >		
	Default:	< System assigned CTAG value >	
	Addressing:	None	
	Description:	Correlation Tag, associates input command with its output responses.	

MODE	{LOOPE, LOOPF, MONE, MONEF, MONF, SPLTA, SPLTB, SPLTE, SPLTEF, SPLTF}
Default:	Entry Required
Addressing:	None
Description:	Test Access Mode, specifies the new test mode to be used. Values are:
LOOPE	Loop Equipment-side, specifies a test which loops the equipment-side incoming signal to its output and monitors the looped signal with FAD A. If a facility-side port is connected to the equipment-side port, the A and B side transmission paths are split, AIS-V is inserted into the outgoing facility-side signal, and the incoming facility-side signal is terminated.
LOOPF	Loop Facility-side, specifies a test which loops the facility-side incoming signal to its output and monitors the looped signal with FAD A. If an equipment-side port is connected to the facility-side port, the A and B side transmission paths are split, AIS-V is inserted into the outgoing equipment-side signal, and the incoming equipment-side signal is terminated.
MONE	Monitor Equipment-side, specifies a test which monitors the equipment-side port with FAD A.
MONEF	Monitor Equipment-side and Facility-side, specifies a test which monitors the equipment-side port with FAD A and the facility-side port with FAD B.
MONF	Monitor Facility-side, specifies a test which monitors the facility-side port with FAD A.
SPLTA	Split A-side, specifies a test which splits the A-side signal path and connects it both to and from FAD A.
SPLTB	Split B-side, specifies a test which splits the B-side signal path and connects it both to and from FAD A.
SPLTE	Split Equipment-side, specifies a test depending on the value entered for TAP. When a STS-1 AID is entered for TAP, the equipment-side port is connected both to and from FAD A. If a facility-side port is connected to the equipment-side port, the A and B side transmission paths are split, AIS-V is inserted into the outgoing facility-side signal, and the incoming facility-side signal is terminated.
SPLTEF	Split Equipment-side and Facility-side, specifies a test which splits the A and B transmission paths (if existing) and connects the equipment-side port both to and from FAD A and the facility-side port both to and from FAD B.
SPLTF	Split Facility-side, specifies a test depending on the value entered for TAP. When a STS-1 AID is entered for TAP, the facility-side port is connected both to and from FAD A. If an equipment-side port is connected to the facility-side port, the A and B side transmission paths are split, AIS-V is inserted into the outgoing equipment-side signal, and the incoming equipment-side signal is terminated.
Restrictions:	CHG-ACCMD-VT1 is denied if MODE of {LOOPF, MONF, MONEF, SPLTEF, SPLTF} is entered and a facility-side connection does not exist. CHG-ACCMD-VT1 is denied if MODE of {SPLTA, SPLTB} is entered and a corresponding A-side or B-side connection does not exist.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
ITSN	Input, invalid/inactive Test Session Number
RCIN	Resource, requested Circuit Id does Not exist /* Cannot use specified mode because there is no A-Side */ /* Cannot use specified mode because there is no B-Side */
RTEN	Resource, requested Tap does Not Exist /* TAPP specified does not exist */
SCSN	Status, invalid Command SequeNce /* LOOP mode not allowed on terminated ports */
SDBE	Status, internal Data Base Error /* <DATABASE TYPE> Database Error: <STATUS> for <AID STRING> */ /* <DATABASE TYPE> Database Error: <STATUS> for record number <RECORD NUMBER> */ /* <DATABASE TYPE> Database Error: <STATUS> */
SDNC	Status, Data Not Consistent /* Cannot use specified mode because there is no Facility */
SNVS	Status, Not in Valid State
SRCN	Status, Requested CoNdition already exists
SROF	Status, Requested Operation Failed /* No signal source is provisioned for UNCH QRS */
STTI	SStatus, Tap Idle

EXAMPLES

The following example changes the existing test access mode for VT1 Test Access Port VT1-3-3-3-2 to MONF.

```
CHG-ACCMD-VT1::VT1-3-3-3-2:::MONF;
```

The following example changes the existing test access mode for VT1 Test Access Port VT1-3-3-3-2 to SPLTB.

```
CHG-ACCMD-VT1::VT1-3-3-3-2:::SPLTB;
```

RELATED COMMANDS

CHG-TL-DIG

CONN-TACC-VT1

DISC-TACC

DISC-TACC-PRVG

REPT-INITZN

REPT-STAT

RST-TAP-DIG

RTRV-TACC

COMMAND CODE: **CHG-TL-DIG**
COMMAND NAME: **CHANGE TERMINATE-AND-LEAVE
DIGITAL**

PURPOSE

The CHG-TL-DIG command is used to terminate-and-leave an existing cross-connection or to remove (release) an existing terminate-and-leave condition. This command can only be executed after a CONN-TACC-Tx command has been executed to establish a test access session. The cross-connection acted on by the CHG-TL-DIG command is determined by the ports involved in the test access session and the value of ACT.

If {TERMA, TERMB, TERMAB} is specified for ACT in the CHG-TL-DIG command, then the specified A-side path, B-side path, or both the A-side and B-side paths, are terminated at the receiving equipment-side port and/or facility-side port. Depending on the type of TACC being performed, the following is connected to the transmitting facility-side port and/or equipment-side port: DS1 unframed QRS, DS3 IDLE, VT1 AIS-V (VTMAP=ALL or VTBYTE), VT1 unframed QRS (VTMAP=ASYNCR) or STS1 AIS-P. The specified facility (and cross-connection entity) remains in the "terminated" condition while the test access session exists. The terminated condition is removed (released) if the test access session is discontinued before a DISC-TACC command is entered (e.g., the user logs-off or enters a RST-TAP-DIG command before entering a DISC-TACC command). Once the test access session is concluded by a DISC-TACC command, the specified facility remains in a terminated condition (i.e., the specified facility is in a terminate-and-leave condition), regardless if the TAPPs are user associated or the test session was link associated.

If {RLSA, RLSAB, RLSB} is specified for ACT in the CHG-TL-DIG command, the existing terminate-and-leave condition is removed (released) and the active type of the following is disconnected: DS1 unframed QRS, DS3 IDLE, VT1 AIS-V (VTMAP=ALL or VTBYTE), VT1 unframed QRS (VTMAP=ASYNCR) or STS1 AIS-P. The specified A-side path, B-side path, or both the A-side and B-side paths, are re-connected as the cross-connection existed prior to the terminate-and-leave condition.

Executing a CHG-TL-DIG command with {TERMA, TERMAB, TERMB} specified for ACT causes a cross-connection SST of {TERMB, TERMF, TERMT} to be applied to the cross-connection entity. Executing a CHG-TL-DIG command with {RLSA, RLSAB, RLSB} specified for ACT causes a cross-connection SST of {TERMB, TERMF, TERMT} to be removed from the cross-connection entity.

CHG-TL-DIG is denied if:

- A DS1 TAP is specified and an Unframed QRSS DS1 Idle Signal Source Port is not provisioned.
- The port specified for TAP is not the FAD A port of a TAPP owned by (provisioned by) the user and previously assigned for a test access session by a CONN-TACC-Tx command.
- ACT of {TERMA, TERMAB, TERMB} is entered and corresponding A-side or B-side connection does not exist.
- ACT of {TERMA, TERMAB, TERMB} is entered and the corresponding A-side or B-side connection is already terminated. However, the command is completed if ACT of TERMAB is entered and either the A-side or B-side connection, but not both, is terminated.
- ACT of {TERMA, TERMAB, TERMB} is entered and the test access operation has a test mode of {LOOPE, LOOPF}.
- ACT of {TERMA, TERMAB, TERMB} is entered and the equipment-side port or facility-side port is part of a conference or bridge.
- ACT of {RLSA, RLSAB, RLSB} is entered and the corresponding A-side or B-side connection is not terminated.
- Any connection involved in the existing TACC operation is redlined (in RDL=Y state).
- An invalid parameter value is entered.

Executing a CHG-TL-DIG command is traffic affecting. Received traffic is terminated and unframed QRS is injected in the outgoing direction. Care should be exercised when executing this command.

INPUT FORMAT

CHG-TL-DIG: [TID] : TAP : [CTAG] : : ACT;

INPUT PARAMETERS

TID	< 1–20 VALID TID CHARACTERS >	
	Default:	<SID>
	Addressing:	None
	Description:	Target Identifier, specifies the network node TID for the command.
TAP	DS1_AID: {T1–{1–59392}} (T1–DS1#) {T3T1–{1–4800}–{1–28}} (T3T1–DS3#–DS1#) DS3_AID: {T3–{1–4800}} (T3–DS3#) STS1_AID: {EC1STS1–{1–3840}} (EC1STS1–EC1/STS1#) {OC3STS1–{1–2240}–{1–3}} (OC3STS1–OC3#–STS1#) {OC12STS1–{1–560}–{1–4}–{1–3}} (OC12STS1–OC12#–STM1#–STS1#) VT1_AID: {EC1VT1–{1–3840}–{1–7}–{1–4}} (EC1VT1–EC1/STS1#–VTGrp#–VT1.5#) {OC3VT1–{1–2240}–{1–3}–{1–7}–{1–4}} (OC3VT1–OC3#–STS1#–VTGrp#–VT1.5#) {OC12VT1–{1–560}–{1–4}–{1–3}–{1–7}–{1–4}} (OC12VT1–OC12#–STM1#–STS1#–VTGrp#–VT1.5#) Default: Entry Required Addressing: None Description: Test Access Port AID, identifies the FAD A AID of the Test Access Port Pair (TAPP) which is currently involved in the test session. Restrictions: CHG–TL–DIG is denied if the TAP value specifies DS1 embedded within electrical DS3 and the 28th DS1 is not excluded. The AID of an STS1 entity embedded in an OC12, OC3, or EC1, except the 3rd STS1 within an OC3 and the {4–3}th STS1 within an OC12. Refer to Appendix B, Access Identifiers (AIDs). The AIDs of VT1 entities embedded in an STS1 which can be embedded in an OC12, OC3, or EC1, except the {7–4}th VT1 within an STS1. Refer to Appendix B, Access Identifiers (AIDs).	
CTAG	< 1–6 VALID CTAG CHARACTERS >	
	Default:	< System assigned CTAG value >
	Addressing:	None
	Description:	Correlation Tag, associates input command with its output responses.

ACT	{RLSA, RLSAB, RLSB, TERMA, TERMAB, TERMB}
Default:	Entry Required
Addressing:	None
Description:	Action, specifies the terminate-and-leave action. Values are:
RLSA	Release A-side, specifies the release of the terminate-and-leave of the A-side connection. Unframed QRS, IDLE, AIS-V or AIS-P is disconnected from the facility-side port, and the equipment-side port is one-way cross-connected to the facility-side port.
RLSAB	Release A-side and B-side, specifies the release of the terminate-and-leave of the A-side and B-side connection. Unframed QRS, IDLE, AIS-V or AIS-P is disconnected from the equipment-side and facility-side ports, and the equipment-side port is two-way cross-connected to the facility-side port.
RLSB	Release B-side, specifies the release of the terminate-and-leave of the B-side connection. Unframed QRS, IDLE, AIS-V or AIS-P is disconnected from the equipment-side port, and the facility-side port is one-way cross-connected to the equipment-side port.
TERMA	Terminate A-side, specifies the one-way disconnection of the equipment-side to facility-side path, the termination of the received equipment-side signal, and the connection of unframed QRS, IDLE, AIS-V or AIS-P to the transmitted facility-side signal.
TERMAB	Terminate A-side and B-side, specifies the two-way disconnection of the equipment-side and facility-side ports, the termination of the received equipment-side and facility-side signals, and the connection of unframed QRS, IDLE, AIS-V or AIS-P to the transmitted equipment-side and facility-side signals.
TERMB	Terminate B-side, specifies the one-way disconnection of the facility-side to equipment-side path, the termination of the received facility-side signal, and the connection of unframed QRS, IDLE, AIS-V or AIS-P to the transmitted equipment-side signal.
Restrictions:	CHG-TL-DIG is denied if ACT of {RLSA, RLSAB, RLSB} is entered and the corresponding A-side or B-side connection is not terminated. CHG-TL-DIG is denied if ACT of {TERMA, TERMAB, TERMB} is entered and the corresponding A-side or B-side connection does not exist. However, the command is completed if ACT of TERMAB is entered and either the A-side or B-side connection, but not both, is terminated.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

ENTL	Equipage, Not Terminate and Leave
IIAC	Input, Invalid ACcess identifier
ITSN	Input, invalid/inactive Test Session Number
RCIN	Resource, requested Circuit Id does Not exist
RTEN	Resource, requested Tap does Not Exist /* TAPP specified does not exist */
SCSN	Status, invalid Command SequeNce
SDBE	Status, internal Data Base Error /* <DATABASE TYPE> Database Error: <STATUS> for <AID STRING> */ /* <DATABASE TYPE> Database Error: <STATUS> for record number <RECORD NUMBER> */ /* <DATABASE TYPE> Database Error: <STATUS> */
SNVS	Status, Not in Valid State
SRCN	Status, Requested CoNdition already exists
SROF	Status, Requested Operation Failed /* No signal source is provisioned for UNCH QRS */
SRQN	Status, invalid ReQuest /* Cannot terminate ports involved in ring pass-thru connections. */

EXAMPLES

In the following example, the CHG-TL-DIG causes a terminate-and-leave condition on the A-side one-way cross-connection from the equipment-side to facility-side ports currently under test access by the Test Access Port Pair identified by T1-24577. The one-way cross-connection is disconnected, the received equipment-side signal is terminated, and unframed QRS is connected to the transmitted facility-side signal.

```
CHG-TL-DIG::T1-24577:::TERMA;
```

In the following example, the previous A-side terminate-and-leave condition is released for the ports under test access by the Test Access Port Pair identified by T1-24577. Unframed QRS is disconnected from the transmitted facility-side signal and a one-way cross-connection is established from the equipment-side port to the facility-side port.

```
CHG-TL-DIG::T1-24577:::RLSA;
```

RELATED COMMANDS

```
CHG-ACCMD-STs1  
CHG-ACCMD-T1  
CHG-ACCMD-T3  
CHG-ACCMD-VT1  
CONN-TACC-STs1  
CONN-TACC-T1  
CONN-TACC-T3  
CONN-TACC-VT1  
DISC-TACC  
DISC-TACC-PRVG  
REPT-INITZN  
REPT-STAT  
RTRV-TACC
```

COMMAND CODE: **CLR-ALM-EQPT**
COMMAND NAME: **CLEAR ALARM EQUIPMENT**

PURPOSE

The CLR-ALM-EQPT command manually clears the standing equipment conditions (reported as either an alarm or a non-alarmed condition), specified by CONDTYPE, that cannot be automatically cleared by the system (CD, DBF, DBFFT, SWTOPRI, SWTOSEC). (The CLR-ALM-EQPT command is the only method available to clear these conditions.)

If the CLR-ALM-EQPT command is executed against a condition type that has already been cleared, a completed response is returned.

A CLR-ALM-EQPT command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

CLR-ALM-EQPT: [TID] :AID: [CTAG] : , [CONDTYPE] , [SRVEFF] ;

INPUT PARAMETERS

TID	<p>< 1-20 VALID TID CHARACTERS ></p> <p>Default: <SID></p> <p>Addressing: None</p> <p>Description: Target Identifier, specifies the network node TID for the command.</p>										
AID	<p>EQUIPMENT_AID:</p> <p>{CID-1-1-{1-12}}</p> <p>{OPD-1-3-1, OPD-1-4-2}</p> <p>{TMG-{0, 1}}</p> <p>Default: Entry Required</p> <p>Addressing: None</p> <p>Description: Equipment AID, identifies the equipment entity.</p> <p>Restrictions: CLR-ALM-EQPT is denied if the specified AID is not valid for the specified CONDTYPE. (Refer to Appendix C and CONDTYPE below.)</p>										
CTAG	<p>< 1-6 VALID CTAG CHARACTERS ></p> <p>Default: < System assigned CTAG value ></p> <p>Addressing: None</p> <p>Description: Correlation Tag, associates input command with its output responses.</p>										
CONDTYPE	<p>{CD, DBF, DBFFT, SWTOPRI, SWTOSEC}</p> <p>Default: < All applicable condition types listed above></p> <p>Addressing: None</p> <p>Description: Condition Type, specifies the condition type associated with the standing condition (alarm or event) to be cleared. Values are:</p> <table> <tr> <td>CD</td><td>Control and Display interface audit error detected. (Valid for a CID AID.)</td></tr> <tr> <td>DBF</td><td>Database Backup Failed, OPD database backup failure. (Valid for an OPD AID.)</td></tr> <tr> <td>DBFFT</td><td>Database Backup Failed on First Try, OPD database backup failure detected on first try. (Valid for an OPD AID.)</td></tr> <tr> <td>SWTOPRI</td><td>Automatic Switch to Primary Synchronization Reference (Valid for a TMG AID.)</td></tr> <tr> <td>SWTOSEC</td><td>Automatic Switch to Secondary Synchronization Reference (Valid for a TMG AID.)</td></tr> </table> <p>Restrictions: CLR-ALM-EQPT is denied if the specified CONDTYPE is not valid for the specified AID.</p>	CD	Control and Display interface audit error detected. (Valid for a CID AID.)	DBF	Database Backup Failed, OPD database backup failure. (Valid for an OPD AID.)	DBFFT	Database Backup Failed on First Try, OPD database backup failure detected on first try. (Valid for an OPD AID.)	SWTOPRI	Automatic Switch to Primary Synchronization Reference (Valid for a TMG AID.)	SWTOSEC	Automatic Switch to Secondary Synchronization Reference (Valid for a TMG AID.)
CD	Control and Display interface audit error detected. (Valid for a CID AID.)										
DBF	Database Backup Failed, OPD database backup failure. (Valid for an OPD AID.)										
DBFFT	Database Backup Failed on First Try, OPD database backup failure detected on first try. (Valid for an OPD AID.)										
SWTOPRI	Automatic Switch to Primary Synchronization Reference (Valid for a TMG AID.)										
SWTOSEC	Automatic Switch to Secondary Synchronization Reference (Valid for a TMG AID.)										

SRVEFF	{NSA, SA}
Default:	< Both service effect values >
Addressing:	None
Description:	Service Effect, specifies the service effect associated with the standing condition to be cleared. Values are:
	NSA Non-Service Affecting.
	SA Service Affecting.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
	/* Invalid card type specified: <CARD TYPE STRING>. */
IDNV	Input, Data Not Valid
	/* Condition type not valid for: EQPT. */
	/* Invalid service effect specified: <SERVICE EFFECT STRING>. */
	/* Invalid condition type specified: <CONDITION TYPE STRING>. */
SROF	Status, Requested Operation Failed
	/* <AID>:<CONDITION TYPE> — Alarm not active. */

EXAMPLES

In the following example, any DBF or DBFFT standing condition for OPD-1-3-1 is cleared.

```
CLR-ALM-EQPT::OPD-1-3-1;
```

RELATED COMMANDS

```

ACT-DB-BACKUP
RTRV-ALM-ALL
RTRV-ALM-EQPT
RTRV-ATTR-EQPT
RTRV-COND-ALL
RTRV-COND-EQPT
```

RELATED AUTONOMOUS RESPONSES

```

REPT^ALM^EQPT
REPT^EVT^EQPT
```

COMMAND CODE: **CLR-DCC-STATS**
COMMAND NAME: **CLEAR DCC STATISTICS**

PURPOSE

The CLR-DCC-STATS command clears the Layer 2 (data link layer) statistic counters of the SONET Data Communication Channel (DCC) network. This command clears both the Line and Section DCC data link statistic counters of the specified OC-3 or OC-12.

A CLR-DCC-STATS command is denied if:

- The specified OC-3 or OC-12 that contains this DCC is in a UAS secondary state.
- The specified AID is a protection OC-3 or OC-12.
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

CLR-DCC-STATS: [TID] :AID: [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	OC3_AID: {OC3-{1-2240}} (OC3-OC3#) OC12_AID: {OC12-{1-560}} (OC12-OC12#) Default: Entry Required Addressing: None Description: Optical Carrier AID, identifies the OC-3 or OC-12 port.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID [-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID [-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
SDBE	Status, internal Data Base Error /*TP Database Error: <ERROR-STRING> for <AID-STRING>*/ /*TPidToGlobTPid(): <ERROR-STRING>*/
SNVS	Status, Not in Valid State
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, the Line and Section DCC data link statistic counters of OC3-16 is cleared.

```
CLR-DCC-STATS::OC3-16;
```

RELATED COMMANDS

```
RTRV-DCC-STATS
```


COMMAND CODE: **CLR-LAN-STATS**
COMMAND NAME: **CLEAR LAN STATISTICS**

PURPOSE

The CLR-LAN-STATS command clears the data link statistic counters of the SONET Data Communication Channel (DCC) network. This command clears the data link statistic counters of the LAN residing on a DSB.

A CLR-LAN-STATS command is denied if:

- The specified DSB is not provisioned.
- An invalid parameter value is entered.

INPUT FORMAT

CLR-LAN-STATS: [TID] :AID: [CTAG] ;

INPUT PARAMETERS

TID	<1–20 VALID TID CHARACTERS> Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	EQUIPMENT_AID: {DSB–{6–9, 12–15, 18–21, 24–43, 104–111 , 112–135, 136–141 }–{1, 3}–{1–2}} Default: Entry Required Addressing: None Description: DSB AID, identifies the DSB on which the LAN resides and whose data-link counters are being cleared.
CTAG	<1–6 VALID CTAG CHARACTERS> Default: <System Assigned CTAG Value> Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC Input, Data Not Consistent
 /* Unable to read aux buffer for <AID> */

IIAC	Input, Invalid ACcess identifier /* Invalid or unassigned equipment identifier specified. */
SARB	Status, All Resources Busy /* Command already in progress on equipment. */ /* Automatic system configuration active on equipment. */ /* Automatic configuration (database download) of parent processor in progress. */ /* Level 2 processor software download in progress. Try again later. */ /* INIT–SYS command still active on shelf that equipment is on. */
SDBE	Status, internal Data Base Error /* Data base access failure. */ /* Unable to read the LANDCC database. */

EXAMPLES

In the following example, the data link statistic counters of DSB–6–1–1 is cleared.

```
CLR-LAN-STATS : :DSB-6-1-1 ;
```

RELATED COMMANDS

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RTRV-LAN-STATS
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COMMAND CODE: **CONN-TACC-STs1**
COMMAND NAME: **CONNECT TEST ACCESS STs1**

PURPOSE

The CONN-TACC-STs1 command connects a user assigned (user owned) Test Access port or a system assigned (publicly owned) Test Access port to the specified STs-1 port in the specified test access mode. The assigned FAD A Test Access port AID is returned in the command's output response message.

A test access connection can be established on a disconnected STs-1 port, on one-way or two-way cross-connected ports.

The Test Access Port Pair (TAPP) specified in the command must belong either to the user's Private TAPP pool or the system's Public pool (pool assignment is done when the TAPP is provisioned). No user is allowed to use a TAPP that is in another user's private pool. If no value is specified for TAP in the CONN-TACC-STs1 command, the system assigns a TAPP from the available pool of TAPPs owned by the user (i.e., Private). If a TAPP from a user's private pool is not available, the system assigns a TAPP from the system common (i.e., Public) pool of TAPPs.

A TAPP connection can be link associated with the user and communication link associated with the CONN-TACC-STs1 command. If a CONN-TACC-STs1 is executed with link association specified, the test access connection (established by the user) is disconnected if the user logs off, if the user enters a REPT-INITZN command, if the communication link timer is enabled and expires (refer to the LNKTMR parameter in ENT-USER and ED-PRVG-USER), or if the control system re-boots. (Note that a user's test access connections are disconnected if the user executes a DISC-TACC or RST-TAP-DIG command, regardless if the connection is link associated.)

The available test access modes for a Test Access port connection are LOOPE, LOOPF, MONE, MONEF, MONF, SPLTA, SPLTB, SPLTE, SPLTEF, or SPLTF. Refer to the MODE parameter description.

Executing a CONN-TACC-STs1 command causes a STs-1 SST of BUSY to be applied to the assigned TAPP.

The CONN-TACC-STs1 command also allows testing of a pass through path of a single node ring.

A CONN-TACC-STs1 command is denied if:

- The specified TAP, equipment-side port, or facility-side port (identified by AID, TAP, or AID1) are not provisioned.
- The STs-1 port specified for TAP is not the FAD A port of a TAPP owned by (provisioned by) the user, or all of the TAPs owned by the user and that are in the public pool are in use.
- The specified TAP, equipment-side port or facility-side port are already involved in a test access operation (an STs1 or DS3 SST of TS).
- The specified TAP is busy.
- A facility side is specified and a cross-connection does not exist between the equipment side and the facility side specified.
- A value for MODE of {SPLTEF, SPLTA, SPLTB} is entered and the equipment side and facility side are connected by pass-through STs1 path in OC-3 or OC-12 provisioned as a ring node.
- The specified equipment-side or facility-side port has fault propagation active on it.
- Enough cross connection resources (i.e., expansion timeslots in the first-stage matrix) are NOT available to initially set up a TACC (via CONN-TACC-STs1).
- The equipment side or facility side is terminated (i.e., the embedded DS3s, VT1.5s, or DS1s are cross connected).
- The specified TAP, equipment-side port, or facility-side port are in a loopback (a DS3 or STs1 SST of LPBK).
- The specified equipment-side or facility-side port (identified by AID and any cross-connection) are provisioned as part of a TAPP.
- The STs1/DS3 port specified by AID is cross-connected to itself (the receive and transmit side of the same port are cross-connected).
- A value for MODE of {LOOPF, MONE, MONEF, MONF, SPLTEF, SPLTF} is entered and a facility-side connection does not exist, or if {SPLTA, SPLTB} is entered and a corresponding A-side or B-side connection does not exist.

- The specified STS-1 (and associated cross-connection) is in a terminate-and-leave status (a cross-connection SST of {TERMB, TERMF, TERMT}) and a MODE of {LOOPE, LOOPF} is specified.
- The specified port (port A) has an SST of LPBK, or port A is cross-connected to port B which has an SST LPBK, or port A is cross-connected to port B which itself is cross-connected to port C and port C has an SST of LPBK.
- Any value for MODE other than {LOOPE, LOOPF, MONE, MONF, SPLTE, SPLTF} is entered on a pass through path.
- Either of the ports under test is a T3 and the TAPP-STSMAP is not ASYNC.
- The specified equipment-side port or facility-side port is involved in a redlined connection (in an RDL=Y state) and the test access mode is SPLTE, SPLTF, SPLTEF, SPLTA, SPLTB, LOOPE, or LOOPF.
- An invalid parameter value or combination of parameter values is entered.

A CONN-TACC-STS1 executed with a value for MODE of {MONE, MONEF, MONF} is not service affecting. A CONN-TACC-STS1 executed with a value for MODE of {LOOPE, LOOPF, SPLTA, SPLTB, SPLTE, SPLTEF, SPLTF} is service affecting and interrupts traffic. Care should be exercised when specifying one of these test access modes.

INPUT FORMAT

CONN-TACC-STS1 : [TID] : AID : [CTAG] : : [TAP] : MODE : [AID1] : [LA] ;

INPUT PARAMETERS

TID	<1-20 VALID TID CHARACTERS> Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	DS3_AID: {T3-{1-4800}} (T3-DS3#) STS1_AID: {EC1STS1-{1-3840}} (EC1STS1-EC1/STS1#) {OC3STS1-{1-2240}-{1-3}} (OC3STS1-OC3#-STS1#) {OC12STS1-{1-560}-{1-4}-{1-3}} (OC12STS1-OC12#-STM1#-STS1#) Default: Entry Required Addressing: None Description: DS3 or STS1 AID, identifies the equipment-side DS3 or STS-1 port to be tested. Restrictions: CONN-TACC-STS1 is denied if the AID specifies an electrical DS3 which resides in a quad.
CTAG	<1-6 VALID CTAG CHARACTERS> Default: <System assigned CTAG value> Addressing: None Description: Correlation Tag, associates input command with its output responses.
TAP	STS1_AID: {EC1STS1-{1-3840}} (EC1STS1-EC1/STS1#) {OC3STS1-{1-2240}-{1-3}} (OC3STS1-OC3#-STS1#) {OC12STS1-{1-560}-{1-4}-{1-3}} (OC12STS1-OC12#-STM1#-STS1#) Default: <System assigned Test Access port> Addressing: None Description: Test Access Port AID, identifies the FAD A AID (i.e., the STS1 AID) of the TAPP to be used in the test. Restrictions: CONN-TACC-STS1 is denied if TAP specifies the 3rd STS1 within an OC3 or the {4-3}th STS1 within an OC12. Refer to Appendix B, Access Identifiers (AIDs).

CONN-TACC-STs1 is denied if a T3 AID is specified, and the STS1 TAPP is provisioned as STSMAP={ALL, VTFLOAT}.

MODE	{LOOPE, LOOPF, MONE, MONEF, MONF, SPLTA, SPLTB, SPLTE, SPLTEF, SPLTF}
Default:	Entry required
Addressing:	None
Description:	Test Access Mode, specifies the new test mode to be used. Values are:
LOOPE	Loop Equipment-side, specifies a test which loops the equipment-side incoming signal to its output and monitors the looped signal with FAD A. If a facility-side port is connected to the equipment-side port, the A and B side transmission paths are split, AIS-P is inserted into the outgoing facility-side signal, and the incoming facility-side signal is terminated.
LOOPF	Loop Facility-side, specifies a test which loops the facility-side incoming signal to its output and monitors the looped signal with FAD A. If an equipment-side port is connected to the facility-side port, the A and B side transmission paths are split, AIS-P is inserted into the outgoing equipment-side signal, and the incoming equipment-side signal is terminated.
MONE	Monitor Equipment-side, specifies a test which monitors the equipment-side port with FAD A.
MONEF	Monitor Equipment-side and Facility-side, specifies a test which monitors the equipment-side port with FAD A and the facility-side port with FAD B.
MONF	Monitor Facility-side, specifies a test which monitors the facility-side port with FAD A.
SPLTA	Split A-side, specifies a test which splits the A-side signal path and connects it both to and from FAD A.
SPLTB	Split B-side, specifies a test which splits the B-side signal path and connects it both to and from FAD A.
SPLTE	Split Equipment-side, specifies a test depending on the value entered for TAP. When an STS-1 AID is entered for TAP, the equipment-side port is connected both to and from FAD A. If a facility-side port is connected to the equipment-side port, the A and B side transmission paths are split, AIS-P is inserted into the outgoing facility-side signal, and the incoming facility-side signal is terminated.
SPLTEF	Split Equipment-side and Facility-side, specifies a test which splits the A and B transmission paths (if existing) and connects the equipment-side port both to and from FAD A and the facility-side port both to and from FAD B.
SPLTF	Split Facility-side, specifies a test depending on the value entered for TAP. When an STS-1 AID is entered for TAP, the facility-side port is connected both to and from FAD A. If an equipment-side port is connected to the facility-side port, the A and B side transmission paths are split, AIS-P is inserted into the outgoing equipment-side signal, and the incoming equipment-side signal is terminated.
Restrictions:	CONN-TACC-STs1 is denied if MODE of {LOOPF, MONF, MONEF, SPLTEF, SPLTF} is entered and a facility-side connection does not exist. CONN-TACC-STs1 is denied if MODE of {SPLTA, SPLTB} is entered and a corresponding A-side or B-side connection does not exist.

AID1	DS3_AID:	
	{T3-{1-4800}}	(T3-DS3#)
	STS1_AID:	
	{EC1STS1-{1-3840}}	(EC1STS1-EC1/STS1#)
	{OC3STS1-{1-2240}-{1-3}}	(OC3STS1-OC3#-STS1#)
	{OC12STS1-{1-560}-{1-4}-{1-3}}	(OC12STS1-OC12#-STM1#-STS1#)
	Default:	< null >
	Addressing:	None
	Description:	DS3 or STS1 AID, identifies the DS3 or STS-1 facility-side port to be tested. If the AID specifies the drop side of a path switched ring and the AID1 is not specified, the DS3 or STS-1 within the preferred OC-3/OC-12 will be considered as the facility side.
	Restrictions:	CONN-TACC-STS1 is denied if the DS3 or STS1 port specified for AID1 is not connected to the equipment-side port (AID port). CONN-TACC-STS1 is denied if AID1 specifies an electrical DS3 which resides in a quad.
LA	{Y, N}	
	Default:	{Y}
	Addressing:	None
	Description:	Link Association, specifies whether the test access connection is to be associated with the communication link being used by the user. Values are:
	Y	Yes, specifies that the test access connection is to be disconnected if the user logs off, if the user enters a REPT-INITZN command, if the communication link timer is enabled and expires, or if the APS control system re-boots.
	N	No, specifies that the test access connection is not disconnected regardless if the user logs off, if the user enters a REPT-INITZN command, if the communication link timer expires, or if the APS control system re-boots.

SUCCESSFUL RESPONSE FORMAT

The following is the successful response format for the CONN-TACC-STS1 command.

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  "<TAP>"
  "A, <TLS>"
  "B, <TLS>"
  "E, <STSMAP>"
  "F, <STSMAP>"
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

TLS	{NORM, TERM, <NoVal>}
	Terminate and Leave Status, indicates whether the A side or B side STS-1 port being tested is in a terminate and leave status as a result of a previous CHG-TL-DIG command. Values are:
	NORM Normal, the A or B side port is not in a terminate and leave state.
	TERM Terminated, the A or B side port is in a terminate and leave state.
	<NoVal> No value is displayed, the A or B side connection does not exist.

STSMAP= {ALL, ASYNC, VTFLOAT, <NoVal>}
STS payload Mapping. Determines the expected STS–1 payload type and the value of the expected path signal label (C2). Used for comparison for the Signal Label Mismatch function. Values are:

ALL	Match ALL incoming signal labels, without creating a SLMF condition, and disallow mappings (i.e., terminating) at this STS–1. Only intact STS–1 connections are possible since ALL is intended for intermediate path monitoring only. Incoming idle (unequipped) signal labels will continue to produce IDLE condition types.
ASYNC	Asynchronous mapping for DS3 (i.e., C2=04 hex). The system will accept only incoming signal labels of type ASYNC without creating a SLMF condition. Incoming idle (unequipped) signal labels will continue to produce IDLE condition types.
VTFLOAT	Floating mode VTs (i.e., C2=02 hex).
<NoVal>	No value is displayed, the E side or F side is T3, or the F side does not exist.

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid
IIAC	Input, Invalid ACcess identifier /* AID cannot be provisioned as a FAD of a TAPP */
ITSN	Input, invalid/inactive Test Session Number /* TAPP belongs to another user */
RABY	Resource, All taps BusY /* No TAPP available for current user */
RCIN	Resource, requested Circuit Id does Not exist /* Cannot use specified mode because there is no A-Side */ /* Cannot use specified mode because there is no B-Side */
RTBY	Resource, requested Tap BusY
RTEN	Resource, requested Tap does Not Exist /* TAPP specified does not exist */
SCAT	Status, Circuit Already connected to another Tap
SCSN	Status, invalid Command SequeNce /* LOOP mode not allowed on terminated ports */
SDBE	Status, internal Data Base Error /* <DATABASE TYPE> Database Error: <STATUS> for <AID STRING> */ /* <DATABASE TYPE> Database Error: <STATUS> for record number <RECORD NUMBER> */ /* <DATABASE TYPE> Database Error: <STATUS> */ /* Error getting shelf info, status <STATUS> */
SDNC	Status, Data Not Consistent /* Cannot use specified mode because there is no Facility */

SNCC	Status, Not Cross-Connected
SNVS	Status, Not in Valid State
	/* Port <AID STRING> is in loopback */
	/* Port <AID STRING> has a supporting entity in loopback */
	/* Port <AID STRING> has a supported entity in loopback */
	/* TACC not allowed with ports under ROLL */
	/* Cannot use specified mode because there is a Red-Lined connection */
SROF	Status, Requested Operation Failed
SRQN	Status, invalid ReQuest
	/* Cannot do TACC if fault propagation is active */
	/* Cannot connect TACC when a supporting TP under fault propagation */
	/* Cannot connect a port that has embedded SRC ports */
	/* Cannot do TACC on Alternate Ring Port */
	/* Port <AID STRING> under fault propagation */
SSRE	Status, System Resources Exceeded

EXAMPLES

In the following example, the CONN-TACC-STS1 establishes a monitor equipment-side test access connection, that will be disconnected if the user logs off, for STS-1 port OC3STS1-1-3 to the FAD A Test Access port OC3STS1-5-1.

```
CONN-TACC-STS1::OC3STS1-1-3::OC3STS1-5-1:MONE::Y;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of Pae956. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed, and the TAP port that has been assigned by the system.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pae956 COMPLD
"OC3STS1-5-1"
"A, NORM"
"B, NORM"
"E, ALL"
"F, ALL"
/* CONN-TACC-STS1::OC3STS1-1-3::OC3STS1-5-1:MONE::Y [Pae956] (2) */
;
```

RELATED COMMANDS

```
CHG-ACCMD-STS1
CHG-TL-DIG
DISC-TACC
DISC-TACC-PRVG
ENT-STS1
REPT-INITZN
REPT-STAT
RST-TAP-DIG
RTRV-CRS
RTRV-POOL
RTRV-CRS-STS1
RTRV-RDL-ALL
RTRV-STS1
RTRV-TACC
```


COMMAND CODE: **CONN-TACC-T1**
COMMAND NAME: **CONNECT TEST ACCESS T1**

PURPOSE

The CONN-TACC-T1 command connects a user assigned (user owned) Test Access port or a system assigned (publicly owned) Test Access port to the specified DS1 port or VT1.5 port in the specified test access mode. In either case, the assigned FAD A Test Access port AID is returned in the command's output response message.

A test access connection can be established on a disconnected DS1 port or VT1.5 port, on one-way or two-way cross-connected ports, on the head or tail port of a one-way bridge connection, on the head (Master) port of a broadcast conference connection, or on a conference tail port connected back to the head of a conference head port. If a one-way bridge or conference connection exists and the test access mode affects the facility-side connection (MODE other than {MONE, MONEF, MONF}), then the head of the bridge or conference connection must be specified by AID and the facility-side port to be tested specified by AID1.

If a Test Access port AID is specified for TAP in the CONN-TACC-T1 command, the Test Access Port Pair (TAPP) must belong either to the user's Private TAPP pool or the system's Public pool (pool assignment is done when the TAPP is provisioned). No user is allowed to use a TAPP that is in another user's private pool. If no value is specified for TAP in the CONN-TACC-T1 command, the system assigns a TAPP from the available pool of TAPPs owned by the user (i.e., Private). Then, if those are all not available, the system assigns a TAPP from the system common (i.e., Public) pool of TAPPs.

A TAPP connection can be link associated with the user and communication link associated with the CONN-TACC-T1 command. If a CONN-TACC-T1 is executed with link association specified, the test access connection (established by the user) is disconnected if the user logs off, if the user enters a REPT-INITZN command, if the communication link timer is enabled and expires (refer to the LNKTMR parameter in ENT-USER and ED-PRVG-USER), or if the control system re-boots. (Note that a user's test access connections are disconnected if the user executes a DISC-TACC or RST-TAP-DIG command, regardless if the connection is link associated.)

The available test access modes for a Test Access port connection are LOOPE, LOOPF, MONE, MONEF, MONF, SPLTA, SPLTB, SPLTE, SPLTEF, or SPLTF. Refer to the MODE parameter description.

Executing a CONN-TACC-T1 command causes a DS1 SST of BUSY and TS to be applied to the assigned TAPP, and a DS1 SST of TS to be applied to any equipment-side and facility-side DS1 ports involved in the test access operation. If a cross-connection exists, a cross-connection SST of TS is applied to the cross-connection entity.

The CONN-TACC-T1 command also allows testing of a pass through path of a single node ring.

A CONN-TACC-T1 command is denied if:

- The specified TAPP, equipment-side port, or facility-side port (identified by AID, TAP, or AID1) are not provisioned.
- An Idle Signal Source Port for unframed QRS is not provisioned.
- The DS1 port specified for TAP is not the FAD A port of a TAPP owned by (provisioned by) the user, or all of the TAPPs owned by the user are in use.
- The port specified by AID is provisioned as an Idle Signal Source Port.
- The specified equipment-side or facility-side port (identified by AID and any cross-connection) are provisioned as part of a TAPP.
- The specified TAPP, equipment-side port, or facility-side port are already involved in a test access operation (a DS1 SST of TS).
- The specified TAPP, equipment-side port, or facility-side port are in a loopback (a DS1 or VT1.5 SST of LPBK) or have C-bit loopback enabled or established (a DS1 Condition Type of ALWCBLPBK or RCVCBLPBK).
- The specified TAPP, equipment-side port, or facility-side port is an embedded DS1/VT1.5 and the supporting facility is in a loopback (a SST of LPBK).
- The DS1 port specified by AID is cross-connected to itself (the receive and transmit side of the same port are cross-connected).

- Multiple cross-connections from the port specified by AID exist (a one-way bridge connection or a broadcast conference connection), the test access mode specified affects the facility-side connection (MODE other than {MONE, MONEF, MONF}) and the facility-side port to be tested is not specified by AID1.
- The specified facility-side or equipment-side port has fault propagation active on it.
- A value for MODE of {LOOPF, MONF, MONEF, MONF, SPLTEF, SPLTF} is entered and a facility-side connection does not exist, or if {SPLTA, SPLTB} is entered and a corresponding A-side or B-side connection does not exist.
- The specified DS1 (and associated cross-connection) is in a terminate-and-leave status (a cross-connection SST of {TERMB, TERMB, TERMT}) and a MODE of {LOOPE, LOOPF} is specified.
- The specified port (port A) has a SST of LPBK, or port A is cross-connected to port B which has a SST LPBK, or port A is cross-connected to port B which itself is cross-connected to port C and port C has a SST of LPBK.
- The specified test access connection requires a first-stage matrix bridge connection and the first-stage matrix time slots reserved for broadcast connections are all in use (refer to RTRV-POOL).
- The specified TAP is busy, or the TAP is not specified and all TAP pairs in the Private Pool of the user and in the Public Pool are busy.
- Any value for MODE other than {LOOPE, LOOPF, MONE, MONF, SPLTE, SPLTF} is entered on a pass through path.
- Enough cross connection resources (i.e., expansion timeslots in the first-stage matrix) are NOT available to initially set up a TACC.
- The specified equipment-side port or facility-side port is involved in a redlined connection (in an RDL=Y state) and the test access mode is SPLTE, SPLTF, SPLTEF, SPLTA, SPLTB, LOOPE, or LOOPF.
- An invalid parameter value or combination of parameter values is entered.

A CONN-TACC-T1 executed with a value for MODE of {MONE, MONEF, MONF} is not service affecting. A CONN-TACC-T1 executed with a value for MODE of {LOOPE, LOOPF, SPLTA, SPLTB, SPLTE, SPLTEF, SPLTF} is service affecting and interrupts traffic. Care should be exercised when specifying one of these test access modes.

INPUT FORMAT

CONN-TACC-T1 : [TID] : AID : [CTAG] : : [TAP] : MODE : [AID1] : [LA] ;

INPUT PARAMETERS

TID	<1-20 VALID TID CHARACTERS>		
	Default:	<SID>	
	Addressing:	None	
	Description:	Target Identifier, specifies the network node TID for the command.	
AID	DS1_AID:		
	{T1-{1-59392}}	(T1-DS1#)	
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)	
	{EC1T1-{1-3840}-{1-28}}	(EC1T1-EC1/STS1/DS3#-DS1#)	
	{OC3T1-{1-2240}-{1-3}-{1-28}}	(OC3T1-OC3#-STS1/DS3#-DS1#)	
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}	(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)	
	VT1_AID:		
	{EC1VT1-{1-3840}-{1-7}-{1-4}}	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)	
	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)	
	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)	
	Default:	Entry Required	
	Addressing:	None	
	Description:	DS1 or VT1 AID, identifies the equipment-side DS1 or VT1.5 port to be tested.	
	Restrictions:	CONN-TACC-T1 is denied if a VT1.5 type AID is specified and the VT1 is provisioned with VTMAP={ALL, VTBYTE}.	

CTAG	<1-6 VALID CTAG CHARACTERS>	
	Default:	<System Assigned CTAG Value>
	Addressing:	None
	Description:	Correlation Tag, associates input command with its output responses.
TAP	DS1_AID:	
	{T1-{1-59392}}	(T1-DS1#)
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)
	Default:	< System assigned DS1 Test Access port >
	Addressing:	None
	Description:	Test Access Port AID, identifies the FAD A AID (i.e., the DS1 AID) to be used in the test. For DS1 embedded within electrical DS3, the 28th DS1 is excluded. Name defined values are:
MODE	<No Value>	Next DS1 Test Access port available in the user's PRIVATE pool (if any) is assigned. Otherwise the next port in the system's PUBLIC pool is assigned.
	{LOOPE, LOOPF, MONE, MONEF, MONF, SPLTA, SPLTB, SPLTE, SPLTEF, SPLTF}	
	Default:	Entry Required
	Addressing:	None
	Description:	Test Access Mode, specifies the test mode to be used. Values are:
	LOOPE	Loop Equipment-side, specifies a test which loops the equipment-side incoming signal to its output and monitors the looped signal with FAD A. If a facility-side port is connected to the equipment-side port, the A and B side transmission paths are split, unframed QRS is inserted into the outgoing facility-side signal, and the incoming facility-side signal is terminated.
	LOOPF	Loop Facility-side, specifies a test which loops the facility-side incoming signal to its output and monitors the looped signal with FAD A. If an equipment-side port is connected to the facility-side port, the A and B side transmission paths are split, unframed QRS is inserted into the outgoing equipment-side signal, and the incoming equipment-side signal is terminated.
	MONE	Monitor Equipment-side, specifies a test which monitors the equipment-side port with FAD A.
	MONEF	Monitor Equipment-side and Facility-side, specifies a test which monitors the equipment-side port with FAD A and the facility-side port with FAD B.
	MONF	Monitor Facility-side, specifies a test which monitors the facility-side port with FAD A.
	SPLTA	Split A-side, specifies a test which splits the A-side signal path and connects it both to and from FAD A.
	SPLTB	Split B-side, specifies a test which splits the B-side signal path and connects it both to and from FAD A.
	SPLTE	Split Equipment-side, specifies a test depending on the value entered for TAP. If a DS1 AID is entered for TAP, the equipment-side port is connected both to and from FAD A. In this case, if a facility-side port is connected to the equipment-side port, the A and B side transmission paths are split, unframed QRS inserted into the outgoing facility-side signal, and the incoming facility-side signal is terminated.
	SPLTEF	Split Equipment-side and Facility-side, specifies a test which splits the A and B transmission paths (if existing) and connects the equipment-side port both to and from FAD A and the facility-side port both to and from FAD B.

	SPLTF	Split Facility-side, specifies a test depending on the value entered for TAP. If a DS1 AID is entered for TAP, the facility-side port is connected both to and from FAD A. In this case, if an equipment-side port is connected to the facility-side port, the A and B side transmission paths are split, unframed QRS inserted into the outgoing equipment-side signal, and the incoming equipment-side signal is terminated.
	Restrictions:	CONN-TACC-T1 is denied if MODE of {LOOPF, MONF, MONEF, SPLTEF, SPLTF} is entered and a facility-side connection does not exist. CONN-TACC-T1 is denied if MODE of {SPLTA, SPLTB} is entered and a corresponding A-side or B-side connection does not exist.
AID1	DS1_AID: {T1-{1-59392}} {T3T1-{1-4800}-{1-28}} {EC1T1-{1-3840}-{1-28}} {OC3T1-{1-2240}-{1-3}-{1-28}} {OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}	(T1-DS1#) (T3T1-DS3#-DS1#) (EC1T1-EC1/STS1/DS3#-DS1#) (OC3T1-OC3#-STS1/DS3#-DS1#) (OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)
	VT1_AID: {EC1VT1-{1-3840}-{1-7}-{1-4}} {OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}} {OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}} (OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#) (OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)
	Default:	< null >
	Addressing:	None
	Description:	DS1 or VT1 AID, identifies the DS1 or VT1.5 facility-side port of a broadcast (bridge or conference) connection to be tested. A value for AID1 is only entered if the test is to be performed on a leg of a bridge or conference connection. If the AID specifies the drop side of a path switched ring and the AID1 is not specified, the DS1 or VT1.5 within the odd-numbered VT1.5 will be considered as the facility side. The facility-side port to test is automatically defined in all other cases.
	Restrictions:	CONN-TACC-T1 is denied if the DS1 port specified for AID1 is not connected to the equipment-side port (AID port). CONN-TACC-T1 is denied if a VT1 type AID1 is specified and the VT1.5 is provisioned with VTMAP={ALL, VTBYTE}.
LA	{Y, N}	
	Default:	{Y}
	Addressing:	None
	Description:	Link Association, specifies whether the test access connection is to be associated with the communication link being used by the user. Values are:
	Y	Yes, specifies that the test access connection is to be disconnected if the user logs off, if the user enters a REPT-INITZN command, if the communication link timer is enabled and expires, or if the APS control system re-boots.
	N	No, specifies that the test access connection is not disconnected regardless if the user logs off, the user enters a REPT-INITZN command, the communication link timer expires, or if the APS control system re-boots.

SUCCESSFUL RESPONSE FORMAT

The following successful response format is provided if TAP of DS1_AID is entered.

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  "<TAP>"
  "A, <TLS>"
  "B, <TLS>"
  "E, <FMT>"
  "F, <FMT>"
  "E, <LINECDE>"
  "F, <LINECDE>"
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

OUTPUT PARAMETERS

TAP	DS1_AID: {T1-{1-59392}} (T1-DS1#) {T3T1-{1-4800}-{1-28}} (T3T1-DS3#-DS1#) Test Access Port assigned, indicates the assigned DS1 TAPP FAD AID. For DS1 embedded within electrical DS3, the 28th DS1 is excluded.
TLS	{NORM, TERM, <NoVal>} Terminate and Leave Status, indicates whether the A side or B side DS1 port being tested is in a terminate and leave status as a result of a previous CHG-TL-DIG command. A value for TLS is only provided when a DS1 AID is entered for TAP in the input command. Values are: NORM Normal, the A or B side port is not in a terminate and leave state. TERM Terminated, the A or B side port is in a terminate and leave state. <NoVal> No value is displayed, the A or B side connection does not exist.
FMT	{E, S, U, X} Signal Format, indicates the signal format of the E (equipment) side or F (facility) side ports involved in the test access connection. A value for FMT is only provided when a DS1 AID is entered for TAP in the input command. Values are: E ESF (Extended Super Frame) format S SF (Super Frame) format U Unframed format X The format is not known
LINECDE	{A, B, U} Line Code, indicates the line code for terminated electrical E (equipment) side or F (facility) side ports involved in the test access connection. A value for LINECDE is only provided when a DS1 AID is entered for TAP in the input command. Values are: A Alternate Mark Inversion (AMI). B Bipolar with Eight Zero Substitution (B8ZS). U Unknown, the line code cannot be determined (as for an embedded DS1).

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

ENFE	Equipage, FEature Not provided
IIAC	Input, Invalid ACcess identifier /* AID cannot be provisioned as a FAD of a TAPP */ /* Both ports involved in 2WAYPR or 2WAYDC are Synchronous VTs */ /* TACC not allowed on Synchronous VTs */
IPNV	Input, Parameter Not Valid
ITSN	Input, invalid/inactive Test Session Number /* TAPP belongs to another user */
RABY	Resource, All taps BusY /* No TAPP available for current user */
RCIN	Resource, requested Circuit Id does Not exist /* Cannot use specified mode because there is no A-Side */ /* Cannot use specified mode because there is no B-Side */
RNAU	Resource, Requested NE access Address Unassigned
RTBY	Resource, requested Tap BusY
RTEN	Resource, requested Tap does Not Exist /* TAPP specified does not exist */
SCAT	Status, Circuit Already connected to another Tap
SCSN	Status, invalid Command SequeNce /* LOOP mode not allowed on terminated ports */
SDBE	Status, internal Data Base Error /* <DATABASE TYPE> Database Error: <STATUS> for <AID STRING> */ /* <DATABASE TYPE> Database Error: <STATUS> for record number <RECORD NUMBER> */ /* <DATABASE TYPE> Database Error: <STATUS> */
SDNC	Status, Data Not Consistent /* Cannot use specified mode because there is no Facility */
SNCC	Status, Not Cross-Connected
SNVS	Status, Not in Valid State /* Port <AID STRING> is in loopback */ /* Port <AID STRING> has a supporting entity in loopback */ /* Port <AID STRING> has a supported entity in loopback */ /* TACC not allowed on ports allowing CBIT */ /* TACC not allowed with ports in loopback */ /* TACC not allowed with ports under ROLL */ /* Cannot use specified mode because there is a Red-Lined connection */
SROF	Status, Requested Operation Failed /* No signal source is provisioned for UNCH QRS */
SRQN	Status, invalid ReQuest /* Cannot do TACC if fault propagation is active */ /* Cannot connect TACC when a supporting TP under fault propagation */ /* Cannot connect TACC when a supporting TP is connected */ /* Cannot do TACC on Alternate Ring Port */ /* Supporting port of <AID STRING> under fault propagation */ /* Port <AID STRING> under fault propagation */
SSRE	Status, System Resources Exceeded

EXAMPLES

In the following example, the CONN-TACC-T1 establishes a monitor equipment-side test access connection, that will be disconnected if the user logs off, for DS1 port T1-21505 to the FAD A Test Access port T1-24577.

```
CONN-TACC-T1::T1-21505:::T1-24577:MONE::Y;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of Pae956. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pae956 COMPLD
  "T1-24577"
  "A, NORM"
  "B, NORM"
  "E, E"
  "F, E"
  "E, U"
  "F, U"
/* CONN-TACC-T1::T1-21505:::T1-24577:MONE::Y [Pae956] (2) */
;
```

RELATED COMMANDS

```
CHG-ACCMD-T1
CHG-TL-DIG
DISC-TACC
DISC-TACC-PRVG
ENT-EQPT
ENT-T1
REPT-INITZN
REPT-STAT
RST-TAP-DIG
RTRV-CRS
RTRV-CRS-T1
RTRV-POOL
RTRV-RDL-ALL
RTRV-SID
RTRV-T1
RTRV-TACC
SET-SID
```


COMMAND CODE: **CONN-TACC-T3**
COMMAND NAME: **CONNECT TEST ACCESS T3**

PURPOSE

The CONN-TACC-T3 command connects a user assigned (user owned) Test Access port to the specified DS3 port in the specified test access mode and returns the assigned FAD A Test Access port AID in the command's output response message.

A test access connection can be established on a disconnected DS3 port, on one-way or two-way cross-connected ports.

The Test Access Port Pair (TAPP) specified in the command must belong either to the user's Private TAPP pool or the system's Public pool (pool assignment is done when the TAPP is provisioned). No user is allowed to use a TAPP that is in another user's private pool. If no value is specified for TAP in the CONN-TACC-T3 command, the system assigns a TAPP from the available pool of TAPPs owned by the user (i.e., Private). If a TAPP from a user's private pool is not available, the system assigns a TAPP from the system common (i.e., Public) pool of TAPPs.

A TAPP connection can be link associated with the user and communication link associated with the CONN-TACC-T3 command. If a CONN-TACC-T3 is executed with link association specified, the test access connection (established by the user) is disconnected if the user logs off, if the user enters a REPT-INITZN command, if the communication link timer is enabled and expires (refer to the LNKTMR parameter in ENT-USER and ED-PRVG-USER), or if the control system re-boots. (Note that a user's test access connections are disconnected if the user executes a DISC-TACC or RST-TAP-DIG command, regardless if the connection is link associated.)

The available test access modes for a Test Access port connection are LOOPE, LOOPF, MONE, MONEF, MONF, SPLTA, SPLTB, SPLTE, SPLTEF, or SPLTF. Refer to the MODE parameter description.

Executing a CONN-TACC-T3 command causes a DS3 SST of BUSY and TS to be applied to the assigned TAPP, and a DS3 SST of TS to be applied to any equipment-side and facility-side DS3 ports involved in the test access operation. If a cross-connection exists, a cross-connection SST of TS is applied to the cross-connection entity.

The CONN-TACC-T3 command also allows testing of a pass through path of a single node ring.

A CONN-TACC-T3 command is denied if:

- The specified TAPP, equipment-side port, or facility-side port (identified by AID, TAP, or AID1) are not provisioned.
- The DS3 port specified for TAP is not the FAD A port of a TAPP owned by (provisioned by) the user, or all of the TAPPs owned by the user and that in public pool are in use.
- The specified equipment-side or facility-side port (identified by AID and any cross-connection) are provisioned as part of a TAPP.
- The specified TAPP, equipment-side port, or facility-side port are already involved in a test access operation (a DS3 SST of TS).
- The specified TAPP, equipment-side port, or facility-side port are in a loopback (a DS3 SST of LPBK).
- The DS3 port specified by AID is cross-connected to itself (the receive and transmit side of the same port are cross-connected).
- A value for MODE of {LOOPF, MONF, MONEF, MONF, SPLTEF, SPLTF} is entered and a facility-side connection does not exist, or if {SPLTA, SPLTB} is entered and a corresponding A-side or B-side connection does not exist.
- The specified DS3 (and associated cross-connection) is in a terminate-and-leave status (a cross-connection SST of {TERMB, TERMB, TERMT}) and a MODE of {LOOPE, LOOPF} is specified.
- The specified port (port A) has an SST of LPBK, or port A is cross-connected to port B which has an SST LPBK, or port A is cross-connected to port B which itself is cross-connected to port C and port C has an SST of LPBK.
- The specified test access connection requires a first-stage matrix bridge connection and the first-stage matrix time slots reserved for broadcast connections are all in use (refer to RTRV-POOL).

- The specified DS3 is an electrical (stand-alone) DS3 which resides in a quad or a Standard EP3 shelf.
- Any value for MODE other than {LOOPE, LOOPF, MONE, MONF, SPLTE, SPLTF} is entered on a pass through path.
- Enough cross connection resources (i.e., expansion timeslots in the first-stage matrix) are NOT available to initially set up a TACC.
- The specified equipment-side port or facility-side port is involved in a redlined connection (in an RDL=Y state) and the test access mode is SPLTE, SPLTF, SPLTEF, SPLTA, SPLTB, LOOPE, or LOOPF.
- An invalid parameter value or combination of parameter values is entered.

A CONN-TACC-T3 executed with a value for MODE of {MONE, MONEF, MONF} is not service affecting. A CONN-TACC-T3 executed with a value for MODE of {LOOPE, LOOPF, SPLTA, SPLTB, SPLTE, SPLTEF, SPLTF} is service affecting and interrupts traffic. Care should be exercised when specifying one of these test access modes.

INPUT FORMAT

CONN-TACC-T3 : [TID] : AID : [CTAG] : : [TAP] : MODE : [AID1] : [LA] ;

INPUT PARAMETERS

TID	<p><1-20 VALID TID CHARACTERS></p> <p>Default: <SID></p> <p>Addressing: None</p> <p>Description: Target Identifier, specifies the network node TID for the command.</p>
AID	<p>DS3_AID: {T3-{1-4800}} (T3-DS3#)</p> <p>STS1_AID: {EC1STS1-{1-3840}} (EC1STS1-EC1/STS1#) {OC3STS1-{1-2240}-{1-3}} (OC3STS1-OC3#-STS1#) {OC12STS1-{1-560}-{1-4}-{1-3}} (OC12STS1-OC12#-STM1#-STS1#)</p> <p>Default: Entry Required</p> <p>Addressing: None</p> <p>Description: DS3 or STS1 AID, identifies the equipment-side DS3 or STS-1 port to be tested.</p> <p>Restrictions: CONN-TACC-T3 is denied if an STS-1 AID is used when that STS-1 has STSMAP not set to ASYNC. CONN-TACC-T3 is denied if the AID specifies an electrical DS3 which resides in a quad.</p>
CTAG	<p><1-6 VALID CTAG CHARACTERS></p> <p>Default: <System Assigned CTAG Value></p> <p>Addressing: None</p> <p>Description: Correlation Tag, associates input command with its output responses.</p>
TAP	<p>DS3_AID: {T3-{1-4800}} (T3-DS3#)</p> <p>Default: < System assigned DS3 Test Access port ></p> <p>Addressing: None</p> <p>Description: Test Access Port AID, identifies the FAD A AID to be used in the test. Name defined values are: <No Value> Next DS3 Test Access port available in the user's PRIVATE pool (if any) is assigned. Otherwise the next port in the system's PUBLIC pool is assigned.</p> <p>Restrictions: CONN-TACC-T3 is denied if TAP specifies an electrical DS3 which resides in a quad.</p>

MODE	{LOOPE, LOOPF, MONE, MONEF, MONF, SPLTA, SPLTB, SPLTE, SPLTEF, SPLTF}
Default:	Entry Required
Addressing:	None
Description:	Test Access Mode, specifies the test mode to be used. Values are:
LOOPE	Loop Equipment–side, specifies a test which loops the equipment–side incoming signal to its output and monitors the looped signal with FAD A. If a facility–side port is connected to the equipment–side port, the A and B side transmission paths are split, IDLE is inserted into the outgoing facility–side signal, and the incoming facility–side signal is terminated.
LOOPF	Loop Facility–side, specifies a test which loops the facility–side incoming signal to its output and monitors the looped signal with FAD A. If an equipment–side port is connected to the facility–side port, the A and B side transmission paths are split, IDLE is inserted into the outgoing equipment–side signal, and the incoming equipment–side signal is terminated.
MONE	Monitor Equipment–side, specifies a test which monitors the equipment–side port with FAD A.
MONEF	Monitor Equipment–side and Facility–side, specifies a test which monitors the equipment–side port with FAD A and the facility–side port with FAD B.
MONF	Monitor Facility–side, specifies a test which monitors the facility–side port with FAD A.
SPLTA	Split A–side, specifies a test which splits the A–side signal path and connects it both to and from FAD A.
SPLTB	Split B–side, specifies a test which splits the B–side signal path and connects it both to and from FAD A.
SPLTE	Split Equipment–side, specifies a test depending on the value entered for TAP. If a DS3 AID is entered for TAP, the equipment–side port is connected both to and from FAD A. If a facility–side port is connected to the equipment–side port, the A and B side transmission paths are split, IDLE inserted into the outgoing facility–side signal, and the incoming facility–side signal is terminated.
SPLTEF	Split Equipment–side and Facility–side, specifies a test which splits the A and B transmission paths (if existing) and connects the equipment–side port both to and from FAD A and the facility–side port both to and from FAD B.
SPLTF	Split Facility–side, specifies a test depending on the value entered for TAP. If a DS3 AID is entered for TAP, the facility–side port is connected both to and from FAD A. If an equipment–side port is connected to the facility–side port, the A and B side transmission paths are split, IDLE inserted into the outgoing equipment–side signal, and the incoming equipment–side signal is terminated.
Restrictions:	CONN–TACC–T3 is denied if MODE of {LOOPF, MONF, MONEF, SPLTEF, SPLTF} is entered and a facility–side connection does not exist. CONN–TACC–T3 is denied if MODE of {SPLTA, SPLTB} is entered and a corresponding A–side or B–side connection does not exist.

AID1	DS3_AID:	
	{T3-{1-4800}}	(T3-DS3#)
	STS1_AID:	
	{EC1STS1-{1-3840}}	(EC1STS1-EC1/STS1#)
	{OC3STS1-{1-2240}-{1-3}}	(OC3STS1-OC3#-STS1#)
	{OC12STS1-{1-560}-{1-4}-{1-3}}	(OC12STS1-OC12#-STM1#-STS1#)
	Default:	< null >
	Addressing:	None
	Description:	DS3 or STS1 AID, identifies the DS3 or STS-1 facility-side port to be tested. If the AID specifies the drop side of a path switched ring and the AID1 is not specified, the DS3 or STS-1 within the preferred OC-3/OC-12 will be considered as the facility side.
	Restrictions:	CONN-TACC-T3 is denied if the DS3 port specified for AID1 is not connected to the equipment-side port (AID port). CONN-TACC-T3 is denied if an STS-1 type AID is used when that STS-1's STSMAP is something other than ASYNC. CONN-TACC-T3 is denied if AID1 specifies an electrical DS3 which resides in a quad.
LA	{Y, N}	
	Default:	{Y}
	Addressing:	None
	Description:	Link Association, specifies whether the test access connection is to be associated with the communication link being used by the user. Values are:
	Y	Yes, specifies that the test access connection is to be disconnected if the user logs off, if the user enters a REPT-INITZN command, if the communication link timer is enabled and expires, or if the APS control system re-boots.
	N	No, specifies that the test access connection is not disconnected regardless if the user logs off, the user enters a REPT-INITZN command, the communication link timer expires, or if the APS control system re-boots.

SUCCESSFUL RESPONSE FORMAT

The following is the successful response format for the CONN-TACC-T3 command

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  "<TAP>"
  "A, <TLS>"
  "B, <TLS>"
  "E, <FMT>"
  "F, <FMT>"
  "E, <LINECDE>"
  "F, <LINECDE>"
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

OUTPUT PARAMETERS

TAP	DS3_AID:	
	{T3-{1-4800}}	(T3-DS3#)
	Test Access Port assigned, indicates the assigned DS3 TAPP FAD AID. Electrical DS3s which reside in a quad are excluded.	

TLS	{NORM, TERM, <NoVal>}												
	Terminate and Leave Status, indicates whether the A side or B side DS3 port being tested is in a terminate and leave status as a result of a previous CHG–TL–DIG command. Values are:												
	<table> <tr> <td>NORM</td><td>Normal, the A or B side port is not in a terminate and leave state.</td></tr> <tr> <td>TERM</td><td>Terminated, the A or B side port is in a terminate and leave state.</td></tr> <tr> <td><NoVal></td><td>No value is displayed, the A or B side connection does not exist.</td></tr> </table>	NORM	Normal, the A or B side port is not in a terminate and leave state.	TERM	Terminated, the A or B side port is in a terminate and leave state.	<NoVal>	No value is displayed, the A or B side connection does not exist.						
NORM	Normal, the A or B side port is not in a terminate and leave state.												
TERM	Terminated, the A or B side port is in a terminate and leave state.												
<NoVal>	No value is displayed, the A or B side connection does not exist.												
FMT	{C, F, M, U, UC, X}												
	Signal Format, indicates the signal format of the E (equipment) side or F (facility) side ports involved in the test access connection. Values are:												
	<table> <tr> <td>C</td><td>C–bit Parity format</td></tr> <tr> <td>F</td><td>Framed Clear Channel</td></tr> <tr> <td>M</td><td>M23 format</td></tr> <tr> <td>U</td><td>Unframed format</td></tr> <tr> <td>UC</td><td>Unchannelized C–bit Parity format</td></tr> <tr> <td>X</td><td>The format is not known</td></tr> </table>	C	C–bit Parity format	F	Framed Clear Channel	M	M23 format	U	Unframed format	UC	Unchannelized C–bit Parity format	X	The format is not known
C	C–bit Parity format												
F	Framed Clear Channel												
M	M23 format												
U	Unframed format												
UC	Unchannelized C–bit Parity format												
X	The format is not known												
LINECODE	{A, B, U}												
	Line Code, indicates the line code for terminated electrical E (equipment) side or F (facility) side ports involved in the test access connection. Values are:												
	<table> <tr> <td>A</td><td>Alternate Mark Inversion (AMI).</td></tr> <tr> <td>B</td><td>Bipolar with Eight Zero Substitution (B8ZS).</td></tr> <tr> <td>U</td><td>Unknown, the line code can not be determined.</td></tr> </table>	A	Alternate Mark Inversion (AMI).	B	Bipolar with Eight Zero Substitution (B8ZS).	U	Unknown, the line code can not be determined.						
A	Alternate Mark Inversion (AMI).												
B	Bipolar with Eight Zero Substitution (B8ZS).												
U	Unknown, the line code can not be determined.												

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non–Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
	/* AID cannot be provisioned as a FAD of a TAPP */
	/* Both ports involved in 2WAYPR or 2WAYDC must be Asynchronous STSs */
	/* TACC not allowed on Synchronous STS1 */
ITSN	Input, invalid/inactive Test Session Number
	/* TAPP belongs to another user */
RABY	Resource, All taps BusY
	/* No TAPP available for current user */
RCIN	Resource, requested Circuit Id does Not exist
	/* Cannot use specified mode because there is no A–Side */
	/* Cannot use specified mode because there is no B–Side */
RTBY	Resource, requested Tap BusY
RTEN	Resource, requested Tap does Not Exist
	/* TAPP specified does not exist */
SCAT	Status, Circuit Already connected to another Tap
SCSN	Status, invalid Command SequenCe
	/* LOOP mode not allowed on terminated ports */

SDBE	Status, internal Data Base Error /* <DATABASE TYPE> Database Error: <STATUS> for <AID STRING> */ /* <DATABASE TYPE> Database Error: <STATUS> for record number <RECORD NUMBER> */ /* <DATABASE TYPE> Database Error: <STATUS> */ /* Error getting shelf info, status <STATUS> */
SDNC	Status, Data Not Consistent /* Cannot use specified mode because there is no Facility */
SNCC	Status, Not Cross-Connected
SNVS	Status, Not in Valid State /* Port <AID STRING> is in loopback */ /* Port <AID STRING> has a supporting entity in loopback */ /* Port <AID STRING> has a supported entity in loopback */ /* TACC not allowed with ports under ROLL */ /* Cannot use specified mode because there is a Red-Lined connection */
SROF	Status, Requested Operation Failed
SRQN	Status, invalid ReQuest /* Cannot do TACC if fault propagation is active */ /* Cannot connect TACC when a supporting TP under fault propagation */ /* Cannot connect a port that has embedded SRC ports */ /* Cannot do TACC on Alternate Ring Port */ /* Port <AID STRING> under fault propagation */
SSRE	Status, System Resources Exceeded

EXAMPLES

In the following example, the CONN-TACC-T3 establishes a monitor equipment-side test access connection, that will be disconnected if the user logs off, for DS3 port T3-1060 to the FAD A Test Access port T3-1104.

```
CONN-TACC-T3::T3-1060:::T3-1104:MONE::Y;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of Pae956. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed, and the TAP port that has been assigned by the system T3-1104.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pae956 COMPLD
  "T3-1104"
  "A, NORM"
  "B, NORM"
  "E, E"
  "F, E"
  "E, U"
  "F, U"
/* CONN-TACC-T3::T3-1060:::T3-1104:MONE::Y [Pae956] (2) */
;
```

RELATED COMMANDS

CHG-ACCMD-T3
CHG-TL-DIG
DISC-TACC
DISC-TACC-PRVG
ENT-T3
REPT-INITZN
REPT-STAT
RST-TAP-DIG
RTRV-CRS
RTRV-POOL
RTRV-CRS-T3
RTRV-RDL-ALL
RTRV-T3
RTRV-TACC

COMMAND CODE: **CONN-TACC-VT1**
COMMAND NAME: **CONNECT TEST ACCESS VT1**

PURPOSE

The CONN-TACC-VT1 command connects a user assigned (user owned) Test Access port or a system assigned (publicly owned) Test Access port to the specified VT1 port in the specified test access mode. The assigned FAD A Test Access port AID is returned in the command's output response message.

A test access connection can be established on a disconnected VT1 and on one-way or two-way cross-connected ports.

The Test Access Port Pair (TAPP) specified in the command must belong either to the user's Private TAPP pool or the system's Public pool (pool assignment is done when the TAPP is provisioned). No user is allowed to use a TAPP that is in another user's private pool. If no value is specified for TAP in the CONN-TACC-VT1 command, the system assigns a TAPP from the available pool of TAPPs owned by the user (i.e., Private). If a TAPP from a user's private pool is not available, the system assigns a TAPP from the system common (i.e., Public) pool of TAPPs.

A TAPP connection can be link associated with the user and communication link associated with the CONN-TACC-VT1 command. If a CONN-TACC-VT1 is executed with link association specified, the test access connection (established by the user) is disconnected if the user logs off, if the user enters a REPT-INITZN command, if the communication link timer is enabled and expires (refer to the LNKTMR parameter in ENT-USER and ED-PRVG-USER), or if the control system re-boots. (Note that a user's test access connections are disconnected if the user executes a DISC-TACC or RST-TAP-DIG command, regardless if the connection is link associated.)

The available test access modes for a Test Access port connection are LOOPE, LOOPF, MONE, MONEF, MONF, SPLTA, SPLTB, SPLTE, SPLTEF, or SPLTF. Refer to the MODE parameter description.

Executing a CONN-TACC-VT1 command causes a VT1 SST of BUSY to be applied to the assigned TAPP.

The CONN-TACC-VT1 command also allows testing of a pass through path of a single node ring.

A CONN-TACC-VT1 command is denied if:

- The specified TAPP, equipment-side port, or facility-side port (identified by AID, TAP, or AID1) are not provisioned.
- An Idle Signal Source Port for unframed QRS is not provisioned.
- The VT1 port specified for TAP is not the FAD A port of a TAPP owned by (provisioned by) the user, or all of the TAPPs owned by the user and that are in the public pool are in use.
- The port specified by AID is provisioned as an Idle Signal Source Port.
- The specified equipment-side or facility-side port (identified by AID and any cross-connection) are provisioned as part of a TAPP.
- The specified TAPP, equipment-side port, or facility-side port are already involved in a test access operation (a VT1 SST of TS).
- The specified VT1 port is under roll operation (a SST of ROLL).
- The specified TAPP, equipment-side port, or facility-side port are in a loopback (a VT1 SST of LPBK) or have C-bit loopback enabled or established (a DS1 Condition Type of ALWCBLPBK or RCVCBLPBK).
- The specified TAPP, equipment-side port, or facility-side port is an embedded DS1/VT1.5 and the supporting facility is in a loopback (a SST of LPBK).
- The specified TAPP, equipment-side port, or facility-side port are in a loopback (a VT1 SST of LPBK).
- The VT1 port specified by AID is cross-connected to itself (the receive and transmit side of the same port are cross-connected).
- Multiple cross-connections from the port specified by AID exist (a one-way bridge connection or a broadcast conference connection), the test access mode specified affects the facility-side connection (MODE other than {MONE, MONEF, MONF}) and the facility-side port to be tested is not specified by AID1.
- The specified facility-side or equipment-side port has fault propagation active on it.

- A value for MODE of {LOOPF, MONF, MONEF, MONF, SPLTEF, SPLTF} is entered and a facility-side connection does not exist, or if {SPLTA, SPLTB} is entered and a corresponding A-side or B-side connection does not exist.
- The specified VT1 (and associated cross-connection) is in a terminate-and-leave status (a cross-connection SST of {TERMB, TERMF, TERMT}) and a MODE of {LOOPE, LOOPF} is specified.
- The specified port (port A) has an SST of LPBK, or port A is cross-connected to port B which has an SST LPBK, or port A is cross-connected to port B which itself is cross-connected to port C and port C has an SST of LPBK.
- The specified test access connection requires a first-stage matrix bridge connection and the first-stage matrix time slots reserved for broadcast connections are all in use (refer to RTRV-POOL).
- The specified TAP is busy, or the TAP is not specified and all TAP pairs in the Private Pool of the user and in the Public Pool are busy.
- Any value for MODE other than {LOOPE, LOOPF, MONE, MONF, SPLTE, SPLTF} is entered on a pass through path.
- Either of the ports under test is a T1 and the TAPP-VTMAP is not ASYNC.
- Enough cross connection resources (i.e., expansion timeslots in the first-stage matrix) are NOT available to initially set up a TACC.
- The specified equipment-side port or facility-side port is involved in a redlined connection (in an RDL=Y state) and the test access mode is SPLTE, SPLTF, SPLTEF, SPLTA, SPLTB, LOOPE, or LOOPF.
- An invalid parameter value or combination of parameter values is entered.

A CONN-TACC-VT1 executed with a value for MODE of {MONE, MONEF, MONF} is not service affecting. A CONN-TACC-VT1 executed with a value for MODE of {LOOPE, LOOPF, SPLTA, SPLTB, SPLTE, SPLTEF, SPLTF} is service affecting and interrupts traffic. Care should be exercised when specifying one of these test access modes.

INPUT FORMAT

CONN-TACC-VT1 : [TID] : AID : [CTAG] : : [TAP] : MODE : [AID1] : [LA] ;

INPUT PARAMETERS

TID	<1-20 VALID TID CHARACTERS>		
	Default:	<SID>	
	Addressing:	None	
	Description:	Target Identifier, specifies the network node TID for the command.	
AID	DS1_AID:		
	{T1-{1-59392}}	(T1-DS1#)	
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)	
	{EC1T1-{1-3840}-{1-28}}	(EC1T1-EC1/STS1/DS3#-DS1#)	
	{OC3T1-{1-2240}-{1-3}-{1-28}}	(OC3T1-OC3#-STS1/DS3#-DS1#)	
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}	(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)	
	VT1_AID:		
	{EC1VT1-{1-3840}-{1-7}-{1-4}}	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)	
	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)	
	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}		
	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)		
	Default:	Entry Required	
	Addressing:	None	
	Description:	DS1 or VT1 AID, identifies the equipment-side DS1 or VT1.5 port to be tested.	
CTAG	<1-6 VALID CTAG CHARACTERS>		
	Default:	<System assigned CTAG value>	
	Addressing:	None	
	Description:	Correlation Tag, associates input command with its output responses.	

TAP	VT1_AID:	
	{EC1VT1-{1-3840}-{1-7}-{1-4}}	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)
	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)
	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	
	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)	
	Default:	<System assigned Test Access port>
	Addressing:	None
	Description:	Test Access Port AID, identifies the FAD A AID (i.e., the VT1 AID) of the TAPP to be used in the test.
	Restrictions:	CONN-TACC-VT1 is denied if TAP specifies the {7-4}th VT1 within an STS1. Refer to Appendix B, Access Identifiers (AIDs). CONN-TACC-VT1 is denied if aT1 type AID or AID1 is specified, and the VT1.5 for the TAPP is provisioned with VTMAP={ALL, VTBYTE}.
MODE	{LOOPE, LOOPF, MONE, MONEF, MONF, SPLTA, SPLTB, SPLTE, SPLTEF, SPLTF}	
	Default:	Entry required
	Addressing:	None
	Description:	Test Access Mode, specifies the new test mode to be used. Values are:
	LOOPE	Loop Equipment-side, specifies a test which loops the equipment-side incoming signal to its output and monitors the looped signal with FAD A. If a facility-side port is connected to the equipment-side port, the A and B side transmission paths are split, a maintenance signal is inserted into the outgoing facility-side signal, and the incoming facility-side signal is terminated. If VTMAP=ASNYC, the inserted maintenance signal is unframed QRS. If VTMAP is any non-ASNYC value or the VT port is in a pass-through connection, the maintenance signal is AIS-V.
	LOOPF	Loop Facility-side, specifies a test which loops the facility-side incoming signal to its output and monitors the looped signal with FAD A. If an equipment-side port is connected to the facility-side port, the A and B side transmission paths are split, a maintenance signal is inserted into the outgoing equipment-side signal, and the incoming equipment-side signal is terminated. If VTMAP=ASNYC, the inserted maintenance signal is unframed QRS. If VTMAP is any non-ASNYC value or the VT port is in a pass-through connection, the maintenance signal is AIS-V.
	MONE	Monitor Equipment-side, specifies a test which monitors the equipment-side port with FAD A.
	MONEF	Monitor Equipment-side and Facility-side, specifies a test which monitors the equipment-side port with FAD A and the facility-side port with FAD B.
	MONF	Monitor Facility-side, specifies a test which monitors the facility-side port with FAD A.
	SPLTA	Split A-side, specifies a test which splits the A-side signal path and connects it both to and from FAD A.
	SPLTB	Split B-side, specifies a test which splits the B-side signal path and connects it both to and from FAD A.
	SPLTE	Split Equipment-side, specifies a test depending on the value entered for TAP. When an STS-1 AID is entered for TAP, the equipment-side port is connected both to and from FAD A. If a facility-side port is connected to the equipment-side port, the A and B side transmission paths are split, a maintenance signal is inserted into the outgoing facility-side signal, and the incoming facility-side signal is terminated. If VTMAP=ASNYC, the inserted maintenance signal is unframed QRS. If VTMAP is any non-ASNYC value or

	the VT port is in a pass-through connection, the maintenance signal is AIS-V.
SPLTEF	Split Equipment-side and Facility-side, specifies a test which splits the A and B transmission paths (if existing) and connects the equipment-side port both to and from FAD A and the facility-side port both to and from FAD B.
SPLTF	Split Facility-side, specifies a test depending on the value entered for TAP. When an STS-1 AID is entered for TAP, the facility-side port is connected both to and from FAD A. If an equipment-side port is connected to the facility-side port, the A and B side transmission paths are split, a maintenance signal is inserted into the outgoing equipment-side signal, and the incoming equipment-side signal is terminated. If VTMAP=ASNYC, the inserted maintenance signal is unframed QRS. If VTMAP is any non-ASNYC value or the VT port is in a pass-through connection, the maintenance signal is AIS-V.
Restrictions:	CONN-TACC-VT1 is denied if MODE of {LOOPF, MONF, MONEF, SPLTEF, SPLTF} is entered and a facility-side connection does not exist. CONN-TACC-VT1 is denied if MODE of {SPLTA, SPLTB} is entered and a corresponding A-side or B-side connection does not exist.
AID1	<p>DS1_AID:</p> <p>{T1-{1-59392}} (T1-DS1#)</p> <p>{T3T1-{1-4800}-{1-28}} (T3T1-DS3#-DS1#)</p> <p>{EC1T1-{1-3840}-{1-28}} (EC1T1-EC1/STS1/DS3#-DS1#)</p> <p>{OC3T1-{1-2240}-{1-3}-{1-28}} (OC3T1-OC3#-STS1/DS3#-DS1#)</p> <p>{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}} (OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)</p> <p>VT1_AID:</p> <p>{EC1VT1-{1-3840}-{1-7}-{1-4}} (EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)</p> <p>{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}} (OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)</p> <p>{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}} (OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)</p> <p>Default: < null ></p> <p>Addressing: None</p> <p>Description: DS1 or VT1 AID, identifies the DS1 or VT1.5 facility-side port of a broadcast (bridge or conference) connection to be tested. A value for AID1 is only entered if the test is to be performed on a leg of a bridge or conference connection. If the AID specifies the drop side of a path switched ring and the AID1 is not specified, the DS1 or VT1.5 within the odd-numbered VT1.5 will be considered as the facility side. The facility-side port to test is automatically defined in all other cases.</p> <p>Restrictions: CONN-TACC-VT1 is denied if the DS1 or VT1.5 port specified for AID1 is not connected to the equipment-side port (AID port).</p>

LA	{Y, N}	
	Default:	{Y}
	Addressing:	None
	Description:	Link Association, specifies whether the test access connection is to be associated with the communication link being used by the user. Values are:
	Y	Yes, specifies that the test access connection is to be disconnected if the user logs off, if the user enters a REPT-INITZN command, if the communication link timer is enabled and expires, or if the APS control system re-boots.
	N	No, specifies that the test access connection is not disconnected regardless if the user logs off, if the user enters a REPT-INITZN command, if the communication link timer expires, or if the APS control system re-boots.

SUCCESSFUL RESPONSE FORMAT

The following is the successful response format for the CONN-TACC-VT1 command.

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  "<TAP>"
  "A, <TLS>"
  "B, <TLS>"
  "E, <VTMAP>"
  "F, <VTMAP>"
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

OUTPUT PARAMETERS

TLS	{NORM, TERM, <NoVal>}	
		Terminate and Leave Status, indicates whether the A side or B side VT1 port being tested is in a terminate and leave status as a result of a previous CHG-TL-DIG command. Values are:
	NORM	Normal, the A or B side port is not in a terminate and leave state.
	TERM	Terminated, the A or B side port is in a terminate and leave state.
	<NoVal>	No value is displayed, the A or B side connection does not exist.
VTMAP=	{ALL, ASYNC, VTBYTE, <NoVal>}	
		VT1.5 payload type. Determines the expected VT1.5 payload type and the value of the expected path signal label. Values are:
	ALL	Generic VT1.5 format. Contains payload of any mapping format. Since this value matches all signal label values, mismatch alarms can never be generated.
	ASYNC	VT Asynchronous mapping – VTFLOAT mode.
	VTBYTE	VT Byte synchronous mapping.
	<NoVal>	No value is displayed, the E side or F side is T1, or the F side does not exist.

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier /* AID cannot be provisioned as a FAD of a TAPP */
ITSN	Input, invalid/inactive Test Session Number /* TAPP belongs to another user */
RABY	Resource, All taps BusY /* No TAPP available for current user */
RCIN	Resource, requested Circuit Id does Not exist /* Cannot use specified mode because there is no A-Side */ /* Cannot use specified mode because there is no B-Side */
RTBY	Resource, requested Tap BusY
RTEN	Resource, requested Tap does Not Exist /* TAPP specified does not exist */
SCAT	Status, Circuit Already connected to another Tap
SCSN	Status, invalid Command SequeNce /* LOOP mode not allowed on terminated ports */
SDBE	Status, internal Data Base Error /* <DATABASE TYPE> Database Error: <STATUS> for <AID STRING> */ /* <DATABASE TYPE> Database Error: <STATUS> for record number <RECORD NUMBER> */ /* <DATABASE TYPE> Database Error: <STATUS> */
SDNC	Status, Data Not Consistent /* Cannot use specified mode because there is no Facility */
SNCC	Status, Not Cross-Connected
SNVS	Status, Not in Valid State /* Port <AID STRING> is in loopback */ /* Port <AID STRING> has a supported entity in loopback */ /* TACC not allowed on ports allowing CBIT */ /* TACC not allowed with ports in loopback */ /* TACC not allowed with ports under ROLL */ /* Cannot use specified mode because there is a Red-Lined connection */
SROF	Status, Requested Operation Failed /* No signal source is provisioned for UNCH QRS */
SRQN	Status, invalid ReQuest /* Cannot connect TACC when a supporting TP is connected */ /* Cannot do TACC if fault propagation is active */ /* Cannot connect TACC when a supporting TP under fault propagation */ /* Supporting port of <AID STRING> under fault propagation */ /* Cannot do TACC on Alternate Ring Port */ /* Port <AID STRING> under fault propagation */
SSRE	Status, System Resources Exceeded

EXAMPLES

In the following example, the CONN-TACC-VT1 establishes a monitor equipment-side test access connection, that will be disconnected if the user logs off, for VT1 port OC3VT1-5-2-7-4 to the FAD A Test Access port OC3VT1-3-3-3-2.

```
CONN-TACC-VT1::OC3VT1-5-2-7-4::OC3VT1-3-3-3-2:MONE::Y;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of Pae956. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed, and the TAP port that has been assigned by the system.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pae956 COMPLD
  "OC3VT1-3-3-3-2"
  "A, NORM"
  "B, NORM"
  "E, ALL"
  "F, ALL"
  /* CONN-TACC-VT1::OC3VT1-5-2-7-4::OC3VT1-3-3-3-2:MONE::Y [Pae956] (2)
*/
;
```

RELATED COMMANDS

```
CHG-ACCMD-VT1
CHG-TL-DIG
DISC-TACC
DISC-TACC-PRVG
ENT-VT1
REPT-INITZN
REPT-STAT
RST-TAP-DIG
RTRV-CRS
RTRV-CRS-VT1
RTRV-POOL
RTRV-RDL-ALL
RTRV-TACC
RTRV-VT1
```


COMMAND CODE: **CPY-MEM**
COMMAND NAME: **COPY MEMORY**

PURPOSE

The CPY-MEM command instructs the Network Element to copy data from a specific memory storage to another. The command will copy the LAN stack-related parameters from the entered DSB to its redundant DSB.

The proper sequence of using the CPY-MEM command is:

1. Logically remove the standby DSB using RMV-EQPT.
2. Change the upper layer common parameters using ED-ULCOMPMR.
3. Synchronize the changed parameters of the in-service DSB using CPY-MEM.
4. Restore the standby DSB to service using RST-EQPT.

The following areas are copied to the other DSB when the CPY-MEM command is used.

1. Manual Area Address
2. Lower Level LAN
3. Upper Level common parameters
4. Upper Level LAN
5. TARP Adjacency table

On successful completion of CPY-MEM, the system will copy the MEMCLASS type of memory on the module specified by the DSB to its redundant module.

A CPY-MEM command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

CPY-MEM: [TID] :AID: [CTAG] : : [MEMCLASS=] ;

INPUT PARAMETERS

TID	<p><1-20 VALID TID CHARACTERS></p> <p>Default: <SID></p> <p>Addressing: None</p> <p>Description: Target Identifier, specifies the network node TID for the command.</p>
AID	<p>EQUIPMENT_AID:</p> <p>{DSB-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{1-2}}</p> <p>Default: Entry Required</p> <p>Addressing: None</p> <p>Description: DSB AID, identifies the DSB of the module whose memory is going to be copied.</p>
CTAG	<p><1-6 VALID CTAG CHARACTERS></p> <p>Default: <System Assigned CTAG Value></p> <p>Addressing: None</p> <p>Description: Correlation Tag, associates input command with its output responses.</p>
MEMCLASS=	<p>{STACK}</p> <p>Default: {STACK}</p> <p>Addressing: None</p> <p>Description: Memory Class, specifies the type of memory to be copied. Values are: STACK Stack parameters are to be copied.</p>

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent /* Unable to read aux buffer for <AID> */
IIAC	Input, Invalid ACcess identifier /* Invalid or unassigned equipment identifier specified. */
SARB	Status, All Resources Busy /* Command already in progress on equipment. */ /* Automatic system configuration active on equipment. */ /* Automatic configuration (database download) of parent processor in progress. */ /* Level 2 processor software download in progress. Try again later. */ /* INIT-SYS command still active on shelf that equipment is on. */
SDBE	Status, internal Data Base Error /* Data base access failure. */ /* Unable to read the LANDCC database. */ /* Unable to read the mate DSB database. */ /* Unable to read the mate LANDCC database. */ /* Unable to update the mate LANDCC database. */

EXAMPLES

In the following example, the LAN stack-related parameters on the DSB is copied to its redundant DSB.

```
CPY-MEM::DSB-6-1-1:::MEMCLASS= STACK;

<SID> <YY-MM-DD> <HH:MM:SS>
M P73013 COMPLD
  /* The CPY-MEM for DSB-6-1-1 was completed. */
  /* CPY-MEM::DSB-6-1-1:::MEMCLASS= STACK [P73013] (1) */
```

RELATED COMMANDS

```
RMV-EQPT
ED-ULCOMPMR
RST-EQPT
```

COMMAND CODE: **DGN-EQPT**
COMMAND NAME: **DIAGNOSE EQUIPMENT**

PURPOSE

The DGN-EQPT command executes selected diagnostic tests (test phases) on the specified equipment entity. All test phases or a specific test phase, the number of test iterations, and whether the test terminates on the first detected error may be specified.

The successful response to a DGN-EQPT command contains a line of non-parsable output data which indicates the time of the last diagnostics, a line which indicates the overall testing pass/fail status of all executed test phases, a line for the pass/fail status of each test phase executed, and a line for each test phase that failed or had inconclusive test results.

In addition to being reported in the successful response message, the results of a DGN-EQPT command are stored on the system disk. Test results stored on the system disk can subsequently be retrieved by a RTRV-DGN-STATUS command.

A test phase that is potentially service affecting is not executed unless the specified equipment entity is installed (does not have a SST of UEQ) and in an out-of-service state (an equipment PST of OOS-AU (except for a SPB circuit pack) or OOS-MA).

If multiple iterations of an all-phases diagnostic test is specified, each test phase is executed for the specified number of iterations before testing continues to the next test phase. The response output indicates the results of the last test iteration for the test phases executed.

Results of DGN-EQPT are always inconclusive for any ACL link statistics test phase that is supported on a CIM. The results of any ACL link statistics test phase (e.g., number of link transmissions per unit interval) are reported as non-parsable free-format text in that particular test phase's <Result_Reason> output block.

A DGN-EQPT command is denied if:

- The specified equipment entity is not provisioned (via the ENT-EQPT command).
- The specified equipment entity is not installed (an equipment SST of UEQ).
- The specified equipment entity is a level 2 processor in a non-IS state (an equipment PST of OOS or SST of STBY)
- A diagnostic test is currently in-progress on the specified equipment entity.
- An invalid parameter value is entered.

INPUT FORMAT

DGN-EQPT: [TID] : AID: [CTAG] : : [PH] , [ITER] , [TERMT] ;

INPUT PARAMETERS

TID	<1-20 VALID TID CHARACTERS> Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	EQUIPMENT_AID: {ACM-1-2-{3-7, 10-14}} {CDA-{4, 5, 10, 11, 16, 17, 22, 23, 102, 103}-3-1} {CDB-{5}-{1, 3}-{1, 2}} CDB-{2-43, 104-111, 112-135, 136-141}-{1, 3}-{1, 2} {SI36: CDB-{6-9, 12-15, 18-21, 24-43}-{1, 3}-{1-2}, SI48: CDB-{2-43, 104-111, 112-135, 136-141}-{1, 3}-{1, 2}} {CIM-1-2-{3-7, 10-14}} {CPU-1-2-{1-2}}

{DSB-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{1-2}}
 {DSI-{44-63}-{1-4}-{1-32}}
 {DSK-1-3-1,
 DSK-1-4-2}
 {EOB-{5}-{1, 3}-{1-5}}
 {SI48: EOB-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{1-2},
 EOC: EOB-{4-5, 10-11, 16-17, 22-23, 102, 103}-1-{1-7, 9-15}}
 {SI48: EP3-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42,
 104-106, 108-110, 136-141}-{1, 3}-{1-18},
 EP3-{9, 21, 35, 43, 107}-3-{1-18},
 EP3-{15, 27, 31, 39, 111}-1-{1-18}}
 {SI36: EP3-{6-8, 12-14}-{1, 3}-{1-14},
 EP3-9-3-{1-14},
 EP3-15-1-{1-14}}
 {SI48: ES1-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42,
 104-106, 108-110, 136-141}-{1, 3}-{1-18},
 ES1-{9, 21, 35, 43, 107}-3-{1-18},
 ES1-{15, 27, 31, 39, 111}-1-{1-18}}
 {SI36: ES1-{6-8, 12-14}-{1, 3}-{1-14},
 ES1-9-3-{1-14},
 ES1-15-1-{1-14}}
 {ESA-{44-63}-{1-4}-{1-2}}
 {FAN-{1, 101}-0-1},
 FAN-{2-63, 102-111, 112-135, 136-141}-{1-3}-1}
 {HMU-{44-53}-{1-4}-{1-8}}
 {ICM-1-2-{1, 2, 8, 9}}
 {IOB-{6-8, 12-14}-{1, 3}-{1, 3, 5, 7},
 IOB-9-3-{1, 3, 5, 7},
 IOB-15-1-{1, 3, 5, 7}}
 {IPB-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{1-2}}
 {IPU-{44-63}-{1-4}-{1-8}}
 {LMU-{44-53}-{1-4}-{1-32}}
 {LT1-1-1-{1-6}}
 {LT2-1-1-{1-6}}
 {LT4-1-1-{7-16}}
 {LT5-1-1-{2-6}}
 {LT8-1-1-{7-16}}
 {M16-{2-5, 10-11, 16-17, 22-23}-3-{1-16}}
 {M32-{4-5, 10-11, 16-17, 22-23, 102, 103}-3-{1-16},
 M32-{5}-{1, 3}-{1-3, 6-8}}
 {M40-{2-3}-{1, 3}-{1-16}}
 {M40-{5}-{1, 3}-{4, 5, 9, 10}}
 {MCB-{2,3}-3-1}
 {MCB-{5}-{1, 3}-{1}}
 {O1B-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{2-9, 11-18}}
 {O4M-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{2-3, 11-12}}
 {OPD-1-3-1,
 OPD-1-4-2}
 {OXB-{44-63}-{1-4}-{1-2}}
 {P39-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{1-3},
 P39-{4, 5, 10, 11, 16, 17, 22, 23, 102, 103}-1-{1-3},
 P39-{4, 5, 10, 11, 16, 17, 22, 23, 102, 103}-3-{1-4},
 P39-{5}-{1, 3}-{1-4}}
 {P56-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{1-5},

P56 – {2–3} – {1, 3} – {1–4},
P56 – {4, 5, 10, 11, 16, 17, 22, 23, 102, 103} – 1,3 – {1–5},
P56 – {5} – {1, 3} – {1–4}}
{PDU – {2–43, 102–111, 112–135, 136–141} – 0–1}
{PRT – {44–63} – {1–4} – {8, 16, 24, 32}}
{PSF – 1 – {3, 4} – {1, 2},
PSF – {44–63} – {1–4} – {1–2}}
{PST – 1 – {3, 4} – {1–2}}
{RDU – {44–63} – 0–1}
{RPB – {6–9, 12–15, 18–21, 24–43, 104–111, 112–135, 136–141} – {1, 3} – {1–2}}
{RSP – {1, 101} – 0–1}
{S3M – {6–9, 12–15, 18–21, 24–43, 104–111, 112–135, 136–141} – {1, 3} – {4–9, 13–18}}
{SBT – 1 – 2 – {1–4}}
{SHELF – {4–43, 102–141} – {1, 3} – 1}
{SHELF – {5} – {1, 3} – {1}}
{SIO – 1 – 2 – {1–2, 8–9}}
{SPB – {2–43, 102–111, 112–135, 136–141} – {1, 3} – {1–2}}
{SPB – {5} – {1, 3} – {1, 2}}
{SWI – {44–63} – {1–4} – {1–7, 9–15, 17–23, 25–31}}
Default: Entry Required
Addressing: None
Description: Equipment AID, identifies the equipment entity. Refer to Appendix B, Access Identifiers (AIDs) for a definition of equipment mnemonics.

CTAG <1–6 VALID CTAG CHARACTERS>
Default: <System Assigned CTAG Value>
Addressing: None
Description: Correlation Tag, associates input command with its output responses.

PH {1–16}
Default: <All test phases allowed for the present state of the equipment entity>
Addressing: None
Description: Test Phase, identifies the diagnostic test to be executed. A test phase that is potentially service affecting is not executed unless the specified equipment entity is installed and out-of-service (PST of OOS–AU or OOS–MA). Test phase values, the name of each test phase, and whether the test phase is service affecting, are shown below for each equipment entity:

PH	Service Affect	Test Phase Name
For an ACM (Administrative Communications Module circuit pack):		
1	Non-Service Affecting	Card Presence and Card ID Test
2	<i>Service Affecting</i>	ACM Main processor RAM Test
3	<i>Service Affecting</i>	ACM SBI Shared RAM Test
8	<i>Service Affecting</i>	ACM Com 0 68360 Device Test
11	<i>Service Affecting</i>	ACM Minnie Gate Array Test
12	<i>Service Affecting</i>	ACM Configurator Device Test
For a CDA (Clock Distribution A circuit pack):		
1	Non-Service Affecting	Card Presence and Card ID Test
2	Non-Service Affecting	Fuse Test
For a CDB (Clock Distribution B circuit pack):		
1	Non-Service Affecting	Card Presence and Card ID Test
2	Non-Service Affecting	Fuse Test
3	Non-Service Affecting	CDB Module Test
4	Non-Service Affecting	ICL Communications Test
5	Non-Service Affecting	Phase Locked Loop / Clock Test
6	<i>Service Affecting</i>	Clock Switch Forced/Auto Test
For a CIM (Communications Interface Module circuit pack):		
1	Non-Service Affecting	Card Presence and Card ID Test
2	Non-Service Affecting	CIM SBI Test
3	<i>Service Affecting</i>	Powerup Parity Test
4	<i>Service Affecting</i>	Powerup Write Protection Test
5	<i>Service Affecting</i>	Powerup Gate Array Interface Test
6	<i>Service Affecting</i>	Powerup PIC Test
7	<i>Service Affecting</i>	Powerup ICL Test
8	<i>Service Affecting</i>	Powerup DMA Test
9	<i>Service Affecting</i>	Powerup ACL Test
10	<i>Service Affecting</i>	Powerup RAM Test
11	<i>Service Affecting</i>	Powerup ROM Test
12	<i>Service Affecting</i>	Powerup Firmware Test
For a CPU (Central Processing Unit circuit pack):		
1	Non-Service Affecting	Card Presence and Card ID Test
2	<i>Service Affecting</i>	CPU Powerup RAM Test
3	<i>Service Affecting</i>	CPU Powerup ROM Test
4	<i>Service Affecting</i>	CPU Powerup Firmware Test
5	<i>Service Affecting</i>	CPU Powerup Interval Test

PH	Service Affect	Test Phase Name
6	<i>Service Affecting</i>	CPU Powerup RT Clock Test
7	<i>Service Affecting</i>	CPU Powerup SBI Test
8	<i>Service Affecting</i>	CPU Powerup ICL Test
For a DSB (DCC Server Board circuit pack):		
1	Non-Service Affecting	Card Presence and Card ID Test
2	Non-Service Affecting	Fuse Test
3	Non-Service Affecting	Load Check
4	Non-Service Affecting	Processor Bus Test
5	Non-Service Affecting	DSB EEPROM Test
6	Non-Service Affecting	DSB LAPD Statistics Check
7	Non-Service Affecting	DSB Sub-board Control Logic Test
8	Non-Service Affecting	DSB LAPD Bank controller Test
9	<i>Service Affecting</i>	DSB Front-end Read/Write Test
10	Non-Service Affecting	DSB LAPD Monitor Test
11	Non-Service Affecting	DSB LAN Monitor Test
12	Non-Service Affecting	DSB MAC Address Test
13	<i>Service Affecting</i>	DSB LAN Self Test
For a DSI (DS1 I/O):		
1	Non-Service Affecting	Card Presence and Card ID Test
2	Non-Service Affecting	SWI/PRT Card Presence Test
3	Non-Service Affecting	ICL Address Test
4	Non-Service Affecting	I/O In-Service Connect ID
5	Non-Service Affecting	In-Service Status
6	<i>Service Affecting</i>	I/O Out-of-Service Connect ID
7	<i>Service Affecting</i>	Out-of-Service Status
8	<i>Service Affecting</i>	Parity Error
9	<i>Service Affecting</i>	Positive and Negative Data Monitor
For a DSK (Disk Drive):		
1	Non-Service Affecting	DSK Presence Check
2	Non-Service Affecting	DSK Inquiry
3	Non-Service Affecting	DSK Unit Ready
4	Non-Service Affecting	DSK Self Diagnostic
5	Non-Service Affecting	DSK Read Capacity
6	Non-Service Affecting	DSK Media Installed
7	Non-Service Affecting	DSK Device Type Check
8	Non-Service Affecting	DSK Label Check

PH	Service Affect	Test Phase Name
9	Non-Service Affecting	DSK Partition Check

PH	Service Affect	Test Phase Name
For an EOB (Electrical Optical Board):		
1	Non-Service Affecting	Card Presence and Card ID Test
2	Non-Service Affecting	Fuse Test
3	Non-Service Affecting	ICL Communications Test
4	Non-Service Affecting	EOB Module Test
5	Non-Service Affecting	Clock and Frame Test
6	Non-Service Affecting	GTI Conversion Test
7	Non-Service Affecting	Serial/Parallel Converter Test
8	Non-Service Affecting	Optical Receive Test
9	Non-Service Affecting	Optical Transmit Test
For an EP3 (Electrical Plesiochronous DS3/STS1 circuit pack):		
1	Non-Service Affecting	Card Presence and Card ID Test
2	Non-Service Affecting	Fuse Test
3	Non-Service Affecting	Load Check
4	Non-Service Affecting	Processor Bus Test
5	Non-Service Affecting	Memory Transfer Link Bus Test
6	Non-Service Affecting	EP3 Module Test
7	Non-Service Affecting	Clock and Frame Test
8	Non-Service Affecting	Duplex to Simplex Converter Test
9	Non-Service Affecting	STM Signal Process Test
10	Non-Service Affecting	Serial/Parallel Converter Test
11	Non-Service Affecting	Multiplexer / Demultiplexer Test
For an ES1 (Electrical Plesiochronous STS1 circuit pack):		
1	Non-Service Affecting	Card Presence and Card ID Test
2	Non-Service Affecting	Fuse Test
3	Non-Service Affecting	Load Check
4	Non-Service Affecting	Processor Bus Test
5	Non-Service Affecting	Memory Transfer Link Bus Test
6	Non-Service Affecting	ES1 Module Test
7	Non-Service Affecting	Clock and Frame Test
8	Non-Service Affecting	Duplex to Simplex Converter Test
9	Non-Service Affecting	STM Signal Process Test
10	Non-Service Affecting	Serial/Parallel Converter Test
11	Non-Service Affecting	Multiplexer / Demultiplexer Test
For an ESA (External DS1 Signal Adapter circuit pack):		
1	Non-Service Affecting	Card Presence and Card ID Test

PH	Service Affect	Test Phase Name
For a FAN (Fan/Blower assembly):		
1	Non-Service Affecting	Card Presence and Card ID Test
2	Non-Service Affecting	FAN Failure Test
For an HMU (High Speed Muldem Unit (M23 multiplexing) circuit pack):		
1	Non-Service Affecting	Card Presence and Card ID Test
2	Non-Service Affecting	ICL Address Test
3	Non-Service Affecting	In Service Status
4	<i>Service Affecting</i>	Out of Service Status
5	<i>Service Affecting</i>	X-Bit Detect
6	<i>Service Affecting</i>	Match Error Detect
7	<i>Service Affecting</i>	Loss of Signal / Frame
For an ICM (Intelligent Communications Module circuit pack):		
1	Non-Service Affecting	Card Presence and Card ID Test
2	<i>Service Affecting</i>	ICM Main processor RAM Test
3	<i>Service Affecting</i>	ICM SBI Shared RAM Test
4	<i>Service Affecting</i>	ICM Com 1 Processor RAM Test
5	<i>Service Affecting</i>	ICM Com 2 Processor RAM Test
6	<i>Service Affecting</i>	ICM Com 1 Exchange RAM Test
7	<i>Service Affecting</i>	ICM Com 2 Exchange RAM Test
8	<i>Service Affecting</i>	ICM Com 0 68360 Device Test
11	<i>Service Affecting</i>	ICM Minnie Gate Array Test
12	<i>Service Affecting</i>	ICM Configurator Device Test
For an IOB (Inter-rack Optical Board):		
1	Non-Service Affecting	Card Presence and Card ID Test
2	Non-Service Affecting	Fuse Test
3	Non-Service Affecting	ICL Communications Test
4	Non-Service Affecting	IOB Module Test
5	Non-Service Affecting	Clock and Frame Test
6	Non-Service Affecting	Clock Delay Test
7	Non-Service Affecting	GTI Conversion Test
8	Non-Service Affecting	Serial/Parallel Converter Test
9	Non-Service Affecting	Optical Receive Test
10	Non-Service Affecting	Optical Transmit Test

PH	Service Affect	Test Phase Name
For an IPB (Internal Protection Board circuit pack):		
1	Non-Service Affecting	Card Presence and Card ID Test
2	Non-Service Affecting	Fuse Test
3	Non-Service Affecting	ICL Communications Test
4	<i>Service Affecting</i>	IPB Module Test
5	Non-Service Affecting	Clock and Frame Test
6	Non-Service Affecting	Switch Matrix Test
For an IPU (Interface Processor Unit):		
1	Non-Service Affecting	Card Presence and Card ID Test
2	Non-Service Affecting	ICL Communications Test
3	Non-Service Affecting	ACL Communications Test
For an LMU (Low Speed Muldem Unit (M12 multiplexing) circuit pack):		
1	Non-Service Affecting	Card Presence and Card ID Test
2	Non-Service Affecting	ICL Address Test
3	Non-Service Affecting	I/O In Service Connect ID
4	Non-Service Affecting	In Service Status
5	<i>Service Affecting</i>	I/O Out of Service Connect ID
6	<i>Service Affecting</i>	Out of Service Status
7	<i>Service Affecting</i>	Parity Error
8	<i>Service Affecting</i>	X-Bit Detect
9	<i>Service Affecting</i>	Match Error Detect
For an LT1 (Level 1 Translator (RS-232) circuit pack):		
1	Non-Service Affecting	Card Presence and Card ID Test *
For an LT2 (Level 2 Translator (RS-449/422) circuit pack):		
1	Non-Service Affecting	Card Presence and Card ID Test *
For an LT4 (Level 4 Translator (ACL) circuit pack):		
1	Non-Service Affecting	Card Presence and Card ID Test *
For an LT5 (Level 5 Translator (RS-449/LAN) circuit pack):		
1	Non-Service Affecting	Card Presence and Card ID Test *
For an LT8 (Level 8 Translator (ACL) circuit pack):		
1	Non-Service Affecting	Card Presence and Card ID Test *
2	TBD...	
* Note: LT card test phases are dependant on the parent SBI card. For example, a provisioned LT4 card in slot 16 cannot have diagnostics run if there is not an In-Service CIM in either slot 7 or 14.		

PH	Service Affect	Test Phase Name
For an M16 (Matrix 16 circuit pack):		
1	Non-Service Affecting	Card Presence and Card ID Test
2	Non-Service Affecting	Fuse Test
3	Non-Service Affecting	Load Check
4	Non-Service Affecting	Processor Bus Test
5	<i>Service Affecting</i>	M16 Module Test
6	Non-Service Affecting	Clock and Frame Test
7	Non-Service Affecting	Basic Switching Test
8	Non-Service Affecting	Serial/Parallel Converter Test
For an M32 (Matrix 32 circuit pack):		
1	Non-Service Affecting	Card Presence and Card ID Test
2	Non-Service Affecting	Fuse Test
3	Non-Service Affecting	Load Check
4	Non-Service Affecting	Processor Bus Test
5	Non-Service Affecting	M32 Module Test
6	Non-Service Affecting	Clock and Frame Test
7	Non-Service Affecting	Basic Switching Test
8	Non-Service Affecting	Serial/Parallel Converter Test
For an M40 (Matrix 40 circuit pack):		
1	Non-Service Affecting	Card Presence and Card ID Test
2	Non-Service Affecting	Fuse Test
3	Non-Service Affecting	Load Check
4	Non-Service Affecting	Processor Bus Test
5	Non-Service Affecting	M40 Module Test
6	Non-Service Affecting	Clock and Frame Test
7	Non-Service Affecting	Framer Test
8	Non-Service Affecting	Space Switching Test
For an MCB (Master Clock Board circuit pack):		
1	Non-Service Affecting	Card Presence and Card ID Test
2	Non-Service Affecting	Fuse Test
3	Non-Service Affecting	ICL Communications Test
4	Non-Service Affecting	MCB Crystal Oscillator Oven Test
5	Non-Service Affecting	MCB Module Test
6	Non-Service Affecting	DS1 Interface Test
7	Non-Service Affecting	Clock Recovery / Generation Test
8	Non-Service Affecting	Application Firmware ID Check

PH	Service Affect	Test Phase Name
9	<i>Service Affecting</i>	External Partner Timing Ref Test *
10	<i>Service Affecting</i>	Ext SF Timing Reference 0 Test *
11	<i>Service Affecting</i>	Ext ESF Timing Reference 0 Test *
12	<i>Service Affecting</i>	Ext SF Timing Reference 1 Test *
13	<i>Service Affecting</i>	Ext ESF Timing Reference 1 Test *
* Note: MCB test phases 9 through 13 are only executed when explicitly requested by entering a PH value of {9–13}, respectively.		
For an O1B (Optical Interface Level 1 (OC–3) Board circuit pack):		
1	Non–Service Affecting	Card Presence and Card ID Test
2	Non–Service Affecting	Fuse Test
3	Non–Service Affecting	Load Check
4	Non–Service Affecting	Processor Bus Test
5	Non–Service Affecting	Memory Transfer Link Bus Test
6	Non–Service Affecting	O1B Module Test
7	Non–Service Affecting	Clock and Frame Test
8	Non–Service Affecting	Duplex to Simplex Converter Test
9	Non–Service Affecting	STM Signal Process Test
10	Non–Service Affecting	Serial / Parallel Converter Test
11	Non–Service Affecting	Multiplexer / Demultiplexer Test
12	Non–Service Affecting	Optical Transmit Test
13	Non–Service Affecting	Optical Receive Test
For an O4M (OC–12 Muldem circuit pack):		
1	Non–Service Affecting	Card Presence and Card ID Test
2	Non–Service Affecting	Fuse Test
3	Non–Service Affecting	Load Check
4	Non–Service Affecting	Processor Bus Test
5	Non–Service Affecting	Memory Transfer Link Bus Test
6	Non–Service Affecting	O4M Module Test
7	Non–Service Affecting	Clock and Frame Test
8	Non–Service Affecting	Duplex to Simplex Converter Test
9	Non–Service Affecting	STM Signal Process Test
10	Non–Service Affecting	Serial / Parallel Converter Test
11	Non–Service Affecting	Multiplexer / Demultiplexer Test
12	Non–Service Affecting	Optical Transmit Test
13	Non–Service Affecting	Optical Receive Test
For an OPD (Optical Disk Drive):		

PH	Service Affect	Test Phase Name
1	Non-Service Affecting	Card Presence and Card ID Test
2	Non-Service Affecting	SCSI Test
For an OXB (Optical Transceiver Board circuit pack):		
1	Non-Service Affecting	Card Presence Test
2	Non-Service Affecting	Fuse Test
3	Non-Service Affecting	Load Check
4	Non-Service Affecting	OXB Module Test
5	Non-Service Affecting	ICL Communications Test
6	Non-Service Affecting	ICL Address Test
7	Non-Service Affecting	GTI Conversion Test
8	Non-Service Affecting	TSI Translator Test
9	Non-Service Affecting	GTI to SFF Mapping Test
10	Non-Service Affecting	Clock Recover / Generation Test
For a P39 (Power Supply, 3.9V circuit pack):		
1	Non-Service Affecting	Card Presence and Card ID Test
2	Non-Service Affecting	Fuse Test
For a P56 (Power Supply, 5.6V circuit pack):		
1	Non-Service Affecting	Card Presence and Card ID Test
2	Non-Service Affecting	Fuse Test
For a PDU (Power Distribution Unit):		
1	Non-Service Affecting	Card Presence and Card ID Test
For a PRT (DSI Protection Circuit pack):		
1	Non-Service Affecting	Card Presence Test
For a PSF (Power Supply, 5V circuit pack):		
1	Non-Service Affecting	Card Presence and Card ID Test
2	Non-Service Affecting	PSF Alarm Bit Test
For a PST (Power Supply, 12V circuit pack):		
1	Non-Service Affecting	Card Presence and Card ID Test
2	Non-Service Affecting	PST Alarm Bit Test
For an RDU (Rack Distribution Unit):		
1	Non-Service Affecting	Card Presence Test
For an RPB (Ring Protection Board circuit pack):		
1	Non-Service Affecting	Card Presence and Card ID Test
2	Non-Service Affecting	Fuse Test
3	Non-Service Affecting	Load Check

PH	Service Affect	Test Phase Name
4	Non-Service Affecting	Memory Transfer Link Bus Test
5	Non-Service Affecting	RPB Module Test
6	Non-Service Affecting	Clock and Frame Test
7	Non-Service Affecting	IO Serial/Parallel Converter Test
8	Non-Service Affecting	IO Path Switch Test
9	Non-Service Affecting	IO to MTX Serial Test
10	Non-Service Affecting	MTX Serial/Parallel Converter Test
11	Non-Service Affecting	MTX Path Switch Test
12	Non-Service Affecting	MTX to IO Serial Test
13	Non-Service Affecting	MTX to IO Continue Test
For an RSP (Rack Status Panel):		
1	Non-Service Affecting	Card Presence and Card ID Test
2	Non-Service Affecting	Alarm Bit Test
For an S3M (STS3 Module):		
1	Non-Service Affecting	Card Presence and Card ID Test
2	Non-Service Affecting	Fuse Test
3	Non-Service Affecting	Load Check
4	Non-Service Affecting	Processor Bus Test
5	Non-Service Affecting	Memory Transfer Link Bus Test
6	Non-Service Affecting	S3M Module Test
7	Non-Service Affecting	Clock and Frame Test
8	Non-Service Affecting	Duplex to Simplex Converter Test
9	Non-Service Affecting	STM Signal Process Test
10	Non-Service Affecting	Serial / Parallel Converter Test
11	Non-Service Affecting	Multiplexer / Demultiplexer Test
12	Non-Service Affecting	Optical Transmit Test
13	Non-Service Affecting	Optical Receive Test
For an SBT (System Bus Termination circuit pack):		
1	Non-Service Affecting	Card Presence and Card ID Test
For a SHELF (CS, EOC, ES, I/O Shelf Equipment Entity):		
1	Non-Service Affecting	Backplane Terminator Test
For an SIO (Serial Input/Output circuit pack):		
1	Non-Service Affecting	Card Presence and Card ID Test
2	Non-Service Affecting	System Bus Interface Test
3	Service Affecting	SIO RAM Test

PH	Service Affect	Test Phase Name
For an SPB (Satellite Processor Board circuit pack):		
1	Non-Service Affecting	Card Presence and Card ID Test
2	Non-Service Affecting	Shelf P-Bus Test
3	Non-Service Affecting	Shelf ICL Bus Test
4	Non-Service Affecting	Shelf MTL Bus Test
5	Non-Service Affecting	Shelf RI Bus Test
6	Non-Service Affecting	ACL Communications Test
For an SWI (DSI Switch Circuit pack):		
1	Non-Service Affecting	Card Presence Test

Restrictions: DGN-EQPT is denied if a value for PH is entered that is not supported for the specified AID.

ITER	{1-20}	
	Default:	{1}
	Addressing:	None
	Description:	Test Iterations, specifies how many times the diagnostic tests are executed. Each test phase is executed for the specified number of iterations before executing another test phase (if multiple iterations of a multiple phase diagnostic test is specified).
TERMT	{IMED, NORM}	
	Default:	{NORM}
	Addressing:	None
	Description:	Terminate Test, specifies whether the diagnostic test is terminated on detection of the first error or executed to completion with the possibility of detecting multiple errors. Values are:
	IMED	Immediate, terminate the tests on the first detected error.
	NORM	Normal, execute all tests to completion and report the results of the last test iteration for the test phases executed.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
/* Time of Last Diag: <Diag_Dat_Tm> */
/* Card <Test_Result> */
/* <Phase_Number> <Phase_Name> : <Phase_Result> */
[/* <Phase_Number> Reason: <Result_Reason> */
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

Note: The line of text containing the <Result_Reason> is provided for each test phase with a <Test_Result> of either "Failed" or "Inconclusive".

OUTPUT PARAMETERS

Diag_Dat_Tm {YY-MM-DD HH:MM:SS{ {00-99}-{1-12}-{1-31} {00-23}:{00-59}:{00-59} } }

Diagnostic Date and Time, identifies the date and time when the last diagnostic was executed. The format for DIAG_DAT_TM is <YEAR> - <MONTH> - <DAY>^<HOUR>:<MINUTE>:<SECOND> (where ^ indicates a space).

Test_Result	{Failed, Passed}	Test Result, indicates the overall testing pass/fail status of all executed test phases.
	Failed	Failed, some or all of the executed test phases failed.
	Passed	Passed, all of the executed test phases passes.
Phase_Number	{1–16}	Test Phase, identifies the diagnostic test phase that was executed. Refer to the PH input parameter values for the test phases that can be executed for each circuit pack.
Phase_Name	<Name of the test phase that was executed>	Phase Name, identifies the name of the test phase that was executed. Refer to the PH input parameter values for the test phases that can be executed for each circuit pack.
Phase_Result	{Failed, Inconclusive, Invalid State for Test, Passed}	Test Result, indicates the result of each phase of the diagnostic test. Values are:
	Failed	Failed, the equipment entity failed this test phase.
	Inconclusive	Inconclusive, the results of this test phase are inconclusive for the reason described by <Result_Reason>.
	Invalid State for Test	This test phase was not executed because the equipment entity is in an invalid state for this test.
	Passed	Passed, the equipment entity passed the last iteration of this test phase.
Result_Reason	<Reason for a Failed or Inconclusive Test Result>	Failed/Inconclusive Result Reason, indicates the reason the Test_Result was either “Failed” or “Inconclusive”. Note, this information is useful to Alcatel repair personnel and may or may not be useful to a craft person.

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

ENRE	Equipment, Not Recognized Equipment
	/* Invalid or unassigned equipment identifier specified. */
ICNV	Input, Command Not Valid
	/* Invalid command requested on equipment. */
	/* DGN-EQPT cannot be performed on a CIM. */
IPNV	Input, Parameter Not Valid
	/* Invalid phase request. */
	/* Destructive test is not allowed on card in service. */
	/* In-service test will not run properly on card out of service. */
	/* Invalid iteration request. */
	/* Invalid termination request. */
SARB	Status, All Resources Busy
	/* IPU unable to perform diagnostic, try again later. */
SDAS	Status, Diagnostics Already Started
	/* Diagnostic currently in progress on specified module. */

SDBE Status, internal Data Base Error
 /* Error reading <type-bay-shelf-slot> data base */
SNVS Status, Not in Valid State
 /* Card is in incorrect state for diagnostic request. */
SROF Status, Requested Operation Failed
 /* ACL Message Rejection Error */
 /* Level 2 Processor Not Responding */
 /* Manual diagnostic request time out. */

EXAMPLES

In the following example, 15 iterations of test phase # 2 are executed on EP3-7-3-1 with testing terminated on the first test phase that encounters a failure.

```
DGN-EQPT::EP3-7-3-1:::2,15,IMED;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of Pad567. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

The "Card Passed" result in the output response indicates only the analysis of the single test phase.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pad567 COMPLD
/* Time of Last Diag: <96-07-12> <15:04:59> */
/* Card Passed. */
/* 2 Fuse Test : Passed */
/* DGN-EQPT::EP3-7-3-1:::2,15,IMED [Pad567] (2) */
;
```

In the following example, a single iteration of all allowable diagnostic test phases are executed on EP3-7-3-1 with testing terminated after all test phases have executed.

```
DGN-EQPT::EP3-7-3-1;
```

The output response, shown below, assumes CID 4 was used to enter the command and a system generated CTAG value of Pad569. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pad569 COMPLD
/* Time of Last Diag: <96-07-12> <15:20:13> */
/* Card Passed */
/* 1 Card Presence and Card ID Test : Passed */
/* 2 Fuse Test : Passed */
/* 3 Load Check : Passed */
/* 4 Processor Bus Test : Passed */
/* 5 Memory Transfer Link Bus Test : Passed */
/* 6 EP3 Module Test : Passed */
/* 7 Clock and Frame Test : Passed */
/* 8 Duplex to Simplex Converter Test : Passed */
/* 9 STM Signal Process Test : Passed */
/* 10 Serial/Parallel Converter Test : Passed */
/* 11 Multiplexer / Demultiplexer Test : Passed */
/* DGN-EQPT::EP3-7-3-1 [Pad569] (4) */
;
```

RELATED COMMANDS

ALW-FL-EQPT
DLT-EQPT
ED-EQPT
ENT-EQPT
FLTLOC-PATH-STS1
FLTLOC-PATH-STS3C
FLTLOC-PATH-T1
FLTLOC-PATH-T3
FLTLOC-PATH-VT1
INH-FL-EQPT
RMV-EQPT
RST-EQPT
RTRV-DGN-STATUS
RTRV-EQPT
RTRV-FL-EQPT
RTRV-PATH-STS1
RTRV-PATH-STS3C
RTRV-PATH-T1
RTRV-PATH-T3
RTRV-PATH-VT1
RTRV-STATE-EQPT
RTRV-XIDMISM

COMMAND CODE: **DISC-TACC**
COMMAND NAME: **DISCONNECT TEST ACCESS**

PURPOSE

The DISC-TACC command disconnects an existing Test Access port connection established by the user from the ports being tested. After DISC-TACC is executed, the disconnected Test Access Port Pairs (TAPPs) are available for other test access operations.

For this command, the Test Access Port Pair (TAPP) identified as the TAP must be in use by the user. No user is allowed to disconnect a TAPP assigned from the Public or Private pool that is in use by another user with this command, unless they are the system administrator or the same executor of the corresponding CONN-TACC-T1/T3/STS1/VT1 command (see DISC-TACC-PRVG command).

If a Test Access port AID is specified for TAP in the DISC-TACC command, the terminate-and-leave status of any A-side and B-side cross-connection is returned in the successful response message.

Executing a DISC-TACC command removes the SST values of BUSY and TS from the assigned TAPP and the SST value of TS from any equipment-side and facility-side ports involved in the test access operation. If a cross-connection exists, the cross-connection SST of TS is removed from the cross-connection entity.

A DISC-TACC command is denied if:

- The specified TAPP is not involved in a test access operation.
- The port specified for TAP is not the FAD A port of a TAPP in use by the user.
- An invalid parameter value is entered.

INPUT FORMAT

DISC-TACC: [TID] :TAP: [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >
Default:	<SID>
Addressing:	None
Description:	Target Identifier, specifies the network node TID for the command.

TAP	DS1_AID:	
	{T1-{1-59392}}	(T1-DS1#)
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-28}}	(OC3T1-OC3#-STS1/DS3#-DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}	(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)
	DS3_AID:	
	{T3-{1-4800}}	(T3-DS3#)
	{OC3T3-{1-2240}-{1-3}}	(OC3T3-OC3#-STS1/DS3#)
	{OC12T3-{1-560}-{1-4}-{1-3}}	(OC12T3-OC12#-STM1#-STS1/DS3#)
	STS1_AID:	
	{EC1STS1-{1-3840}}	(EC1STS1-EC1/STS1#)
	{OC3STS1-{1-2240}-{1-3}}	(OC3STS1-OC3#-STS1#)
	{OC12STS1-{1-560}-{1-4}-{1-3}}	(OC12STS1-OC12#-STM1#-STS1#)
	VT1_AID:	
	{EC1VT1-{1-3840}-{1-7}-{1-4}}	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)
	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)
	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)
	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)	
Default:		Entry Required
Addressing:		None
Description:		Test Access Port AID, identifies the AID of the FAD A to be disconnected.
Restrictions:		The TAP value given must be that of a TAPP's FAD A currently in use by the user issuing the command (unless that user is the system administrator). DISC-TACC is denied if the TAP value specifies DS1 embedded within electrical DS3 and the 28th DS1 is not excluded. The AID of an STS1 entity embedded in an OC12, OC3, or EC1, except the 3rd STS1 within an OC3 and the {4-3}th STS1 within an OC12. Refer to Appendix B, Access Identifiers (AIDs). The AIDs of VT1 entities embedded in an STS1 which can be embedded in an OC12, OC3, or EC1, except the {7-4}th VT1 within an STS1. Refer to Appendix B, Access Identifiers (AIDs).
CTAG	< 1-6 VALID CTAG CHARACTERS >	
	Default:	< System assigned CTAG value >
	Addressing:	None
	Description:	Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  ["A <TLS>"]
  ["B <TLS>"]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM] >) */]
;
```

OUTPUT PARAMETERS

TLS	{NORM, TERM, <NoVal>}
	Terminate and Leave Status, indicates whether the A-side or B-side port being tested is in a terminate and leave status as a result of a previous CHG-TL-DIG command. A parsable line of output data is only provided when a TAPP's FAD A AID is entered for TAP in the input command. Values are:
	NORM Normal, the A or B side port is not in a terminate and leave state.
	TERM Terminated, the A or B side port is in a terminate and leave state.
	<NoVal> No value is displayed, the A or B side connection does not exist.

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

ENFE	Equipage, FEature Not provided
IIAC	Input, Invalid ACcess identifier
ITSN	Input, invalid/inactive Test Session Number
RTEN	Resource, requested Tap does Not Exist /* TAPP specified does not exist. */
SADC	Status, Already DisConnected
SARB	Status, All Resources Busy
SDBE	Status, internal Data Base Error /* <DATABASE TYPE> Database Error: <STATUS> for <AID STRING> */ /* <DATABASE TYPE> Database Error: <STATUS> for record number <RECORD NUMBER> */ /* <DATABASE TYPE> Database Error: <STATUS> */
SNVS	Status, Not in Valid State

EXAMPLES

In the following example, the DISC-TACC disconnects the TAPP identified by the FAD A AID of T1-21505.

```
DISC-TACC::T1-21505;
```

RELATED COMMANDS

CHG-ACCMD-STS1

CHG-ACCMD-T1

CHG-ACCMD-T3

CHG-ACCMD-VT1

CHG-TL-DIG

CONN-TACC-STS1

CONN-TACC-T1

CONN-TACC-T3

CONN-TACC-VT1

DISC-TACC-PRVG

REPT-INITZN

REPT-STAT

RST-TAP-DIG

RTRV-TACC

COMMAND CODE: **DISC-TACC-PRVG**
COMMAND NAME: **DISCONNECT TEST ACCESS
PRIVILEGED**

PURPOSE

The DISC-TACC-PRVG command disconnects an existing Test Access port connection established by any user from the ports being tested. After DISC-TACC-PRVG is executed, the disconnected Test Access Port Pairs (TAPPs) are available for other test access operations.

When a Test Access port AID is specified for TAP in the DISC-TACC-PRVG command, that Test Access Port Pair (TAPP) is disconnected regardless of its user ownership and whether the TAP parameter is allocated from the Public pool or Private pool.

If a Test Access port AID is specified for TAP in the DISC-TACC-PRVG command, the terminate-and-leave status of any A-side and B-side cross-connection is returned in the successful response message.

Executing a DISC-TACC-PRVG command removes the SST values of BUSY and TS from the assigned TAPP and the SST value of TS from any equipment-side and facility-side ports involved in the test access operation. If a cross-connection exists, the cross-connection SST of TS is removed from the cross-connection entity.

A DISC-TACC-PRVG command is denied if:

- The specified TAPP is not involved in a test access operation.
- The port specified for TAP is not the FAD A port of a TAPP.
- An invalid parameter value is entered.

INPUT FORMAT

DISC-TACC-PRVG: [TID] :TAP: [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >		
	Default:	<SID>	
	Addressing:	None	
	Description:	Target Identifier, specifies the network node TID for the command.	
TAP	DS1_AID:		
	{T1-{1-59392}}	(T1-DS1#)	
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)	
	{OC3T1-{1-2240}-{1-3}-{1-28}}	(OC3T1-OC3#-STS1/DS3#-DS1#)	
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}	(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)	
	DS3_AID:		
	{T3-{1-4800}}	(T3-DS3#)	
	{OC3T3-{1-2240}-{1-3}}	(OC3T3-OC3#-STS1/DS3#)	
	{OC12T3-{1-560}-{1-4}-{1-3}}	(OC12T3-OC12#-STM1#-STS1/DS3#)	
	STS1_AID:		
	{EC1STS1-{1-3840}}	(EC1STS1-EC1/STS1#)	
	{OC3STS1-{1-2240}-{1-3}}	(OC3STS1-OC3#-STS1#)	
	{OC12STS1-{1-560}-{1-4}-{1-3}}	(OC12STS1-OC12#-STM1#-STS1#)	
	VT1_AID:		
	{EC1VT1-{1-3840}-{1-7}-{1-4}}	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)	
	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)	
	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)	
	Default:	Entry Required	
	Addressing:	None	
	Description:	Test Access Port AID, identifies the AID of the FAD A to be disconnected.	
	Restrictions:	DISC-TACC-PRVG is denied if the TAP value specifies DS1 embedded within electrical DS3 and the 28th DS1 is not excluded.	

The AID of an STS1 entity embedded in an OC12, OC3, or EC1, except the 3rd STS1 within an OC3 and the {4–3}th STS1 within an OC12. Refer to Appendix B, Access Identifiers (AIDs).

The AIDs of VT1 entities embedded in an STS1 which can be embedded in an OC12, OC3, or EC1, except the {7–4}th VT1 within an STS1. Refer to Appendix B, Access Identifiers (AIDs).

CTAG < 1–6 VALID CTAG CHARACTERS >
Default: < System assigned CTAG value >
Addressing: None
Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  ["A <TLS>"]
  ["B <TLS>"]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

TLS {NORM, TERM, <NoVal>}
 Terminate and Leave Status, indicates whether the A-side or B-side port being tested is in a terminate and leave status as a result of a previous CHG–TL–DIG command. A parsable line of output data is only provided when a TAPP's FAD A AID is entered for TAP in the input command. Values are:

NORM	Normal, the A or B side port is not in a terminate and leave state.
TERM	Terminated, the A or B side port is in a terminate and leave state.
<NoVal>	No value is displayed, the A or B side connection did not exist.

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

ENFE	Equipage, FEature Not provided
IIAC	Input, Invalid ACcess identifier
RTEN	Resource, requested Tap does Not Exist /* TAPP specified does not exist */
SADC	Status, Already DisConnected
SARB	Status, All Resources Busy
SDBE	Status, internal Data Base Error
SNVS	Status, Not in Valid State
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, the DISC-TAC-PRVG disconnects the TAPP identified by the FAD A AID of T1-21505 regardless of user ownership of the TAPP.

```
DISC-TACC-PRVG: :T1-21505;
```

RELATED COMMANDS

CHG-ACCMD-STS1

CHG-ACCMD-T1

CHG-ACCMD-T3

CHG-ACCMD-VT1

CHG-TL-DIG

CONN-TACC-STS1

CONN-TACC-T1

CONN-TACC-T3

CONN-TACC-VT1

DISC-TACC

REPT-INITZN

REPT-STAT

RST-TAP-DIG

RTRV-TACC

COMMAND CODE: DLT-CID
COMMAND NAME: DELETE COMMUNICATIONS
INTERFACE DEVICE

PURPOSE

The DLT-CID command deletes the entry for the specified CPORT from the system's CID (Communication Interface Device) configuration database.

The CPORT must be logically removed (using RMV-CID) before it can be deleted. If the CPORT is configured as an X.25 port (PROTOCOL of X25 set using ENT-CID or ED-CID), all virtual channels within the CPORT must be deleted (using the DLT-CID-VC command) before the CPORT can be deleted.

A DLT-CID command is denied if:

- The specified CPORT has not previously been provisioned (using ENT-CID).
- The specified CPORT has not been logically removed (using RMV-CID).
- The specified CPORT is configured as an X.25 port (PROTOCOL of X25 set using the ENT-CID or ED-CID commands) and all of its virtual channels are not deleted (using DLT-CID-VC).
- An invalid parameter value is entered.

INPUT FORMAT

DLT-CID: [TID] : CPORT: [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CPORT	{1-12} Default: Entry Required Addressing: None Description: Control Port, specifies the physical communication port number on the APS control system.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
/* CID <CPORT> deleted */
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

CPORT	{1-12} Control Port, identifies the physical control port number.
-------	--

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Optional Suggested Action Text> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IPNV	Input, Parameter Not Valid /* Invalid CID <CPORT> entered */ /* CID <CPORT> does not exist */ /* X25 vc <VCNUM> does not exist */
SDBE	Status, internal Data Base Error /* Unable to read OSDB – status = <status number> */ /* Unable to delete CID <CPORT> from OSDB – status = <status number> */
SROF	Status, Requested Operation Failed /* <CPORT>:<VCNUM>, Virtual Channel must be deleted */ /* CID must first be removed */ /* This CID is pending removal */ /* This CID <CPORT> is an X.25 vc */

EXAMPLES

In the following example, CPORT 5 is deleted from the CID configuration database.

```
DLT-CID::5;
```

The output response, shown below, assumes CID 3 was used to enter the command and a system generated CTAG value of P06042. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P06042 COMPLD
/* CID 5 deleted */
/* DLT-CID::5 [P06042] (3) */
;
```

RELATED COMMANDS

```
DLT-CID-VC
DLT-OSADDR-SITE
ED-CID
ED-CID-OSPORT
ED-CID-VC
ED-OSADDR-SITE
ED-PRMTR-SITE
ENT-CID
ENT-CID-VC
ENT-EQPT
ENT-OSADDR-SITE
RMV-CID
```

RST-CID
RTRV-CID
RTRV-EQPT
RTRV-OSADDR-SITE
RTRV-PRMTR-SITE
START-CID
STOP-CID
STOP-OPS

COMMAND CODE: **DLT-CID-VC**
COMMAND NAME: **DELETE COMMUNICATIONS
INTERFACE DEVICE VIRTUAL
CHANNEL**

PURPOSE

The DLT-CID-VC command deletes a virtual channel entry for the specified X.25 CPORT (Control Port) and VCNUM (Virtual Channel Number) from the system's CID (Communication Interface Device) configuration database.

The specified virtual channel (specified by CPORT and VCNUM) must be logically removed (using the RMV-CID command) before it can be deleted.

A DLT-CID-VC command is denied if:

- The specified virtual channel (specified by CPORT and VCNUM) is not previously logically removed (using the RMV-CID command).
- An invalid parameter value is entered.

INPUT FORMAT

DLT-CID-VC: [TID] : CPORT, VCNUM: [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CPORT	{2-5, 7-12} Default: Entry Required Addressing: None Description: Control Port, specifies the physical communication port number on the APS control system.
VCNUM	{1-8} Default: Entry Required Addressing: &&-ranging and &-grouping Description: Virtual Channel Number, specifies the X.25 virtual channel within the specified CPORT.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M <CTAG> COMPLD  
/* <CPORT>,<VCNUM> Virtual Channel deleted */  
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]  
;
```

OUTPUT PARAMETERS

CPORT	{2-5, 7-12} Control Port, identifies the physical control port number.
-------	---

VCNUM {1–8}
Virtual Channel Number, identifies the X.25 virtual channel within the specified X.25 CPORT.

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Optional Suggested Action Text> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IPNV	Input, Parameter Not Valid /* Invalid CID <CPORT> entered */ /* CID <CPORT> does not exist */ /* X25 vc <VCNUM> does not exist */
SDBE	Status, internal Data Base Error /* Cannot delete Virtual Channel <CPORT>:<VCNUM> from OSDB – status – <status number> */ /* Unable to read OSDB – status = <status number> */
SROF	Status, Requested Operation Failed /* CID must be removed before deletion (use: RMV-CID) */ /* This CID is pending removal */ /* This CID <CPORT> is not an X.25 vc */

EXAMPLES

In the following example, virtual channel 1 on CPORT 2 is deleted.

```
DLT-CID-VC::2,1;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P17032. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P17032 COMPLD
  /* 2,1 Virtual Channel deleted */
  /* DLT-CID-VC::2,1 [P17032] (1) */
;
```

RELATED COMMANDS

DLT-CID
DLT-OSADDR-SITE
ED-CID
ED-CID-OSPORT
ED-CID-VC
ED-OSADDR-SITE
ENT-CID
ENT-CID-VC
ENT-OSADDR-SITE
RMV-CID
RST-CID
RTRV-CID
RTRV-OSADDR-SITE
START-CID
STOP-CID

COMMAND CODE: **DLT-CONF-T1**
COMMAND NAME: **DELETE CONFERENCE T1**

PURPOSE

The DLT-CONF-T1 command disconnects (deletes) the specified one-way cross-connection from the conference head (MASTER) that is either a DS1 or VT1.5, to the conference tail (TO) that is either DS1 or VT1.5. However if both the conference head and the tail are both VT1.5s, the command will be denied (See DLT-CONF-VT1). Upon completion of a DLT-CONF-T1, the specified cross-connection is placed in a “non-existent” state. The conference connection ceases to exist when all associated conference tails have been disconnected.

If a conference tail is one-way cross-connected back to the conference head (MASTER), the back connection must first be disconnected (via DLT-CRS-T1) before the one-way conference connection from the conference head to the conference tail can be disconnected (using DLT-CONF-T1).

Executing an DLT-CONF-T1 command causes a state transition for the specified one-way conference cross-connection from

- IS to Non-Existent
- OOS-AU to Non-Existent

When the DLT-CONF-T1 is completed successfully, the port specified by the TO parameter will have its ACT/BUSY secondary state cleared. Also if the tail was a T1 and the head was VT1.5 and this is the last tail that got deleted, then the head shall have ACT and TRM secondary states cleared.

When a DLT-CONF-T1 is completed, all condition types associated with the specified one-way conference cross-connection are cleared.

A DLT-CONF-T1 command is denied if:

- The specified conference cross-connection does not exist.
- A one-way cross-connection from the specified conference tail (TO) to the conference head (MASTER) exists.
- Either of the specified MASTER or TO DS1 ports are in a test access operation (a DS1 or cross-connection SST of TS), or have been terminated (via a CHG-TL-DIG, a cross-connection SST of TERMB, TERMF, TERMT).
- The specified cross-connection is connected to a Test Access port (it has an SST of TS).
- If the conference head and the conference tail are both VT1.5.
- The specified MASTER and/or TO DS1/VT1.5 port is embedded within a protection OC-3 or OC-12.
- An invalid parameter value is entered.

INPUT FORMAT

DLT-CONF-T1 : [TID] : MASTER, TO : [CTAG] : : : [RDLMODE] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >
Default:	<SID>
Addressing:	None
Description:	Target Identifier, specifies the network node TID for the command.

MASTER	DS1_AID:	
	{T1-{1-59392}}	(T1-DS1#)
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)
	{EC1T1-{1-3840}-{1-28}}	(EC1T1-EC1/STS1/DS3#-DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-28}}	(OC3T1-OC3#-STS1/DS3#-DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}	(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)
	VT1_AID:	
	{EC1VT1-{1-3840}-{1-7}-{1-4}}	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)
	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)
	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	
	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)	
	Default:	Entry Required
	Addressing:	None
	Description:	DS1 or VT1 AID. Identifies the head (receive side from the network) of a broadcast conference connection.
TO	DS1_AID:	
	{T1-{1-59392}}	(T1-DS1#)
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)
	{EC1T1-{1-3840}-{1-28}}	(EC1T1-EC1/STS1/DS3#-DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-28}}	(OC3T1-OC3#-STS1/DS3#-DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}	(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)
	VT1_AID:	
	{EC1VT1-{1-3840}-{1-7}-{1-4}}	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)
	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)
	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	
	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)	
	Default:	Entry Required
	Addressing:	&&-ranging and &-grouping
	Description:	DS1 or VT1 AID. Identifies the tail (transmit side to the network) of a broadcast conference connection.
CTAG	< 1-6 VALID CTAG CHARACTERS >	
	Default:	< System assigned CTAG value >
	Addressing:	None
	Description:	Correlation Tag, associates input command with its output responses.
RDLMODE	{INCL, NORM}	
	Default:	{NORM}
	Addressing:	None
	Description:	Redline Mode. Values are:
	INCL	INCLusive. Both normal and redlined connections will be deleted
	NORM	NORMal. Only normal (non-redlined) connections will be deleted
	Restrictions:	DLT-CONF-T1 is denied if INCL is not specified for a redlined connection.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID [-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid
IIAC	Input, Invalid ACcess identifier
SADC	Status, Already DisConnected
SARB	Status, All Resources Busy
SDBE	Status, internal Data Base Error
SNVS	Status, Not in Valid State
SROF	Status, Requested Operation Failed
SRQN	Status, invalid ReQuest

EXAMPLES

In the following example, the one-way DS1 conference cross-connection from the conference head (MASTER) port T3T1-1-15 to the conference tail port T3T1-16-4 is disconnected. This cross-connection was previously redlined (flagged to help prevent inadvertent disconnection).

```
DLT-CONF-T1::T3T1-1-15,T3T1-16-4:::INCL;
```

In the following example, the one-way DS1 conference cross-connections from the conference head (MASTER) port T3T1-1-15 to the conference tail port EC1VT1-16-4-1 which is a VT1.5 embedded within an electrical STS-1 is disconnected.

```
DLT-CONF-T1::T3T1-1-15,EC1VT1-16-4-1;
```

In the following example, the one-way DS1 conference cross-connections from the conference head (MASTER) port T3T1-1-15 to the conference tail ports T3T1-12-8, T3T1-12-9, T3T1-12-10, and T3T1-5-28 are disconnected.

```
DLT-CONF-T1::T3T1-1-15,T3T1-12-8&&-10&T3T1-5-28;
```

RELATED COMMANDS

DLT-CONF-VT1
DLT-CRS-T1
DLT-CRS-VT1
ED-CONF-T1
ED-CONF-VT1
ENT-CONF-T1
ENT-CONF-VT1
ENT-CRS-T1
ENT-CRS-VT1
ENT-T1
ENT-VT1
RTRV-CKTID
RTRV-CONF-T1
RTRV-CONF-VT1
RTRV-CRS
RTRV-CRS-T1
RTRV-CRS-VT1
RTRV-POOL
RTRV-RDL-ALL
RTRV-T1
RTRV-VT1

COMMAND CODE: **DLT-CONF-VT1**
COMMAND NAME: **DELETE CONFERENCE VT1**

PURPOSE

The DLT-CONF-VT1 command disconnects (deletes) the specified one-way cross-connection from the conference head (MASTER) that is a VT1.5, to the conference tail (TO) that is a VT1.5. If both the conference head and the tail are not VT1.5s, the command will be denied (see DLT-CONF-T1). Upon completion of a DLT-CONF-VT1, the specified cross-connection is placed in a "non-existent" state. The conference connection ceases to exist when all associated conference tails have been disconnected.

If a conference tail is one-way cross-connected back to the conference head (MASTER), the back connection must first be disconnected (via DLT-CRS-VT1) before the one-way conference connection from the conference head to the conference tail can be disconnected (via DLT-CONF-VT1).

Executing a DLT-CONF-VT1 command causes a state transition for the specified one-way conference cross-connection from

- IS to Non-Existent
- OOS-AU to Non-Existent

When the DLT-CONF-VT1 is completed successfully, the port specified by the tail will have its ACT/BUSY secondary state deleted. If this is the last tail that is deleted, then the head will have ACT secondary state cleared.

When a DLT-CONF-VT1 is completed, all condition types associated with the specified one-way conference cross-connection are cleared.

A DLT-CONF-VT1 command is denied if:

- The specified conference cross-connection does not exist.
- A one-way cross-connection from the specified conference tail (TO) to the conference head (MASTER) exists.
- Either of the specified MASTER or TO VT1.5 ports are in a test access operation (a VT1.5 or cross-connection SST of TS), or have been terminated (via a CHG-TL-DIG, a cross-connection SST of TERMB, TERMF, TERMT).
- The specified cross-connection is connected to a Test Access port (it has an SST of TS).
- If the conference head and the conference tail both are not VT1.5.
- The specified MASTER and/or TO DS1/VT1.5 port is embedded within a protection OC-3/OC-12.
- An invalid parameter value is entered.

INPUT FORMAT

DLT-CONF-VT1 : [TID] : MASTER, TO : [CTAG] : : : [RDLMODE] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >		
	Default:	<SID>	
	Addressing:	None	
	Description:	Target Identifier, specifies the network node TID for the command.	
MASTER	VT1_AID:		
	{EC1VT1-{1-3840}-{1-7}-{1-4}}	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)	
	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)	
	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}		
	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)		
	Default:	Entry Required	
	Addressing:	None	
	Description:	VT1 AID. Identifies the head (receive side from the network) of a broadcast conference connection.	

TO	VT1_AID:	
	{EC1VT1-{1-3840}-{1-7}-{1-4}}	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)
	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)
	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	
	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)	
	Default:	Entry Required
	Addressing:	&&-ranging and &-grouping
	Description:	VT1 AID. Identifies the tail (transmit side to the network) of a broadcast conference connection.
CTAG	< 1-6 VALID CTAG CHARACTERS >	
	Default:	< System assigned CTAG value >
	Addressing:	None
	Description:	Correlation Tag, associates input command with its output responses.
RDLMODE	{INCL, NORM}	
	Default:	{NORM}
	Addressing:	None
	Description:	Redline Mode. Values are:
	INCL	INCLusive. Both normal and redlined connections will be deleted
	NORM	NORMal. Only normal (non-redlined) connections will be deleted
	Restrictions:	DLT-CONF-VT1 is denied if INCL is not specified for a redlined connection.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
SADC	Status, Already DisConnected
SARB	Status, All Resources Busy
SDBE	Status, internal Data Base Error
	/* Failed to get supporting entity records */
SNVS	Status, Not in Valid State
SROF	Status, Requested Operation Failed
SRQN	Status, invalid ReQuest

EXAMPLES

In the following example, the one-way VT1.5 conference cross-connections from the conference head (MASTER) port EC1VT1-1-6-2 to the conference tail port EC1VT1-16-4-3 is disconnected. This cross-connection had been previously redlined (flagged to help prevent inadvertent disconnection).

```
DLT-CONF-VT1::EC1VT1-1-6-2,EC1VT1-16-4-3:::INCL;
```

In the following example, the one-way VT1.5 conference cross-connections from the conference head (MASTER) port EC1VT1-1-6-2 to the conference tail port OC3VT1-7-2-7-1 which is a VT1.5 embedded within an STS-1 that is itself embedded within an OC-3 is disconnected.

```
DLT-CONF-VT1::EC1VT1-1-6-2,OC3VT1-7-2-7-1;
```

In the following example, the one-way VT1.5 conference cross-connections from the conference head (MASTER) port EC1VT1-1-6-2 to the conference tail ports EC1VT1-12-6-1, EC1VT1-12-6-2, EC1VT1-12-6-3, and EC1VT1-5-7-4 are disconnected.

```
DLT-CONF-VT1::EC1VT1-1-6-2,EC1VT1-12-6-1&&-3&EC1VT1-5-7-4;
```

RELATED COMMANDS

```
DLT-CONF-T1  
DLT-CRS-T1  
DLT-CRS-VT1  
ED-CONF-T1  
ED-CONF-VT1  
ENT-CONF-T1  
ENT-CONF-VT1  
ENT-CRS-T1  
ENT-CRS-VT1  
ENT-T1  
ENT-VT1  
RTRV-CKTID  
RTRV-CONF-T1  
RTRV-CONF-VT1  
RTRV-CRS  
RTRV-CRS-T1  
RTRV-CRS-VT1  
RTRV-POOL  
RTRV-RDL-ALL  
RTRV-T1  
RTRV-VT1
```


COMMAND CODE: **DLT-CRS-STS1**
COMMAND NAME: **DELETE CROSS-CONNECT STS1**

PURPOSE

The DLT-CRS-STS1 command disconnects (deletes) the specified cross-connection identified by the FROM and TO STS1 AIDs. Upon completion of a DLT-CRS-STS1 command, the specified cross-connection is placed in a "non-existent" state. Both the FROM and TO AID must be the AID of an STS1 embedded within an EC1, OC3, or OC12. (Use DLT-CRS-T3 if either the FROM or TO AIDs are not for an STS1.)

If CCT of 1WAY is entered for a cross-connection established as two one-way connections or as a two-way connection, the specified one-way connection is disconnected and the cross-connect entity becomes a one-way cross-connection. If CCT of 2WAY is entered for a cross-connection established as two one-way connections or as a two-way connection, the specified two-way connection is disconnected. If CCT of 2WAYPR is entered for a cross-connection established as a two-way path ring connection (refer to ENT-CRS-STS1 and ENT-RNG-OC3), the specified two-way path ring connection is disconnected.

Executing an DLT-CRS-STS1 command causes a state transition for the specified cross-connection from

- IS to Non-Existent
- OOS-AU to Non-Existent

When the DLT-CRS-STS1 command is successfully completed in normal linear mode, if either FROM or TO had BUSY secondary state, it will be cleared and the object will enter ACT secondary state. If this command deletes all the cross connects that exist on the port, then the ACT/BUSY secondary state will be cleared.

When the DLT-CRS-STS1 command is successfully completed in ring mode, the STBYH/WRK secondary state on the FROM and TO ports within the ring OC3/OC12 will be cleared and the STS1 FFP will be deleted.

When a DLT-CRS-STS1 is completed, all condition types associated with the specified cross-connection are cleared.

A DLT-CRS-STS1 command is denied if:

- The specified cross-connection does not exist.
- CCT of 2WAYPR is entered and the specified two-way path ring cross-connection does not exist.
- CCT of 2WAYDC is entered and the specified two-way drop and continue ring cross-connection does not exist.
- CCT of 2WAY is entered and the specified cross-connection is a one-way connection.
- Either of the specified FROM or TO STS1 ports are in a test access operation (an STS1 or cross-connection SST of TS), or have been terminated (using CHG-TL-DIG, a cross-connection SST of TERMB, TERMF, TERMT).
- If both FROM and TO parameters do not refer to STS1.
- An invalid parameter value is entered.

INPUT FORMAT

DLT-CRS-STS1 : [TID] : **FROM, TO** : [CTAG] : : [CCT] : [RDLMODE] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >
Default:	<SID>
Addressing:	None
Description:	Target Identifier, specifies the network node TID for the command.

FROM	STS1_AID:	
	{EC1STS1-{1-3840}}	(EC1STS1-EC1/STS1#)
	{OC3STS1-{1-2240}-{1-3}}	(OC3STS1-OC3#-STS1#)
	{OC12STS1-{1-560}-{1-4}-{1-3}}	(OC12STS1-OC12#-STM1#-STS1#)
	Default:	Entry Required
	Addressing:	&&-ranging and &-grouping
	Description:	STS1 AID. If CCT=1WAY, FROM identifies the receive side (from the network) of the cross-connection specified by the FROM,TO AID pair. If CCT=2WAY then either AID of the cross-connection may be used as the FROM AID.
TO	STS1_AID:	
	{EC1STS1-{1-3840}}	(EC1STS1-EC1/STS1#)
	{OC3STS1-{1-2240}-{1-3}}	(OC3STS1-OC3#-STS1#)
	{OC12STS1-{1-560}-{1-4}-{1-3}}	(OC12STS1-OC12#-STM1#-STS1#)
	Default:	Entry Required
	Addressing:	&&-ranging and &-grouping
	Description:	STS1 AID. If CCT=1WAY, TO identifies the transmit side (to the network) of the cross-connection specified by the FROM,TO AID pair. If CCT=2WAY then either AID of the cross-connection may be used as the TO AID.
CTAG	< 1-6 VALID CTAG CHARACTERS >	
	Default:	< System assigned CTAG value >
	Addressing:	None
	Description:	Correlation Tag, associates input command with its output responses.
CCT	{1WAY, 2WAY, 2WAYPR, 2WAYDC}	
	Default:	{2WAY}
	Addressing:	None
	Description:	Cross-Connect Type. Values are:
	Value(s)	
	1WAY	One-Way. Delete a one-way cross-connection or bridge between the FROM and TO STS1 ports.
	2WAY	Two-Way. Delete a two-way cross-connection between the FROM and TO STS1 ports.
	2WAYPR	Two-Way Path Ring. Delete a two-way path ring cross-connection between the FROM and TO STS1 ports.
	2WAYDC	Two-Way Drop and Continue. Delete a two-way Drop and Continue connection between the FROM and TO STS1 ports.
RDLMODE	{INCL, NORM}	
	Default:	{NORM}
	Addressing:	None
	Description:	Redline Mode. Values are:
	INCL	INCLusive. Both normal and redlined connections will be deleted
	NORM	NORMal. Only normal (non-redlined) connections will be deleted
	Restrictions:	DLT-CRS-STS1 is denied if INCL is not specified for a redlined connection.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent
IIAC	Input, Invalid ACcess identifier
SADC	Status, Already DisConnected
SARB	Status, All Resources Busy
	/*A switch is in progress for this protection group*/
	/*Please try the command again later*/
SDBE	Status, internal Data Base Error
	/*CONN Database Error: <ERROR-STRING> for <AID>*/
	/*Failed to Update Sptg Tps: Status=<ERROR-CODE>*/
	/*Failed to put B2 TP database record <RECORD-NUMBER> for status <ERROR-CODE>*/
	/*Failed to put CONN database record <RECORD-NUMBER> for status <ERROR-CODE>*/
	/*Failed to put TP database record <RECORD-NUMBER> for status <ERROR-CODE>*/
	/*RPP Database Error: <ERROR-STRING> for <AID>*/
	/*TP Database Error: <ERROR-STRING> for <AID>*/
SDNC	Status, Data Not Consistent
SNVS	Status, Not in Valid State
SROF	Status, Requested Operation Failed
SRQN	Status, invalid ReQuest

EXAMPLES

In the following example, a one-way STS1 cross-connection is disconnected between ports OC3STS1-1-3 (FROM), which is an STS1 embedded within an OC3 and EC1STS1-48 (TO) which is an STS1 embedded within an EC1. The specified one-way cross-connection is disconnected whether the existing connection is a one-way or a two-way cross-connection. This cross-connection was previously designated as redlined to help prevent inadvertent disconnection.

```
DLT-CRS-STs1::OC3STS1-1-3,EC1STS1-48::1WAY:INCL;
```

In the following example, a two-way STS1 cross-connection is disconnected between ports OC3STS1-5-2, which is an STS1 embedded within an OC3 and EC1STS1-13 which is an STS1 embedded within an EC1. Either port may be specified as the FROM or TO AID. The two-way cross-connection is disconnected whether the connection was established as a single two-way connection or as two one-way connections.

```
DLT-CRS-STs1::OC3STS1-5-2,EC1STS1-13;
```

RELATED COMMANDS

ED-FFP-STs1

ENT-CRS-STs1

ENT-STs1

RTRV-CKTID

RTRV-CRS

RTRV-CRS-STs1

RTRV-RDL-ALL

RTRV-STs1

COMMAND CODE: **DLT-CRS-STS3C**
COMMAND NAME: **DELETE CROSS-CONNECT STS-3C**

PURPOSE

The DLT-CRS-STS3C disconnects (deletes) the specified cross-connection identified by the FROM and TO STS-3C AIDs. Upon completion of a DLT-CRS-STS3C command, the specified cross-connection is placed in a "non-existent" state. Both the FROM and TO AID must be the AID of an STS-3C embedded within an OC-3 or OC-12.

If CCT of 1WAY is entered for a cross-connection established as two one-way connections or as a two-way connection, the specified one-way connection is disconnected and the cross-connect entity becomes a one-way cross-connection. If CCT of 2WAY is entered for a cross-connection established as two one-way connections or as a two-way connection, the specified two-way connection is disconnected.

Executing an DLT-CRS-STS3C command causes a state transition for the specified cross-connection from

- IS to Non-Existent
- OOS-AU to Non-Existent

When a DLT-CRS-STS3C is completed, all condition types associated with the specified cross-connection are cleared.

When the DLT-CRS-STS3C command is successfully completed, if either FROM or TO had BUSY secondary state, it will be cleared and the object will enter ACT secondary state. If this command deletes all the cross connects that exist on the port, then the ACT/BUSY secondary state will be cleared.

A DLT-CRS-STS3C command is denied if:

- The specified cross-connection does not exist.
- CCT of 2WAY is entered (or is not specified) and the specified cross-connection is a one-way connection.
- If both FROM and TO parameters do not refer to STS-3C.
- An invalid parameter value is entered.

INPUT FORMAT

DLT-CRS-STS3C: [TID] : FROM, TO: [CTAG] : : [CCT] : [RDLMODE] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >		
	Default:	<SID>	
	Addressing:	None	
	Description:	Target Identifier, specifies the network node TID for the command.	
FROM	STS3C_AID:		
	{OC3STS3C-{1-2240}}	(OC3STS3C-OC3#/STS3C#)	
	{OC12STS3C-{1-560}-{1-4}}	(OC12STS3C-OC12#-STM1/STS3C#)	
	Default:	Entry Required	
	Addressing:	&&-ranging and &-grouping	
	Description:	STS3C AID. If CCT=1WAY, FROM identifies the receive side (from the network) of the cross-connection specified by the FROM,TO AID pair. If CCT=2WAY then either AID of the cross-connection may be used as the FROM AID.	
TO	STS3C_AID:		
	{OC3STS3C-{1-2240}}	(OC3STS3C-OC3#/STS3C#)	
	{OC12STS3C-{1-560}-{1-4}}	(OC12STS3C-OC12#-STM1/STS3C#)	
	Default:	Entry Required	
	Addressing:	&&-ranging and &-grouping	
	Description:	STS3C AID. If CCT=1WAY, TO identifies the transmit side (to the network) of the cross-connection specified by the FROM,TO AID pair. If CCT=2WAY then either AID of the cross-connection may be used as the TO AID.	

CTAG	< 1–6 VALID CTAG CHARACTERS >	
	Default:	< System assigned CTAG value >
	Addressing:	None
	Description:	Correlation Tag, associates input command with its output responses.
CCT	{1WAY, 2WAY}	
	Default:	{2WAY}
	Addressing:	None
	Description:	Cross–Connect Type. Values are:
	Value(s)	
	1WAY	One–Way. Delete a one–way cross–connection or bridge between the FROM and TO ports.
RDLMODE	{INCL, NORM}	
	Default:	{NORM}
	Addressing:	None
	Description:	Redline Mode. Values are:
	INCL	INCLusive. Both normal and redlined connections will be deleted
	NORM	NORMal. Only normal (non–redlined) connections will be deleted
	Restrictions:	DLT–CRS–STS3C is denied if INCL is not specified for a redlined connection.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non–Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent
IIAC	Input, Invalid ACcess identifier
SADC	Status, Already DisConnected
SARB	Status, All Resources Busy
	/*A switch is in progress for this protection group*/
	/*Please try the command again later*/

SDBE	Status, internal Data Base Error /*CONN Database Error: <ERROR-STRING> for <AID>*/ /*Failed to Update Sptg Tps: Status=<ERROR-CODE>*/ /*Failed to put B2 TP database record <RECORD-NUMBER> for status <ERROR-CODE>*/ /*Failed to put CONN database record <RECORD-NUMBER> for status <ERROR-CODE>*/ /*Failed to put TP database record <RECORD-NUMBER> for status <ERROR-CODE>*/ /*RPP Database Error: <ERROR-STRING> for <AID>*/ /*TP Database Error: <ERROR-STRING> for <AID>*/
SDNC	Status, Data Not Consistent
SNVS	Status, Not in Valid State
SROF	Status, Requested Operation Failed
SRQN	Status, invalid ReQuest

EXAMPLES

In the following example, a one-way STS-3C cross-connection is disconnected between ports OC3STS3C-1 (FROM), which is an STS-3C embedded within an OC-3 and OC3STS3C-3 (TO) which is also an STS-3C embedded within an OC-3. The specified one-way cross-connection is disconnected whether the existing connection is a one-way or a two-way cross-connection. This cross-connection was previously designated as redlined to help prevent inadvertent disconnection.

```
DLT-CRS-ST3C: :OC3STS3C-1, OC3STS3C-3 : : 1WAY: INCL;
```

In the following example, a two-way STS-3C cross-connection is disconnected between ports OC3STS3C-5, which is an STS-3C embedded within an OC-3 and OC3STS3C-11 which is also an STS-3C embedded within an OC-3. Either port may be specified as the FROM or TO AID. The two-way cross-connection is disconnected whether the connection was established as a single two-way connection or as two one-way connections.

```
DLT-CRS-ST3C: :OC3STS3C-5, OC3STS3C-11;
```

RELATED COMMANDS

```
ENT-CRS-ST3C  
ENT-ST3C  
RTRV-CKTID  
RTRV-CRS  
RTRV-CRS-ST3C  
RTRV-RDL-ALL  
RTRV-ST3C
```


COMMAND CODE: **DLT-CRS-T1**
COMMAND NAME: **DELETE CROSS-CONNECT T1**

PURPOSE

The DLT-CRS-T1 command disconnects (deletes) the specified cross-connection identified by the FROM and TO AIDs. Upon completion of a DLT-CRS-T1 command, the specified cross-connection is placed in a “non-existent” state. Either FROM or TO AIDs, but not both, can be the AID of a VT1.5 embedded within an EC1, OC-3, or OC-12. (Use DLT-CRS-VT1 if both the FROM or TO AIDs are for a VT1.5.)

If CCT of 1WAY is entered for a cross-connection established as two one-way connections or as a two-way connection, the specified one-way connection is disconnected and the cross-connect entity becomes a one-way cross-connection. If CCT of 2WAY is entered for a cross-connection established as two one-way connections or as a two-way connection, the specified two-way connection is disconnected. If CCT of 2WAYPR is entered for a cross-connection established as a two-way path ring connection (refer to ENT-CRS-T1, ENT-RNG-OC3, and ENT-RNG-OC12), the specified two-way path ring connection is disconnected. If CCT of 2WAYDC is entered for a cross-connection established as a two-way drop and continue connection (refer to ENT-CRS-T1, ENT-RNG-OC3, and ENT-RNG-OC12), the specified two-way path ring connection is disconnected.

Executing an DLT-CRS-T1 command causes a state transition for the specified cross-connection from

- IS to Non-Existent
- OOS-AU to Non-Existent

When the DLT-CRS-T1 command is successfully completed in normal linear mode, if either FROM or TO had BUSY secondary state, it will be cleared and the object will enter ACT secondary state. If this command deletes all the cross connects that exits on the port, then the ACT secondary state will be cleared. If this command deletes a cross connection from a VT1.5 to a T1, then the VT1.5 port will have TRM secondary state cleared.

When the DLT-CRS-T1 command is successfully completed in ring mode, the STBYH/WRK secondary state on the FROM and TO VT1.5 ports within the ring OC-3/OC-12 will be cleared and the VT1 FFP will be deleted.

When a DLT-CRS-T1 is completed, all condition types associated with the specified cross-connection are cleared.

A DLT-CRS-T1 command is denied if:

- The specified cross-connection does not exist.
- CCT of 2WAYPR is entered and the specified VT1.5/T1 two-way path ring cross-connection does not exist.
- CCT of 2WAYDC is entered and the specified VT1.5/T1 two-way drop and continue ring cross-connection does not exist.
- CCT of 2WAY is entered and the specified cross-connection is a one-way connection.
- The specified cross-connection is part of a broadcast conference connection.
- Either of the specified FROM or TO DS1 ports are in a test access operation (a DS1 or cross-connection SST of TS), have been terminated (via a CHG-TL-DIG, a cross-connection SST of TERMB, TERMF, TERMT), or in under Roll operation (the entity has ROLL secondary state).
- If both FROM and TO parameters refer to VT1.5.
- The command addresses a DS1/VT1.5 embedded within protection OC-3 or OC-12.
- An invalid parameter value is entered.

INPUT FORMAT

DLT-CRS-T1 : [TID] : FROM, TO : [CTAG] : : [CCT]] : [RDLMODE] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >
Default:	<SID>
Addressing:	None
Description:	Target Identifier, specifies the network node TID for the command.

FROM	DS1_AID:	
	{T1-{1-59392}}	(T1-DS1#)
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)
	{EC1T1-{1-3840}-{1-28}}	(EC1T1-EC1/STS1/DS3#-DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-28}}	(OC3T1-OC3#-STS1/DS3#-DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}	(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)
	VT1_AID:	
	{EC1VT1-{1-3840}-{1-7}-{1-4}}	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)
	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)
	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)
TO	Default: Entry Required	
	Addressing: &&-ranging and &-grouping	
	Description: DS1 or VT1 AID. If CCT=1WAY, FROM identifies the receive side (from the network) of the cross-connection specified by the FROM,TO AID pair. If CCT=2WAY then either AID of the cross-connection may be used as the FROM AID.	
	DS1_AID:	
	{T1-{1-59392}}	(T1-DS1#)
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)
	{EC1T1-{1-3840}-{1-28}}	(EC1T1-EC1/STS1/DS3#-DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-28}}	(OC3T1-OC3#-STS1/DS3#-DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}	(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)
	VT1 AID:	
CTAG	{EC1VT1-{1-3840}-{1-7}-{1-4}}	
	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}	
	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	
	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)	
	Default: Entry Required	
	Addressing: &&-ranging and &-grouping	
	Description: DS1 or VT1 AID. If CCT=1WAY, TO identifies the transmit side (to the network) of the cross-connection specified by the FROM,TO AID pair. If CCT=2WAY then either AID of the cross-connection may be used as the TO AID.	
	< 1-6 VALID CTAG CHARACTERS >	
	Default: < System assigned CTAG value >	
	Addressing: None	
	Description: Correlation Tag, associates input command with its output responses.	

CCT	{1WAY, 2WAY, 2WAYPR, 2WAYDC}	
	Default:	{2WAY}
	Addressing:	None
	Description:	Cross-Connect Type. Values are:
	1WAY	One-Way. Delete a one-way cross-connection or bridge between the FROM and TO ports.
	2WAY	Two-Way. Delete a two-way cross-connection between the FROM and TO ports.
	2WAYPR	Two-Way Path Ring. Delete a two-way path ring cross-connection between the FROM and TO ports. This value is only valid for VT1.5 (embedded within OC-3s/OC-12s) to T1 ring cross-connections.
	2WAYDC	Two-Way Drop and Continue. Delete a two-way drop and continue cross-connection between the FROM and TO ports. This value is only valid for VT1.5 (embedded within OC-3s/OC-12s) to T1 ring cross-connections.
RDLMODE	{INCL, NORM}	
	Default:	{NORM}
	Addressing:	None
	Description:	Redline Mode. Values are:
	INCL	INCLusive. Both normal and redlined connections will be deleted
	NORM	NORMal. Only normal (non-redlined) connections will be deleted
	Restrictions:	DLT-CRS-T1 is denied if INCL is not specified for a redlined connection.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent
IDNV	Input, Data Not Valid
IIAC	Input, Invalid ACcess identifier
SADC	Status, Already DisConnected
SARB	Status, All Resources Busy
	/*A switch is in progress for this protection group*/
	/*Please try the command again later*/
SDBE	Status, internal Data Base Error
	/*CONF Database Error: <ERROR-STRING> for record <RECORD-NUMBER>*/
	/*CONN Database Error: <ERROR-STRING> for <AID>*/
	/*Failed to Update Sptg Tps: Status=<ERROR-CODE>*/
	/*Failed to put B2 TP database record <RECORD-NUMBER> for status <ERROR-CODE>*/
	/*Failed to put CONN database record <RECORD-NUMBER> for status <ERROR-CODE>*/
	/*Failed to put TP database record <RECORD-NUMBER> for status <ERROR-CODE>*/
	/*RPP Database Error: <ERROR-STRING> for <AID>*/
	/*TP Database Error: <ERROR-STRING> for <AID>*/
SDNC	Status, Data Not Consistent
SNVS	Status, Not in Valid State
SROF	Status, Requested Operation Failed
SRQN	Status, invalid ReQuest

EXAMPLES

In the following example, a one-way DS1 cross-connection is disconnected between ports T3T1-1-15 (FROM) and T3T1-6-4 (TO). The specified one-way cross-connection is disconnected whether the existing connection is a one-way or a two-way cross-connection. This cross-connection was previously designated as redlined to help prevent inadvertent disconnection.

```
DLT-CRS-T1::T3T1-1-15,T3T1-6-4:::1WAY:INCL;
```

In the following example, a two-way DS1 cross-connection is disconnected between ports T3T1-1-10 and T3T1-13-8. Either port may be specified as the FROM or TO AID. The two-way cross-connection is disconnected whether the connection was established as a single two-way connection or as two one-way connections.

```
DLT-CRS-T1::T3T1-1-10,T3T1-13-8;
```

RELATED COMMANDS

```
DLT-CONF-T1  
ED-FFP-VT1  
ENT-CONF-T1  
ENT-CRS-T1  
ENT-ROLL-T1  
ENT-T1  
RTRV-CONF-T1  
RTRV-CKTID  
RTRV-CRS  
RTRV-CRS-T1  
RTRV-RDL-ALL
```


RTRV-T1

COMMAND CODE: **DLT-CRS-T3**
COMMAND NAME: **DELETE CROSS-CONNECT T3**

PURPOSE

The DLT-CRS-T3 command disconnects (deletes) the specified cross-connection identified by the FROM and TO AIDs. Upon completion of a DLT-CRS-T3 command, the specified cross-connection is placed in a "non-existent" state. Either FROM or TO parameters, but not both, can be the AID of an STS-1 embedded within an EC1, OC-3, or OC-12. (Use DLT-CRS-ST51 if both the FROM or TO AIDs are for an STS-1.)

If CCT of 1WAY is entered for a cross-connection established as two one-way connections or as a two-way connection, the specified one-way connection is disconnected and the cross-connect entity becomes a one-way cross-connection. If CCT of 2WAY is entered for a cross-connection established as two one-way connections or as a two-way connection, the specified two-way connection is disconnected. If CCT of 2WAYPR is entered for a cross-connection established as a two-way path ring connection (refer to ENT-CRS-T3, ENT-RNG-OC3, and ENT-RNG-OC12), the specified two-way path ring connection is disconnected. If CCT of 2WAYDC is entered for a cross-connection established as a two-way drop and continue connection (refer to ENT-CRS-T3, ENT-RNG-OC3, and ENT-RNG-OC12), the specified two-way drop and continue connection is disconnected.

Executing an DLT-CRS-T3 command causes a state transition for the specified cross-connection from

- IS to Non-Existent
- OOS-AU to Non-Existent

When the DLT-CRS-T3 is successfully completed in normal linear mode, if either FROM or TO had BUSY secondary state, it will be cleared and the object will enter ACT secondary state. If this command deletes all the cross connects that exists on the port, then the ACT secondary state will be cleared. If this command deletes a cross connection from an STS-1 to a T3 then the STS-1 port will have TRM secondary state cleared.

When the DLT-CRS-T3 is successfully completed in ring mode, the STBYH/WRK secondary state on the FROM or TO STS-1 ports within the ring OC-3/OC-12 will be cleared and the STS-1 FFP will be deleted.

When a DLT-CRS-T3 is completed, all condition types associated with the specified cross-connection are cleared.

A DLT-CRS-T3 command is denied if:

- The specified cross-connection does not exist.
- CCT of 2WAYPR is entered and the specified T3/STS-1 two-way path ring cross-connection does not exist.
- CCT of 2WAYDC is entered and the specified T3/STS-1 two-way drop and continue ring cross-connection does not exist.
- CCT of 2WAY is entered and the specified cross-connection is a one-way connection.
- Either of the specified FROM or TO DS3/STS-1 ports are in a test access operation (a DS3 or cross-connection SST of TS), or have been terminated (using CHG-TL-DIG, a cross-connection SST of TERMB, TERMF, TERMT).
- If both FROM and TO parameters refer to STS-1.
- The command addresses a DS3/STS-1 within protection OC-3/OC-12.
- An invalid parameter value is entered.

INPUT FORMAT

DLT-CRS-T3 : [TID] : FROM, TO : [CTAG] : : [CCT] : [RDLMODE] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >
Default:	<SID>
Addressing:	None
Description:	Target Identifier, specifies the network node TID for the command.

FROM	DS3_AID,:	
	{T3-{1-4800}}	(T3-DS3#)
	STS1_AID:	
	{EC1STS1-{1-3840}}	(EC1STS1-EC1/STS1#)
	{OC3STS1-{1-2240}-{1-3}}	(OC3STS1-OC3#-STS1#)
	{OC12STS1-{1-560}-{1-4}-{1-3}}	(OC12STS1-OC12#-STM1#-STS1#)
	Default:	Entry Required
	Addressing:	&&-ranging and &-grouping
	Description:	DS3 or STS1 AID. If CCT=1WAY, FROM identifies the receive side (from the network) of the cross-connection specified by the FROM,TO AID pair. If CCT=2WAY then either AID of the cross-connection may be used as the FROM AID.
TO	DS3_AID:	
	{T3-{1-4800}}	(T3-DS3#)
	STS1_AID:	
	{EC1STS1-{1-3840}}	(EC1STS1-EC1/STS1#)
	{OC3STS1-{1-2240}-{1-3}}	(OC3STS1-OC3#-STS1#)
	{OC12STS1-{1-560}-{1-4}-{1-3}}	(OC12STS1-OC12#-STM1#-STS1#)
	Default:	Entry Required
	Addressing:	&&-ranging and &-grouping
	Description:	DS3 or STS1 AID. If CCT=1WAY, TO identifies the transmit side (to the network) of the cross-connection specified by the FROM,TO AID pair. If CCT=2WAY then either AID of the cross-connection may be used as the TO AID.
CTAG	< 1-6 VALID CTAG CHARACTERS >	
	Default:	< System assigned CTAG value >
	Addressing:	None
	Description:	Correlation Tag, associates input command with its output responses.
CCT	{1WAY, 2WAY, 2WAYPR, 2WAYDC}	
	Default:	{2WAY}
	Addressing:	None
	Description:	Cross-Connect Type. Values are:
	Value(s)	
	1WAY	One-Way. Delete a one-way cross-connection or bridge between the FROM and TO ports.
	2WAY	Two-Way. Delete a two-way cross-connection between the FROM and TO ports.
	2WAYPR	Two-Way Path Ring. Delete a two-way path ring cross-connection between the FROM and TO ports. This value is only valid for STS-1 to T3 ring cross-connections.
	2WAYDC	Two-Way Drop and Continue. Delete a two-way drop and continue cross-connection between the FROM and TO ports. This value is only valid for STS-1 to T3 ring cross-connections.
RDLMODE	{INCL, NORM}	
	Default:	{NORM}
	Addressing:	None
	Description:	Redline Mode. Values are:
	INCL	INCLusive. Both normal and redlined connections will be deleted
	NORM	NORMal. Only normal (non-redlined) connections will be deleted
	Restrictions:	DLT-CRS-T3 is denied if INCL is not specified for a redlined connection.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent
IDNV	Input, Data Not Valid
IIAC	Input, Invalid ACcess identifier
SADC	Status, Already DisConnected
SARB	Status, All Resources Busy
	/*A switch is in progress for this protection group*/
	/*Please try the command again later*/
SDBE	Status, internal Data Base Error
	/*CONN Database Error: <ERROR-STRING> for <AID>*/
	/*Failed to Update Sptg Tps: Status=<ERROR-CODE>*/
	/*Failed to put B2 TP database record <RECORD-NUMBER> for status <ERROR-CODE>*/
	/*Failed to put CONN database record <RECORD-NUMBER> for status <ERROR-CODE>*/
	/*Failed to put TP database record <RECORD-NUMBER> for status <ERROR-CODE>*/
	/*RPP Database Error: <ERROR-STRING> for <AID>*/
	/*TP Database Error: <ERROR-STRING> for <AID>*/
SDNC	Status, Data Not Consistent
SNVS	Status, Not in Valid State
SROF	Status, Requested Operation Failed
SRQN	Status, invalid ReQuest

EXAMPLES

In the following example, a one-way DS3/STS-1 cross-connection is disconnected between ports T3-1 (FROM), which is an electrical DS3 and OC3STS1-5-3 (TO), which is an STS-1 embedded within an OC-3. The specified one-way cross-connection is disconnected whether the existing connection is a one-way or a two-way cross-connection. This cross-connection was previously designated as redlined to help prevent inadvertent disconnection.

```
DLT-CRS-T3::T3-1,OC3STS1-5-3:::1WAY:INCL;
```

In the following example, a two-way DS3 cross-connection is disconnected between ports T3-1 and T3-13. Either port may be specified as the FROM or TO AID. The two-way cross-connection is disconnected whether the connection was established as a single two-way connection or as two one-way connections.

```
DLT-CRS-T3::T3-1,T3-13;
```

RELATED COMMANDS

```
DLT-CRS-STs1  
ED-FFP-STs1  
ENT-CRS-STs1  
ENT-CRS-T3  
RTRV-CKTID  
RTRV-CRS  
RTRV-CRS-STs1  
RTRV-CRS-T3  
RTRV-RDL-ALL  
RTRV-T3
```

COMMAND CODE: **DLT-CRS-VT1**
COMMAND NAME: **DELETE CROSS-CONNECT VT1**

PURPOSE

The DLT-CRS-VT1 command disconnects (deletes) the specified cross-connection identified by the FROM and TO AIDs. Upon completion of a DLT-CRS-VT1 command, the specified cross-connection is placed in a "non-existent" state. Both the FROM and TO AID must be the AID of a VT1.5 embedded within an EC1, OC-3, or OC-12. (Use DLT-CRS-T1 if either the FROM or TO AIDs are not for a VT1.5.)

If CCT of 1WAY is entered for a cross-connection established as two one-way connections or as a two-way connection, the specified one-way connection is disconnected and the cross-connect entity becomes a one-way cross-connection. If CCT of 2WAY is entered for a cross-connection established as two one-way connections or as a two-way connection, the specified two-way connection is disconnected. If CCT of 2WAYPR is entered for a cross-connection established as a two-way path ring connection (refer to ENT-CRS-VT1, ENT-RNG-OC3, and ENT-RNG-OC12), the specified two-way path ring connection is disconnected. If CCT of 2WAYDC is entered for a cross-connection established as a two-way drop and continue connection (refer to ENT-CRS-VT1, ENT-RNG-OC3, and ENT-RNG-OC12), the specified two-way drop and continue connection is disconnected.

Executing an DLT-CRS-VT1 command causes a state transition for the specified cross-connection from

- IS to Non-Existent
- OOS-AU to Non-Existent

When the DLT-CRS-VT1 command is successfully completed in normal linear mode, if either FROM or TO had BUSY secondary state, it will be cleared and the object will enter ACT secondary state. If this command deletes all the cross connects that exits on the port, then the ACT secondary state shall be cleared.

When the DLT-CRS-VT1 command is successfully completed in ring mode, the STBYH/WRK secondary state on the FROM and TO VT1.5 ports within the ring OC-3/OC-12 will be cleared and the VT1 FFP will be deleted.

When a DLT-CRS-VT1 is completed, all condition types associated with the specified cross-connection are cleared.

A DLT-CRS-VT1 command is denied if:

- The specified cross-connection does not exist.
- CCT of 2WAYPR is entered and the specified VT1.5/VT1.5 two-way path ring cross-connection does not exist.
- CCT of 2WAYDC is entered and the specified VT1.5/VT1.5 two-way drop and continue ring cross-connection does not exist.
- CCT of 2WAY is entered and the specified cross-connection is a one-way connection.
- The specified cross-connection is part of a broadcast conference connection.
- Either of the specified FROM or TO VT1.5 ports are in a test access operation (a VT1.5 or cross-connection SST of TS), have been terminated (using CHG-TL-DIG, a cross-connection SST of TERMB, TERMF, TERMT), or are under roll operation (the entity has ROLL secondary state).
- If both FROM and TO parameters do not refer to VT1.5.
- The command addresses a VT1.5 embedded within protection OC-3 or a protection OC-12.
- An invalid parameter value is entered.

INPUT FORMAT

DLT-CRS-VT1 : [TID] : FROM, TO : [CTAG] : : [CCT] : [RDLMODE] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >
Default:	<SID>
Addressing:	None
Description:	Target Identifier, specifies the network node TID for the command.

FROM	<p>VT1_AID:</p> <p>{EC1VT1-{1-3840}-{1-7}-{1-4}} (EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)</p> <p>{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}} (OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)</p> <p>{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}} (OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)</p> <p>Default: Entry Required</p> <p>Addressing: &&-ranging and &-grouping</p> <p>Description: VT1 AID. If CCT=1WAY, FROM identifies the receive side (from the network) of the cross-connection specified by the FROM,TO AID pair. If CCT=2WAY then either AID of the cross-connection may be used as the FROM AID.</p>								
TO	<p>VT1_AID:</p> <p>{EC1VT1-{1-3840}-{1-7}-{1-4}} (EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)</p> <p>{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}} (OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)</p> <p>{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}} (OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)</p> <p>Default: Entry Required</p> <p>Addressing: &&-ranging and &-grouping</p> <p>Description: VT1 AID. If CCT=1WAY, TO identifies the transmit side (to the network) of the cross-connection specified by the FROM,TO AID pair. If CCT=2WAY then either AID of the cross-connection may be used as the TO AID.</p>								
CTAG	<p>< 1-6 VALID CTAG CHARACTERS ></p> <p>Default: < System assigned CTAG value ></p> <p>Addressing: None</p> <p>Description: Correlation Tag, associates input command with its output responses.</p>								
CCT	<p>{1WAY, 2WAY, 2WAYPR, 2WAYDC}</p> <p>Default: {2WAY}</p> <p>Addressing: None</p> <p>Description: Cross-Connect Type. Values are:</p> <table> <tr> <td>1WAY</td><td>One-Way. Delete a one-way cross-connection or bridge between the FROM and TO VT1.5 ports.</td></tr> <tr> <td>2WAY</td><td>Two-Way. Delete a two-way cross-connection between the FROM and TO VT1.5 ports.</td></tr> <tr> <td>2WAYPR</td><td>Two-Way Path Ring. Delete a two-way path ring cross-connection between the FROM and TO ports. This value is only valid for VT1.5 (embedded within OC-3s or OC-12s) to VT1.5 ring cross-connections.</td></tr> <tr> <td>2WAYDC</td><td>Two-Way Drop and Continue. Delete a two-way drop and continue cross-connection between the FROM and TO ports. This value is only valid for VT1.5 (embedded within OC-3s or OC-12s) to VT1.5 ring cross-connections.</td></tr> </table>	1WAY	One-Way. Delete a one-way cross-connection or bridge between the FROM and TO VT1.5 ports.	2WAY	Two-Way. Delete a two-way cross-connection between the FROM and TO VT1.5 ports.	2WAYPR	Two-Way Path Ring. Delete a two-way path ring cross-connection between the FROM and TO ports. This value is only valid for VT1.5 (embedded within OC-3s or OC-12s) to VT1.5 ring cross-connections.	2WAYDC	Two-Way Drop and Continue. Delete a two-way drop and continue cross-connection between the FROM and TO ports. This value is only valid for VT1.5 (embedded within OC-3s or OC-12s) to VT1.5 ring cross-connections.
1WAY	One-Way. Delete a one-way cross-connection or bridge between the FROM and TO VT1.5 ports.								
2WAY	Two-Way. Delete a two-way cross-connection between the FROM and TO VT1.5 ports.								
2WAYPR	Two-Way Path Ring. Delete a two-way path ring cross-connection between the FROM and TO ports. This value is only valid for VT1.5 (embedded within OC-3s or OC-12s) to VT1.5 ring cross-connections.								
2WAYDC	Two-Way Drop and Continue. Delete a two-way drop and continue cross-connection between the FROM and TO ports. This value is only valid for VT1.5 (embedded within OC-3s or OC-12s) to VT1.5 ring cross-connections.								
RDLMODE	<p>{INCL, NORM}</p> <p>Default: {NORM}</p> <p>Addressing: None</p> <p>Description: Redline Mode. Values are:</p> <table> <tr> <td>INCL</td><td>INCLusive. Both normal and redlined connections will be deleted</td></tr> <tr> <td>NORM</td><td>NORMal. Only normal (non-redlined) connections will be deleted</td></tr> </table> <p>Restrictions: DLT-CRS-VT1 is denied if INCL is not specified for a redlined connection.</p>	INCL	INCLusive. Both normal and redlined connections will be deleted	NORM	NORMal. Only normal (non-redlined) connections will be deleted				
INCL	INCLusive. Both normal and redlined connections will be deleted								
NORM	NORMal. Only normal (non-redlined) connections will be deleted								

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent
IIAC	Input, Invalid ACcess identifier
SADC	Status, Already DisConnected
SARB	Status, All Resources Busy
	/*A switch is in progress for this protection group*/
	/*Please try the command again later.*/
SDBE	Status, internal Data Base Error
	/*Failed to Update Sptg Tps: Status=<ERROR-CODE>*/
	/*Failed to put B2 TP database record <RECORD-NUMBER> for status <ERROR-CODE>*/
	/*Failed to put CONN database record <RECORD-NUMBER> for status <ERROR-CODE>*/
	/*Failed to put TP database record <RECORD-NUMBER> for status <ERROR-CODE>*/
	/*RPP Database Error: <ERROR-STRING> for <AID>*/
	/*TP Database Error: <ERROR-STRING> for <AID>*/
SDNC	Status, Data Not Consistent
SNVS	Status, Not in Valid State
SROF	Status, Requested Operation Failed
SRQN	Status, invalid ReQuest

EXAMPLES

In the following example, a one-way VT1.5 cross-connection is disconnected between ports EC1VT1-1-1-4 (FROM) and OC3VT1-15-2-7-4 (TO). The specified one-way cross-connection is disconnected whether the existing connection is a one-way or a two-way cross-connection. This cross-connection was previously designated as redlined to help prevent inadvertent disconnection.

```
DLT-CRS-VT1::EC1VT1-1-1-4,OC3VT1-15-2-7-4:::1WAY:INCL;
```

In the following example, a two-way VT.15 cross-connection is disconnected between ports EC1VT1-1-3-3 and OC3VT1-13-3-3-2. Either port may be specified as the FROM or TO AID. The two-way cross-connection is disconnected whether the connection was established as a single two-way connection or as two one-way connections.

```
DLT-CRS-VT1::EC1VT1-1-3-3,OC3VT1-13-3-3-2;
```

RELATED COMMANDS

```
ED-FFP-VT1
```

ENT-CRS-VT1
ENT-VT1
RTRV-CKTID
RTRV-CRS
RTRV-CRS-VT1
RTRV-RDL-ALL
RTRV-VT1

COMMAND CODE: **DLT-EC1**
COMMAND NAME: **DELETE EC1**

PURPOSE

The DLT-EC1 command deletes (unassigns and deprovisions) the specified EC1 object entity (AID). Upon completion of a DLT-EC1 command, the specified EC1 is placed in the deprovisioned state of OOS-MA,UAS.

Executing a DLT-EC1 command causes a state transition for the specified EC1 from:

- IS to OOS-MA,UAS
- OOS-AU to OOS-MA,UAS
- OOS-AU,AINS to OOS-MA,UAS
- OOS-AUMA to OOS-MA,UAS
- OOS-MA to OOS-MA,UAS

When a DLT-EC1 is completed, all condition types associated with the specified EC1 are cleared.

A DLT-EC1 command is denied if:

- The specified EC1 is not provisioned (with the ENT-EC1 command).
- Any embedded STS-1s within the specified EC1 are provisioned (the EC1 has an SST of SDEE).
- The specified EC1 has an SST of LPBK.
- An invalid parameter value is entered.

INPUT FORMAT

DLT-EC1 : [TID] : AID : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	EC1_AID: {EC1-{1-3840} } (EC1-EC1/STS1#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: EC1 AID, identifies the EC1 port.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
SDBE	Status, internal Data Base Error /* TP Database Error: <ERROR-STRING> for <AID-STRING> */ /* EC1 Shelf info error, Error=<ERROR-STRING> */ /* Error enabling corresponding T3s, Error=<ERROR-STRING> */ /* Error disabling supported STS1, Error=<ERROR-STRING> */
SNVS	Status, Not in Valid State
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, EC1 port EC1-16 is deprovisioned:

```
DLT-EC1::EC1-16;
```

In the following example, EC1 ports EC1-1 through EC1-5 and EC1-7 are deprovisioned:

```
DLT-EC1::EC1-1&&-5&-7;
```

RELATED COMMANDS

```
ED-EC1  
ENT-EC1  
RMV-EC1  
RST-EC1  
RTRV-EC1
```

COMMAND CODE: **DLT-EQPT**
COMMAND NAME: **DELETE EQUIPMENT**

PURPOSE

The DLT-EQPT command deletes (unassigns and deprovisions) the specified equipment entity (AID).

If the specified equipment entity is a CDA, CDB, CIM, CPU, DSB, DSI, DSK, EOB, ES1, EP3, HMU, ICM, IOB, IPB, IPU, LMU, M16, M40, O1B, O4M, OXB, P39, P56, PSF, RPB, S3M, SIO, or SPB, the specified entity must be in an OOS-MA or OOS-AUMA state (refer to ED-EQPT and RMV-EQPT) in order for the DLT-EQPT command to execute. Executing a DLT-EQPT command with one of these equipment types specified causes a state transition for the specified equipment entity from

- OOS-MA to OOS-MA,UAS
- OOS-MA,MT to OOS-MA,UAS
- OOS-AUMA,UEQ to OOS-AUMA,UEQ&UAS
- OOS-AUMA,UEQ&MT to OOS-AUMA,UEQ&UAS

If the specified equipment entity is an ACL, LT1, LT2, LT4, LT5, LT8, OPD, PDU, PST, QUAD, RDU, RSP, SHELF, or SWI, the specified entity can only be deleted from an IS or OOS-AU state. Executing a DLT-EQPT command with one of these equipment types specified causes a state transition for the specified equipment entity from

- IS to OOS-MA,UAS
- OOS-AU,UEQ to OOS-AUMA,UEQ&UAS

When a DLT-EQPT is completed, any existing SST (Secondary State) of MEA (Mismatch Equipment and Attributes) and any existing BPMISM condition associated with the specified SHELF is cleared.

If the specified entity is a DSB, the OSIPARMISM condition is cleared if set, on the addressed DSB or its mate.

When a DLT-EQPT is completed, all condition types associated with the specified equipment entity are cleared.

The deprovisioning of supported equipment must be performed prior to the deprovisioning of some types of equipment entities. The supported equipment deprovisioning dependencies are:

- For EP3 equipment: all supported DS3 or EC1 ports and embedded DS1, STS-1, DS3, or VT1.5 ports must be deprovisioned first. If the EP3 is a protection circuit pack, it cannot be performing a protection function.
- For O1B equipment: all supported OC-3 ports and embedded DS1, DS3, STS-1, or VT1.5 ports must be deprovisioned first.
- For O4M equipment: all supported OC-12 ports and embedded DS1, DS3, STS-1, STS-3C, or VT1.5 ports must be deprovisioned first.
- For S3M equipment: associated O4M equipment must be deprovisioned first.
- For S3M equipment: all supported STS-3C ports and embedded DS1, STS-1, DS3, or VT1.5 ports must be deprovisioned first.
- For EP3 equipment other than the EP3 located in the right-most card slot of an SI48 half-shelf: the EP3 equipment entity physically located to the right of the specified EP3 must be deprovisioned first.
- For ES1 equipment: all supported STS-1 ports and VT1.5 ports must be deprovisioned first. If the ES1 is a protection circuit pack, it cannot be performing a protection function.
- For ES1 equipment other than the ES1 located in the right-most card slot of an SI48 half-shelf: the ES1 equipment entity physically located to the right of the specified ES1 must be deprovisioned first.
- For DSI equipment: all supported DS1 ports must be deprovisioned first. If the DSI is a protection circuit pack, it cannot be performing a protection function.
- For LMU or HMU equipment: all supported DS3 ports and embedded DS1 ports must be deprovisioned first. If the LMU is a protection circuit pack, it cannot be performing a protection function. If an HMU is specified, it cannot be performing a protection function.
- For SHELF equipment entity: all provisioned equipment in the I/O shelf must be deprovisioned first.
- For QUAD equipment entity: all provisioned equipment in the I/O shelf must be deprovisioned first.
- For ACL equipment: all supported SPB or IPU equipment must be deprovisioned first.
- For LT4 and LT8 equipment: all supported ACL equipment must be deprovisioned first.

- For LT1, LT2, and LT5 equipment: all supported communication ports must be removed (RMV–CID) or deprovisioned (DLT–CID) first.
- For PST equipment: all supported DSK and OPD equipment must be deprovisioned first.

NOTE: Although the ON parameter value can be an integer from 0 to 999999, the user should limit the number of delayed activation commands at any given time to 500.

A DLT–EQPT command can be scheduled for delayed activation. However, command parsing and parameter validation is not performed until the command is executed (at the delay activated scheduled date and time).

A DLT–EQPT command is denied if:

- The specified equipment entity is an ACM, CDA, CDB, CIM, CPU, DSB, DSI, DSK, EOB, EP3, ES1, HMU, ICM, IPB, IPU, LMU, M16, M32, M40, O1B, O4M, OXB, P39, P56, PSF, RPB, S3M, or SPB and the entity is not in an OOS–MA or OOS–AUMA state.
- The specified equipment entity is already unassigned/deprovisioned (an SST of UAS).
- The specified AID addresses a End Stage or EOC shelf and all the modules in the shelf are not in UAS secondary state (i.e., all the modules in the shelf are not deprovisioned).
- An O1B equipment entity is specified and all supported OC–3 ports are not deprovisioned prior to deprovisioning the specified O1B.
- An O4M equipment entity is specified and all supported OC–12 ports are not deprovisioned prior to deprovisioning the specified O4M.
- An S3M equipment entity is specified and its associated O4M module are not deprovisioned prior to deprovisioning the specified S3M.
- An EP3 equipment entity is specified and all supported DS3 or STS–1 ports are not deprovisioned prior to deprovisioning the specified EP3.
- An ES1 equipment entity is specified and all supported VT1.5 or STS–1 ports are not deprovisioned prior to deprovisioning the specified ES1.
- A DSI equipment entity is specified and all supported DS1 ports are not deprovisioned prior to deprovisioning the specified DSI.
- An LMU or HMU equipment entity is specified and all supported DS3 ports and embedded DS1 ports are not deprovisioned prior to deprovisioning the specified LMU or HMU.
- An SIO/ICM is being deleted and the specified entity is the last ICM in the system.
- A supported equipment entity is not deprovisioned prior to deprovisioning the specified entity. (Refer to the paragraph, above, on supported equipment deprovisioning dependencies.)
- A DSB is being deleted and the OC–3 or OC–12 feeding the DSB has DCC enabled.
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

DLT–EQPT: [TID] :AID: [CTAG] : [ON] [, DATE] [, TIME] [, FLAG] :: [CMDMDE=] ;

INPUT PARAMETERS

TID	<1–20 VALID TID CHARACTERS>
Default:	<SID>
Addressing:	None
Description:	Target Identifier, specifies the network node TID for the command.
AID	EQUIPMENT_AID:
	{ACL–1–2–{9–28, 37–56, 65–84, 93–112}}
	{ACM–1–2–{3–7, 10–14}}
	{CDA–{4, 5, 10, 11, 16, 17, 22, 23, 102, 103 }–3–1}
	{SI36: CDB–{6–9, 12–15, 18–21, 24–43}–{1, 3}–{1–2},
	{SI48: CDB–{2–43, 102–111 ,112–135, 136–141 }–{1, 3}–{1, 2}}
	{CIM–1–2–{3–7, 10–14}}
	{CPU–1–2–{1–2}}
	{DSB–{6–9, 12–15, 18–21, 24–43, 104–111 , 112–135, 136–141 }–{1, 3}–{1–2}}

{DSI-{44-63}-{1-4}-{1-32}}
 {DSK-1-3-1,
 DSK-1-4-2}
 {EOB-{5}-{1, 3}-{1-5}}
 {SI48: EOB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2},
 EOC: EOB-{4-5, 10-11, 16-17, 22-23, **102, 103**}-1-{1-7, 9-15}}
 {SI48: EP3-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42,
 104-106, 108-110}-{1, 3}-{1-18},
 EP3-{9, 21, 35, 43, **107**}-3-{1-18},
 EP3-{15, 27, 31, 39, **111**}-1-{1-18}}
 {SI36: EP3-{6-8, 12-14}-{1, 3}-{1-14},
 EP3-9-3-{1-14},
 EP3-15-1-{1-14}}
 {SI48: ES1-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42,
 104-106, 108-110}-{1, 3}-{1-18},
 ES1-{9, 21, 35, 43, **107**}-3-{1-18},
 ES1-{15, 27, 31, 39, **111**}-1-{1-18}}
 {SI36: ES1-{6-8, 12-14}-{1, 3}-{1-14},
 ES1-9-3-{1-14},
 ES1-15-1-{1-14}}
 {HMU-{44-53}-{1-4}-{1-8}}
 {ICM-1-2-{1, 2, 8, 9}}
 {IOB-{6-8, 12-14}-{1, 3}-{1, 3, 5, 7},
 IOB-9-3-{1, 3, 5, 7},
 IOB-15-1-{1, 3, 5, 7}}
 {IPB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2}}
 {IPU-{44-63}-{1-4}-{1-8}}
 {LMU-{44-53}-{1-4}-{1-32}}
 {LT1-1-1-{1-6}}
 {LT2-1-1-{1-6}}
 {LT4-1-1-{7-16}}
 {LT5-1-1-{2-6}}
 {LT8-1-1-{7-16}}
 {M16-{2-5, 10-11, 16-17, 22-23, **102, 103**}-3-{1-16}}
 {M32-{4-5, 10-11, 16-17, 22-23, **102, 103**}-3-{1-16},
 M32-{5}-{1, 3}-{1-3, 6-8}}
 {M40-{2-3}-{1, 3}-{1-16}}
 {O1B-{6-9, 12-15, 18-21, **104-111**, 24-43, 112-135, **136-141**}-{1, 3}-{2-9, 11-18}}
 {O4M-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **135-141**}-{1, 3}-{2-3, 11-12}}
 {OPD-1-3-1,
 OPD-1-4-2}
 {OXB-{44-63}-{1-4}-{1-2}}
 {P39-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-3},
 P39-{4, 5, 10, 11, 16, 17, 22, 23, **102, 103**}-1-{1-3},
 P39-{4, 5, 10, 11, 16, 17, 22, 23, **102, 103**}-3-{1-4},
 P39-{5}-{1, 3}-{1-4}}
 {P56-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-5},
 P56-{2-3}-{1, 3}-{1-4},
 P56-{4, 5, 10, 11, 16, 17, 22, 23, **102, 103**}-1,3-{1-5},
 P56-{5}-{1, 3}-{1-4}}
 {PDU-{2-43, **102-111**, 112-135, **136-141**}-0-1}
 {PRT-{44-63}-{1-4}-{8, 16, 24, 32}}
 {PSF-1-{3, 4}-{1, 2},
 PSF-{44-63}-{1-4}-{1-2}}

{PST-1-{3, 4}-{1-2}}
 {QUAD-{44-63}-{1-4}-{1-4}}
 {RDU-{44-63}-0-1}
 {RPB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2}}
 {RSP-{1, 101}-0-1}
 {S3M-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{4-9, 13-18}}
 {SHELF-{2, 3}-1-1}
 {SHELF-{4-43, 112-135}-{1, 3}-1}
 {SHELF-{6-9, 12-15, 18-21, 24-43, 112-135}-{1, 3}-1}
 {SHELF-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42}-{1, 3}-1,
 SHELF-{9, 21, 35, 43}-3-1,
 SHELF-{15, 27, 31, 39}-1-1}}
 {SIO-1-2-{1-2, 8-9}}
 {SPB-{2-43, **102-111**, 112-135, **136-141**}-{1, 3}-{1-2}}
 {SWI-{44-63}-{1-4}-{1-7, 9-15, 17-23, 25-31}}

Default: Entry Required

Addressing: None

Description: Equipment AID, identifies the equipment entity. Refer to Appendix B, Access Identifiers (AIDs) for a definition of equipment mnemonics.

Restrictions: DLT-EQPT with AID of {SHELF-9-3-1, SHELF-15-1-1, SHELF-21-3-1, or SHELF-27-1-1} is denied if its companion {SHELF-9-1-1, SHELF-15-3-1, SHELF-21-1-1, SHELF-27-3-1}, is still provisioned (i.e., it is not in OOS-AUMA, UAS state.)

CTAG <1-6 VALID CTAG CHARACTERS>

Default: <System Assigned CTAG Value>

Addressing: None

Description: Correlation Tag, associates input command with its output responses.

ON {ON_AID:0-999999, <NoVal>}

Default: <NoVal>

Addressing: None

Description: Order Number, unique user-assigned integer number (up to six digits) used to identify scheduled (delay activated) commands. Values are:

{0-999999} User-assigned Order Number. The command is scheduled to be executed as specified by DATE and TIME. If no value is entered for DATE or TIME, the command is scheduled for delayed manual activation (the command is entered in the delayed activation table and manually scheduled by using the ACT-DA command).

<NoVal> No Value, the command is executed immediately. (No value is entered for ON (Order Number), DATE, and TIME if DLT-EQPT is to be executed immediately – not delay activated.)

Restrictions: DLT-EQPT is denied if no value is entered for ON (Order Number) and a value is entered for either DATE, TIME, or FLAG.

DATE	{YY-MM-DD:{00-37,70-99} – {1-12, ALL} – {1-31, ALL}, {DAY:{SUN, MON, TUE, WED, THU, FRI, SAT, EVEN, ODD, ALL}, <NoVal>}
Default:	<NoVal>
Addressing:	None
Description:	<p>Date, specifies the date the command is scheduled to be executed. A specific date is specified by the value format <YY> – <MM> – <DD> where <YY> is the year, <MM> is the month, <DD> is the day. Values for <YY> from 70 through 99 are interpreted as the year 1970 through the year 1999 and 00 through 37 are interpreted as the year 2000 through the year 2037. Values are:</p> <p><YY> – <MM> – <DD> Command is scheduled to be executed on the specified year, month, and day.</p> <p><YY> – <MM> – ALL Command is scheduled to be executed every day on the specified year and month.</p> <p><YY> –ALL– <DD> Command is scheduled to be executed every month on the specified year and day.</p> <p><YY> –ALL–ALL Command is scheduled to be executed every day of every month of the specified year.</p> <p>ALL– <MM> – <DD> Command is scheduled to be executed every year on the specified month and day.</p> <p>ALL– <MM> –ALL Command is scheduled to be executed every day of every year on the specified month.</p> <p>ALL–ALL– <DD> Command is scheduled to be executed every month of every year on the specified day.</p> <p>SUN Command is scheduled to be executed every Sunday.</p> <p>MON Command is scheduled to be executed every Monday.</p> <p>TUE Command is scheduled to be executed every Tuesday.</p> <p>WED Command is scheduled to be executed every Wednesday.</p> <p>THU Command is scheduled to be executed every Thursday.</p> <p>FRI Command is scheduled to be executed every Friday.</p> <p>SAT Command is scheduled to be executed every Saturday.</p> <p>EVEN Command is scheduled to be executed every even day (from January 1, 1970).</p> <p>ODD Command is scheduled to be executed every odd day (from January 1, 1970).</p> <p>ALL Command is scheduled to be executed every day.</p> <p><NoVal> No Value, the command is executed immediately if no value is entered for ON (Order Number), DATE, and TIME (not delay activated), or the command is scheduled to be executed at the next occurrence of the time specified by TIME.</p>
Restrictions:	DLT–EQPT is denied if a value is entered for DATE and no value is entered for ON (Order Number).

TIME	{HH-MM-SS:{0-23, ALL} – {0-59} – {0-59, HLF, QTR}, <NoVal> Default: <NoVal> Addressing: None Description: Time, specifies the time the command is scheduled to be executed. A specific time is specified by the value format <HH> – <MM> – <SS> where <HH> is the hour, <MM> is the minute, and <SS> is the second. A value for <SS> must be entered, but the system uses a value of 0 when any integer value is entered. Values are: <HH> – <MM> – <SS> The command is scheduled to be executed at the specified hour and minute. ALL– <MM> – <SS> The command is scheduled to be executed every hour at the specified minute. <HH> – <MM> –HLF Two commands are scheduled to be executed, one command at the hour and minute specified by <HH> and <MM> and one command a half-hour (30 minutes) later. (<MM> must be less than 30.) <HH> – <MM> –QTR Four commands are scheduled to be executed, one command at the hour and minute specified by <HH> and <MM> and one command each quarter-hour (15 minutes) later. (<MM> must be less than 15.) ALL– <MM> –HLF Two commands are scheduled to be executed every hour, one command at the minute specified by <MM> and one command a half-hour (30 minutes) later. (<MM> must be less than 30.) ALL– <MM> –QTR Four commands are scheduled to be executed every hour, one command at the minute specified by <MM> and one command each quarter-hour (15 minutes) later. (<MM> must be less than 15.) <NoVal> No Value, the command is executed immediately if no value is entered for ON (Order Number), DATE, and TIME (not delay activated), or the command is scheduled to be executed at the current time on the date specified by DATE. Restrictions: DLT–EQPT is denied if a value is entered for TIME and no value is entered for ON (Order Number). DLT–EQPT is denied if <SS> of HLF or QTR is entered and <MM> is not less than 30 or 15, respectively.
FLAG	{0, <NoVal>} Default: <NoVal> Addressing: None Description: Flag. The value for FLAG is verified, but not processed by the system. Restrictions: DLT–EQPT is denied if a value is entered for FLAG and no value is entered for ON (Order Number).
CMDMDE=	{FRCD, NORM} Default: {NORM} Addressing: None Description: Command Execution Mode. Value is: FRCD Forced. The command is completed even if the result of its execution is service-affecting. NORM Normal. The command is denied if the result of its execution is service-affecting.

SUCCESSFUL RESPONSE FORMAT

The following successful response format is provided when the DLT-EQPT command is executed. If the command is executed as a scheduled (delay activated) command, the delay activation Order Number is provided in the command echo line.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  /* The DLT-EQPT for <AID> was completed. */
  /* <Command Echo> [<CTAG>] ({<CID[-VCNUM]>,<CRON:<Order_Number>}) */
;
```

The following output response format is provided if the DLT-EQPT command is scheduled for delayed activation (values for ON (Order Number), DATE, and TIME were entered).

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DELAY
  /* Command has been scheduled */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;
```

OUTPUT PARAMETERS

AID	<p>EQUIPMENT_AID:</p> <pre>{ACL-1-2-{9-28, 37-56, 65-84, 93-112}} {ACM-1-2-{3-7, 10-14}} {CDA-{4, 5, 10, 11, 16, 17, 22, 23, 102, 103}-3-1} {SI36: CDB-{6-9, 12-15, 18-21, 24-43}-{1, 3}-{1-2}, {SI48: CDB-{2-43,102-111,112-135,136-141}-{1, 3}-{1, 2} {CIM-1-2-{3-7, 10-14}} {CPU-1-2-{1-2}} {DSB-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{1-2}} {DSI-{44-63}-{1-4}-{1-32}} {DSK-1-3-1, DSK-1-4-2} {EOB-{5}-{1, 3}-{1-5}} {SI48: EOB-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{1-2}, EOC: EOB-{4-5, 10-11, 16-17, 22-23, 102, 103}-1-{1-7, 9-15}} {SI48: EP3-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42, 104-106,108-110}-{1, 3}-{1-18}, EP3-{9, 21, 35, 43, 107}-3-{1-18}, EP3-{15, 27, 31, 39, 111}-1-{1-18}} {SI36: EP3-{6-8, 12-14}-{1, 3}-{1-14}, EP3-9-3-{1-14}, EP3-15-1-{1-14}} {SI48: ES1-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42, 104-106,108-110}-{1, 3}-{1-18}, ES1-{9, 21, 35, 43, 107}-3-{1-18}, ES1-{15, 27, 31, 39, 111}-1-{1-18}} {SI36: ES1-{6-8, 12-14}-{1, 3}-{1-14}, ES1-9-3-{1-14}, ES1-15-1-{1-14}} {HMU-{44-53}-{1-4}-{1-8}} {ICM-1-2-{1, 2, 8, 9}} {IOB-{6-8, 12-14}-{1, 3}-{1, 3, 5, 7}, IOB-9-3-{1, 3, 5, 7}, IOB-15-1-{1, 3, 5, 7}}</pre>
-----	---

{IPB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2}}
 {IPU-{44-63}-{1-4}-{1-8}}
 {LMU-{44-53}-{1-4}-{1-32}}
 {LT1-1-1-{1-6}}
 {LT2-1-1-{1-6}}
 {LT4-1-1-{7-16}}
 {LT5-1-1-{2-6}}
 {LT8-1-1-{7-16}}
 {M16-{2-5, 10-11, 16-17, 22-23, **102**, **103**}-3-{1-16}}
 {M32-{4-5, 10-11, 16-17, 22-23, **102**, **103**}-3-{1-16},
 M32-{5}-{1, 3}-{1-3, 6-8}}
 {M40-{2-3}-{1, 3}-{1-16}}
 {O1B-{6-9, 12-15, 18-21, **104-111**, 24-43, 112-135, **136-141**}-{1, 3}-{2-9, 11-18}}
 {O4M-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **135-141**}-{1, 3}-{2-3, 11-12}}
 {OPD-1-3-1,
 OPD-1-4-2}
 {OXB-{44-63}-{1-4}-{1-2}}
 {P39-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-3},
 P39-{4, 5, 10, 11, 16, 17, 22, 23, **102**, **103**}-1-{1-3},
 P39-{4, 5, 10, 11, 16, 17, 22, 23, **102**, **103**}-3-{1-4},
 P39-{5}-{1, 3}-{1-4}}
 {P56-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-5},
 P56-{2-3}-{1, 3}-{1-4},
 P56-{4, 5, 10, 11, 16, 17, 22, 23, **102**, **103**}-1,3-{1-5},
 P56-{5}-{1, 3}-{1-4}}
 {PDU-{2-43, **102-111**, 112-135, **136-141**}-0-1}
 {PRT-{44-63}-{1-4}-{8, 16, 24, 32}}
 {PSF-1-{3, 4}-{1, 2},
 PSF-{44-63}-{1-4}-{1-2}}
 {PST-1-{3, 4}-{1-2}}
 {QUAD-{44-63}-{1-4}-{1-4}}
 {RDU-{44-63}-0-1}
 {RPB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2}}
 {RSP-{1, 101}-0-1}
 {S3M-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{4-9, 13-18}}
 {SHELF-{4-43, 112-135}-{1, 3}-1}
 {SHELF-{2,3}-1-1}
 {SIO-1-2-{1-2, 8-9}}
 {SPB-{2-43, **102-111**, 112-135, **136-141**}-{1, 3}-{1-2}}
 {SWI-{44-63}-{1-4}-{1-7, 9-15, 17-23, 25-31}}
 Equipment AID, identifies the equipment entity. Refer to Appendix B, Access Identifiers (AIDs) for a definition of equipment mnemonics.

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier /* Invalid or unassigned equipment identifier specified. */ /* <AID> is not a SONET I/O shelf. */ /* Unsupported card type for this command. */ /* Cannot deprovision center stage equipment <AID>. */ /* Cannot deprovision Compact LMC shelf equipment <AID>. */ /* Invalid I/O shelf specified. */ /* Invalid I/O quad specified. */ /* Invalid AID for the given slot. */ /* Invalid AID specified. */ /* SHELF has been provisioned the PBTYPE as <CARD_TYPE>. */ /* Not allowed to delete center stage <AID>. */ /* Not allowed to delete Compact LMC shelf <AID>. */
SARB	Status, All Resources Busy /* Command already in progress on equipment. */ /* Automatic system configuration active on equipment. */ /* Automatic configuration (database download) of parent processor in progress. */ /* Level 2 processor software download in progress. Try again later. */
SCSN	Status, invalid Command SequeNce /* <AID> must be deprovisioned first */ /* In service growth Loopbacks on supported facilities must first be released */
SDBE	Status, internal Data Base Error /* <AID> database read error. */ /* Unable to read facility database. */ /* Unable to read system configuration file. */ /* Unable to update system configuration file. */ /* Error updating database for <AID>. */ /* Error updating system size in database. */ /* <AID> database update error. */ /* Error reading reference table for <AID>. */ /* Error initializing database for <AID>. */ /* Error updating reference table for <AID>. */ /* Error deleting database record for <AID>. */ /* Error reading cable input database for bay <#>, shelf <#>. */ /* Error reading output cable database for <#>. */ /* Error deprovisioning matrix data cables for <AID>. */ /* Error reading database for <AID>. */ /* Error reading acluse table for <AID>. */ /* Error updating acluse table for <AID>. */
SNVS	Status, Not in Valid State /* Equipment already deprovisioned. */ /* Command not valid for current state of equipment. */ /* Supported facilities must first be deprovisioned */ /* Other quads in the shelf must be deprovisioned first. */ /* Quads in the next shelf must be deprovisioned first. */ /* The OCS shelf must be deprovisioned first. */ /* Section/Line DCC must first be disabled. */ /* Supported facilities must first be deprovisioned */ /* <AID> is not allowed to be deleted for current system size. */ /* <AID> must be deprovisioned. */

SROF Status, Requested Operation Failed
 /* <AID> must be deleted first. */
 /* <AID> must be moved off protection. */
 /* <AID> must not be providing protection. */
 /* <AID> must be deprovisioned first */
 /* <AID> must be deleted before deleting shelf. */
 /* <AID> has not been removed from service. */
 /* <AID> must be deleted before deleting quad. */
 /* Deletion of <AID> not allowed. */
 /* Must delete <AID> before <AID>. */
 /* Auto system action caused override. */
SSRE Status, System Resources Exceeded
 /* Unable to allocate USI response buffer. */

EXAMPLE

In the following example, EP3-6-1-3 is deprovisioned to an OOS-MA,UAS state (assuming the circuit pack is installed in the system).

```
DLT-EQPT::EP3-6-1-3;  
  
      <SID> <YY-MM-DD> <HH:MM:SS>  
M P78023 COMPLD  
      /* The DLT-EQPT for EP3-6-3-1 was completed. */  
      /* EP3-6-3-1 deleted. */  
      /* DLT-EQPT::EP3-6-3-1 [P78023] (1) */
```

RELATED COMMANDS

ACT-DA
CANC-DA
DLT-DA
DLT-T1
DLT-T3
ED-EQPT
ENT-EQPT
RMV-EQPT
RST-EQPT
RTRV-DA
RTRV-EQPT
RTRV-STATE-EQPT

COMMAND CODE: **DLT-F3**
COMMAND NAME: **DELETE F3**

PURPOSE

The DLT-F3 command deletes (unassigns and deprovisions) the specified F3 (Fractional DS3) object entity (AID). Upon completion of a DLT-F3 command, the specified F3 is placed in the deprovisioned state of OOS-MA,UAS.

When an F3 is deleted via the DLT-F3 command, any DS1s that were assigned to it are automatically unassigned and thereafter can be reassigned to other F3s (using ENT-F3 or ED-F3).

A DLT-F3 command is denied if:

- The specified F3 is not provisioned (using ENT-F3).
- An invalid parameter value is entered.

INPUT FORMAT

DLT-F3 : [TID] : AID : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	F3_AID: {T3F3-{1-4800}-{1-14}} (T3F3-DS3#-Fractional_DS3#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: F3 AID, identifies a fractional DS3 group of DS1s.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
SDBE	Status, internal Data Base Error
	/* TP Database Error: <ERROR-STRING> for <AID-STRING> */
	/* Error updating supporting entity, Error=<ERROR-STRING> */
SNVS	Status, Not in Valid State
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, F3 #2 in DS3 T3-6 is deprovisioned:

```
DLT-F3::T3F3-6-2;
```

In the following example, F3s T3F3-4-3 through T3F3-4-5 are deprovisioned:

```
DLT-F3::T3F3-4-3&&-5;
```

RELATED COMMANDS

```
ED-F3  
ED-T1  
ENT-F3  
ENT-T1  
RTRV-F3
```


COMMAND CODE: **DLT-FFP-OC12**
COMMAND NAME: **DELETE FAST FACILITY PROTECTION
OC-12**

PURPOSE

The DLT-FFP-OC12 command deletes (unassigns) a facility protection group for OC-12. It disassociates a protecting (alternate) OC-12 from a protected (main/preferred) OC-12.

If the protecting OC-12 that is specified in B2 does not have any protection relationship with any other OC-12, executing DLT-FFP-OC12 clears the SST of STBYH on that specified OC-12.

An DLT-FFP-OC12 command is denied if:

- The OC-12 specified in B1 and B2 parameters do not refer to working and protection OC-12 respectively.
- The OC-12 specified in B1 and/or B2 is not provisioned (i.e., it is in UAS secondary state).
- The specified OC-12 is the protection line that is carrying service.
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

DLT-FFP-OC12 : [TID] : B1 , B2 : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
B1	OC12_AID: {OC12-{1-560}} (OC12-OC12#) Default: Entry Required Addressing: None Description: OC12 AID, identifies the protected (working) OC-12 port. Restrictions: The command is denied if the OC-12 specified is not an odd-numbered OC-12.
B2	OC12_AID: {OC12-{1-560}} (OC12-OC12#) Default: Entry Required Addressing: None Description: OC12 AID, identifies the protecting (protection) OC-12 port. Restrictions: The command is denied if the OC-12 specified is not an even-numbered OC-12. The command is denied if B2 is not adjacent to B1 (is not equal to B1+1).
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* <Free Form Informational Text> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

SARB	Status, All Resources Busy /*Protected IO3 card has download activity in progress*/ /*Protecting IO3 card has download activity in progress*/ /*A switch is in progress for this protection group*/ /*Please try the command again later*/
SDBE	Status, internal Data Base Error /*TP Database Error: <ERROR-STRING> for <AID-STRING>*/ /*FFP Database Error: <ERROR-STRING>*/ /*DCC Database Error: <ERROR-STRING> for record number <RECORD-NUMBER>*/

EXAMPLES

In the following example, OC-12 port OC12-14 is deprovisioned from being the protection line for the working line OC12-13.

```
DLT-FFP-OC12::OC12-13,OC12-14;
```

RELATED COMMANDS

```
DLT-OC12
ENT-FFP-OC12
ENT-OC12
RTRV-FFP-OC12
```

COMMAND CODE: **DLT-FFP-OC3**
COMMAND NAME: **DELETE FAST FACILITY PROTECTION
OC3**

PURPOSE

The DLT-FFP-OC3 command deletes (unassigns) a facility protection group for OC-3. It disassociates a protecting (alternate) OC-3 from a protected (main/preferred) OC-3.

If the protecting OC-3 that is specified in B2 does not have any protection relationship with any other OC-3, executing DLT-FFP-OC3 clears the SST of STBYH on that specified OC-3.

An DLT-FFP-OC3 command is denied if:

- The OC-3 specified in B1 and B2 parameters do not refer to working and protection OC-3 respectively.
- The OC-3 specified in B1 and/or B2 is not provisioned (i.e., it is in UAS secondary state).
- The specified OC-3 is the protection line that is carrying service.
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

DLT-FFP-OC3 : [TID] : B1 , B2 : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
B1	OC3_AID: {OC3-{1-2240}} (OC3-OC3#) Default: Entry Required Addressing: None Description: OC3 AID, identifies the protected (working) OC-3 port. Restrictions: The command is denied if the OC-3 specified is not an odd-numbered OC-3.
B2	OC3_AID: {OC3-{1-2240}} (OC3-OC3#) Default: Entry Required Addressing: None Description: OC3 AID, identifies the protecting (protection) OC-3 port. Restrictions: The command is denied if the OC-3 specified is not an even-numbered OC-3. The command is denied if B2 is not adjacent to B1 (is not equal to B1+1).
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* <Free Form Informational Text> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

SARB	Status, All Resources Busy /*Protected IO3 card has download activity in progress*/ /*Protecting IO3 card has download activity in progress*/ /*A switch is in progress for this protection group*/ /*Please try the command again later*/
SDBE	Status, internal Data Base Error /*TP Database Error: <ERROR-STRING> for <AID-STRING>*/ /*FFP Database Error: <ERROR-STRING>*/ /*DCC Database Error: <ERROR-STRING> for record number <RECORD-NUMBER>*/

EXAMPLES

In the following example, OC-3 port OC3-14 is deprovisioned from being the protection line for the working line OC3-13.

```
DLT-FFP-OC3 : : OC3-13 , OC3-14 ;
```

RELATED COMMANDS

```
DLT-OC3
ENT-FFP-OC3
ENT-OC3
RTRV-FFP-OC3
```

COMMAND CODE: **DLT-FTP-USER**
COMMAND NAME: **DELETE FTP USER**

PURPOSE

The DLT-FTP-USER command deletes the user profile entry from the FTP (File Transfer Protocol) User Security Database for the specified FTPUID.

A DLT-FTP-USER command is denied if:

- There is no entry corresponding to the specified FTPUID in the FTP User Security Database.
- A system administrator and Alcatel user profile is specified.
- An invalid parameter value is entered.

INPUT FORMAT

DLT-FTP-USER: [TID] : : [CTAG] : : FTPUID;

INPUT PARAMETERS

TID	< 1–20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1–6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
FTPUID	<5–12 VALID FTPUID CHARACTERS> Default: Entry Required Addressing: None Description: FTP User Identifier, specifies the user ID of the FTP whose user security database entry is to be deleted. (Refer to the FTPUID parameter in ENT-FTP-USER for a description of valid FTPUID values.) Restrictions: DLT-FTP-USER command is denied if an FTPUID of {system, SYSTEM, sysprint, or alcatel} is entered.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
/* <FTPUID> */
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

FTPUID	<5–12 VALID FTPUID CHARACTERS> FTP User Identifier, identifies the FTPUID profile deleted from the database.
--------	---

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Optional Suggested Action Text> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC Input, Data Not Consistent

EXAMPLES

In the following example, user11's user profile is deleted (the FTPUID of user11 is removed from the system).

```
DLT-FTP-USER:::::user11;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P09056. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P09056 COMPLD
/* user11 */
/* DLT-FTP-USER:::::user11 [P09056] (1) */
;
```

RELATED COMMANDS

ED-FTP-USER
ENT-FTP-USER
RTRV-FTP-USER

COMMAND CODE: **DLT-IP-FILTER**
COMMAND NAME: **DELETE IP PACKET FILTER TABLE ENTRY**

PURPOSE

The DLT-IP-FILTER command deletes an entry or all entries from the packet filter table used by the Internet Protocol (IP) router of the stack running on the Local Area Network (LAN) interface on the Intelligent Communication Module (ICM). This command deletes entries from the network layer (Layer 3) parameters pertaining to the packet filter table.

If NETMASK is specified, an entry that matches the IPADDR and NETMASK parameters will be deleted from the IP packet filter table. If NETMASK is not specified, all entries corresponding to the IPADDR parameter and any NETMASK will be deleted.

If DLT-IP-FILTER is issued with IPADDR=ALL and NETMASK is not specified, the entire IP packet filter table for the specified CPORT will be deleted.

The DLT-IP-FILTER command can be executed while in the Limited Command Execution mode (i.e., after execution of a STOP-OPS command) or the Normal Command Execution mode.

A DLT-IP-FILTER command is denied if:

- The specified CID is not configured as the LAN on the ICM.
- The specified CID is not configured with the IP packet filter table entry being deleted.
- An entry corresponding to the IP address specified in the IPADDR and NETMASK parameters does not exist in the IP packet filter table.
- NETMASK is specified while IPADDR=ALL.
- An invalid parameter value is entered.

INPUT FORMAT

DLT-IP-FILTER: [TID] : CPORT : [CTAG] : : IPADDR= [, NETMASK=] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CPORT	{3, 5, 7, 9, 11} Default: Entry Required Addressing: None Description: Control Port, identifies the CID which is configured as the LAN on the ICM module.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
IPADDR=	{{(0-255)-(0-255)-(0-255)-(0-255)}, ALL} Default: <Previously Existing Value> Addressing: None Description: Internet Protocol Address, specifies the IP Address of the NE to which the packet filter table entry is deleted. Name-defined values are: ALL All the packet filter table entries are deleted.
NETMASK=	{{(0-255)-(0-255)-(0-255)-(0-255)}, ALL} Default: ALL Addressing: None Description: Subnet Mask, specifies the subnet mask of the network to which the NE with IPADDR is connected to. Name-defined values are:

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
IDNV	Input, Data Not Valid

EXAMPLES

In the following example, the entries in the packet filter table for CPORT 3 are being deleted and IPADDR is set to ALL.

```
DLT-IP-FILTER::3:::IPADDR=ALL;
```

RELATED COMMANDS

```
ENT-IP-FILTER
RTRV-IP-FILTER
```


COMMAND CODE: **DLT-IP-PRMTR**
COMMAND NAME: **DELETE IP PARAMETERS**

PURPOSE

The DLT-IP-PRMTR command deletes parameters from the Internet Protocol (IP) Layer of the Local Area Network (LAN) interface on the Intelligent Communication Module (ICM).

The DLT-IP-PRMTR command can be executed while in the Limited Command Execution mode (i.e., after execution of a STOP-OPS command) or the Normal Command Execution mode.

A DLT-IP-PRMTR command is denied if:

- The specified CID is not configured as a LAN port on the ICM.
- An invalid parameter value is entered.

INPUT FORMAT

DLT-IP-PRMTR : [TID] : CPORT : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CPORT	{3, 5, 7, 9, 11} Default: Entry Required Addressing: None Description: Control Port, identifies the CID which is configured as the LAN on the ICM module.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
IDNV	Input, Data Not Valid

EXAMPLES

In the following example, the IP layer parameters pertaining to the LAN for CPORT 11 are being deleted.

```
DLT-IP-PRMTR::11;
```

RELATED COMMANDS

```
ED-IP-PRMTR  
ENT-IP-PRMTR  
RTRV-IP-PRMTR
```

COMMAND CODE: **DLT-IP-STATICRT**
COMMAND NAME: **DELETE IP STATIC ROUTER TABLE ENTRY**

PURPOSE

The DLT-IP-STATICRT command deletes an entry or all entries in the static routing table used by the Internet Protocol (IP) router running on the Local Area Network (LAN) interface on the Intelligent Communication Module (ICM). This command deletes an entry in the network layer (Layer 3) parameters pertaining to the static routing table.

If NETMASK is specified, an entry that matches the IPADDR and NETMASK parameters will be deleted from the static routing table. If NETMASK is not specified, all entries corresponding to the IPADDR parameter and any NETMASK will be deleted.

IF DLT-IP-STATICRT is issued with IPADDR=ALL and NETMASK is not specified, the entire static routing table for the specified CPORT will be deleted.

The DLT-IP-STATICRT command can be executed while in the Limited Command Execution mode (i.e., after execution of a STOP-OPS command) or the Normal Command Execution mode.

A DLT-IP-STATICRT command is denied if:

- The specified CID is not configured as the LAN on the ICM.
- An entry corresponding to the IP address specified in the IPADDR and NETMASK parameters does not exist in the static routing table.
- NETMASK is specified while IPADDR=ALL.
- An invalid parameter value is entered.

INPUT FORMAT

DLT-IP-STATICRT: [TID] : CPORT: [CTAG] : : IPADDR= [, NETMASK=] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CPORT	{3, 5, 7, 9, 11} Default: Entry Required Addressing: None Description: Control Port, identifies the CID which is configured as the LAN on the ICM module.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
IPADDR=	{{(0-223)-(0-255)-(0-255)-(0-255)}, ALL} Default: <Previously Existing Value> Addressing: None Description: Internet Protocol Address, specifies the IP Address of the NE to which the static route entry is deleted. Name-defined values are: ALL All the static router table entries are deleted.
NETMASK=	{{(0-255)-(0-255)-(0-255)-(0-255)}, ALL} Default: ALL Addressing: None Description: Subnet Mask, specifies the subnet mask of the network to which the NE with IPADDR is connected to.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
IDNV	Input, Data Not Valid

EXAMPLES

In the following example, all the entries in the static routing table for CPORT 3 are being deleted with IPADDR set to ALL.

```
DLT-IP-STATICRT::3:::IPADDR=ALL;
```

RELATED COMMANDS

```
ED-IP-STATICRT
ENT-IP-STATICRT
RTRV-IP-STATICRT
```

COMMAND CODE: **DLT-MAADDR**
COMMAND NAME: **DELETE MANUAL AREA ADDRESS**

PURPOSE

The DLT-MAADDR command allows deleting of the Manual Area Address of Layer 3 (network layer) of the SONET Data Communication Channel (DCC) network.

Changes to the name-defined parameters are stored in the database and take effect when the OSI stack is (re)initialized. This is accomplished by performing a RST-EQPT of the DSB or by editing the DSB into an IS state from an OOS state via ED-EQPT command. All of the name-defined parameters survive a database backup and restore.

A DLT-MAADDR command is denied if:

- The specified DSB is not provisioned, i.e. the DSB is in a UAS secondary state.
- The specified DSB is not in an OOS-MA or OOS-AUMA state.
- An invalid parameter value is entered.

INPUT FORMAT

DLT-MAADDR: [TID] :AID: [CTAG] : : [MANADNRNUM=] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.								
AID	EQUIPMENT_AID: {DSB-{6-9, 12-15, 18-21, 24-43, 104-111 , 112-135, 136-141 }-{1, 3}-{1-2}} Default: Entry Required Addressing: None Description: DSB AID, identifies the DSB on which the manual area addresses are being deleted.								
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.								
MANADNRNUM={1, 2, 3, ALL}	Default: {1} Addressing: None Description: Manual Area Address Number, determines which of the three manual area addresses is to be deleted. Name-defined values are: <table><tr><td>1</td><td>Specifies level 1 manual area addresses is to be deleted.</td></tr><tr><td>2</td><td>Specifies level 2 manual area addresses is to be deleted.</td></tr><tr><td>3</td><td>Specifies level 3 manual area addresses is to be deleted.</td></tr><tr><td>ALL</td><td>Specifies all three of the manual area addresses are to be deleted.</td></tr></table>	1	Specifies level 1 manual area addresses is to be deleted.	2	Specifies level 2 manual area addresses is to be deleted.	3	Specifies level 3 manual area addresses is to be deleted.	ALL	Specifies all three of the manual area addresses are to be deleted.
1	Specifies level 1 manual area addresses is to be deleted.								
2	Specifies level 2 manual area addresses is to be deleted.								
3	Specifies level 3 manual area addresses is to be deleted.								
ALL	Specifies all three of the manual area addresses are to be deleted.								

SUCCESSFUL RESPONSE FORMAT

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent /* Unable to read aux buffer for <AID> */
IDNV	Input, Data Not Valid /* Invalid parameter in the input command */
IIAC	Input, Invalid ACcess identifier /* Invalid or unassigned equipment identifier specified */
SARB	Status, All Resources Busy /* Command already in progress on equipment. */ /* Automatic system configuration active on equipment. */ /* Automatic configuration (database download) of parent processor in progress. */ /* Level 2 processor software download in progress. Try again later. */ /* INIT-SYS command still active on shelf that equipment is on. */
SDBE	Status, internal Data Base Error /* Data base access failure. */ /* Unable to read the LANDCC database. */ /* Unable to update the LANDCC database. */
SNVS	Status, Not in Valid State /* DSB is not in a Maintenance state. */

EXAMPLES

In the following example, all three of the manual area addresses for DSB-6-1-1 are deleted:

```
DLT-MAADDR::DSB-6-1-1:::MANADNRNUM= ALL;

<SID> <YY-MM-DD> <HH:MM:SS>
M P72005 COMPLD
/* The DLT-MAADDR for DSB-6-1-1 was completed. */
/* DLT-MAADDR::DSB-6-1-1:::MANADNRNUM= ALL [P72005] (1) */
```

RELATED COMMANDS

```
ED-MAADDR
ENT-MAADDR
RTRV-MAADDR
```

COMMAND CODE: **DLT-OC12**
COMMAND NAME: **DELETE OC-12**

PURPOSE

The DLT-OC12 command deletes (unassigns and deprovisions) the specified OC-12 object entity (AID). Upon completion of a DLT-OC12 command, the specified OC-12 is placed in the deprovisioned state of OOS-MA,UAS.

Executing an DLT-OC12 command causes a state transition for the specified OC-12 from

- IS to OOS-MA,UAS
- OOS-AU to OOS-MA,UAS
- OOS-AU,AINS to OOS-MA,UAS
- OOS-AUMA to OOS-MA,UAS
- OOS-MA to OOS-MA,UAS

When a DLT-OC12 is completed, all condition types associated with the specified OC-12 are cleared.

A DLT-OC12 command is denied if:

- The specified OC-12 is not provisioned (with the ENT-OC12 command).
- Any embedded STS-1s within the specified OC-12 are provisioned (the OC-12 has an SST of SDEE).
- The specified OC-12 has an SST of LPBK.
- A FFP protection relationship exists for the specified OC-12 (refer to DLT-FFP-OC12).
- The specified OC-12 is being used as a source for a Derived DS1.
- The specified OC-12 is associated with a mate OC-12 in a ring protection relationship (using ENT-RNG-OC12).
- An invalid parameter value is entered.

INPUT FORMAT

DLT-OC12: [TID] :AID: [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	OC12_AID: {OC12-{1-560}} (OC12-OC12#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: OC12 AID, identifies the OC-12 port.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID [-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
SDBE	Status, internal Data Base Error
	/* ConvertTPNum(TP_OC12, <RECORD-NUMBER>, TP_OC3): <ERROR-STRING>*/
	/* TP Database Error: <ERROR-STRING> for <AID-STRING> */
	/* Error disabling supported STS1s, Error=<ERROR-STRING> */
	/* Error disabling supported DCC, Error=<ERROR-STRING> */
	/*TPidToTarpD(<TP-TYPE>, <RECORD-NUMBER>): <ERROR-STRING>*/
	/*TPidToGlobTPid(<TP-TYPE>, <RECORD-NUMBER>): <ERROR-STRING>*/
	/*TARP_DCC Database Error: <ERROR-STRING> for record number <RECORD-NUMBER>*/
SNVS	Status, Not in Valid State
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, OC-12 port OC12-16 is deprovisioned:

```
DLT-OC12::OC12-16;
```

In the following example, EC1 ports OC12-1 through OC12-5 and OC12-7 are deprovisioned:

```
DLT-OC12::OC12-1&&-5&-7;
```

RELATED COMMANDS

```
ED-OC12
ENT-OC12
RMV-OC12
RST-OC12
RTRV-OC12
```


COMMAND CODE: **DLT-OC3**
COMMAND NAME: **DELETE OC3**

PURPOSE

The DLT-OC3 command deletes (unassigns and deprovisions) the specified OC-3 object entity (AID). Upon completion of a DLT-OC3 command, the specified OC-3 is placed in the deprovisioned state of OOS-MA,UAS.

Executing an DLT-OC3 command causes a state transition for the specified OC-3 from

- IS to OOS-MA,UAS
- OOS-AU to OOS-MA,UAS
- OOS-AU,AINS to OOS-MA,UAS
- OOS-AUMA to OOS-MA,UAS
- OOS-MA to OOS-MA,UAS

When a DLT-OC3 is completed, all condition types associated with the specified OC-3 are cleared.

A DLT-OC3 command is denied if:

- The specified OC-3 is not provisioned (with the ENT-OC3 command).
- Any embedded STS-1s within the specified OC-3 are provisioned (the OC-3 has an SST of SDEE).
- The specified OC-3 has an SST of LPBK.
- A FFP protection relationship exists for the specified OC-3 (refer to DLT-FFP-OC3).
- The specified OC-3 is being used as a source for a Derived DS1.
- The specified OC-3 is associated with a mate OC-3 in a ring protection relationship (using ENT-RNG-OC3).
- An invalid parameter value is entered.

INPUT FORMAT

DLT-OC3 : [TID] : AID : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	OC3_AID: {OC3-{1-2240}} (OC3-OC3#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: OC3 AID, identifies the OC-3 port.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
SDBE	Status, internal Data Base Error
	/* TP Database Error: <ERROR-STRING> for <AID-STRING> */
	/* Error disabling supported STS1s, Error=<ERROR-STRING> */
	/* Error disabling supported DCC, Error=<ERROR-STRING> */
	/*TPidToTarpD(<TP-TYPE>, <RECORD-NUMBER>): <ERROR-STRING>*/
	/*TPidToGlobTPid(<TP-TYPE>, <RECORD-NUMBER>): <ERROR-STRING>*/
	/*TARP_DCC Database Error: <ERROR-STRING> for record number <RECORD-NUMBER>*/
SNVS	Status, Not in Valid State
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, OC-3 port OC3-16 is deprovisioned:

```
DLT-OC3::OC3-16;
```

In the following example, EC1 ports OC3-1 through OC3-5 and OC3-7 are deprovisioned:

```
DLT-OC3::OC3-1&&-5&-7;
```

RELATED COMMANDS

```
ED-OC3
ENT-OC3
RMV-OC3
RST-OC3
RTRV-OC3
```

COMMAND CODE: **DLT-OSADDR-SITE**
COMMAND NAME: **DELETE OPERATIONS SYSTEM
ADDRESS SITE**

PURPOSE

The DLT-OSADDR-SITE command deletes an existing X.25 incoming SVC calling address entry from the system's X.25 Incoming SVC Calling Address database. Changes to the database take effect on the next incoming X.25 SVC call request received by the system.

A DLT-OSADDR-SITE command is denied if:

- The specified ADDR value is not an entry in the system's X.25 Incoming SVC Calling Address database.
- An invalid parameter value is entered.

The DLT-OSADDR-SITE command only deletes an X.25 incoming SVC calling address entry from the system's X.25 Incoming SVC Calling Address database. The ENT-OSADDR-SITE command adds an X.25 incoming SVC calling address entry to the database. The ED-OSADDR-SITE command changes the AUTOIN parameter value associated with an incoming SVC calling address database entry. The RTRV-OSADDR-SITE command retrieves the contents of the system's X.25 Incoming SVC Calling Address database.

INPUT FORMAT

DLT-OSADDR-SITE: [TID] :: [CTAG] :: ADDR;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
ADDR	<1-15 INTEGER X.25_CALLING_ADDRESS> Default: Entry Required Addressing: None Description: X.25 Incoming SVC Calling Address, specifies the X.25 Incoming SVC Calling Address in the X.25 Incoming SVC Calling Address database.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
/* OSADDR <ADDR> deleted */
[/* <Command Echo> [<CTAG>] (<CID [-VCNUM] >) */]
;
```

OUTPUT PARAMETERS

ADDR	<1-15 INTEGER X.25_CALLING_ADDRESS> X.25 Incoming SVC Calling Address, indicates the X.25 Incoming SVC Calling Address that was deleted from the X.25 Incoming SVC Calling Address database.
------	---

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Optional Suggested Action Text> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid /* Unable to find requested OSADDR */
IIFM	Input, Invalid data ForMat /* Illegal Input: ADDR length */
SDBE	Status, internal Data Base Error /* Unable to read OSADDR – status = <status number> */ /* Unable to delete <ADDR> from OSADDR – status = <status number> */
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, the incoming SVC calling address 14045551212 is deleted from the system's X.25 Incoming SVC Calling Address database.

```
DLT-OSADDR-SITE:::::14045551212;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P1e012. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P1e012 COMPLD
/* OSADDR 14045551212 deleted. */
/* DLT-OSADDR-SITE:::::14045551212 [P1e012] (1) */
;
```

RELATED COMMANDS

```
DLT-CID
DLT-CID-VC
ED-CID
ED-CID-OSPORT
ED-CID-VC
ED-OSADDR-SITE
ENT-CID
ENT-CID-VC
ENT-OSADDR-SITE
RMV-CID
RST-CID
RTRV-CID
RTRV-OSADDR-SITE
START-CID
STOP-CID
```

COMMAND CODE: **DLT-PARTITN**
COMMAND NAME: **DELETE PARTITION**

PURPOSE

The DLT-PARTITN command removes (deletes) the existing user facility partition specified by PARTNAM.

Prior to executing a DLT-PARTITN command, all User IDs (UIDs) associated with the specified partition must be deleted (via a DLT-USER command).

After the execution of a DLT-PARTITN command, any OC12, OC3, EC1, STS1, VT1, T3, T1, or F3 ports assigned to the deleted partition are available for assignment to another partition.

If the user executing the DLT-PARTITN command is provisioned with RUSURE of YES (refer to ENT-USER or ED-PRVG-USER), the following text message is transmitted to the user.

```
Delete this User Partition <PARTNAM>? [YES/NO]
Confirm <CTAG>:
```

If the user does not enter "YES" within 120 seconds after the "RUSURE" prompt, the DLT-PARTITN command is cancelled (a CANCLD response message is transmitted to the user).

A DLT-PARTITN command is denied if:

- All User IDs (UIDs) associated with the specified user facility partition have not been deleted (via a DLT-USER command).
- The "User Partitioning" PFO is not enabled.
- An invalid parameter value is entered.

INPUT FORMAT

DLT-PARTITN: [TID] :: [CTAG] :: PARTNAM;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >
Default:	<SID>
Addressing:	None
Description:	Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS >
Default:	< System assigned CTAG value >
Addressing:	None
Description:	Correlation Tag, associates input command with its output responses.
PARTNAM	<1-20 CHARACTER VALID PARTITION NAME>
Default:	Entry Required
Addressing:	None
Description:	Partition Name, specifies the name of the user facility partition.
Restrictions:	DLT-PARTITN is denied if a PARTNAM of "ALL" is entered.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
/* Partition <PARTNAM> has been deleted */
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

The following unsuccessful response is generated if an incorrect or invalid command is entered.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Optional Suggested Action Text> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

The following unsuccessful response is generated if the command is cancelled after an "RUSURE" prompt.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> CANCLD
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

ENFE	Equipage, FEature Not provided
IDNV	Input, Data Not Valid /* Invalid Partition Name */
IIAC	Input, Invalid ACcess identifier /* ALL cannot be used as a partition name */
IIFM	Input, Invalid data ForMat /* PARTNAM length */
IPNV	Input, Parameter Not Valid /* PARTNAM */
SDBE	Status, internal Data Base Error /* Error accessing the PARTITION DB – status = <status number> */ /* All USI users for this partition must be deleted. */

EXAMPLES

In the following example, the user facility partition PARTITION1 is deleted.

```
DLT-PARTITN::::PARTITION1;
```

The output response, shown below, assumes CID 3 was used to enter the command and a system generated CTAG value of P26023. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed. The example assumes the command is issued by a user provisioned with the RUSURE parameter (in ENT-USER) enabled.

```
Delete this User Partition PARTITION1? [YES/NO]
Confirm [P26023]:YES;
<SID> <YY-MM-DD> <HH:MM:SS>
M P26023 COMPLD
/* Partition PARTITION1 has been deleted. */
/* DLT-PARTITN::::PARTITION1 [P26023] (3) */
;
```

RELATED COMMANDS

ED-PARTITN-EC1
ED-PARTITN-F3
ED-PARTITN-ST51
ED-PARTITN-OC12
ED-PARTITN-OC3
ED-PARTITN-T1
ED-PARTITN-T3
ED-PARTITN-VT1
ED-PRVG-USER
ENT-PARTITN
ENT-USER
RTRV-PARTITN

COMMAND CODE: **DLT-RNG-OC12**
COMMAND NAME: **DELETE RING OC-12**

PURPOSE

The DLT-RNG-OC12 command deletes (unassigns) ring protection group pairs for OC-12 facilities. It deletes the preferred (protected) OC-12 and its associated alternate (protecting) OC-12.

Upon successful completion of the DLT-RNG-OC12 command for ring protection group pairs of OC-12 facilities, the OC-12 ports return to their normal linear mode of operation, in which the terminology “working (i.e., protected)” and “protection (i.e., protecting)” applies once again.

Executing a DLT-RNG-OC12 command causes all of the VT1.5s within the ring that are two-way cross-connected to carry an SST of ACT.

A DLT-RNG-OC12 command is denied if:

- The OC-12s specified in B1 and B2 parameters do not refer to preferred and alternate OC-12, respectively, of the same ring.
- Any of the supported objects within the B1 is involved in 2WAYPR or pass through ring cross-connections.
- Any of the supported objects within the B1 is involved in a loopback (an SST of LPBK) or in a test access operation (an SST of TS).
- All the supported objects within B2 are not deleted (i.e., B2 OC-12 has an SST of SDEE).
- An invalid parameter value.

INPUT FORMAT

DLT-RNG-OC12 : [TID] : B1 , B2 : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
B1	OC12_AID: {OC12-{1-560}} (OC12-OC12#) Default: Entry Required Addressing: None Description: OC12 AID, identifies the preferred (protected) OC-12 port. Restrictions: DLT-RNG-OC12 is denied if the OC-12 specified is not an odd-numbered OC-12.
B2	OC12_AID: {OC12-{1-560}} (OC12-OC12#) Default: Entry Required Addressing: None Description: OC12 AID, identifies the alternate (protecting) OC-12 port. Restrictions: DLT-RNG-OC12 is denied if the OC-12 specified is not an even-numbered OC-12. DLT-RNG-OC12 is denied if B2 is not equal to B1+1 (i.e., B1 has not been defined as part of the same ring as B2).
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```

    <SID> <YY-MM-DD> <HH:MM:SS>
M  <CTAG> COMPLD
    [/* <Free Form Informational Text> */]
    [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

    <SID> <YY-MM-DD> <HH:MM:SS>
M  <CTAG> DENY
    <ERROR CODE>
    [/* <Informational Error Description Text> */]
    [/* <Expanded Error Code Description> */]
    [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid
IIAC	Input, Invalid ACcess identifier
SDBE	Status, internal Data Base Error
	/*TP Database Error: <ERROR-STRING> for <AID-STRING>*/
	/*Error updating OC ring supported entities, Error=<ERROR-STRING>*/
	/*RNG Database Error: <ERROR-STRING> for record number <RECORD-NUMBER>*/
	/*CONN Database Error: <ERROR-STRING> for <AID-STRING>*/
	/*RPP Database Error: <ERROR-STRING> for <AID-STRING>*/
	/*TPidToTbss(<TP-TYPE>, <RECORD-NUMBER>) Error: <ERROR-STRING>*/
SNVS	Status, Not in Valid State

EXAMPLES

In the following example, the ring protection relationship is deleted for OC-12 ports OC12-14 (alternate line) and OC12-13 (preferred line).

```
DLT-RNG-OC12::OC12-13,OC12-14;
```

RELATED COMMANDS

```

ED-RNG-OC12
ENT-RNG-OC12
RTRV-RNG-OC12

```

COMMAND CODE: **DLT-RNG-OC3**
COMMAND NAME: **DELETE RING OC-3**

PURPOSE

The DLT-RNG-OC3 command deletes (unassigns) ring protection group pairs for OC-3 facilities. It deletes the preferred (protected) OC-3 and its associated alternate (protecting) OC-3.

Upon successful completion of the DLT-RNG-OC3 command for ring protection group pairs of OC-3 facilities, the OC-3 ports return to their normal linear mode of operation, in which the terminology “working (i.e., protected)” and “protection (i.e., protecting)” applies once again.

Executing a DLT-RNG-OC3 command causes all of the VT1.5s within the ring that are two-way cross-connected to carry an SST of ACT.

A DLT-RNG-OC3 command is denied if:

- The OC-3s specified in B1 and B2 parameters do not refer to preferred and alternate OC-3, respectively, of the same ring.
- Any of the supported objects within the B1 is involved in 2WAYPR or pass through ring cross-connections.
- Any of the supported objects within the B1 is involved in a loopback (an SST of LPBK) or in a test access operation (an SST of TS).
- All the supported objects within B2 are not deleted (i.e., B2 OC-3 has an SST of SDEE).
- An invalid parameter value.

INPUT FORMAT

DLT-RNG-OC3 : [TID] : B1 , B2 : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
B1	OC3_AID: {OC3-{1-2240}} (OC3-OC3#) Default: Entry Required Addressing: None Description: OC3 AID, identifies the preferred (protected) OC-3 port. Restrictions: DLT-RNG-OC3 is denied if the OC-3 specified is not an odd-numbered OC-3.
B2	OC3_AID: {OC3-{1-2240}} (OC3-OC3#) Default: Entry Required Addressing: None Description: OC3 AID, identifies the alternate (protecting) OC-3 port. Restrictions: DLT-RNG-OC3 is denied if the OC-3 specified is not an even-numbered OC-3. DLT-RNG-OC3 is denied if B2 is not equal to B1+1 (i.e., B1 has not been defined as part of the same ring as B2).
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* <Free Form Informational Text> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid
IIAC	Input, Invalid ACcess identifier
SDBE	Status, internal Data Base Error
	/*TP Database Error: <ERROR-STRING> for <AID-STRING>*/
	/*Error updating OC ring supported entities, Error=<ERROR-STRING>*/
	/*RNG Database Error: <ERROR-STRING> for record number <RECORD-NUMBER>*/
	/*CONN Database Error: <ERROR-STRING> for <AID-STRING>*/
	/*RPP Database Error: <ERROR-STRING> for <AID-STRING>*/
	/*TPidToTbss(<TP-TYPE>, <RECORD-NUMBER>) Error: <ERROR-STRING>*/
SNVS	Status, Not in Valid State

EXAMPLES

In the following example, the ring protection relationship is deleted for OC-3 ports OC3-14 (alternate line) and OC3-13 (preferred line).

```
DLT-RNG-OC3::OC3-13,OC3-14;
```

RELATED COMMANDS

```
ED-RNG-OC3
ENT-RNG-OC3
RTRV-RNG-OC3
```

COMMAND CODE: **DLT-ROLL-T1**
COMMAND NAME: **DELETE ROLL T1**

PURPOSE

The DLT-ROLL-T1 command aborts an attempted roll of a facility or drops the residual tail for a successful roll. The FROM and TO parameters can be specified as DS1 or VT1.5, but not both parameters as VT1.5. DLT-ROLL-T1 is generally used to abort the roll when the REPT^EVT autonomous message, indicating the clearing of the ROLLMON condition type which signals a valid signal detection on the RTO port of the roll, has not been received within a reasonable amount of time. DLT-ROLL-T1 is generally used to drop a broadcast tail when it is left from an old connection after the roll is completed.

Rolling may not include any DS1 ports that are being used for QRS, TACC or Broadcast. Once rolling operation has begun, all the three ports involved in the roll will be in the ROLL secondary state and this is the only state in which a DLT-ROLL-T1 command will be considered valid.

If the corresponding ENT-ROLL-T1 command was issued with RMODE=MAN, then DLT-ROLL-T1 must be executed to complete the roll.

Executing a DLT-ROLL-T1 causes a state transition for the disconnected cross-connect entity from

- IS to Non-Existent
- OOS-AU to Non-Existent

On successful completion of this command, the ports involved in the roll operation will have their ROLL secondary states cleared.

(Refer to Appendix G, State Transitions for additional information on state values and state transitions.)

DLT-ROLL-T1 is denied if:

- Either of the specified FROM or TO DS1/VT1.5 ports are not provisioned (via ENT-T1/VT1.5).
- The cross-connection specified by FROM, TO does not exist.
- The specified FROM and TO values are identical (the same DS1 port).
- Both FROM and TO specify a VT1.5 port.
- Both FROM and TO do not have a ROLL secondary state, i.e., they are not under roll operation.
- DLT-ROLL-T1 command has been issued with WHY as STOP on a pair of ports that are involved in manual roll operation (RMODE of MAN in a corresponding ENT-ROLL-T1 command) after the port specified in RTO parameter in the ENT-ROLL-T1 command has received a valid signal (i.e., ROLLMON condition has been cleared).
- DLT-ROLL-T1 command has been issued with WHY as STOP on a pair of ports that are involved in fully manual roll operation (RMODE of FMAN1 in a corresponding ENT-ROLL-T1 command) after the ENT-ROLL-T1 command with mode as FMAN2 has been executed on the pair of ports.
- DLT-ROLL-T1 command is issued with a WHY as END on a pair of ports that are involved in an automatic roll (RMODE of AUTO in corresponding ENT-ROLL-T1 command).
- DLT-ROLL-T1 command is issued with a WHY as END on a pair of ports that are involved in a manual roll (RMODE of MAN in corresponding ENT-ROLL-T1 command) before the port specified in RTO parameter in the ENT-ROLL-T1 command has received a valid signal (i.e., the ROLLMON condition is still set).
- DLT-ROLL-T1 command is issued with a WHY as END on a pair of ports that are involved in fully manual duplex roll (RMODE of FMAN1 in corresponding ENT-ROLL-T1 command) before an ENT-ROLL-T1 command with RMODE set to FMAN2 has been issued.
- DLT-ROLL-T1 command is issued with a WHY as END on a pair of ports that are involved in a fully manual simplex receive side roll (RMODE of FMAN1 in corresponding ENT-ROLL-T1 command).
- The specified FROM and/or TO VT1.5/DS1 is embedded within a protection OC-3 or OC-12.
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

DLT-ROLL-T1 : [TID] : FROM, TO : [CTAG] : : : WHY=;

INPUT PARAMETERS

TID	<p>< 1-20 VALID TID CHARACTERS ></p> <p>Default: <SID></p> <p>Addressing: None</p> <p>Description: Target Identifier, specifies the network node TID for the command.</p>																
FROM	<p>DS1_AID:</p> <table> <tr> <td>{T1-{1-59392}}</td><td>(T1-DS1#)</td></tr> <tr> <td>{T3T1-{1-4800}-{1-28}}</td><td>(T3T1-DS3#-DS1#)</td></tr> <tr> <td>{EC1T1-{1-3840}-{1-28}}</td><td>(EC1T1-EC1/STS1/DS3#-DS1#)</td></tr> <tr> <td>{OC3T1-{1-2240}-{1-3}-{1-28}}</td><td>(OC3T1-OC3#-STS1/DS3#-DS1#)</td></tr> <tr> <td>{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}</td><td>(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)</td></tr> </table> <p>VT1_AID:</p> <table> <tr> <td>{EC1VT1-{1-3840}-{1-7}-{1-4}}</td><td>(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)</td></tr> <tr> <td>{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}</td><td>(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)</td></tr> <tr> <td>{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}</td><td>(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)</td></tr> </table> <p>Default: Entry Required</p> <p>Addressing: None</p> <p>Description: DS1 or VT1 AID. Identifies the original FROM AID used in the ENT-ROLL-T1 command.</p> <p>Restrictions: DLT-ROLL-T1 is denied if the FROM and TO values are equal. DLT-ROLL-T1 is denied if both FROM and TO specify VT1.5s.</p>	{T1-{1-59392}}	(T1-DS1#)	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)	{EC1T1-{1-3840}-{1-28}}	(EC1T1-EC1/STS1/DS3#-DS1#)	{OC3T1-{1-2240}-{1-3}-{1-28}}	(OC3T1-OC3#-STS1/DS3#-DS1#)	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}	(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)	{EC1VT1-{1-3840}-{1-7}-{1-4}}	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)
{T1-{1-59392}}	(T1-DS1#)																
{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)																
{EC1T1-{1-3840}-{1-28}}	(EC1T1-EC1/STS1/DS3#-DS1#)																
{OC3T1-{1-2240}-{1-3}-{1-28}}	(OC3T1-OC3#-STS1/DS3#-DS1#)																
{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}	(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)																
{EC1VT1-{1-3840}-{1-7}-{1-4}}	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)																
{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)																
{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)																
TO	<p>DS1_AID:</p> <table> <tr> <td>{T1-{1-59392}}</td><td>(T1-DS1#)</td></tr> <tr> <td>{T3T1-{1-4800}-{1-28}}</td><td>(T3T1-DS3#-DS1#)</td></tr> <tr> <td>{EC1T1-{1-3840}-{1-28}}</td><td>(EC1T1-EC1/STS1/DS3#-DS1#)</td></tr> <tr> <td>{OC3T1-{1-2240}-{1-3}-{1-28}}</td><td>(OC3T1-OC3#-STS1/DS3#-DS1#)</td></tr> <tr> <td>{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}</td><td>(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)</td></tr> </table> <p>VT1_AID:</p> <table> <tr> <td>{EC1VT1-{1-3840}-{1-7}-{1-4}}</td><td>(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)</td></tr> <tr> <td>{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}</td><td>(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)</td></tr> <tr> <td>{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}</td><td>(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)</td></tr> </table> <p>Default: Entry Required</p> <p>Addressing: None</p> <p>Description: DS1 or VT1 AID. Identifies the original TO AID used in the ENT-ROLL-T1 command.</p> <p>Restrictions: DLT-ROLL-T1 is denied if the FROM and TO values are equal.</p>	{T1-{1-59392}}	(T1-DS1#)	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)	{EC1T1-{1-3840}-{1-28}}	(EC1T1-EC1/STS1/DS3#-DS1#)	{OC3T1-{1-2240}-{1-3}-{1-28}}	(OC3T1-OC3#-STS1/DS3#-DS1#)	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}	(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)	{EC1VT1-{1-3840}-{1-7}-{1-4}}	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)
{T1-{1-59392}}	(T1-DS1#)																
{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)																
{EC1T1-{1-3840}-{1-28}}	(EC1T1-EC1/STS1/DS3#-DS1#)																
{OC3T1-{1-2240}-{1-3}-{1-28}}	(OC3T1-OC3#-STS1/DS3#-DS1#)																
{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}	(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)																
{EC1VT1-{1-3840}-{1-7}-{1-4}}	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)																
{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)																
{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)																
CTAG	<p>< 1-6 VALID CTAG CHARACTERS ></p> <p>Default: < System assigned CTAG value ></p> <p>Addressing: None</p> <p>Description: Correlation Tag, associates input command with its output responses.</p>																
WHY=	<p>{STOP, END}</p> <p>Default: Entry Required</p> <p>Addressing: None</p> <p>Description: Indicates the reason for the deletion of the roll. Values are:</p> <table> <tr> <td>STOP</td><td>Stop. This will abort the roll operation.</td></tr> <tr> <td>END</td><td>End the roll. This will drop the residual tail left in a MAN or FMAN1 RMODE.</td></tr> </table> <p>Restrictions: DLT-ROLL-T1 with WHY=STOP will be denied if ROLLMON condition has already been cleared.</p>	STOP	Stop. This will abort the roll operation.	END	End the roll. This will drop the residual tail left in a MAN or FMAN1 RMODE.												
STOP	Stop. This will abort the roll operation.																
END	End the roll. This will drop the residual tail left in a MAN or FMAN1 RMODE.																

DLT-ROLL-T1 with WHY=END will be denied if the RMODE was set to AUTO or the ROLLMON condition is still set.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
SARB	Status, All Resources Busy
SCSN	Status, invalid Command SequeNce
SDBE	Status, internal Data Base Error
	/* Failed to get OTHER supporting entity records */
	/* Failed to get RTO supporting entity records */
	/* <DATABASE TYPE> Database Error: <STATUS> for <AID STRING> */
	/* <DATABASE TYPE> Database Error: <STATUS> for record number <RECORD NUMBER> */
SNVS	Status, Not in Valid State
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, a DS1 roll connection between T3T1-2-2 and T3T1-3-3 is being aborted.

```
DLT-ROLL-T1 : T3T1-2-2 , T3T1-3-3 : : : WHY=STOP ;
```

RELATED COMMANDS

```
DLT-CRS-T1
ENT-CRS-T1
ENT-ROLL-T1
ENT-T1
RTRV-CRS
RTRV-CRS-T1
RTRV-ROLL-T1
RTRV-T1
```


COMMAND CODE: **DLT-ROLL-VT1**
COMMAND NAME: **DELETE ROLL VT1**

PURPOSE

The DLT-ROLL-VT1 command aborts an attempted roll of a facility or drops the residual tail from a successful roll. Both the FROM and TO parameters must be VT1.5. DLT-ROLL-VT1 is generally used to abort the roll when the REPT^EVT autonomous message, indicating the clearing of the ROLLMON condition type which signals a valid signal detection on the RTO port of the roll, has not been received within a reasonable amount of time. DLT-ROLL-VT1 is generally used to drop a broadcast tail when it is left from an old connection after the roll is completed.

Rolling may not include any VT1.5 ports that are being used in a Broadcast. Once rolling operation has begun, all the three ports involved in the roll will be in the ROLL secondary state and this is the only state in which a DLT-ROLL-VT1 command will be considered valid.

If the corresponding ENT-ROLL-VT1 command was issued with RMODE=MAN, then DLT-ROLL-VT1 must be executed to complete the roll.

Executing a DLT-ROLL-VT1 causes a state transition for the disconnected cross-connect entity from:

- IS to Non-Existent
- OOS-AU to Non-Existent

On successful completion of this command, the ports involved in the roll operation will have their ROLL secondary states cleared.

(Refer to Appendix G, State Transitions for additional information on state values and state transitions.)

DLT-ROLL-VT1 is denied if:

- Either of the specified FROM or TO VT1.5 ports are not provisioned (using ENT-VT1.5).
- The cross-connection specified by FROM, TO does not exist.
- The specified FROM and TO values are identical (the same VT1.5 port).
- Both FROM and TO do not specify a VT1.5 port.
- Both FROM and TO do not have a ROLL secondary state, i.e., they are not under roll operation.
- DLT-ROLL-VT1 command has been issued with WHY as STOP on a pair of ports that are involved in manual roll operation (RMODE of MAN in a corresponding ENT-ROLL-VT1 command) after the port specified in RTO parameter in the ENT-ROLL-VT1 command has received a valid signal (i.e., ROLLMON condition has been cleared).
- DLT-ROLL-VT1 command has been issued with WHY as STOP on a pair of ports that are involved in fully manual roll operation (RMODE of FMAN1 in a corresponding ENT-ROLL-VT1 command) after the ENT-ROLL-VT1 command with mode as FMAN2 has been executed on the pair of ports.
- DLT-ROLL-VT1 command is issued with a WHY as END on a pair of ports that are involved in an automatic roll (RMODE of AUTO in corresponding ENT-ROLL-VT1 command).
- DLT-ROLL-VT1 command is issued with a WHY as END on a pair of ports that are involved in a manual roll (RMODE of MAN in corresponding ENT-ROLL-VT1 command) before the port specified in RTO parameter in the ENT-ROLL-VT1 command has received a valid signal (i.e., the ROLLMON condition is still set)
- DLT-ROLL-VT1 command is issued with a WHY as END on a pair of ports that are involved in fully manual duplex roll (RMODE of FMAN1 in corresponding ENT-ROLL-VT1 command) before an ENT-ROLL-VT1 command with RMODE set to FMAN2 has been issued.
- DLT-ROLL-VT1 command is issued with a WHY as END on a pair of ports that are involved in a fully manual simplex receive side roll (RMODE of FMAN1 in corresponding ENT-ROLL-VT1 command).
- The specified FROM and/or TO VT1.5 is embedded within a protection OC-3 or OC-12.
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

DLT-ROLL-VT1 : [TID] : FROM, TO : [CTAG] : : : WHY=;

INPUT PARAMETERS

TID	<p>< 1–20 VALID TID CHARACTERS ></p> <p>Default: <SID></p> <p>Addressing: None</p> <p>Description: Target Identifier, specifies the network node TID for the command.</p>
FROM	<p>VT1_AID:</p> <p>{EC1VT1–{1–3840}–{1–7}–{1–4}} (EC1VT1–EC1/STS1#–VTGrp#–VT1.5#)</p> <p>{OC3VT1–{1–2240}–{1–3}–{1–7}–{1–4}} (OC3VT1–OC3#–STS1#–VTGrp#–VT1.5#)</p> <p>{OC12VT1–{1–560}–{1–4}–{1–3}–{1–7}–{1–4}} (OC12VT1–OC12#–STM1#–STS1#–VTGrp#–VT1.5#)</p> <p>Default: Entry Required</p> <p>Addressing: None</p> <p>Description: VT1 AID. Identifies the original FROM AID used in the ENT–ROLL–VT1 command.</p> <p>Restrictions: DLT–ROLL–VT1 is denied if the FROM and TO values are equal. DLT–ROLL–VT1 is denied if both FROM and TO do not specify VT1.5s.</p>
TO	<p>VT1_AID:</p> <p>{EC1VT1–{1–3840}–{1–7}–{1–4}} (EC1VT1–EC1/STS1#–VTGrp#–VT1.5#)</p> <p>{OC3VT1–{1–2240}–{1–3}–{1–7}–{1–4}} (OC3VT1–OC3#–STS1#–VTGrp#–VT1.5#)</p> <p>{OC12VT1–{1–560}–{1–4}–{1–3}–{1–7}–{1–4}} (OC12VT1–OC12#–STM1#–STS1#–VTGrp#–VT1.5#)</p> <p>Default: Entry Required</p> <p>Addressing: None</p> <p>Description: VT1 AID. Identifies the original TO AID used in the ENT–ROLL–VT1 command.</p> <p>Restrictions: DLT–ROLL–VT1 is denied if the FROM and TO values are equal. DLT–ROLL–VT1 is denied if both FROM and TO do not specify VT1.5s.</p>
CTAG	<p>< 1–6 VALID CTAG CHARACTERS ></p> <p>Default: < System assigned CTAG value ></p> <p>Addressing: None</p> <p>Description: Correlation Tag, associates input command with its output responses.</p>
WHY=	<p>{STOP, END}</p> <p>Default: Entry Required</p> <p>Addressing: None</p> <p>Description: Indicates the reason for the deletion of the roll. The valid values for this parameter are:</p> <p>STOP Stop. This will abort the roll operation.</p> <p>END End the roll. This will drop the residual tail left in a MAN or FMAN1 RMODE.</p> <p>Restrictions: DLT–ROLL–VT1 with WHY=STOP will be denied if ROLLMON condition has already been cleared. DLT–ROLL–VT1 with WHY=END will be denied if the RMODE was set to AUTO or the ROLLMON condition is still set.</p>

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID [-VCNUM]>) */]
;

```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
SCSN	Status, invalid Command SequeNce
SDBE	Status, internal Data Base Error
	/* Failed to get OTHER supporting entity records */
	/* Failed to get RTO supporting entity records */
	/* <DATABASE TYPE> Database Error: <STATUS> for <AID STRING> */
	/* <DATABASE TYPE> Database Error: <STATUS> for record number <RECORD NUMBER> */
SNVS	Status, Not in Valid State
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, a VT1.5 roll connection between EC1VT1-2-2-2 and EC1VT1-3-3-3 is being aborted.

```
DLT-ROLL-VT1::EC1VT1-2-2-2,EC1VT1-3-3-3:::WHY=STOP;
```

RELATED COMMANDS

```
ENT-ROLL-VT1
RTRV-CRS
RTRV-ROLL-VT1
```


COMMAND CODE: **DLT-STS1**
COMMAND NAME: **DELETE STS-1**

PURPOSE

The DLT-STS1 command deletes (unassigns and deprovisions) the specified STS-1 object entity (AID). Upon completion of a DLT-STS1 command, the specified STS-1 is placed in the deprovisioned state of OOS-MA,UAS.

Executing a DLT-STS1 command causes a state transition for the specified STS-1 from

- IS to OOS-MA,UAS
- OOS-AU to OOS-MA,UAS
- OOS-AU,AINS to OOS-MA,UAS
- OOS-AUMA to OOS-MA,UAS
- OOS-MA to OOS-MA,UAS

When a DLT-STS1 is completed, all condition types associated with the specified STS-1 are cleared.

If this is the last STS-1 embedded within an EC1, OC-3, or OC-12, then the EC1/OC-3/OC-12 will have its SDEE secondary state cleared when the STS-1 is deleted.

A DLT-STS1 command is denied if:

- The specified STS-1 is not provisioned (using ENT-STS1).
- Any VT1.5s or DS3s embedded within the specified STS-1 are provisioned (the STS-1 has an SST of SDEE).
- The specified STS-1 has an SST of ACT, BUSY, or LPBK.
- An invalid parameter value is entered.

INPUT FORMAT

DLT-STS1 : [TID] : AID : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >		
	Default:	<SID>	
	Addressing:	None	
	Description:	Target Identifier, specifies the network node TID for the command.	
AID	STS1_AID:		
	{EC1STS1-{1-3840}}	(EC1STS1-EC1/STS1#)	
	{OC3STS1-{1-2240}-{1-3}}	(OC3STS1-OC3#-STS1#)	
	{OC12STS1-{1-560}-{1-4}-{1-3}}	(OC12STS1-OC12#-STM1#-STS1#)	
	Default:	Entry Required	
	Addressing:	&&-ranging and &-grouping	
	Description:	STS1 AID, identifies the STS-1 port.	
CTAG	< 1-6 VALID CTAG CHARACTERS >		
	Default:	< System assigned CTAG value >	
	Addressing:	None	
	Description:	Correlation Tag, associates input command with its output responses.	

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
PICC	Privilege, Invalid Command Code
	/* TAPP belongs to another user */
SDBE	Status, internal Data Base Error
	/* TP Database Error: <ERROR-STRING> for <AID-STRING> */
	/* Error updating supporting entity, Error=<ERROR-STRING> */
	/* Error disabling supported VT1s, Error=<ERROR-STRING> */
	/* STS1 Shelf info error, Error=<ERROR-STRING> */
	/* Error disabling supported T3, Error=<ERROR-STRING> */
	/* Error updating FAD B's supporting entity, Error=<ERROR-STRING> */
SNVS	Status, Not in Valid State
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, STS-1 port EC1STS1-16 is deprovisioned:

```
DLT-STS1::EC1STS1-16;
```

In the following example, STS-1 ports EC1STS1-1 through EC1STS1-5 and OC3STS1-7-3 are deprovisioned:

```
DLT-STS1::EC1STS1-1&&-5&OC3STS1-7-3;
```

RELATED COMMANDS

```
ED-STS1
ENT-STS1
RMV-STS1
RST-STS1
RTRV-STS1
```

COMMAND CODE: **DLT-STS3C**
COMMAND NAME: **DELETE STS-3C**

PURPOSE

The DLT-STS3C command deletes (unassigns and deprovisions) the specified STS-3C object entity (AID). Upon completion of a DLT-STS3C command, the specified STS-3C is placed in the deprovisioned state of OOS-MA,UAS.

Executing an DLT-STS3C command causes a state transition for the specified STS-3C from

- IS to OOS-MA,UAS
- OOS-AU to OOS-MA,UAS
- OOS-AU,AINS to OOS-MA,UAS
- OOS-AUMA to OOS-MA,UAS
- OOS-MA to OOS-MA,UAS

When a DLT-STS3C is successfully completed, all condition types associated with the specified STS-3C are cleared.

When a DLT-STS3C is successfully completed, the DSBLD secondary states, which are present on all of the STS1 objects corresponding to the specified STS-3C, are cleared. This means that both STS1 and STS-3C object entities are enabled to be provisioned.

A DLT-STS3C command is denied if:

- The specified STS-3C has not previously been provisioned with the ENT-STS3C command (an SST of UAS).
- The specified STS-3C is cross-connected (has a SST of ACT, BUSY).
- An invalid parameter value is entered.

INPUT FORMAT

DLT-STS3C: [TID] :AID: [CTAG] ;

INPUT PARAMETERS

TID	< 1–20 VALID TID CHARACTERS >		
	Default:	<SID>	
	Addressing:	None	
	Description:	Target Identifier, specifies the network node TID for the command.	
AID	STS3C_AID:		
	{OC3STS3C–{1–2240}}		(OC3STS3C–OC3#/STS3C#)
	{OC12STS3C–{1–560}–{1–4}}		(OC12STS3C–OC12#–STM1/STS3C#)
	Default:	Entry Required	
	Addressing:	&&–ranging and &–grouping	
	Description:	STS3C AID, identifies the STS–3C port.	
CTAG	< 1–6 VALID CTAG CHARACTERS >		
	Default:	< System assigned CTAG value >	
	Addressing:	None	
	Description:	Correlation Tag, associates input command with its output responses.	

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
SDBE	Status, internal Data Base Error
	/* TP Database Error: <ERROR-STRING> for <AID-STRING> */
	/* Error updating supporting entity, Error=<ERROR-STRING> */
SNVS	Status, Not in Valid State
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, STS-3C port OC3STS3C-6 is deprovisioned:

```
DLT-STS3C::OC3STS3C-6;
```

In the following example, STS-3C ports OC3STS3C-1 and OC3STS3C-3 are deprovisioned:

```
DLT-STS3C::OC3STS3C-1&-3;
```

RELATED COMMANDS

```
ED-STS3C
ENT-STS3C
RMV-STS3C
RST-STS3C
RTRV-STS3C
```


COMMAND CODE: **DLT-T1**
COMMAND NAME: **DELETE T1**

PURPOSE

The DLT-T1 command deletes (unassigns and deprovisions) the specified DS1/TMG object entity (AID). Upon completion of a DLT-T1 command, the specified DS1 or TMG is placed in the deprovisioned state of OOS-MA,UAS.

If the DS1 specified is the first port of a TAPP, both DS1s associated with the TAPP are deleted (deprovisioned).

If the DS1 has been assigned to an F3 (Fractional T3) using ENT-F3 or ED-F3, deleting the DS1 automatically removes its assignment from the F3.

If this is the last DS1 embedded within an EC1, VT1.5, OC-3, or OC-12, then the EC1/VT1.5/OC-3/OC-12 will have its SDEE secondary state cleared when the DS1 is deleted.

Executing an DLT-T1 command causes a state transition for the specified DS1/TMG entity from:

- IS to OOS-MA,UAS
- OOS-AU to OOS-MA,UAS
- OOS-AUMA to OOS-MA,UAS
- OOS-MA to OOS-MA,UAS

When a DLT-T1 is completed, all condition types associated with the specified DS1/TMG entity are cleared.

A DLT-T1 command is denied if:

- The specified DS1 is not provisioned (using ENT-T1).
- The specified DS1 has an SST of ACT, BUSY, LPBK, or TS.
- The specified DS1 has C-bit loopback allowed (it has a condition type of ALWCBLPBK).
- The specified DS1 is transmitting a C-bit loopback (it has a condition type of XMTCLPBK).
- The specified DS1 is an Idle Signal Source port supplying an Idle signal to another DS1 port.
- The specified DS1 is a Test Access Port currently in use for a test access operation, or the AID identifies the FAD B port of a TAPP, or the TAPP is owned by another user and the user entering the command does not have a CCAL of 31 or 32.
- The specified timing reference has an SST of BUSY.
- An invalid parameter value is entered.

INPUT FORMAT

DLT-T1 : [TID] : AID : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >
Default:	<SID>
Addressing:	None
Description:	Target Identifier, specifies the network node TID for the command.

AID	DS1_AID:	
	{T1-{1-59392}}	(T1-DS1#)
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)
	{EC1T1-{1-3840}-{1-28}}	(EC1T1-EC1/STS1/DS3#-DS1#)
	{EC1T1-{1-3840}-{1-7}-{1-4}}	(EC1T1-EC1/STS1#-VTGrp#-VT1/DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-28}}	(OC3T1-OC3#-STS1/DS3#-DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3T1-OC3#-STS1#-VTGrp#-VT1/DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}	(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	(OC12T1-OC12#-STM1#-STS1#-VTGrp#-VT1/DS1#)
	TMG_AID:	
	{TMG-{0, 1}}	
	Default:	Entry Required
	Addressing:	&&-ranging and &-grouping
	Description:	DS1 AID identifies the DS1 port and TMG AID identifies external timing reference source.
CTAG	< 1-6 VALID CTAG CHARACTERS >	
	Default:	< System assigned CTAG value >
	Addressing:	None
	Description:	Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

ICNV	Input, Command Not Valid
	/* Signal source port is in use by port <AID-STRING>. */
IIAC	Input, Invalid ACcess identifier
PICC	Privilege, Invalid Command Code
	/* TAPP belongs to another user */
SARB	Status, All Resources Busy
	/* The command was rejected. */

SDBE Status, internal Data Base Error
 /* TP Database Error: <ERROR-STRING> for <AID-STRING> */
 /* TAPP Database Error: <ERROR-STRING> for record number <RECORD-NUM-
 BER> */
 /* CONN Database Error: <ERROR-STRING> for <AID-STRING> */
 /* Error updating FAD B's supporting entity, Error=<ERROR-STRING> */
 /* Error updating supporting entity, Error=<ERROR-STRING> */
 /*GetSptgTps(T1, <RECORD-NUMBER>): <ERROR-STRING>*/
 /*PutSptgTpBank(): <ERROR-STRING>*/

SNVS Status, Not in Valid State
 /* Cannot delete a port that has cbit loopback ALLOWED. */

SROF Status, Requested Operation Failed
 /* Error accessing MCB database. */
 /* Error accessing auxiliary EM data area for Master MCB. */

EXAMPLES

In the following example, DS1 port T3T1-25-5 is deprovisioned.

```
DLT-T1::T3T1-25-5;
```

In the following example, DS1 TAPPs T3T1-6-5 and T3T1-6-6 are deprovisioned. Since TAPPs are always assigned as sequential port pairs, the command deprovisions both ports T3T1-6-5 and T3T1-6-6. (The command is denied if port T3T1-6-6 is referenced as the AID.)

```
DLT-T1::T3T1-6-5;
```

RELATED COMMANDS

ED-F3
ED-T1
ENT-F3
ENT-T1
RMV-T1
RST-T1
RTRV-T1

COMMAND CODE: **DLT-T3**
COMMAND NAME: **DELETE T3**

PURPOSE

The DLT-T3 command deletes (unassigns and deprovisions) the specified DS3 object entity (AID). Upon completion of a DLT-T3 command, the specified DS3 is placed in the deprovisioned state of OOS-MA,UAS.

Executing a DLT-T3 command causes a state transition for the specified DS3 from:

- IS to OOS-MA,UAS
- OOS-AU to OOS-MA,UAS
- OOS-AU,AINS to OOS-MA,UAS
- OOS-AUMA to OOS-MA,UAS
- OOS-MA to OOS-MA,UAS

When a DLT-T3 is completed, all condition types associated with the specified DS3 are cleared.

If this is the last DS3 embedded within an OC-3 or OC-12, then the OC-3/OC-12 will have its SDEE secondary state cleared when the DS3 is deleted. If this is the last DS3 embedded within an EC1, then the EC1 will have its SDEE secondary state cleared when the DS3 is deleted.

When a DLT-T3 is completed and the deleted T3 port is a DS3 TAP, its mate DS3 TAP (identified by AID+1 or AID-1) will also be deleted.

A DLT-T3 command is denied if:

- The specified DS3 is not provisioned (using ENT-T3).
- Any DS1s embedded within the specified DS3 are provisioned (the DS3 has an SST of SDEE).
- Any F3s embedded within the specified DS3 are provisioned (the DS3 has an SST of SDEE).
- The specified DS3 has an SST of ACT, BUSY, LPBK, or TS.
- The specified DS3 is a Test Access Port currently in use for a test access operation, or the AID identifies the FAD B port of a TAPP, or the TAPP is owned by another user and the user entering the command does not have a CCAL of 31 or 32.
- An invalid parameter value is entered.

INPUT FORMAT

DLT-T3 : [TID] :AID: [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >	
	Default:	<SID>
	Addressing:	None
	Description:	Target Identifier, specifies the network node TID for the command.
AID	DS3_AID:	
	{T3-{1-4800}}	(T3-DS3#)
	{EC1T3-{1-3840}}	(EC1T3-EC1/STS1/DS3#)
	{OC3T3-{1-2240}-{1-3}}	(OC3T3-OC3#-STS1/DS3#)
	{OC12T3-{1-560}-{1-4}-{1-3}}	(OC12T3-OC12#-STM1#-STS1/DS3#)
	Default:	Entry Required
	Addressing:	&&-ranging and &-grouping
	Description:	DS3 AID, identifies the DS3 port.
CTAG	< 1-6 VALID CTAG CHARACTERS >	
	Default:	< System assigned CTAG value >
	Addressing:	None
	Description:	Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
PICC	Privilege, Invalid Command Code
	/* TAPP belongs to another user */
SDBE	Status, internal Data Base Error
	/* TP Database Error: <ERROR-STRING> for <AID-STRING> */
	/* TAPP Database Error: <ERROR-STRING> for record number <RECORD-NUMBER> */
	/* T3 Shelf info error, Error=<ERROR-STRING> */
	/* Error enabling corresponding EC1s, Error=<ERROR-STRING> */
	/* Error updating FAD B's supporting entity, Error=<ERROR-STRING> */
	/* Error updating supporting entity, Error=<ERROR-STRING> */
	/* Error disabling supported T1s, Error=<ERROR-STRING> */
	/* Error disabling supported F3s, Error=<ERROR-STRING> */
SNVS	Status, Not in Valid State
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, DS3 port T3-16 is deprovisioned:

```
DLT-T3::T3-16;
```

In the following example, DS3 ports T3-1 through T3-5 and T3-7 are deprovisioned:

```
DLT-T3::T3-1&&-5&-7;
```

RELATED COMMANDS

```
DLT-F3
ED-T3
ENT-F3
ENT-T3
RMV-T3
RST-T3
RTRV-T3
```

COMMAND CODE: **DLT-TARPADJ-DCC**
COMMAND NAME: **DELETE TARP ADJACENCY TABLE**
ENTRY OF DCC

PURPOSE

The DLT-TARPADJ-DCC command allows deleting of a manually provisioned Network Service Access Point (NSAP) entry in the TID Address Resolution Protocol (TARP) adjacency table entries on the Data Communication Channel (DCC).

The TARP Protocol Data Units (PDUs) are carried by Layer 3 (network layer) of the SONET DCC network.

If the deleted NSAP causes a condition of DUPTARPEENTRY to be set on the addressed OC-3/OC-12 and the command completes successfully, the condition will be cleared.

A DLT-TARPADJ-DCC command is denied if:

- A value entered for the NSAP is not in the adjacency table of the specified OC-3/OC-12 .
- The specified NSAP is less than 40 ASCII characters.
- An invalid parameter value is entered.

INPUT FORMAT

DLT-TARPADJ-DCC: [TID] :AID: [CTAG] : : : [DCCTYPE=] [, NSAP=] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	OC3_AID: {OC3-{1-2240}} (OC3-OC3#) OC12_AID: {OC12-{1-560}} (OC12-OC12#) Default: Entry Required Addressing: None Description: Optical Carrier AID, identifies the OC-3/OC-12 whose DCC adjacency table entries are being deleted.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
DCCTYPE=	{BOTH, LDCC, SDCC} Default: {SDCC} Addressing: None Description: DCC Type, specifies which DCC type is deleted in the adjacency table. BOTH Both, specifies both the SDCC and LDCC types are deleted in the adjacency table. LDCC Line DCC, specifies the LDCC type is deleted in the adjacency table. SDCC Section DCC, specifies the SDCC type is deleted in the adjacency table.

NSAP=	<40 ASCII HEXADECEIMAL VALUES>
Default:	None
Addressing:	None
Description:	Network Service Access Point, specifies the Network Service Access Point (NSAP) address of the neighboring NE to be deleted from the adjacency table. Values are 20 octets long encoded as 40 ASCII hexadecimals. The user enters the values in either upper case or lower case (i.e. case sensitive). If NSAP is not specified, all NSAPs configured for the specified OC-3/OC-12 for the DCCTYPE is deleted.
Restrictions:	DLT-TARPADJ-DCC is denied if the specified NSAP is less than 40 ASCII characters.

SUCCESSFUL RESPONSE FORMAT

```

M  <SID> <YY-MM-DD> <HH:MM:SS>
    <CTAG> COMPLD
    [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
:
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent
IDNV	Input, Data Not Valid
IIAC	Input, Invalid ACcess identifier
SDBE	Status, internal Data Base Error
	/*TP Database Error: <ERROR-STRING> for <AID-STRING>*/
	/*TPidToTarpD(<TP-TYPE>, <RECORD-NUMBER>): <ERROR-STRING>*/
	/*TPidToGlobTPid(<TP-TYPE>, <RECORD-NUMBER>): <ERROR-STRING>*/
	/*TARP_DCC Database Error: <ERROR-STRING> for record number <RECORD-NUMBER>*/
SNVS	Status, Not in Valid State
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, the specified NSAP for the OC-3 is deprovisioned.

```
DLT-TARPAJ-DCC::OC3-2:::DCCTYPE=SDCC,  
NSAP=39840F800000000000000000000000000000;
```

RELATED COMMANDS

ED-TARPA DJ-DCC
ENT-TARPA DJ-DCC
RTRV-TARPA DJ-DCC

COMMAND CODE: **DLT-TARPADJ-LAN**
COMMAND NAME: **DELETE TARP ADJACENCY TABLE
ENTRY OF LAN**

PURPOSE

The DLT-TARPADJ-LAN command allows deleting of a manually provisioned Network Service Access Point (NSAP) entry in the TID Address Resolution Protocol (TARP) adjacency table entries on the DSB.

The TARP Protocol Data Units (PDUs) are carried by Layer 3 (network layer) of the SONET Local Area Network (LAN).

If the deleted NSAP causes a condition of DUPTARPEENTRY to be set on the addressed DSB and the command completes successfully, the condition will be cleared.

An DLT-TARPADJ-LAN command is denied if:

- A value entered for the NSAP/ISLEVEL already exists in the adjacency table of the specified DSB.
- The specified NSAP is less than 40 ASCII characters.
- An invalid parameter value is entered.

INPUT FORMAT

DLT-TARPADJ-LAN: [TID] :AID: [CTAG] : : [NSAP=] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	EQUIPMENT_AID: {DSB-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{1-2}} Default: Entry Required Addressing: None Description: DSB AID, identifies the DSB whose adjacency table entries are being deleted.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
NSAP=	<40 ASCII HEXADECIMAL VALUES> Default: None Addressing: None Description: Network Service Access Point, specifies the Network Service Access Point (NSAP) address of the neighboring NE to be deleted from the adjacency table. Values are 20 octets long encoded as 40 ASCII hexadecimal. The user enters the values in either upper case or lower case (i.e. case sensitive). If NSAP is not specified, all the NSAPs configured for the specified DSB is deleted. Restrictions: DLT-TARPADJ-LAN is denied if the specified NSAP is less than 40 ASCII characters.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent /* Unable to read aux buffer for <AID> */
IDNV	Input, Data Not Valid /* Invalid parameter in the input command. */ /* Error reading input for NSAP. */ /* NSAP address must be 40 characters long. */ /* Unable to find the requested NSAP entry. */
IIAC	Input, Invalid ACcess identifier /* Invalid or unassigned equipment identifier specified. */
SARB	Status, All Resources Busy /* Command already in progress on equipment. */ /* Automatic system configuration active on equipment. */ /* Automatic configuration (database download) of parent processor in progress. */ /* Level 2 processor software download in progress. Try again later. */ /* INIT-SYS command still active on shelf that equipment is on. */
SDBE	Status, internal Data Base Error /* Data base access failure. */ /* Unable to read the LANDCC database. */ /* Unable to update the LANDCC database. */

EXAMPLES

In the following example, the specified NSAP is deleted from DSB-6-1-1's TARP table.

```
DLT-TARPADJ-LAN::DSB-6-1-1:::NSAP= 398406a0000000000
000000000000000000000000;

<SID> <YY-MM-DD> <HH:MM:SS>
M P72014 COMPLD
  /* The DLT-TARPADJ-LAN for DSB-6-1-1 was completed. */
  /* DLT-TARPADJ-LAN::DSB-6-1-1:::NSAP= 398406a0000000000
000000000000000000000000 [P72014] (1) */
```

RELATED COMMANDS

ED-TARPADJ-LAN
ENT-TARPADJ-LAN
RTRV-TARPADJ-LAN

COMMAND CODE: **DLT-TARPLDB**
COMMAND NAME: **DELETE TARP LOOP DETECTION
BUFFER**

PURPOSE

The DLT-TARPLDB command allows clearing of all the entries in the TID Address Resolution Protocol (TARP) Loop Detection Buffer (LDB) on the DSB.

The TARP Protocol Data Units (PDUs) are carried by Layer 3 (network layer) of the SONET Data Communication Channel (DCC) network.

A DLT-TARPLDB command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

DLT-TARPLDB: [TID] :AID: [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	EQUIPMENT_AID: {DSB-{6-9, 12-15, 18-21, 24-43, 104-111 , 112-135, 136-141 }-{1, 3}-{1-2}} Default: Entry Required Addressing: None Description: Access Identifier, identifies the high level stack on the DSB whose loop detection buffer is being deleted.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent /* Unable to read aux buffer for <AID> */
IIAC	Input, Invalid ACcess identifier /* Invalid or unassigned equipment identifier specified. */
SARB	Status, All Resources Busy /* Command already in progress on equipment. */ /* Automatic system configuration active on equipment. */ /* Automatic configuration (database download) of parent processor in progress. */ /* Level 2 processor software download in progress. Try again later. */ /* INIT–SYS command still active on shelf that equipment is on. */
SDBE	Status, internal Data Base Error /* Data base access failure. */ /* Unable to read the LANDCC database. */

EXAMPLES

In the following example, the TARP loop detection buffer entries of the network layer are deleted for DSB–9–1–1.

```
DLT-TARPLDB::DSB-9-1-1;
```

RELATED COMMANDS

```
RTRV-TARPLDB
```

COMMAND CODE: **DLT-USER**
COMMAND NAME: **DELETE USER**

PURPOSE

The DLT-USER command deletes the user profile entry in the User Security Database for the specified UID.

When a DLT-USER command is executed, any TAPPs (Test Access Port Pairs) assigned to the deleted user are automatically deprovisioned (a DS1 SST of UAS). Any cross-connections that were connected to one of the deleted user's TAPPs (the cross-connection has a SST of TS and the cross-connected DS1 ports have a SST of TS) are returned to its pre-test access cross-connect (the equivalent of executing a DISC-TACC for all TAPPs assigned to the deleted user).

Only the system administrator (UID of "system" or "SYSTEM") or the Alcatel account user can delete a user profile entry in the User Security Database (i.e., execute a DLT-USER command). In addition, the system administrator and Alcatel user profiles cannot be deleted.

A DLT-USER command is denied if:

- A user other than "SYSTEM", "system", or Alcatel account user, enters the command.
- An invalid parameter value is entered.

INPUT FORMAT

DLT-USER: [TID] : : [CTAG] : : UID;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
UID	<5-12 VALID UID CHARACTERS> Default: Entry Required Addressing: None Description: User Identifier, specifies the user ID whose user security database entry is to be deleted. (Refer to the UID parameter in ENT-USER for a description of valid UID values.) Restrictions: DLT-USER command is denied if a UID of {system, SYSTEM, sysprint} is entered.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M <CTAG> COMPLD  
/* <UID> */  
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]  
;
```

OUTPUT PARAMETERS

UID	<5-12 VALID UID CHARACTERS> User Identifier, identifies the UID profile deleted from the database.
-----	---

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Optional Suggested Action Text> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid /* Privilege: Unauthorized UID deletion attempt */ /* Privilege: Cannot delete current UID */ /* Privilege: Unauthorized Deletion Attempt */
IPEX	Input, Parameter EXtra
IPNV	Input, Parameter Not Valid /* UID not found */ /* Illegal Input: UID length */ /* Illegal Input: UID */ /* User requesting change not found in USDB */ /* Cannot delete UID from USDB – status = <status number> */
SDBE	Status, internal Data Base Error /* Unable to read USDB – status = <status number> */

EXAMPLES

In the following example, user11's user profile is deleted (the UID of user11 is removed from the system).

```
DLT-USER:::::user11;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P09056. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed. was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P09056 COMPLD
  /* user11 */
  /* DLT-USER:::::user11 [P09056] (1) */
;
```

RELATED COMMANDS

```
ACT-USER
CANC-USER
ED-PRVG-USER
ENT-USER
RTRV-PRVG-USER
```

COMMAND CODE: **DLT-VT1**
COMMAND NAME: **DELETE VT1**

PURPOSE

The DLT-VT1 command deletes (unassigns and deprovisions) the specified VT1.5 object entity (AID). Upon completion of a DLT-VT1 command, the specified VT1.5 is placed in the deprovisioned state of OOS-MA,UAS.

Executing a DLT-VT1 command causes a state transition for the specified VT1.5 from

- IS to OOS-MA,UAS
- OOS-AU to OOS-MA,UAS
- OOS-AU,AINS to OOS-MA,UAS
- OOS-AUMA to OOS-MA,UAS
- OOS-MA to OOS-MA,UAS

When a DLT-VT1 is completed, all condition types associated with the specified VT1.5 are cleared.

If this is the last VT1.5 embedded within an STS-1, then the STS-1 will have its SDEE secondary state cleared when the VT1.5 is deleted.

A DLT-VT1 command is denied if:

- The specified VT1.5 is not provisioned (using ENT-VT1).
- Any DS1s embedded within the specified VT1.5 are provisioned (the VT1.5 has an SST of SDEE).
- The specified VT1.5 has an SST of ACT, BUSY, LPBK, or TS.
- An invalid parameter value is entered.

INPUT FORMAT

DLT-VT1 : [TID] : AID : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >		
	Default:	<SID>	
	Addressing:	None	
	Description:	Target Identifier, specifies the network node TID for the command.	
AID	VT1_AID:		
	{EC1VT1-{1-3840}-{1-7}-{1-4}}	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)	
	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)	
	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}		
	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)		
	Default:	Entry Required	
	Addressing:	&&-ranging and &-grouping	
	Description:	VT1 AID, identifies the VT1.5 port.	
CTAG	< 1-6 VALID CTAG CHARACTERS >		
	Default:	< System assigned CTAG value >	
	Addressing:	None	
	Description:	Correlation Tag, associates input command with its output responses.	

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID [-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
PICC	Privilege, Invalid Command Code /* TAPP belongs to another user */
SDBE	Status, internal Data Base Error /* TP Database Error: <ERROR-STRING> for <AID-STRING> */ /* Error updating supporting entity, Error=<ERROR-STRING> */ /* VT1 Shelf info error, Error=<ERROR-STRING> */ /* Error disabling supported T1, Error=<ERROR-STRING> */ /* Error updating FAD B's supporting entity, Error=<ERROR-STRING> */
SNVS	Status, Not in Valid State
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, VT1.5 port EC1VT1-6-7-4 (VT1.5 embedded within an EC1) is deprovisioned:

```
DLT-VT1::EC1VT1-6-7-4;
```

In the following example, VT1.5 ports EC1VT1-3-5-1 through EC1VT1-3-5-5 and OC3VT1-7-3-7-2 (VT1.5 embedded within an OC-3) are deprovisioned:

```
DLT-VT1::EC1VT1-3-5-1&&-5&OC3VT1-7-3-7-2;
```

RELATED COMMANDS

```
ED-VT1
ENT-VT1
RMV-VT1
RST-VT1
RTRV-VT1
```


COMMAND CODE: **ED-CID**
COMMAND NAME: **EDIT COMMUNICATIONS INTERFACE
DEVICE**

PURPOSE

The ED-CID command modifies the provisioned parameter values, previously provisioned using ENT-CID, in the system's CID (Communication Interface Device) configuration database for the specified CPORT.

The provisioned changes to the CPORT's configuration are applied to the CPORT after it is logically removed and logically restored (using the RMV-CID and RST-CID commands), except that changes to the AUTOIN parameter value also take effect when the next user logs in to the system (using an ACT-USER command).

A CPORT must be logically removed (using RMV-CID) to edit the PROTOCOL parameter to or from a value of X25 or TCP.

An ED-CID command is denied if:

- The specified CPORT has not previously been provisioned (using ENT-CID).
- The PROTOCOL parameter is being edited to or from a value of X25 or TCP and the CPORT has not been logically removed (using the RMV-CID command).
- A UID specified for AUTOIN has not previously been provisioned (using the ENT-USER command).
- An invalid parameter value or combination of parameter values is entered.

When the system is in the Limited Command Entry Mode of operation (refer to the STOP-OPS command), the system administrator (UID of "system") is automatically logged-in on CPORT 1 and the system printer (UID of "sysprint") is automatically logged-in on CPORT 6.

CPORT 1 is not allowed to be configured for automatic UID login. Therefore, a normal login sequence (using ACT-USER) is required from CPORT 1 when the system is in the normal command entry mode (Direct Input Command Entry or Menu Mode).

When the CPU is reset, the baud rate is set to 9600 and the protocol type is set to XON for CPORT 1.

If a CPORT is configured as an X.25 communication port, then:

- The ED-CID-OSPORT command is used to configure the common X.25 protocol parameters (such as packet size, range of PVC and SVC channel numbers, and the X.25 called address) for the CPORT. These parameters are applicable to all PVCs or SVCs within the CPORT.
- The ENT-CID-VC command is used to configure the CPORT for up to eight X.25 PVC or SVC channels, or combination of both. The command is also used to configure the Logical Channel Number for a PVC, and any associated automatic UID login for a PVC or outgoing SVC.
- The ENT-OSADDR-SITE and ED-OSADDR-SITE commands are used to create a database of allowable X.25 calling addresses, and any associated automatic UID login for each calling address for incoming SVCs.

If a CPORT is configured as a TCP communication port, then:

- The ED-IP-PRMTR command is used to provision the IP Layer parameters of the LAN interface on the ICM.

User login security is removed by provisioning a CPORT, or an X.25 PVC or SVC, with automatic UID login since anyone with access to the communication interface has the same command privileges as the UID provisioned in AUTOIN parameter.

A CPORT connected to a printer terminal (refer to the TYPE parameter in the ENT-USER command) should be configured for automatic UID login. If the CPORT is configured for a normal login sequence (AUTOIN of %), the system waits for an ACT-USER command (indefinitely if an output-only printer terminal is connected).

INPUT FORMAT

ED-CID: [TID] : CPORT: [CTAG] : : [PROTOCOL] , [BAUD] , [AUTOIN] , [ACTUSERDM] ;

INPUT PARAMETERS

TID	< 1–20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CPORT	{1–12} Default: Entry Required Addressing: None Description: Control Port, specifies the physical communication port number on the APS control system. Restrictions: ED–CID is denied if an invalid combination of values for PROTOCOL and CPORT is entered. Valid value combinations are shown below:

Valid Value Combinations for:	
PROTOCOL	CPORT
SNIDER	{2–12} (Up to 11 CPORTs)
TCP	{3,5,7,9,11} (Up to 3 CPORTs)
X25	{2–5, 7–12} (Up to 4 CPORTs)
XON	{1–12} (Up to 12 CPORTs)

ED–CID is denied if CPORT of {1} and AUTOIN of {<UID>} is entered.

CTAG	< 1–6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.								
PROTOCOL	{SNIDER, TCP, X25, XON} Default: <Previously Existing Value> Addressing: None Description: Protocol, specifies the communication protocol used for the control port. Values are: <table> <tr> <td>SNIDER</td><td>AT&T's SNIDER protocol.</td></tr> <tr> <td>TCP</td><td>TCP/IP protocol, implies the selected CPORT is running the TCP/IP over the Local Area Network (LAN).</td></tr> <tr> <td>X25</td><td>X.25 protocol. The X.25 port parameters are applied to all PVCs and SVCs within the CPORT. (Refer to the ED–CID–OSPORT and ENT–CID–VC commands.)</td></tr> <tr> <td>XON</td><td>XON/XOFF protocol, specifies the asynchronous XON/XOFF (flow control) protocol.</td></tr> </table> Restrictions: ED–CID is denied if an invalid combination of values of PROTOCOL with CPORT, BAUD, AUTOIN, and ACTUSERDM is entered.	SNIDER	AT&T's SNIDER protocol.	TCP	TCP/IP protocol, implies the selected CPORT is running the TCP/IP over the Local Area Network (LAN).	X25	X.25 protocol. The X.25 port parameters are applied to all PVCs and SVCs within the CPORT. (Refer to the ED–CID–OSPORT and ENT–CID–VC commands.)	XON	XON/XOFF protocol, specifies the asynchronous XON/XOFF (flow control) protocol.
SNIDER	AT&T's SNIDER protocol.								
TCP	TCP/IP protocol, implies the selected CPORT is running the TCP/IP over the Local Area Network (LAN).								
X25	X.25 protocol. The X.25 port parameters are applied to all PVCs and SVCs within the CPORT. (Refer to the ED–CID–OSPORT and ENT–CID–VC commands.)								
XON	XON/XOFF protocol, specifies the asynchronous XON/XOFF (flow control) protocol.								

BAUD {1200, 2400, 4800, 9600, 19200, 38400, 10}
Default: <Previously Existing Value>
Addressing: None
Description: Baud Rate, specifies the baud rate of the control port. For CPORTs with PROTOCOL set to X25, any entered BAUD parameter value is ignored and the system automatically selects the external timing reference provided by the DCE (Data Communication Equipment). For CPORTs with PROTOCOL set to TCP, the BAUD parameter value is 10 megabit/second.
Restrictions: ED-CID is denied if an invalid combination of values for PROTOCOL and BAUD is entered. Valid value combinations are shown below:

Valid Value Combinations for:	
PROTOCOL	BAUD
SNIDER	{1200, 2400, 4800, 9600, 19200}
TCP	{10}
X25	{1200, 2400, 4800, 9600, 19200}
XON	{1200, 2400, 4800, 9600, 19200}

AUTOIN {%, <UID>}
Default: <Previously Existing Value>
Addressing: None
Description: Automatic Login, specifies whether a User ID is automatically logged-in on the control port. Values are:
 % No Automatic Login, a normal log-on sequence (using ACT-USER) is required to access the system, or UID Auto Login for X.25 virtual channels is specified by ENT-CID-VC for PVCs and outgoing SVCs or by ENT-OSADDR-SITE for incoming SVCs.
 <UID> UID Automatically Logged-on, the entered User ID (UID) is automatically logged-on whenever the CPORT is in service.
Restrictions: ED-CID is denied if an invalid combination of values for PROTOCOL and AUTOIN is entered. Valid value combinations are shown below:

Valid Value Combinations for:	
PROTOCOL	AUTOIN
SNIDER	{%, <UID>}
TCP	{%}
X25	{%}
XON	{%, <UID>}

ED-CID is denied if AUTOIN of {<UID>} and CPORT of {1} is entered.
 ED-CID is denied if AUTOIN of {SYSTEM, system} is entered.

ACTUSERDM {AUECHO, AUNOECHO, <NoVal>
Default: <Previously Existing Value>
Addressing: None
Description: ACT–USER Display Mode, specifies whether the input characters (key-strokes) for an ACT–USER command entered over the specified CPORT, or entered over any provisioned X.25 PVCs or incoming SVCs within the CPORT, are echoed by the system. Values are:
 AUECHO Character Echo, ACT–USER input characters are echoed.
 AUNOECHO Character Not Echo, ACT–USER input characters are not echoed.
Restrictions: ED–CID is denied if an invalid combination of values for PROTOCOL and ACTUSERDM is entered. Valid value combinations are shown below:

Valid Value Combinations for:	
PROTOCOL	ACTUSERDM
SNIDER	{AUECHO, AUNOECHO, <NoVal>}
TCP	{AUNOECHO, <NoVal>}
X25	{AUECHO, AUNOECHO, <NoVal>}
XON	{AUECHO, AUNOECHO, <NoVal>}

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
/* <CPORT>, <PROTOCOL>, <BAUD>, <AUTOIN>, <ACTUSERDM> */
[/* <MODEM>, <SIZE>, <L3WIN>, <KWIN>, <HIPVC>, <LISVC>, <HISVC>,
<LTSVC>, <HTSVC>, <LOSVC>, <HOSVC>, <ADDR> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

CPORT {1–12}
Control Port, identifies the physical control port number.

PROTOCOL {SNIDER, TCP, X25, XON}
Protocol, identifies the communication protocol used with the control port. Values are:
 SNIDER SNIDER protocol.
 TCP TPC/IP protocol, implies the selected CPORT is running the IP over the Local Area Network (LAN).
 X25 X.25 protocol.
 XON XON/XOFF protocol, indicates the asynchronous XON/XOFF (flow control) protocol.

BAUD {1200, 2400, 4800, 9600, 19200, 38400, 10}
Baud Rate, identifies the baud rate of the control port. (Note. The system automatically selects the external timing reference provided by the DCE (Data Communication Equipment) if PROTOCOL is X25, regardless of the value returned for BAUD.) For CPORTs with PROTOCOL set to TCP, the BAUD parameter value is 10 megabit/second.

AUTOIN	<p>{%, <UID>}</p> <p>Automatic Login, indicates whether a User ID is automatically logged-in on the control port. Values are:</p> <table> <tr> <td>%</td><td>No Automatic Login, a normal log-on sequence (using ACT-USER) is required to access the system, or UID Auto Login for X.25 virtual channels is specified by ENT-CID-VC for PVCs and outgoing SVCs or by ENT-OSADDR-SITE for incoming SVCs.</td></tr> <tr> <td><UID></td><td>UID Automatically Logged-on, the entered User ID (UID) is automatically logged-on whenever the CPORT is in service.</td></tr> </table>	%	No Automatic Login, a normal log-on sequence (using ACT-USER) is required to access the system, or UID Auto Login for X.25 virtual channels is specified by ENT-CID-VC for PVCs and outgoing SVCs or by ENT-OSADDR-SITE for incoming SVCs.	<UID>	UID Automatically Logged-on, the entered User ID (UID) is automatically logged-on whenever the CPORT is in service.
%	No Automatic Login, a normal log-on sequence (using ACT-USER) is required to access the system, or UID Auto Login for X.25 virtual channels is specified by ENT-CID-VC for PVCs and outgoing SVCs or by ENT-OSADDR-SITE for incoming SVCs.				
<UID>	UID Automatically Logged-on, the entered User ID (UID) is automatically logged-on whenever the CPORT is in service.				
ACTUSERDM	<p>{AUECHO, AUNOECHO}</p> <p>ACT-USER Display Mode, indicates whether the input characters (keystrokes) for an ACT-USER command entered over the indicated CPORT, or entered over any provisioned X.25 PVCs or incoming SVCs within the CPORT, are echoed by the system.. Values are:</p> <table> <tr> <td>AUECHO</td><td>Character Echo, ACT-USER input characters are echoed.</td></tr> <tr> <td>AUNOECHO</td><td>Character Not Echo, ACT-USER input characters are not echoed.</td></tr> </table>	AUECHO	Character Echo, ACT-USER input characters are echoed.	AUNOECHO	Character Not Echo, ACT-USER input characters are not echoed.
AUECHO	Character Echo, ACT-USER input characters are echoed.				
AUNOECHO	Character Not Echo, ACT-USER input characters are not echoed.				
MODEM	<p>{NO, YES}</p> <p>Modem Controls, indicates whether the X.25 control port is provisioned (using ED-CID-OSPORT) to use RTS (Request To Send) and CTS (Clear To Send) modem control signals. The output line for MODEM is returned only if PROTOCOL is X25.</p>				
SIZE	<p>{128, 256}</p> <p>Packet Size, indicates the provisioned value (using ED-CID-OSPORT) for the X.25 maximum packet size. The output line for SIZE is returned only if PROTOCOL is X25.</p>				
L3WIN	<p>{1-7}</p> <p>Level 3 Window Size, indicates the provisioned value (using ED-CID-OSPORT) for the X.25 level 3 window size. The output line for L3WIN is returned only if PROTOCOL is X25.</p>				
KWIN	<p>{1-7}</p> <p>Level 2 Window Size, indicates the provisioned value (using ED-CID-OSPORT) for the X.25 level 2 window size (in number of frames). The output line for KWIN is returned only if PROTOCOL is X25.</p>				
HIPVC	<p>{0-8}</p> <p>Highest Incoming PVC Channel Number, indicates the provisioned value (using ED-CID-OSPORT) for the X.25 HIPVC number. The output line for HIPVC is returned only if PROTOCOL is X25.</p>				
LISVC	<p>{0-4095}</p> <p>Lowest Incoming SVC Channel Number, indicates the provisioned value (using ED-CID-OSPORT) for the X.25 LISVC number. The output line for LISVC is returned only if PROTOCOL is X25.</p>				
HISVC	<p>{0-4095}</p> <p>Highest Incoming SVC Channel Number, indicates the provisioned value (using ED-CID-OSPORT) for the X.25 HISVC number. The output line for HISVC is returned only if PROTOCOL is X25.</p>				
LTSVC	<p>{0-4095}</p> <p>Lowest Two-way (Incoming or Outgoing) SVC Channel Number, indicates the provisioned value (using ED-CID-OSPORT) for the X.25 LTSVC number. The output line for LTSVC is returned only if PROTOCOL is X25.</p>				
HTSVC	<p>{0-4095}</p> <p>Highest Two-way (Incoming or Outgoing) SVC Channel Number, indicates the provisioned value (using ED-CID-OSPORT) for the X.25 HTSVC number. The output line for HTSVC is returned only if PROTOCOL is X25.</p>				

LOSVC	{0–4095} Lowest Outgoing SVC Channel Number, indicates the provisioned value (using ED–CID–OSPORT) for the X.25 LOSVC number. The output line for LOSVC is returned only if PROTOCOL is X25.
HOSVC	{0–4095} Highest Outgoing SVC Channel Number, indicates the provisioned value (using ED–CID–OSPORT) for the X.25 HOSVC number. The output line for HOSVC is returned only if PROTOCOL is X25.
ADDR	< 1–15 INTEGER X.25_CALLED_ADDRESS > X.25 Called Address, indicates the provisioned value (using ED–CID–OSPORT) for the X.25 Called Address (the X.25 address for the system). The output line for ADDR is returned only if PROTOCOL is X25.

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Optional Suggested Action Text> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

```

IDNV      Input, Data Not Valid
          /* Delete vc's before changing this port to be non-x25 */
          /* Illegal Input: OS error */
          /* Illegal Input: AUTOIN */
          /* X.25 not allowed on CID <cid> */
          /* SNIDER not allowed on CID <cid> */
          /* Maximum of <cid> CID ports already configured for X.25 */
          /* AUTO LOGIN (Illegal AUTOIN) */
          /* AUTO LOGIN illegal on CID 1 */
          /* AUTO LOGIN invalid with X25 port */
          /* AUTO LOGIN (Duplicate AUTOIN in OSADDR) */
          /* AUTO LOGIN (Duplicate AUTOIN in OSDB) */
          /* AUTO LOGIN (Non-existent AUTOIN) */
          /* Invalid CID (CPORT) entered */
          /* CID (CPORT) already exists */

SDBE      Status, internal Data Base Error
          /* Unable to read OSDB – status = <status number> */
          /* Unable to write to OSDB – status = <status number> */
          /* Unable to update OSDB – status = <status number> */

```

EXAMPLES

In the following example, the provisioning for CPORT 2 is changed to the X.25 protocol.

```
ED-CID::2:::X25;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P05003. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P05003 COMPLD
/* 2,X25,9600,%,AUECHO */
/* YES,128,2,7,0,0,0,0,0,0,0,0 */
/* Change(s) will take effect on next RST-CID */
/* ED-CID::2::X25 [P05003] (1) */
;
```

In the following example, the provisioning for CPORT 3 is changed to the XON protocol and a baud rate of 9600.

```
ED-CID::3::XON,9600;
```

The output response, shown below, assumes CID 5 was used to enter the command and a system generated CTAG value of P05048. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P05048 COMPLD
/* 3,XON,9600,%,AUECHO */
/* Change(s) will take effect on next RST-CID */
/* ED-CID::3::XON,, [P05048] (5) */
;
```

RELATED COMMANDS

DLT-CID
DLT-CID-VC
DLT-OSADDR-SITE
ED-CID-OSPORT
ED-CID-VC
ED-OSADDR-SITE
ED-PRMTR-SITE
ENT-CID
ENT-CID-VC
ENT-EQPT
ENT-OSADDR-SITE
RMV-CID
RST-CID
RTRV-CID
RTRV-EQPT
RTRV-OSADDR-SITE
RTRV-PRMTR-SITE
START-CID
STOP-CID
STOP-OPS

COMMAND CODE: **ED-CID-LCTN**
COMMAND NAME: **EDIT COMMUNICATIONS INTERFACE
DEVICE (OUTPUT BUFFER) LOCATION**

PURPOSE

The ED-CID-LCTN command adjusts the specified CPORT's or X.25 virtual channel's or TCP session's output message buffer location to the end of the output message disk buffer so that the next output message transmitted on the CPORT or virtual channel is the output message for the next message event from the system (i.e., the end of the output message disk buffer).

A user, other than the system administrator (UID of "system" or "SYSTEM") or the Alcatel account user, cannot change the output message buffer location of a CPORT or X.25 virtual channel or TCP session being used by another user.

When a user logs in to the system (using ACT-USER), the user may receive all output messages generated by the system while the user was logged off the system, depending on the provisioning of the DSKBFIND parameter (using ENT-USER or ED-PRVG-USER) for the user. Executing an ED-CID-LCTN command causes these buffered output messages to be skipped (the output message process jumps to the end of the output message buffer). After executing this command, the user receives output messages caused by current events in the system.

An ED-CID-LCTN command is denied if:

- A user is not currently logged in on the specified CPORT or X.25 virtual channel or TCP session.
- A user, other than system, SYSTEM, or the Alcatel account user, specifies a CPORT,[VCNUM] other than the communication port the user is currently using (logged in on).
- A VCNUM value of {1-8} is *not* entered and the CPORT's PROTOCOL parameter (refer to ENT-CID and ED-CID commands) is set to X25.
- A VCNUM value of {1-8} is entered and the CPORT's PROTOCOL parameter (refer to ENT-CID and ED-CID commands) is *not* set to X25.
- A VCNUM value of {1-32} is *not* entered and the CPORT's PROTOCOL parameter (refer to ENT-CID and ED-CID commands) is set to TCP.
- A VCNUM of {1-32} is entered and the CPORT's PROTOCOL parameter (refer to ENT-CID and ED-CID commands) is *not* set to TCP.
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

ED-CID-LCTN: [TID] : CPORT , [VCNUM] : [CTAG] : : [BUFLOC] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >	
	Default:	<SID>
	Addressing:	None
	Description:	Target Identifier, specifies the network node TID for the command.
CPORT	{1-12}	
	Default:	Entry Required
	Addressing:	None
	Description:	Control Port, specifies the physical control port number on the APS control system.

VCNUM	{1–32}	
	Default:	Entry required for an X.25 or TCP CPORT (the CPORT's PROTOCOL parameter is set to X25 or TCP). No entry allowed for a non-X.25 or non-TCP CPORT (the CPORT's PROTOCOL parameter is not set to X25 or TCP).
	Addressing:	&&–ranging and &–grouping
	Description:	Virtual Channel Number, specifies the X.25 virtual channel within the specified CPORT or the TCP session number within a TCP CPORT (i.e., the CPORT refers to a LAN on the ICM). Values are:
	{1–8}	Identifies the specific virtual channel number within the X.25 configured CPORT specified by the CPORT parameter.
	{1–32}	Identifies the specific TCP session number within a TCP CPORT.
	Restrictions:	ED–CID–LCTN is denied if VCNUM of {1–8} is <i>not</i> entered and the CPORT's PROTOCOL parameter (refer to ENT–CID and ED–CID commands) is set to X25. ED–CID–LCTN is denied if VCNUM of {1–8} is entered and the CPORT's PROTOCOL parameter (refer to ENT–CID and ED–CID commands) is <i>not</i> set to X25. ED–CID–LCTN is denied if VCNUM of {1–32} is <i>not</i> entered and the CPORT's PROTOCOL parameter (refer to ENT–CID and ED–CID commands) is set to TCP. ED–CID–LCTN is denied if VCNUM of {1–32} is entered and the CPORT's PROTOCOL parameter (refer to ENT–CID and ED–CID commands) is <i>not</i> set to TCP.
CTAG	< 1–6 VALID CTAG CHARACTERS >	
	Default:	< System assigned CTAG value >
	Addressing:	None
	Description:	Correlation Tag, associates input command with its output responses.
BUFLOC	{END}	
	Default:	{END}
	Addressing:	None
	Description:	Event Log File Buffer Location, specifies the location in the Event Log File disk buffer for the next output message for the specified CPORT or X.25 virtual channel or TCP session. Values are:
	END	Skip to End of Buffer, specifies all message output from the disk buffer is to be skipped so that the next output message transmitted on the CPORT or virtual channel is the output message for the next message event from the system.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
/* CID <CPORT>[:<VCNUM>] has been adjusted to display current output */
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

OUTPUT PARAMETERS

CPORT	{1–12}	Control Port, identifies the physical control port number.
VCNUM	{1–32}	Virtual Channel Number, identifies the X.25 virtual channel within the specified X.25 CPORT or the TCP session number within a TCP CPORT. A value for VCNUM is returned only if the PROTOCOL parameter in the ENT–CID or ED–CID command is set to X25 or TCP.

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Optional Suggested Action Text> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid
IPMS	Input, Parameter MiSsing
IPNV	Input, Parameter Not Valid
	/* Illegal Input: CID is an X25 CPORT; specify a VCNUM */
	/* session <SESSION> does not exist */
	/* CID <CPORT> does not have an active buffer */
	/* CID <CPORT>:<VCNUM> does not have an active buffer */
	/* Invalid CID <CPORT> entered */
	/* X25 vc <VCNUM> does not exist */
	/* A user is not currently logged onto this CID */
	/* The user on this CID is in the process of logging out */
SDBE	Status, internal Data Base Error
	/* Unable to read OSDB – status = <status number> */
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, the Event Log File output message buffer location for CPORT 3, virtual channel 5 is adjusted to the end of any disk buffered output.

```

ED-CID-LCTN: :3,5;

The output response, shown below, assumes CID 3, X.25 virtual channel 5 was used to enter the com-
mand and a system generated CTAG value of P71062. The response header would contain the
provisioned Site ID of the system, and the date and time the command was executed.

<SID> <YY-MM-DD> <HH:MM:SS>
M P71062 COMPLD
/* CID 3:5 has been adjusted to display current output */
/* ED-CID-LCTN::3,5 [P71062] (3-5) */
;

```

RELATED COMMANDS

ACT-USER

ED-PRVG-USER

ENT-CID

ENT-CID-VC

ENT-USER

RTRV-CID

START-CID

STOP-CID

COMMAND CODE: ED-CID-OSPORT
COMMAND NAME: EDIT COMMUNICATIONS INTERFACE
DEVICE OPERATIONS SYSTEM PORT

PURPOSE

The ED-CID-OSPORT command modifies the common X.25 protocol parameters (CTS/RTS modem signaling, packet size, level 2 and 3 window sizes, PVC and SVC logical channel number ranges, and the X.25 called address) for the specified CPORT. These parameters are applicable to all PVCs or SVCs within the CPORT.

The provisioned changes to the CPORT's X.25 configuration are applied to the CPORT after it and its provisioned virtual channels are logically removed and logically restored (via the RMV-CID and RST-CID commands), provided any changes to the PVC/SVC logical channel number ranges does not conflict with the existing provisioned virtual channel configuration. If a virtual channel provisioning conflict would result in executing the ED-CID-OSPORT command, the X.25 CPORT must be logically removed (via RMV-CID) and each conflicting virtual channel must be deleted (via DLT-CID-VC) and re-provisioned (via ENT-CID-VC).

Factory default values are assigned for each of the common X.25 protocol parameters when a CPORT database entry is created using the ENT-CID command with the PROTOCOL parameter set to X25.

An X.25 connection cannot be established on a CPORT that does not have a unique provisioned X.25 called address (ADDR parameter) per CPORT.

An ED-CID-OSPORT command is denied if:

- The specified CPORT has not been provisioned as an X.25 CPORT (via ENT-CID with PROTOCOL of X25).
- The specified PVC/SVC ranges of logical channel numbers conflict with the existing provisioned virtual channel configuration (e.g., changing the HIPVC when the X.25 CPORT is provisioned with a PVC).
- The specified ADDR value (X.25 called address) is not unique, other than zero, per CPORT.
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

```
ED-CID-OSPORT: [TID] :CPORT: [CTAG] ::: [MODEM=] [, SIZE=] [, L3WIN=] [, KWIN=]  
[ , HIPVC=] [, LISVC=] [, HISVC=] [, LTSVC=] [, HTSVC=] [, LOSVC=] [, HOSVC=]  
[ , ADDR=] ;
```

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CPORT	{2-5, 7-12} Default: Entry Required Addressing: None Description: Control Port, specifies the physical communication port number on the APS control system.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
MODEM=	{NO, YES} Default: Previously existing value, or {YES} (Factory Default) Addressing: None Description: Modem Controls, specifies whether RTS (Request To Send) and CTS (Clear To Send) modem control signals are used.

SIZE=	{128, 256}	
	Default:	Previously existing value, or {128} (Factory Default)
	Addressing:	None
	Description:	Packet Size, specifies the maximum X.25 packet size in bytes.
L3WIN=	{1-7}	
	Default:	Previously existing value, or {2} (Factory Default)
	Addressing:	None
	Description:	Level 3 Window Size, specifies the X.25 level 3 window size.
KWIN=	{1-7}	
	Default:	Previously existing value, or {7} (Factory Default)
	Addressing:	None
	Description:	Level 2 K Window Size, specifies the X.25 Level 2 K window size (in number of frames).
HIPVC=	{0-8}	
	Default:	Previously existing value, or {0} (Factory Default)
	Addressing:	None
	Description:	Highest Incoming PVC Channel Number, specifies the highest allowable PVC channel number. A value of 0 specifies that no PVCs are allowed. The CPORTs provisioned value for LCN (in the ENT-CID-VC command) must be less-than or equal-to the value for HIPVC which must be less-than the value for LISVC.
	Restrictions:	ED-CID-OSPORT is denied if the LCN parameter (in ENT-CID-VC) value is not less-than or equal-to the HIPVC parameter value. ED-CID-OSPORT is denied if the HIPVC parameter value is not less-than or equal-to the LISVC parameter value.
LISVC=	{0-4095}	
	Default:	Previously existing value, or {0} (Factory Default)
	Addressing:	None
	Description:	Lowest Incoming SVC Channel Number, specifies the lowest allowable incoming SVC channel number.
	Restrictions:	ED-CID-OSPORT is denied if the HIPVC parameter value is not less-than or equal-to the LISVC parameter value. ED-CID-OSPORT is denied if the LISVC parameter value is not less-than or equal-to the HISVC parameter value.
HISVC=	{0-4095}	
	Default:	Previously existing value, or {0} (Factory Default)
	Addressing:	None
	Description:	Highest Incoming SVC Channel Number, specifies the highest allowable incoming SVC channel number.
	Restrictions:	ED-CID-OSPORT is denied if the LISVC parameter value is not less-than or equal-to the HISVC parameter value. ED-CID-OSPORT is denied if the HISVC parameter value is not less-than or equal-to the LTSVC parameter value.
LTSVC=	{0-4095}	
	Default:	Previously existing value, or {0} (Factory Default)
	Addressing:	None
	Description:	Lowest Two-way (Incoming or Outgoing) SVC Channel Number, specifies the lowest allowable two-way SVC channel number.
	Restrictions:	ED-CID-OSPORT is denied if the HISVC parameter value is not less-than or equal-to the LTSVC parameter value.

		ED-CID-OSPORT is denied if the LTSVC parameter value is not less-than or equal-to the HTSVC parameter value.
HTSVC=	{0-4095}	
	Default:	Previously existing value, or {0} (Factory Default)
	Addressing:	None
	Description:	Highest Two-way (Incoming or Outgoing) SVC Channel Number, specifies the highest allowable two-way SVC channel number.
	Restrictions:	ED-CID-OSPORT is denied if the LTSVC parameter value is not less-than or equal-to the HTSVC parameter value. ED-CID-OSPORT is denied if the HTSVC parameter value is not less-than or equal-to the LOSVC parameter value.
LOSVC=	{0-4095}	
	Default:	Previously existing value, or {0} (Factory Default)
	Addressing:	None
	Description:	Lowest Outgoing SVC Channel Number, specifies the lowest allowable outgoing SVC channel number.
	Restrictions:	ED-CID-OSPORT is denied if the HTSVC parameter value is not less-than or equal-to the LOSVC parameter value. ED-CID-OSPORT is denied if the LOSVC parameter value is not less-than or equal-to the HOSVC parameter value.
HOSVC=	{0-4095}	
	Default:	Previously existing value, or {0} (Factory Default)
	Addressing:	None
	Description:	Highest Outgoing SVC Channel Number, specifies the highest allowable outgoing SVC channel number.
	Restrictions:	ED-CID-OSPORT is denied if the LOSVC parameter value is not less-than or equal-to the HOSVC parameter value.
ADDR=	<1-15 INTEGER X.25_CALLED_ADDRESS>	
	Default:	Previously existing value, or {0} (Factory Default)
	Addressing:	None
	Description:	X.25 Called Address, specifies the X.25 Called Address (the X.25 address for the system) which is compared to the Called Address field in the X.25 call request packet. An X.25 connection cannot be established on a CPORT that does not have a unique Called Address per CPORT. Leading zeros are not truncated.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
/* <CPORT>,<BAUD>,<AUTOIN> */
/* <MODEM>,<SIZE>,<L3WIN>,<KWIN>,<HIPVC>,<LISVC>,<HISVC>,<LTSVC>,<HTSVC>,<LOSVC>,<HOSVC>,<ADDR> */
/* Warning: REMOVE and RESTORE (RMV-CID/RST-CID) to use OS parameters */
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

OUTPUT PARAMETERS

CPORT	{2-5, 7-12}	Control Port, identifies the physical control port number.
BAUD	{1200, 2400, 4800, 9600, 19200}	Baud Rate, identifies the baud rate of the control port. (Note. The system automatically selects the external timing reference provided by the DCE (Data Communication Equipment) if PROTOCOL is X25, regardless of the value returned for BAUD.)

AUTOIN	{%} Automatic Login, a value of {%} is always returned. Auto-login for PVCs is provisioned via ENT-CID-VC and auto-login for SVCs is provisioned via ENT-OSADDR-SITE.
MODEM	{NO, YES} Modem Controls, indicates whether the X.25 control port uses RTS (Request To Send) and CTS (Clear To Send) modem control signals.
SIZE	{128, 256} Packet Size, indicates the X.25 maximum packet size.
L3WIN	{1-7} Level 3 Window Size, indicates the X.25 Level 3 window size.
KWIN	{1-7} Level 2 K Window Size, indicates the X.25 Level 2 window size (in number of frames).
HIPVC	{0-8} Highest Incoming PVC Channel Number, indicates the X.25 HIPVC channel number.
LISVC	{0-4095} Lowest Incoming SVC Channel Number, indicates the X.25 LISVC channel number.
HISVC	{0-4095} Highest Incoming SVC Channel Number, indicates the X.25 HISVC channel number.
LTSVC	{0-4095} Lowest Two-way (Incoming or Outgoing) SVC Channel Number, indicates the X.25 LTSVC channel number.
HTSVC	{0-4095} Highest Two-way (Incoming or Outgoing) SVC Channel Number, indicates the X.25 HTSVC channel number.
LOSVC	{0-4095} Lowest Outgoing SVC Channel Number, indicates the X.25 LOSVC channel number.
HOSVC	{0-4095} Highest Outgoing SVC Channel Number, indicates the X.25 HOSVC channel number.
ADDR	<1-15 INTEGER X.25_CALLED_ADDRESS> X.25 Called Address, indicates the X.25 Called Address (the X.25 address for the system).

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Optional Suggested Action Text> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IPNV	Input, Parameter Not Valid /* HIPVC cannot be less than an existing PVC's LCN */ /* HIPVC cannot be larger than LISVC */ /* PVC and Incoming SVC ranges overlap */ /* LISVC cannot be larger than HISVC */ /* HISVC cannot be larger than LTSVC */ /* Incoming and Two-Way SVC ranges overlap */ /* LTSVC cannot be larger than HTSVC */ /* HTSVC cannot be larger than LOSVC */ /* Two-Way and Outgoing SVC ranges overlap */ /* LOSVC cannot be larger than HOSVC */ /* Too many vc's defined in CID <CPORT> */ /* Existing number of svc's exceed number being defined */ /*Invalid CID <CPORT> entered */ /* CID <CPORT> does not exist */ /* X25 vc <VCNUM> does not exist */ /* This CID <CPORT> is not configured for X.25 */
SDBE	Status, internal Data Base Error /* Unable to read OSDB – status = <status number> */ /* Unable to update OSDB – status = <status number> */
SDNC	Status, Data Not Consistent /* Duplicate DTE ADDR */
SROF	Status, Requested Operation Failed /*This CID is pending removal */ /* This CID <CPORT> is an X.25 vc */

EXAMPLES

In the following example, the allowable PVC and SVC channel numbers and the X.25 called address for CPORT 2 are edited.

```
ED-CID-OSPORT::2:::HIPVC=4,LISVC=5,HISVC=16,LTSVC=17,HTSVC=32,  
  LOSVC=32,HOSVC=32,ADDR=12145551212;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P18021. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M P18021 COMPLD  
/* 2,9600,% */  
/* YES,128,2,7,4,5,16,17,32,32,32,12145551212 */  
/* Warning: REMOVE and RESTORE (RMV-CID/RST-CID) to use OS parameters  
*/  
/* ED-CID-OSPORT::2:::HIPVC=4,LISVC=5,HISVC=16,LTSVC=17,HTSVC=32,  
  LOSVC=32,HOSVC=32 [P18021] (1) */  
;
```

RELATED COMMANDS

DLT-CID
DLT-CID-VC
DLT-OSADDR-SITE
ED-CID
ED-CID-VC
ED-OSADDR-SITE
ED-PRMTR-SITE
ENT-CID
ENT-CID-VC
ENT-OSADDR-SITE
RMV-CID
RST-CID
RTRV-CID
RTRV-OSADDR-SITE
RTRV-PRMTR-SITE
START-CID
STOP-CID

COMMAND CODE: **ED-CID-VC**
COMMAND NAME: **EDIT COMMUNICATIONS INTERFACE
DEVICE VIRTUAL CHANNEL**

PURPOSE

The ED-CID-VC command edits the provisioned virtual channel entry for the specified X.25 CPORT (Control Port) and VCNUM (Virtual Channel Number) in the system's CID (Communication Interface Device) configuration database. The command edits the virtual channel number to a SVC (Switched Virtual Circuit, Incoming or Outgoing) or a PVC (Permanent Virtual Circuit). For PVC channels, the command also edits the PVC's assigned LCN (Logical Channel Number) along with any UID automatic login for the PVC. For outgoing SVC channels, the command also edits the X.25 Call Out Address and Autonomous Message Inactivity Timer along with the UID automatic login for the outgoing SVC. The virtual channel is configured with the specified provisioning changes by executing a RST-CID command for the specified CPORT.

An ED-CID-VC command is denied if:

- The specified virtual channel (specified by CPORT and VCNUM) is not previously provisioned (via the ENT-CID-VC command).
- A VCTYPE of PVC is entered and the specified LCN value is greater than the HIPVC value in ED-CID-OSPORT.
- An invalid parameter value or combination of parameter values is entered.

User login security is removed by provisioning an X.25 PVC with automatic UID login since anyone with access to the communication interface has the same command privileges as the UID provisioned in the AUTOIN parameter.

A virtual channel connected to a printer terminal (refer to the TYPE parameter in the ENT-USER command) should be configured for automatic UID login. If the virtual channel is configured for a normal login sequence (AUTOIN of %), the system waits for an ACT-USER command (indefinitely if an output-only printer terminal is connected).

INPUT FORMAT

ED-CID-VC: [TID] : CPORT, VCNUM: [CTAG] : : [VCTYPE] , [LCN] , [AUTOIN] , [X25COA] ,
[AMSGITMR] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CPORT	{2-5, 7-12} Default: Entry Required Addressing: None Description: Control Port, specifies the physical communication port number on the APS control system.
VCNUM	{1-8} Default: Entry Required Addressing: None Description: Virtual Channel Number, specifies the X.25 virtual channel within the specified CPORT.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

VCTYPE	{PVC, SVC}	
	Default:	<Previously Existing Value>
	Addressing:	None
	Description:	Virtual Circuit Type, specifies the type of virtual circuit for the indicated X.25 virtual channel. Values are:
	PVC	Permanent Virtual Circuit
	SVC	Switched Virtual Circuit (incoming SVC if AUTOIN of %, outgoing SVC if AUTOIN of <UID>).
	Restrictions:	ED-CID-VC is denied if VCTYPE of PVC is entered and an X25COA value or AMSGITMR value is entered. ED-CID-VC is denied if VCTYPE of SVC and an LCN value is entered. ED-CID-VC is denied if VCTYPE of SVC and AUTOIN of <UID> is entered and the TYPE parameter in ENT-USER is <i>not</i> PRN for the specified <UID>. ED-CID-VC is denied if VCTYPE of SVC and AUTOIN of % is entered and an X25COA value or AMSGITMR value is entered.
LCN	{1-8, <NoVal>}	
	Default:	<Previously Existing Value>
	Addressing:	None
	Description:	Logical Channel Number, specifies the logical channel number for an X.25 PVC. Values are:
	1-8	Logical Channel Number 1 through 8 for PVC.
	<NoVal>	No Value, LCN must be unpopulated if VCTYPE of SVC is entered.
	Restrictions:	ED-CID-VC is denied if an LCN value greater-than the HIPVC value in ED-CID-OSPORT is entered. ED-CID-VC is denied if an LCN value and VCTYPE of SVC is entered.
AUTOIN	{%, <UID>}	
	Default:	<Previously Existing Value>
	Addressing:	None
	Description:	Automatic Login, specifies whether a User ID is automatically logged-in on the specified PVC or outgoing SVC channel. Values are:
	%	No Automatic Login, a normal log-on sequence (via ACT-USER) is required to access the system, or UID Auto Login for X.25 incoming SVCs is specified by ENT-OSADDR-SITE.
	<UID>	UID Automatically Logged-on, the entered User ID (UID) is automatically logged-on when the outgoing SVC or PVC channel is in service.
	Restrictions:	ED-CID-VC is denied if AUTOIN of <UID> and VCTYPE of SVC is entered and the TYPE parameter in ENT-USER is <i>not</i> PRN for the specified <UID>. ED-CID-VC is denied if AUTOIN of % and VCTYPE of SVC is entered and an X25COA value or AMSGITMR value is entered.

X25COA	{<1–15 INTEGER X.25_CALL_OUT_ADDRESS>, <NoVal>}
Default:	<Previously existing value> (for VCTYPE of SVC and AUTOIN of <UID>) <NoVal> (for VCTYPE of PVC, or VCTYPE of SVC and AUTOIN of %)
Addressing:	None
Description:	X.25 Call Out Address, specifies the X.25 Call Out Address of the called DTE for outgoing SVCs. Leading zeros are not truncated. Values are: <CALL_OUT_ADDRESS> 1–15 Integer X.25 Call Out Address. <NoVal> No Value, X25COA is unpopulated for VCTYPE of PVC, or VCTYPE of SVC and AUTOIN of %.
Restrictions:	ED–CID–VC is denied if an X25COA value is entered and VCTYPE of PVC, or VCTYPE of SVC and AUTOIN of % is entered.
AMSGITMR	{15–3600, <NoVal>}
Default:	<Previously existing value> (for VCTYPE of SVC and AUTOIN of <UID>) <NoVal> (for VCTYPE of PVC, or VCTYPE of SVC and AUTOIN of %)
Addressing:	None
Description:	Autonomous (X.25 Call Out) Message Inactivity Timer, specifies the number of seconds the system waits for another autonomous message before terminating the X.25 outgoing SVC session. Expiration of the AMSGITMR indicates that no autonomous messages in the output message queue remain to be transmitted. Values are: 15–3600 15 to 3600 seconds. <NoVal> No Value, AMSGITMR is unpopulated for VCTYPE of PVC, or VCTYPE of SVC and AUTOIN of %.
Restrictions:	ED–CID–VC is denied if an AMSGITMR value is entered and VCTYPE of PVC, or VCTYPE of SVC and AUTOIN of % is entered.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
/* <CPORT>, <VCNUM>, <VCTYPE>, [<LCN>], <AUTOIN>[, <X25COA>, <AMSGITMR>] */
/* Warning: REMOVE and RESTORE (RMV-CID/RST-CID) to use OS parameters */
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

OUTPUT PARAMETERS

CPORT	{2–5, 7–12} Control Port, identifies the physical control port number.
VCNUM	{1–8} Virtual Channel Number, identifies the X.25 virtual channel within the specified X.25 CPORT.
VCTYPE	{PVC, SVC} Virtual Circuit Type, identifies the type of virtual circuit for the indicated X.25 virtual channel. Values are: PVC Permanent Virtual Circuit. SVC Switched Virtual Circuit (incoming SVC if AUTOIN of %, outgoing SVC if AUTOIN of <UID>).
LCN	{1–8, <NoVal>} Logical Channel Number, identifies the logical channel number for the X.25 PVC. A value for LCN is only returned if VCTYPE is PVC.

AUTOIN	<p>{%, <UID>}</p> <p>Automatic Login, indicates whether a User ID is automatically logged-in on the PVC or outgoing SVC virtual channel. Values are:</p> <p>% No Automatic Login, a normal log-on sequence (via ACT-USER) is required to access the system, or UID Auto Login for X.25 incoming SVCs is specified by ENT-OSADDR-SITE.</p> <p><UID> UID Automatically Logged-in, the entered User ID (UID) is automatically logged-in whenever the PVC or outgoing SVC is in service.</p>
X25COA	<p>{<1-15 INTEGER X.25_CALL_OUT_ADDRESS>, <NoVal>}</p> <p>X.25 Call Out Address, indicates the X.25 Call Out Address of the called DTE for outgoing SVCs. A value for X25COA is only returned if VCTYPE is SVC and AUTOIN is <UID>.</p>
AMSGITMR	<p>{15-3600, <NoVal>}</p> <p>Autonomous (X.25 Call Out) Message Inactivity Timer, indicates the number of seconds the system waits for another autonomous message before terminating the X.25 outgoing SVC session. Expiration of the AMSGITMR indicates that no autonomous messages in the output message queue remain to be transmitted. A value for AMSGITMR is only returned if VCTYPE is SVC and AUTOIN is <UID>.</p>

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Optional Suggested Action Text> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IPNV	Input, Parameter Not Valid /* Illegal Input: Unable to find requested vc */ /* Illegal Input: OS Port must be defined before adding a vc */ /* Illegal Input: PROTOCOL */ /* Illegal Input: LCN */ /* LCN matches an existing PVC's LCN */ /* LCN cannot be larger than HIPVC */ /* Auto Login cannot be assigned to SVCs with this command */ /* AUTO LOGIN (Illegal AUTOIN) */ /* AUTO LOGIN (Duplicate AUTOIN in OSADDR) */ /* AUTO LOGIN (Duplicate AUTOIN in OSDB) */ /* AUTO LOGIN (Non-existent AUTOIN) */ /* Illegal Input: AUTOIN */ /* Invalid CID <CPORT> entered */ /* CID <CPORT> does not exist */ /* X25 vc <VCNUM> does not exist */ /* This CID is pending removal */ /* This CID <CPORT> is not an X.25 vc */ /* The user on this CID is in the process of logging out */ /* X25 vc <VCNUM> already exists */ /* This CID <CPORT> is not configured for X.25 */
SDBE	Status, internal Data Base Error /* Illegal Input: Unable to read OSDB – status = <status number> */ /* Unable to update OSDB – status = <status number> */

EXAMPLES

The following example, the provisioning for CPORT 2, VCNUM 1 is changed to a PVC channel on logical channel 3 with no UID auto-login.

```
ED-CID-VC::2,1::PVC,3,%;
```

The output response shown below assumes CID 1 was used to enter the command and a system generated CTAG value of P71061. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```

<SID> <YY-MM-DD> <HH:MM:SS>
M P71061 COMPLD
/* 2,1,PVC,3,% */
/* Warning:REMOVE and RESTORE (RMV-CID/RST-CID) to use OS parameters */
/* ED-CID-VC::2,1::PVC,3,% [P71061] (1) */

```

RELATED COMMANDS

```

DLT-CID
DLT-CID-VC
DLT-OSADDR-SITE
ED-CID
ED-CID-OSPORT
ED-OSADDR-SITE
ED-PRMTR-SITE
ENT-CID

```

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ENT-CID-VC
ENT-OSADDR-SITE
RMV-CID
RST-CID
RTRV-CID
RTRV-OSADDR-SITE
RTRV-PRMTR-SITE
START-CID
STOP-CID

COMMAND CODE: **ED-CONF-T1**
COMMAND NAME: **EDIT CONFERENCE T1**

PURPOSE

ED-CONF-T1 enables the user to modify the circuit identification (CKTID) or the redline (RDL) status associated with a T1 conference connection. It does not enable changes to existing cross-connections.

If ampersand ranging (&) is used for an AID specifying an RDL value, the same RDL value shall be applied to each connection within the AID range.

ENT-CONF-T1 is denied if:

- Either the MASTER or TO AIDs are invalid or null.
- The RDL parameter is specified together with any other parameter.
- The specified MASTER and/or TO do not refer to a T1 or VT1.

INPUT FORMAT

ED-CONF-T1 : [TID] : MASTER, TO : [CTAG] : : [CKTID=] [, RDL=] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >		
	Default:	<SID>	
	Addressing:	None	
	Description:	Target Identifier, specifies the network node TID for the command.	
MASTER	DS1_AID:		
	{T1-{1-59392}}		(T1-DS1#)
	{T3T1-{1-4800}-{1-28}}		(T3T1-DS3#-DS1#)
	{EC1T1-{1-3840}-{1-28}}		(EC1T1-EC1/STS1/DS3#-DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-28}}		(OC3T1-OC3#-STS1/DS3#-DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}		(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)
	VT1_AID:		
	{EC1VT1-{1-3840}-{1-7}-{1-4}}		(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)
	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}		(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)
	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}		
	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)		
	Default:	Entry Required	
	Addressing:	None	
	Description:	DS1 or VT1 AID. Identifies the head (receive side from the network) of the T1/VT1 conference connection.	
TO	DS1_AID:		
	{T1-{1-59392}}		(T1-DS1#)
	{T3T1-{1-4800}-{1-28}}		(T3T1-DS3#-DS1#)
	{EC1T1-{1-3840}-{1-28}}		(EC1T1-EC1/STS1/DS3#-DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-28}}		(OC3T1-OC3#-STS1/DS3#-DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}		(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)
	VT1_AID:		
	{EC1VT1-{1-3840}-{1-7}-{1-4}}		(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)
	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}		(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)
	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}		
	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)		
	Default:	Entry Required	
	Addressing:	&&-ranging and &-grouping	
	Description:	DS1 or VT1 AID. Identifies the tail (transmit side to the network) of a broadcast conference connection.	

CTAG	< 1–6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
CKTID=	< 0–45 VALID CKTID CHARACTERS > Default: < Previously existing value > Addressing: None Description: MASTER and TO Circuit ID. 0 to 45 ASCII characters within enclosing double quotes. Semicolon, asterisk, greater-than, less-than, double quote, and backslash characters are prohibited. Empty double quotes (ie "") indicate a NULL string. Restrictions: CKTID can not be changed in same command execution used to change redline status of the connection
RDL=	{N, Y} Default: < Previously existing value > Addressing: None Description: N = connection is not redlined, Y = connection is redlined. Restrictions: Redline status cannot be changed in same command execution used to change CKTID.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid
IIAC	Input, Invalid ACcess identifier
IDNC	Input, Data Not Consistent
SDBE	Status, internal Data Base Error
SNVS	Status, Not in Valid State
SROF	Status, Requested Operation Failed
SRQN	Status, invalid ReQuest

EXAMPLES

In the following example, an existing one-way broadcast conference connection between port T3T1-1-25 (MASTER) and each of the ports T3T1-12-8, T3T1-12-9, T3T1-12-10, and T3T1-15-28 is assigned a circuit ID of TESTCKT.

```
ED-CONF-T1::T3T1-1-25,T3T1-12-8&&-10&T3T1-15-28:::CKTID="TESTCKT";
```

RELATED COMMANDS

DLT-CONF-T1
DLT-CONF-VT1
DLT-CRS-T1
DLT-CRS-VT1
ED-CONF-VT1
ENT-CONF-VT1
ENT-CRS-T1
ENT-CRS-VT1
ENT-T1
ENT-VT1
RTRV-CKTID
RTRV-CONF-T1
RTRV-CONF-VT1
RTRV-CRS
RTRV-CRS-T1
RTRV-CRS-VT1
RTRV-POOL
RTRV-RDL-ALL
RTRV-T1
RTRV-VT1

COMMAND CODE: **ED-CONF-VT1**
COMMAND NAME: **EDIT CONFERENCE VT1**

PURPOSE

ED-CONF-VT1 enables the user to modify the circuit identification (CKTID) or the redline (RDL) status associated with a VT1 conference connection. It does not enable changes to existing cross-connections.

If ampersand ranging (&&) is used for an AID specifying an RDL value, the same RDL value shall be applied to each connection within the AID range.

ED-CONF-VT1 is denied if:

- Either the MASTER or TO AIDs are invalid or null.
- The RDL parameter is specified together with any other parameter.
- The specified MASTER and TO do not refer to VT1.5.

INPUT FORMAT

ED-CONF-VT1 : [TID] : MASTER, TO : [CTAG] : : : [CKTID=] [, RDL=] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
MASTER	VT1_AID: {EC1VT1-{1-3840}-{1-7}-{1-4}} (EC1VT1-EC1/STS1#-VTGrp#-VT1.5#) {OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}} (OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#) {OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}} (OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#) Default: Entry Required Addressing: None Description: VT1 AID. Identifies the head (receive side from the network) of a broadcast conference connection. A one-way cross-connection is established from the conference head to the conference tail.
TO	VT1_AID: {EC1VT1-{1-3840}-{1-7}-{1-4}} (EC1VT1-EC1/STS1#-VTGrp#-VT1.5#) {OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}} (OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#) {OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}} (OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: VT1 AID. Identifies the tail (transmit side to the network) of a broadcast conference connection.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

CKTID= < 0–45 VALID CKTID CHARACTERS >
Default: < Previously existing value >
Addressing: None
Description: MASTER and TO Circuit ID. 0 to 45 ASCII characters within enclosing double quotes. Semicolon, asterisk, greater-than, less-than, double quote, and backslash characters are prohibited. Empty double quotes (ie "") indicate a NULL string.
Restrictions: CKTID can not be changed in same command execution used to change redline status of the connection.

RDL= {N, Y}
Default: < Previously existing value >
Addressing: None
Description: N = connection is not redlined, Y = connection is redlined.
Restrictions: Redline status cannot be changed in same command execution used to change CKTID.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid
IIAC	Input, Invalid ACcess identifier
IDNC	Input, Data Not Consistent
SDBE	Status, internal Data Base Error
SNVS	Status, Not in Valid State
SROF	Status, Requested Operation Failed
SRQN	Status, invalid ReQuest

EXAMPLES

In the following example, a one-way broadcast conference connection is established between port EC1VT1-1-7-4 (MASTER) and each of the ports EC1VT1-12-3-1, EC1VT1-12-3-3, and EC1VT1-15-1-2. The connection is assigned a circuit ID of TESTCKT.

```
ED-CONF-VT1::EC1VT1-1-7-4,EC1VT1-12-3-1&&-3&EC1VT1-15-1-2:::
  CKTID="TESTCKT" ;
```

In the following example, the one-way broadcast conference connections are redlined.

```
ED-CONF-VT1::EC1VT1-1-7-4,EC1VT1-12-3-1&&-3&EC1VT1-15-1-2:::RDL=Y;
```

RELATED COMMANDS

DLT-CONF-T1
DLT-CONF-VT1
DLT-CRS-T1
DLT-CRS-VT1
ED-CONF-T1
ENT-CONF-T1
ENT-CRS-T1
ENT-CRS-VT1
ENT-T1
ENT-VT1
RTRV-CKTID
RTRV-CONF-T1
RTRV-CONF-VT1
RTRV-CRS
RTRV-CRS-T1
RTRV-CRS-VT1
RTRV-POOL
RTRV-RDL-ALL
RTRV-T1
RTRV-VT1

COMMAND CODE: **ED-CRS-STs1**
COMMAND NAME: **EDIT CROSS-CONNECT STs1**

PURPOSE

The ED-CRS-STs1 command provides for editing an STs-1 level cross-connection that has been previously established via ENT-CRS-STs1. Permitted conversions are among 2WAY, 2WAYPR, and 2WAYDC connections.

When the ED-CRS-STs1 command is successfully completed with CCT of 2WAYPR or 2WAYDC, an STs-1 FFP will be created using the default values defined in ED-FFP-STs1 (e.g., the STs-1 within the working or protect ring will be selected, and the STs1 within the other (protect or working) ring will be standby).

When the ED-CRS-STs1 command is successfully completed with CCT of 2WAY, the STs1 FFP will be deleted and the STBYH/WRK secondary state on the FROM and TO STs1 ports within the ring OC3 or OC12 will be cleared.

If ampersand ranging (&&) is used for an AID specifying CKTID or CKTIDTF, the same CKTID or CKTIDTF value shall be applied to each connection within the AID range.

If ampersand ranging (&&) is used for an AID specifying an RDL value, the same RDL value shall be applied to each connection within the AID range.

ED-CRS-STs1 is denied if:

- The specified FROM and TO ports are not cross-connected, i.e., they do not have SST of ACT or BUSY.
- Either of the specified FROM or TO ports is in a loopback (an SST of LPBK) or a test access operation (an SST of TS).
- The specified FROM and TO values are identical (the same STs1 port).
- The ED-CRS-STs1 command is used to change a 1WAY connection to a 2WAY, 2WAYPR, or a 2WAYDC connection.
- The specified STs1 is in a 2WAY ring pass through connection.
- The requested cross-connect type is explicitly specified in the command (not system default), and it is the same as the existing value.
- An invalid parameter value or combination of parameter values is entered.
- The FROM and TO ports are not connected in a 2WAY, 2WAYPR, or 2WAYDC connection.
- When changing from a ring type connection (2WAYPR or 2WAYDC) to an unprotected 2WAY connection, the even side OCx is specified.
- The FROM or TO port is involved in a ring connection, and a ring protection switch is in progress.
- The mate STs1 of the specified FROM or TO STs1 port within the ring OC3/OC12 is not provisioned and CCT of 2WAYPR or 2WAYDC is specified.
- The mate VT1 of the specified FROM or TO STs1 port within the ring OC3/OC12 has a different STSMAP and CCT of 2WAYPR or 2WAYDC is specified.
- CCT=2WAYPR, the odd STs1 of the ring OCn is in a matrix loopback, and the odd+1 is not OOS-MA or OOS-AUMA.
- CCT is specified and the existing connection is a pass through connection.
- A CCT value is specified that is identical to the CCT value of the existing connection.

INPUT FORMAT

ED-CRS-STs1 : [TID] : **FROM, TO** : [CTAG] : : [CCT] : [**CKTID=**][**,CKTIDTF=**][**,RDL=**];

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >
Default:	<SID>
Addressing:	None
Description:	Target Identifier, specifies the network node TID for the command.

FROM	<p>STS1_AID:</p> <p>{EC1STS1-{1-3840}} (EC1STS1-EC1/STS1#)</p> <p>{OC3STS1-{1-2240}-{1-3}} (OC3STS1-OC3#-STS1#)</p> <p>{OC12STS1-{1-560}-{1-4}-{1-3}} (OC12STS1-OC12#-STM1#-STS1#)</p> <p>Default: Entry Required</p> <p>Addressing: &&-ranging and &-grouping</p> <p>Description: STS1 AID. Either the FROM or TO AID may be used to identify an STS1 within a ring OC3 or OC12.</p>						
TO	<p>STS1_AID:</p> <p>{EC1STS1-{1-3840}} (EC1STS1-EC1/STS1#)</p> <p>{OC3STS1-{1-2240}-{1-3}} (OC3STS1-OC3#-STS1#)</p> <p>{OC12STS1-{1-560}-{1-4}-{1-3}} (OC12STS1-OC12#-STM1#-STS1#)</p> <p>Default: Entry Required</p> <p>Addressing: &&-ranging and &-grouping</p> <p>Description: STS1 AID. Either the FROM or TO AID may be used to identify an STS1 within a ring OC3 or OC12.</p>						
CTAG	<p>< 1-6 VALID CTAG CHARACTERS ></p> <p>Default: < System assigned CTAG value ></p> <p>Addressing: None</p> <p>Description: Correlation Tag, associates input command with its output responses.</p>						
CCT	<p>{2WAY, 2WAYPR, 2WAYDC}</p> <p>Default: <Previously Existing Value></p> <p>Note: If no CCT value is specified, the system will default to the previously existing CCT value and the command will be executed without change to the cross-connect type. In the case of 2WAYPR and 2WAYDC, the command will be executed without change to Preferred/Alternate Ports regardless of which AIDs in the ring pair(s) are specified.</p> <p>Addressing: None</p> <p>Description: Cross-Connect Type. Values are:</p> <table> <tr> <td>2WAY</td><td>Two-Way drop (through matrix) connection</td></tr> <tr> <td>2WAYPR</td><td>Two-Way Path Protected Ring connection</td></tr> <tr> <td>2WAYDC</td><td>Two-Way Drop and Continue connection</td></tr> </table>	2WAY	Two-Way drop (through matrix) connection	2WAYPR	Two-Way Path Protected Ring connection	2WAYDC	Two-Way Drop and Continue connection
2WAY	Two-Way drop (through matrix) connection						
2WAYPR	Two-Way Path Protected Ring connection						
2WAYDC	Two-Way Drop and Continue connection						
CKTID=	<p>< 0-45 VALID CKTID CHARACTERS ></p> <p>Default: < Previously existing value ></p> <p>Addressing: None</p> <p>Description: FROM and TO Circuit ID. 0 to 45 ASCII characters within enclosing double quotes. Semicolon, asterisk, greater-than, less-than, double quote, and backslash characters are prohibited. Empty double quotes (ie "") indicate a NULL string.</p>						
CKTIDTF=	<p>< 0-45 VALID CKTIDTF CHARACTERS ></p> <p>Default: < Previously existing value ></p> <p>Addressing: None</p> <p>Description: To and FROM Circuit ID. 0 to 45 ASCII characters within enclosing double quotes. Semicolon, asterisk, greater-than, less-than, double quote, and backslash characters are prohibited. Empty double quotes (ie "") indicate a NULL string.</p> <p>Restrictions: ED-CRS-STs1 is denied if CKTIDTF and CCT=1WAY are specified.</p>						

RDL= {N, Y}
Default: < Previously existing value >
Addressing: None
Description: N = connection is not redlined, Y = connection is redlined.
Restrictions: ED-CRS-STs1 is denied if RDL=Y or RDL=N is specified together with any other parameter.
ED-CRS-STs1 is denied if RDL=Y is specified and the connection is already designated as a 2WAYDC continue path ring connection.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent /*Cannot use B2 side AID to edit to 2WAY*/
IDNV	Input, Data Not Valid
IIAC	Input, Invalid ACcess identifier
SARB	Status, All Resources Busy /*A switch is in progress for this protection group*/ /*Please try the command again later*/
SDBE	Status, internal Data Base Error /*CONN Database Error: <ERROR-STRING> for <AID>*/ /*RPP Database Error: <ERROR-STRING> for <AID>*/ /*TP Database Error: <ERROR-STRING> for <AID>*/
SNVS	Status, Not in Valid State /*B2 Cannot Be Working*/
SROF	Status, Requested Operation Failed
SRQN	Status, invalid ReQuest

EXAMPLES

In the following example, a two-way STS1 linear cross-connection between ports OC3STS1-7-1 (FROM), which is an STS1 embedded within an OC3 and OC3STS1-12-3 (TO) which is an STS1 embedded within a ring OC3, is converted to a two-way path ring cross-connection. In addition, the cross-connection is assigned a circuit ID of TESTCKTID4.

```
ED-CRS-STs1::OC3STS1-7-1,OC3STS1-12-3:::2WAYPR:CKTID="TESTCKTID4";
```

In the following example, the cross-connection is changed to redlined.

```
ED-CRS-STs1::OC3STS1-7-1,OC3STS1-12-3:::RDL=Y";
```

RELATED COMMANDS

```
DLT-CRS-STs1  
ED-FFP-STs1  
RTRV-CKTID  
RTRV-CRS  
RTRV-CRS-ALL  
RTRV-CRS-STs1  
RTRV-RDL-ALL  
RTRV-STs1
```

COMMAND CODE: **ED-CRS-STS3C**
COMMAND NAME: **EDIT CROSS-CONNECTION STS-3C**

PURPOSE

This command enables editing of circuit IDs and redline states for STS-3C level cross-connections previously established via ENT-CRS-STS3C.

If ampersand ranging (&&) is used for an AID specifying CKTID or CKTIDTF, the same CKTID or CKTIDTF value shall be applied to each connection within the AID range.

If ampersand ranging (&&) is used for an AID specifying an RDL value, the same RDL value shall be applied to each connection within the AID range.

ED-CRS-STS1 is denied if:

- The ports specified by FROM and TO AIDs are not cross connected, i.e. they are not already in ACT or BUSY secondary state from having been provisioned (using ENT-STS3C).
- The specified state for the cross-connection already exists.
- An invalid parameter value or combination of parameter values is entered.
- Any of the AIDs specified are involved in a loopback or test access.

INPUT FORMAT

ED-CRS-STS3C : : [TID] :FROM, TO: [CTAG] : : : [CKTID=] [, CKTIDTF=] [, RDL=] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
FROM	STS3C_AID: {OC3STS3C-{1-2240}} (OC3STS3C-OC3#/STS3C#) {OC12STS3C-{1-560}-{1-4}} (OC12STS3C-OC12#-STM1/STS3C#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: STS3C AID. In a one-way cross-connect, FROM identifies the receive side (from the network) of the cross-connection specified by the FROM,TO AID pair. In a two-way cross-connect, either AID of the cross-connection may be used as the FROM AID. Restrictions: Entries are limited to those previously selected using ENT-STS3C.
TO	STS3C_AID: {OC3STS3C-{1-2240}} (OC3STS3C-OC3#/STS3C#) {OC12STS3C-{1-560}-{1-4}} (OC12STS3C-OC12#-STM1/STS3C#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: STS3C AID. In a one-way cross-connect, TO identifies the transmit side (to the network) of the cross-connection specified by the FROM,TO AID pair. In a two-way cross-connect, either AID of the cross-connection may be used as the TO AID. Restrictions: Entries are limited to those previously selected using ENT-STS3C.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

CKTID=	< 0–45 VALID CKTID CHARACTERS >	
	Default:	< Previously existing value >
	Addressing:	None
	Description:	FROM and TO Circuit ID. 0 to 45 ASCII characters within enclosing double quotes. Semicolon, asterisk, greater-than, less-than, double quote, and backslash characters are prohibited. Empty double quotes (ie "") indicate a NULL string.
CKTIDTF=	< 0–45 VALID CKTIDTF CHARACTERS >	
	Default:	< Previously existing value >
	Addressing:	None
	Description:	To and FROM Circuit ID. 0 to 45 ASCII characters within enclosing double quotes. Semicolon, asterisk, greater-than, less-than, double quote, and backslash characters are prohibited. Empty double quotes (ie "") indicate a NULL string.
RDL=	{N, Y}	
	Default:	< Previously existing value >
	Addressing:	None
	Description:	N = connection is not redlined, Y = connection is redlined.
	Restrictions:	ED–CRS–STS3C is denied if CKTIDTF and CCT=1WAY are specified.
	Restrictions:	ED–CRS–STS3C is denied if RDL=Y or RDL=N is specified together with any other parameter.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent
IDNV	Input, Data Not Valid
IIAC	Input, Invalid ACcess identifier
SAIS	Status, Already In Service
SARB	Status, All Resources Busy
SDBE	Status, internal Data Base Error
SDNC	Status, Data Not Consistent
SNVS	Status, Not in Valid State
SROF	Status, Requested Operation Failed
SRQN	Status, invalid ReQuest

EXAMPLES

In the following example, a circuit ID of TESTCKT is assigned to a one-way STS-3C cross-connection previously established between ports OC3STS3C-3, an STS-3C embedded within an OC-3 (FROM) and OC3STS3C-7, an STS-3C embedded within an OC-3 (TO).

```
ED-CRS-ST3C:::OC3STS3C-3,OC3STS3C-7:::CKTID="TESTCKT";
```

In the following example, the cross-connection is redlined

```
ED-CRS-ST3C:::OC3STS3C-3,OC3STS3C-7:::RDL=Y;
```

RELATED COMMANDS

```
DLT-CRS-ST3C  
ED-FFP-ST3C  
ENT-CRS-ST3C  
RTRV-CKTID  
RTRV-CRS  
RTRV-CRS-ALL  
RTRV-RDL-ALL  
RTRV-CRS-ST3C  
RTRV-ST3C
```


COMMAND CODE: **ED-CRS-T1**
COMMAND NAME: **EDIT CROSS-CONNECT T1**

PURPOSE

The ED-CRS-T1 command provides for editing a T1 level cross-connection that has been previously established via ENT-CRS-T1. Permitted conversions are among 2WAY, 2WAYPR, and 2WAYDC connections.

When the ED-CRS-T1 command is successfully completed with CCT of 2WAYPR or 2WAYDC, a VT1.5 FFP will be created using the default values defined in ED-FFP-VT1 (e.g., the VT1.5 within the working or protect ring will be selected, and the VT1.5 within the other (protect or working) ring will be standby).

When the ED-CRS-T1 command is successfully completed with CCT of 2WAY, the VT1.5 FFP will be deleted and the STBYH/WRK secondary state on the FROM and TO VT1.5 ports within the ring OC-3 or OC12 will be cleared.

If ampersand ranging (&) is used for an AID specifying CKTID or CKTIDTF, the same CKTID or CKTIDTF value shall be applied to each connection within the AID range.

If ampersand ranging (&) is used for an AID specifying an RDL value, the same RDL value shall be applied to each connection within the AID range.

ED-CRS-T1 is denied if:

- The specified FROM and TO ports are not cross-connected, i.e., they do not have SST of ACT or BUSY.
- Either of the specified FROM or TO port is in a loopback (a SST of LPBK), is in a test access operation (a SST of TS), or is in a rolling operation (an SST of ROLL).
- The specified FROM and TO values are identical.
- An invalid parameter value or combination of parameter values is entered.
- The ED-CRS-T1 command is used to change a 1WAY connection to a 2WAY, 2WAYPR, or a 2WAYDC connection.
- The requested cross-connect type is explicitly specified in the command (not system default), and it is the same as the existing value.
- The FROM and TO ports are not connected in a 2WAY, 2WAYPR, or 2WAYDC connection.
- When changing from a ring type connection (2WAYPR or 2WAYDC) to an unprotected 2WAY connection, the even side OCx is specified.
- The FROM or TO port is involved in a ring connection, and a ring protection switch is in progress.
- The mate STS1 of the specified FROM or TO STS1 port within the ring OC3/OC12 is not provisioned and CCT of 2WAYPR or 2WAYDC is specified.
- The mate VT1 of the specified FROM or TO VT1 port within the ring OC3/OC12 has a different VTMAP, and CCT of 2WAYPR or 2WAYDC is specified.
- CCT=2WAYPR, the odd VT1 of the ring OCn is in a matrix loopback, and the odd+1 is not OOS-MA or OOS-AUMA.
- CCT is specified and the existing connection is a pass through connection.
- A CCT value is specified that is identical to the CCT value of the existing connection.

INPUT FORMAT

ED-CRS-T1 : [TID] : FROM, TO : [CTAG] : : [CCT] : [CKTID=] [, CKTIDTF=] [, RDL=] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >
Default:	<SID>
Addressing:	None
Description:	Target Identifier, specifies the network node TID for the command.

FROM	<p>DS1_AID:</p> <p>{T1-{1-59392}} (T1-DS1#)</p> <p>{T3T1-{1-4800}-{1-28}} (T3T1-DS3#-DS1#)</p> <p>{EC1T1-{1-3840}-{1-28}} (EC1T1-EC1/STS1/DS3#-DS1#)</p> <p>{OC3T1-{1-2240}-{1-3}-{1-28}} (OC3T1-OC3#-STS1/DS3#-DS1#)</p> <p>{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}} (OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)</p> <p>VT1_AID:</p> <p>{EC1VT1-{1-3840}-{1-7}-{1-4}} (EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)</p> <p>{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}} (OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)</p> <p>{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}} (OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)</p> <p>Default: Entry Required</p> <p>Addressing: &&-ranging and &-grouping</p> <p>Description: DS1 or VT1 AID. Either the FROM or TO AIDs may be used to identify a VT1.5 within a ring OC-3 or OC-12.</p>						
TO	<p>DS1_AID:</p> <p>{T1-{1-59392}} (T1-DS1#)</p> <p>{T3T1-{1-4800}-{1-28}} (T3T1-DS3#-DS1#)</p> <p>{EC1T1-{1-3840}-{1-28}} (EC1T1-EC1/STS1/DS3#-DS1#)</p> <p>{OC3T1-{1-2240}-{1-3}-{1-28}} (OC3T1-OC3#-STS1/DS3#-DS1#)</p> <p>{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}} (OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)</p> <p>VT1_AID:</p> <p>{EC1VT1-{1-3840}-{1-7}-{1-4}} (EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)</p> <p>{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}} (OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)</p> <p>{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}} (OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)</p> <p>Default: Entry Required</p> <p>Addressing: &&-ranging and &-grouping</p> <p>Description: DS1 or VT1 AID. Either the FROM or TO AIDs may be used to identify a VT1.5 within a ring OC-3 or OC-12.</p>						
CTAG	<p>< 1-6 VALID CTAG CHARACTERS ></p> <p>Default: < System assigned CTAG value ></p> <p>Addressing: None</p> <p>Description: Correlation Tag, associates input command with its output responses.</p>						
CCT	<p>{2WAY, 2WAYPR, 2WAYDC}</p> <p>Default: {Previously Existing Value}</p> <p>Note: If no CCT value is specified, the system will default to the previously existing CCT value and the command will be executed without change to the cross-connect type. In the case of 2WAYPR and 2WAYDC, the command will be executed without change to Preferred/Alternate Ports regardless of which AIDs in the ring pair(s) are specified.</p> <p>Addressing: None</p> <p>Description: Cross-Connect Type. Values are:</p> <table> <tr> <td>2WAY</td><td>Two-Way drop (through matrix) connection</td></tr> <tr> <td>2WAYPR</td><td>Two-Way Path Protected Ring connection</td></tr> <tr> <td>2WAYDC</td><td>Two-Way Drop and Continue connection</td></tr> </table>	2WAY	Two-Way drop (through matrix) connection	2WAYPR	Two-Way Path Protected Ring connection	2WAYDC	Two-Way Drop and Continue connection
2WAY	Two-Way drop (through matrix) connection						
2WAYPR	Two-Way Path Protected Ring connection						
2WAYDC	Two-Way Drop and Continue connection						
CKTID=	<p>< 0-45 VALID CKTID CHARACTERS ></p> <p>Default: < Previously existing value ></p> <p>Addressing: None</p> <p>Description: FROM and TO Circuit ID. 0 to 45 ASCII characters within enclosing double quotes. Semicolon, asterisk, greater-than, less-than, double quote, and backslash characters are prohibited. Empty double quotes (ie "") indicate a NULL string.</p>						

CKTIDTF=	< 0–45 VALID CKTIDTF CHARACTERS >
Default:	< Previously existing value >
Addressing:	None
Description:	To and FROM Circuit ID. 0 to 45 ASCII characters within enclosing double quotes. Semicolon, asterisk, greater-than, less-than, double quote, and backslash characters are prohibited. Empty double quotes (ie "") indicate a NULL string.
Restrictions:	ED-CRS-T1 is denied if CKTIDTF and CCT=1WAY are specified.
RDL=	{N, Y}
Default:	< Previously existing value >
Addressing:	None
Description:	N = connection is not redlined, Y = connection is redlined.
Restrictions:	ED-CRS-T1 is denied if RDL=Y or RDL=N is specified together with any other parameter.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent /*Cannot use B2 side AID to edit to 2WAY*/
IDNV	Input, Data Not Valid
IIAC	Input, Invalid ACcess identifier
SARB	Status, All Resources Busy /*A switch is in progress for this protection group*/ /*Please try the command again later*/
SDBE	Status, internal Data Base Error /*CONN Database Error: <ERROR-STRING> for <AID>*/ /*RPP Database Error: <ERROR-STRING> for <AID>*/ /*TP Database Error: <ERROR-STRING> for <AID>*/
SNVS	Status, Not in Valid State /*B2 Cannot Be Working*/
SROF	Status, Requested Operation Failed
SRQN	Status, invalid ReQuest

EXAMPLES

In the following example, a two-way DS1 to VT1.5 linear cross-connection between ports OC3T1-15-3-1 (FROM) which is embedded within a linear OC3, and OC3VT1-27-3-1-1 (TO) which is a VT1.5 embedded within a ring OC-3, is converted to a two-way path ring cross-connection. In addition, this cross-connection is assigned a circuit ID of TESTCKT3.

```
ED-CRS-T1::OC3T1-15-3-1,OC3VT1-27-3-1-1:::2WAYPR:CKTID="TESTCKT3";
```

In the following example the cross-connection is redlined.

```
ED-CRS-T1::OC3T1-15-3-1,OC3VT1-27-3-1-1:::RDL=Y;
```

RELATED COMMANDS

```
DLT-CRS-T1  
DLT-CRS-VT1  
ED-FFP-VT1  
ENT-CRS-T1  
ENT-CRS-VT1  
RTRV-CKTID  
RTRV-CRS  
RTRV-CRS-ALL  
RTRV-CRS-T1  
RTRV-CRS-VT1  
RTRV-RDL-ALL  
RTRV-T1
```

COMMAND CODE: **ED-CRS-T3**
COMMAND NAME: **EDIT CROSS-CONNECT T3**

PURPOSE

The ED-CRS-T3 command provides for editing an T3 level cross-connection that has been previously established via ENT-CRS-T3. Permitted conversions are among 2WAY, 2WAYPR, and 2WAYDC connections.

When the ED-CRS-T3 command is successfully completed with CCT of 2WAYPR or 2WAYDC, an STS-1 FFP will be created using the default values defined in ED-FFP-ST51 (e.g., the STS-1 within the working or protect ring will be selected, and the STS-1 within the other (protect or working) ring will be standby).

When the ED-CRS-T3 command is successfully completed with CCT of 2WAY, the STS-1 FFP will be deleted and the STBYH/WRK secondary state on the FROM and TO STS-1 ports within the ring OC3 or OC12 will be cleared.

If ampersand ranging (&) is used for an AID specifying CKTID or CKTIDTF, the same CKTID or CKTIDTF value shall be applied to each connection within the AID range.

If ampersand ranging (&) is used for an AID specifying an RDL value, the same RDL value shall be applied to each connection within the AID range.

ED-CRS-T3 is denied if:

- The specified FROM and TO ports are not cross-connected, i.e., they do not have SST of ACT or BUSY.
- Either of the specified FROM or TO port is in a loopback (an SST of LPBK) or is in a test access operation (an SST of TS).
- The specified FROM and TO values are identical.
- An invalid parameter value or combination of parameter values is entered.
- The ED-CRS-T3 command is used to change a 1WAY connection to a 2WAY, 2WAYPR, or a 2WAYDC connection.
- The requested cross-connect type is explicitly specified in the command (not system default), and it is the same as the existing value.
- The FROM and TO ports are not connected in a 2WAY, 2WAYPR, or 2WAYDC connection.
- When changing from a ring type connection (2WAYPR or 2WAYDC) to an unprotected 2WAY connection, the even side OCx is specified.
- The FROM or TO port is involved in a ring connection, and a ring protection switch is in progress.
- The mate STS1 of the specified FROM or TO STS1 port within the ring OC3/OC12 is not provisioned and CCT of 2WAYPR or 2WAYDC is specified.
- The mate STS1 of the specified FROM or TO STS1 port within the ring OC3/OC12 has a different STSMAP and CCT of 2WAYPR or 2WAYDC is specified.
- CCT=2WAYPR, the odd STS1 of the ring OCn is in a matrix loopback, and the odd+1 is not OOS-MA or OOS-AUMA.
- CCT is specified and the existing connection is a pass through connection.
- A CCT value is specified that is identical to the CCT value of the existing connection.

INPUT FORMAT

ED-CRS-T3 : [TID] : **FROM, TO** : [CTAG] : : [CCT] : [CKTID=] [, CKTIDTF=] [, RDL=] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >
Default:	<SID>
Addressing:	None
Description:	Target Identifier, specifies the network node TID for the command.

FROM	DS3_AID: {T3-{1-4800}}	(T3-DS3#)
	STS1_AID: {EC1STS1-{1-3840}}	(EC1STS1-EC1/STS1#)
	{OC3STS1-{1-2240}-{1-3}}	(OC3STS1-OC3#-STS1#)
	{OC12STS1-{1-560}-{1-4}-{1-3}}	(OC12STS1-OC12#-STM1#-STS1#)
	Default:	Entry Required
	Addressing:	&&-ranging and &-grouping
	Description:	DS3 or STS1 AID. Either the FROM or TO AIDs may be used to identify an STS-1 within a ring OC-3 or OC-12.
TO	DS3_AID: {T3-{1-4800}}	(T3-DS3#)
	STS1_AID: {EC1STS1-{1-3840}}	(EC1STS1-EC1/STS1#)
	{OC3STS1-{1-2240}-{1-3}}	(OC3STS1-OC3#-STS1#)
	{OC12STS1-{1-560}-{1-4}-{1-3}}	(OC12STS1-OC12#-STM1#-STS1#)
	Default:	Entry Required
	Addressing:	&&-ranging and &-grouping
	Description:	DS3 or STS1 AID. Either the FROM or TO AIDs may be used to identify an STS-1 within a ring OC-3 or OC-12.
CTAG	< 1-6 VALID CTAG CHARACTERS >	
	Default:	< System assigned CTAG value >
	Addressing:	None
	Description:	Correlation Tag, associates input command with its output responses.
CCT	{2WAY, 2WAYPR, 2WAYDC}	
	Default:	{Previously Existing Value}
		Note: If no CCT value is specified, the system will default to the previously existing CCT value and the command will be executed without change to the cross-connect type. In the case of 2WAYPR and 2WAYDC, the command will be executed without change to Preferred/Alternate Ports regardless of which AIDs in the ring pair(s) are specified.
	Addressing:	None
	Description:	Cross-Connect Type. Values are:
	2WAY	Two-Way drop (through matrix) connection
	2WAYPR	Two-Way Path Protected Ring connection
	2WAYDC	Two-Way Drop and Continue connection
CKTID=	< 0-45 VALID CKTID CHARACTERS >	
	Default:	< Previously existing value >
	Addressing:	None
	Description:	FROM and TO Circuit ID. 0 to 45 ASCII characters within enclosing double quotes. Semicolon, asterisk, greater-than, less-than, double quote, and backslash characters are prohibited. Empty double quotes (ie "") indicate a NULL string.
CKTIDTF=	< 0-45 VALID CKTIDTF CHARACTERS >	
	Default:	< Previously existing value >
	Addressing:	None
	Description:	To and FROM Circuit ID. 0 to 45 ASCII characters within enclosing double quotes. Semicolon, asterisk, greater-than, less-than, double quote, and backslash characters are prohibited. Empty double quotes (ie "") indicate a NULL string.
	Restrictions:	ED-CRS-T3 is denied if CKTIDTF and CCT=1WAY are specified.

RDL= {N, Y}
Default: < Previously existing value >
Addressing: None
Description: N = connection is not redlined, Y = connection is redlined.
Restrictions: ED-CRS-T3 is denied if RDL=Y or RDL=N is specified together with any other parameter.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent /*Cannot use B2 side AID to edit to 2WAY*/
IDNV	Input, Data Not Valid
IIAC	Input, Invalid ACcess identifier
SARB	Status, All Resources Busy /*A switch is in progress for this protection group*/ /*Please try the command again later*/
SDBE	Status, internal Data Base Error /*CONN Database Error: <ERROR-STRING> for <AID>*/ /*RPP Database Error: <ERROR-STRING> for <AID>*/ /*TP Database Error: <ERROR-STRING> for <AID>*/
SNVS	Status, Not in Valid State /*B2 Cannot Be Working*/
SROF	Status, Requested Operation Failed
SRQN	Status, invalid ReQuest

EXAMPLES

In the following example, a two-way DS3 to STS-1 linear cross-connection between ports T3-15 (FROM) and OC3STS1-3-1 (TO) which is an STS-1 embedded within a ring OC-3, is converted to a two-way path ring cross-connection.

```
ED-CRS-T3::T3-15,OC3STS1-3-1:::2WAYPR;
```

In the following example, the connection listed in the previous example is redlined.

```
ED-CRS-T3::T3-15,OC3STS1-3-1:::RDL=Y;
```

RELATED COMMANDS

```
DLT-CRS-T3  
ED-FFP-STs1  
ENT-CRS-T3  
RTRV-CKTID  
RTRV-CRS  
RTRV-CRS-ALL  
RTRV-CRS-T3  
RTRV-RDL-ALL  
RTRV-T3
```


COMMAND CODE: **ED-CRS-VT1**
COMMAND NAME: **EDIT CROSS-CONNECT VT1**

PURPOSE

The ED-CRS-VT1 command provides for editing a VT1 level cross-connection that has been previously established via ENT-CRS-VT1. Permitted conversions are among 2WAY, 2WAYPR, and 2WAYDC connections.

When the ED-CRS-VT1 command is successfully completed with CCT of 2WAYPR or 2WAYDC, a VT1.5 FFP will be created using the default values defined in ED-FFP-VT1 (e.g., the VT1.5 within the working or protect ring will be selected, and the VT1.5 within the other (protect or working) ring will be standby).

When the ED-CRS-VT1 command is successfully completed with CCT of 2WAY, the VT1.5 FFP will be deleted and the STBYH/WRK secondary state on the FROM and TO VT1.5 ports within the ring OC-3 or OC-12 will be cleared.

If ampersand ranging (&) is used for an AID specifying CKTID or CKTIDTF, the same CKTID or CKTIDTF value shall be applied to each connection within the AID range.

If ampersand ranging (&) is used for an AID specifying an RDL value, the same RDL value shall be applied to each connection within the AID range.

ED-CRS-VT1 is denied if:

- The specified FROM and TO ports are not cross-connected, i.e., they do not have SST of ACT or BUSY.
- Either of the specified FROM or TO ports is in a loopback (an SST of LPBK), is in a test access operation (an SST of TS), or is in a rolling operation (an SST of ROLL).
- The specified FROM and TO values are identical (the same VT1.5 port).
- The ED-CRS-VT1 command is used to change a 1WAY connection to a 2WAY, 2WAYPR or 2WAYDC connection.
- The specified VT1.5 is in a 2WAY ring pass-through connection.
- The requested cross-connect type is explicitly specified in the command (not system default), and it is the same as the existing value.
- The FROM and TO ports are not connected in a 2WAY, 2WAYPR, or 2WAYDC connection.
- When changing from a ring type connection (2WAYPR or 2WAYDC) to an unprotected 2WAY connection, the even side OCx is specified, or the odd side OCx is specified while in protection.
- The FROM or TO port is involved in a ring connection, and a ring protection switch is in progress.
- The mate STS1 of the specified FROM or TO STS1 port within the ring OC3/OC12 is not provisioned and CCT of 2WAYPR or 2WAYDC is specified.
- The mate VT1 of the specified FROM or TO VT1 port within the ring OC3/OC12 has a different VTMAP and CCT of 2WAYPR or 2WAYDC is specified.
- CCT=2WAYPR, the odd VT1 of the ring OCn is in a matrix loopback, and the odd+1 is not OOS-MA or OOS-AUMA.
- An invalid parameter value or combination of parameter values is entered.
- CCT is specified and the existing connection is a pass through connection.
- A CCT value is specified that is identical to the CCT value of the existing connection.

INPUT FORMAT

ED-CRS-VT1 : [TID] : **FROM, TO** : [CTAG] : : [CCT] : [CKTID=] [, CKTIDTF=] [, RDL=] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >
Default:	<SID>
Addressing:	None
Description:	Target Identifier, specifies the network node TID for the command.

FROM	<p>VT1_AID; {EC1VT1-{1-3840}-{1-7}-{1-4}} (EC1VT1-EC1/STS1#-VTGrp#-VT1.5#) {OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}} (OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#) {OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}} (OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)</p> <p>Default: Entry Required Addressing: &&-ranging and &-grouping Description: VT1 AID. Either the FROM or TO AIDs may be used to identify a VT1.5 within a ring OC-3 or OC-12.</p>
TO	<p>VT1_AID; {EC1VT1-{1-3840}-{1-7}-{1-4}} (EC1VT1-EC1/STS1#-VTGrp#-VT1.5#) {OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}} (OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#) {OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}} (OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)</p> <p>Default: Entry Required Addressing: &&-ranging and &-grouping Description: VT1 AID. Either the FROM or TO AIDs may be used to identify a VT1.5 within a ring OC-3 or OC-12.</p>
CTAG	<p>< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.</p>
CCT	<p>{2WAY, 2WAYPR, 2WAYDC} Default: {Previously Existing Value} Note: If no CCT value is specified, the system will default to the previously existing CCT value and the command will be executed without change to the cross-connect type. In the case of 2WAYPR and 2WAYDC, the command will be executed without change to Preferred/Alternate Ports regardless of which AIDs in the ring pair(s) are specified. Addressing: None Description: Cross-Connect Type. Values are: 2WAY Two-Way drop (through matrix) connection 2WAYPR Two-Way Path Protected Ring connection 2WAYDC Two-Way Drop and Continue connection</p>
CKTID=	<p>< 0-45 VALID CKTID CHARACTERS > Default: < Previously existing value > Addressing: None Description: FROM and TO Circuit ID. 0 to 45 ASCII characters within enclosing double quotes. Semicolon, asterisk, greater-than, less-than, double quote, and backslash characters are prohibited. Empty double quotes (ie "") indicate a NULL string.</p>
CKTIDTF=	<p>< 0-45 VALID CKTIDTF CHARACTERS > Default: < Previously existing value > Addressing: None Description: To and FROM Circuit ID. 0 to 45 ASCII characters within enclosing double quotes. Semicolon, asterisk, greater-than, less-than, double quote, and backslash characters are prohibited. Empty double quotes (ie "") indicate a NULL string. Restrictions: ED-CRS-VT1 is denied if CKTIDTF and CCT=1WAY are specified.</p>

RDL= {N, Y}
Default: < Previously existing value >
Addressing: None
Description: N = connection is not redlined, Y = connection is redlined.
Restrictions: ED-CRS-VT1 is denied if RDL=Y or RDL=N is specified together with any other parameter.
ED-CRS-VT1 is denied if RDL=Y is specified and the connection is already designated as a 2WAYDC continue path ring connection.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID [-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID [-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent /*Cannot use B2 side AID to edit to 2WAY*/
IDNV	Input, Data Not Valid
IIAC	Input, Invalid ACcess identifier
SARB	Status, All Resources Busy /*A switch is in progress for this protection group*/ /*Please try the command again later*/
SDBE	Status, internal Data Base Error /*CONN Database Error: <ERROR-STRING> for <AID>*/ /*RPP Database Error: <ERROR-STRING> for <AID>*/ /*TP Database Error: <ERROR-STRING> for <AID>*/
SNVS	Status, Not in Valid State /*B2 Cannot Be Working*/
SROF	Status, Requested Operation Failed
SRQN	Status, invalid ReQuest

EXAMPLES

In the following example, a two-way VT1.5 to VT1.5 linear cross-connection between ports OC3VT1-15-3-7-1 (FROM) which is embedded within a linear OC-3, and OC3VT1-27-3-1-1 (TO) which is a VT1.5 embedded within a ring OC-3, is converted to a two-way path ring cross-connection. This cross-connection is assigned a circuit ID of TESTCKT6.

```
ED-CRS-T1::OC3VT1-15-3-7-1,OC3VT1-27-3-1-1:::2WAYPR:CKTID="TESTCKT6";
```

In the following example the cross-connection is redlined.

```
ED-CRS-T1::OC3VT1-15-3-7-1,OC3VT1-27-3-1-1:::RDL=Y;
```

RELATED COMMANDS

DLT-CRS-T1

DLT-CRS-VT1

ED-FFP-VT1

ED-VT1

ENT-CRS-T1

ENT-CRS-VT1

RTRV-CRS

RTRV-CKTID

RTRV-CRS-ALL

RTRV-CRS-T1

RTRV-CRS-VT1

RTRV-RDL-ALL

RTRV-T1

COMMAND CODE: **ED-DAT**
COMMAND NAME: **EDIT DATE**

PURPOSE

The ED-DAT command sets the system date and time.

An ED-DAT command is denied if:

- An invalid parameter value entered.

Before changing the date and time of the system consider the following:

- Check all pending delayed activation commands to ensure that no conflicts, or dropped/duplicate actions result from the time change.
- Moving the system time forward by one hour within 15 minutes before a daily scheduled PM (performance monitoring) report is scheduled to occur results in cancelling that day's daily PM report.
- Changing the system time forward or backward could result in partial or incomplete 15-Minute and 1-Day PM data.

INPUT FORMAT

ED-DAT: [TID] : : [CTAG] : : DAT, TM;

INPUT PARAMETERS

TID	< 1–20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1–6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
DAT	{ YY-MM-DD:{00–37, 70–99} – {1–12} – {1–31} } Default: Entry Required Addressing: None Description: Date, specifies the new system date. A specific date is specified by the value format <YY> – <MM> – <DD> where <YY> is the year, <MM> is the month, <DD> is the day, and values for <YY> from 70 through 99 are interpreted as the years 1970 through 1999 and values for <YY> from 00 through 37 are interpreted as the years 2000 through 2037.
TM	{HH-MM-SS:{0–23} – {0–59} – {0–59} } Default: Entry Required Addressing: None Description: Time, specifies the new system time. A specific time is specified by the value format <HH> – <MM> – <SS> where <HH> is the hour, <MM> is the minute, and <SS> is the second.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Optional Suggested Action Text> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid
IPNV	Input, Parameter Not Valid
	/* Illegal Input: YEAR */
	/* Illegal Input: DAY */
	/* Illegal Input: Privilege: UNAUTHORIZED TO REQUEST THIS COMMAND */

EXAMPLES

In the following example, the system time and date is set to 12:23:34 and August 31, 1994, respectively.

```
ED-DAT:::::94-8-31,12-23-34;
```

RELATED COMMANDS

```
RTRV-HDR
RTRV-SID
SET-SID
```

COMMAND CODE: **ED-EC1**
COMMAND NAME: **EDIT EC1**

PURPOSE

The ED-EC1 command modifies the specified EC1 port parameter values previously provisioned using ENT-EC1.

Executing an ED-EC1 command causes the following primary state transitions for the specified EC1. Secondary states associated with the EC1 after the command is executed depend upon events detected by the system. Refer to Appendix G, State Transitions for additional information on state values and state transitions.

Entered PST,SST Value	Next PST State if Current PST State is:				
	IS	OOS-AU	OOS-AU,AINS	OOS-AUMA	OOS-MA
IS,<NoVal>	Denied	Denied	Denied	OOS-AU	IS
OOS,<NoVal>	OOS-MA	OOS-AUMA	Denied	Denied	Denied
IS,AINS	OOS-AU,AINS	OOS-AU,AINS	Denied	OOS-AU,AINS	OOS-AU,AINS
IS,AINS-DEA	Denied	Denied	OOS-AU	Denied	Denied
OOS,AINS-DEA	Denied	Denied	OOS-AUMA	Denied	Denied

Note: 1. <NoVal> means no value is entered for the SST parameter.
2. No state change occurs if no value is entered for PST and SST.
3. ED-EC1 is denied if SST of AINS-DEA is entered and the current DS3 state is not OOS-AU,AINS (an SST state of AINS).

When an EC1 is edited to an OOS-MA or OOS-AUMA state, a MAN condition type is set for the specified EC1. The MAN condition type is cleared when the EC1 is provisioned to an OOS-AU or IS state.

When an EC1 is in an OOS-MA, OOS-AUMA, or OOS-AU,AINS state, no EC1 transmission condition types or performance monitoring threshold crossing alerts are autonomously reported for the EC1, but EC1 alarm conditions are monitored (retrievable with the RTRV-EC1 command) and performance monitoring data is collected (if provisioned for PM collection by the SET-PMODE-EC1 command) for the EC1. An EC1 in an OOS-AU,AINS state transitions to an IS state when all EC1 near-end alarm conditions for that EC1 have cleared.

An ED-EC1 command is denied if:

- The specified EC1 has not previously been provisioned with the ENT-EC1 command.
- The specified EC1 is being edited from an IS or OOS-AU state to an IS state.
- The specified EC1 is being edited from an OOS-MA or OOS-AUMA state to an OOS,<Null> state.
- The specified EC1 is being edited from an OOS-MA or OOS-AUMA state to an IS or OOS-AU,AINS state and the specified EC1 is in a loopback (the EC1 has an SST of LPBK).
- The specified EC1 is being edited in an IS or OOS-AU state and any of the embedded VT1.5s or STS1s are cross-connected (the EC1 has an SST of TRM), unless CMDMDE=FRCD is used.
- An invalid parameter value or combination of parameter values is entered.

I/O protection switching is disabled if all three EC1 ports supported by the EP3 I/O circuit pack are provisioned to an OOS-MA or OOS-AUMA state. I/O protection switching only occurs if at least one of the supporting EC1s on the supporting EP3 I/O circuit pack is provisioned to an IS or an OOS-AU state.

INPUT FORMAT

ED-EC1 : [TID] : AID : [CTAG] : : : [AINSTH=] [, CMDMDE=] : [PST] [, SST] ;

INPUT PARAMETERS

TID < 1-20 VALID TID CHARACTERS >
Default: <SID>
Addressing: None
Description: Target Identifier, specifies the network node TID for the command.

AID	EC1_AID:	
	{EC1-{1-3840} }	(EC1-EC1/STS1#)
	Default:	Entry Required
	Addressing:	&&-ranging and &-grouping
	Description:	EC1 AID, identifies the EC1 port or range of ports.
CTAG	< 1-6 VALID CTAG CHARACTERS >	
	Default:	< System assigned CTAG value >
	Addressing:	None
	Description:	Correlation Tag, associates input command with its output responses.
AINSTH=	{HH-MM:{00-48} - {00-59} }	
	Default:	Previously existing value.
	Addressing:	None
	Description:	Automatic In-Service Threshold, specifies how long a customer signal must be present on the facility without a LOS, LOF, or AIS-L alarm condition before the system puts the facility into the In-Service state. The factory default is 8 hours. The valid value is:
	HH-MM	Time, specifies the duration of an alarm-free signal where value HH indicates the time duration in hours and value MM indicates the time duration in minutes. The valid range of values is 00-48 and 00-59 (in increments of 1 minute), respectively.
	Restrictions:	If 48 is specified in the HH, then MM has to be 00.
CMDMDE=	{FRCD, NORM}	
	Default:	{Previously Existing Value}
	Addressing:	None
	Description:	Command Execution Mode. Values are:
	FRCD	Forced. The command is accepted and parameter values are modified even if a constituent VT1.5/STS1/DS1 is cross-connected (the EC1 has an SST of TRM).
	NORM	Normal. The command is denied if the EC1 is in an IS or OOS-AU state and any constituent VT1.5/STS1/DS1 are cross-connected (the EC1 has an SST of TRM).
PST	{IS, OOS}	
	Default:	<PST VALUE DETERMINED BY THE CURRENT EC1 STATE> (A PST value of IS if the current state is IS or OOS-AU) (A PST value of OOS if the current state is OOS-AUMA or OOS-MA)
	Addressing:	None
	Description:	Primary State, specifies the primary state to provision the EC1. Values are:
	IS	In-Service, the EC1 is provisioned to an IS or OOS-AU state.
	OOS	Out-Of-Service, the EC1 is provisioned to an OOS-AUMA or OOS-MA state.
	Restrictions:	ED-EC1 is denied if PST of OOS and SST of AINS is entered.

SST	{AINS, AINS-DEA}
Default:	<Null> (Unpopulated)
Addressing:	None
Description:	Secondary State, specifies the secondary state to provision the EC1. Values are:
AINS	Automatic In-Service, if PST,SST of IS,AINS is entered the EC1 is provisioned to an OOS-AU,AINS state.
AINS-DEA	Automatic In-Service-Deactivate, the EC1 is not provisioned to an OOS-AU,AINS state. The EC1's SST value is entered as <Null> (unpopulated) and the SST state is determined by its provisioned PST value and system detected events.
Restrictions:	ED-EC1 is denied if SST of AINS and PST of OOS is entered. ED-EC1 is denied if SST of AINS-DEA is entered and the current EC1 state is not OOS-AU,AINS (an SST state of AINS).

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  /* <Free Form Informational Text> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent
IDNV	Input, Data Not Valid
IIAC	Input, Invalid ACcess identifier
SAIS	Status, Already In Service
SAOS	Status, Already Out of Service
SDBE	Status, internal Data Base Error
	/* TP Database Error: <ERROR-STRING> for <AID-STRING> */
	/* Error updating supported STS1 */
SNVS	Status, Not in Valid State
	/* To edit a non-idle in-service port, set CMDMDE=FRCD */
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, EC1 port EC1-24 provisioning is changed to the OOS-AU,AINS state. All other parameter values are unchanged.

```
ED-EC1::EC1-24:::::IS,AINS;
```

In the following example, EC1 port EC1-24 and EC1-26 have previously been provisioned, but EC1-25 has not been provisioned, with the ENT-EC1 command. An ED-EC1 command is entered to change the provisioning of EC1 ports EC1-24 through EC1-26, using &&-ranging, to the OOS-MA state. All other parameter values are unchanged.

```
ED-EC1::EC1-24&&-26::::OOS;
```

For this example, the output response shown assumes CID 1 was used to enter the command and a system generated CTAG value of Pfc518. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pfc518 PRTL
  "EC1-25:ERRCDE=SNVS"
/* Status, Not in Valid State */
/* The port is not provisioned */
/* ED-EC1::EC1-24&&-26::::OOS [Pfc518] (1) */
;
```

RELATED COMMANDS

```
DLT-EC1
ENT-EC1
RMV-EC1
RST-EC1
RTRV-EC1
```

COMMAND CODE: **ED-EQPT**
COMMAND NAME: **EDIT EQUIPMENT**

PURPOSE

The ED-EQPT command modifies the specified equipment entity state and parameter values previously provisioned using an ENT-EQPT command.

If the specified equipment is being edited to the IS state, an off-line diagnostic test is executed and any applicable firmware (except for an MCB), software, and provisioning data are downloaded before the equipment is placed in-service. If CMDMDE=NORM is entered and the download fails, the ED-EQPT command is denied. If CMDMDE of FRCD is entered and the diagnostic test fails, the ED-EQPT command is completed, the equipment entity transitions to the appropriate state, and an equipment-specific failure condition type is set. If an ACM, CIM, CPU, DSK, ICM, SIO, or SPB equipment entity is specified and a CMDMDE of FRCD is entered and any download fails, the ED-EQPT command is denied (CMDMDE of FRCD is treated the same as a CMDMDE of NORM for an ACM, CIM, CPU, DSK, ICM, SIO, or SPB equipment entity). If CMDMDE of FRCD is entered and an equipment entity other than an ACM, CIM, CPU, DSK, ICM, SIO, or SPB is specified and the download fails, the command is completed and an equipment-specific condition type is set for the failed equipment entity.

Executing an ED-EQPT command on a DSI, EP3, ES1, HMU, or LMU equipment entity to edit it to an OOS state does not cause a protection switch to the entity's redundant equipment unit. If ED-EQPT is executed on a DSI, EP3, ES1, HMU, or LMU with CMDMDE of FRCD (to edit it to an OOS state), the command completes successfully regardless of whether the equipment unit is switched to protection.

If a one-plus-one redundant equipment entity (i.e., a DSB, IOB, or SI48 EOB) is specified to edit the entity to an OOS state with CMDMDE of NORM and the redundant equipment is in an IS state, ED-EQPT completes successfully if and only if all functions supported are transferred (switched) to the redundant equipment. Upon successful completion, an NSA MAN condition is set. If CMDMDE of FRCD is entered instead, ED-EQPT completes successfully regardless of the state of the redundant copy. If all functions supported are switched to the redundant equipment, an NSA MAN condition is set, otherwise an SA MAN condition is set.

The ED-EQPT command accepts LT4 and LT8 AIDs. The **GRTHTYPE** and **CMDMDE** parameters are the only parameters that can legally be used with these AIDs. If an attempt is made to upgrade an LT4 AID to an LT8 and the command is syntactically correct, a check is made to see if one or both of the supporting interface modules for that LT4 is a CIM. If an LT4 or LT8 AID is provided (with an appropriate **GRTHTYPE**) and the command is successfully executed, the LT4 (or LT8) will then be viewed as though it were an LT8 (or LT4) all of the time.

Executing an ED-EQPT command causes the following primary state transitions for the specified equipment entity. Secondary states associated with the equipment entity before and after the command is executed depend upon events detected by the system. Refer to Appendix G, State Transitions for additional information on state values and state transitions for each type of equipment entity.

Current PST	Next PST State if ED-EQPT Completed with PST,SST Value of:			
	IS,<NoVal>	IS,MT-DEA	OOS,<NoVal>	OOS,MT-DEA
For EP3, ES1, M16, M32, M40, O1B, O4M, and S3M Equipment Entities:				
IS	Denied	Denied	OOS-MA	Denied
IS-ANR	Denied	Denied	OOS-MA	Denied
OOS-AU	IS (if eqpt functional) IS-ANR (diags fail) OOS-AU (download fails)	Denied	OOS-MA (if eqpd) OOS-AUMA,UEQ	Denied
OOS-AUMA	OOS-AU	Denied	Denied	Denied
OOS-AUMA,MT (Not valid for M40)	Denied	OOS-AU	Denied	OOS-AUMA

Current PST	Next PST State if ED-EQPT Completed with PST,SST Value of:			
	IS,<NoVal>	IS,MT-DEA	OOS,<NoVal>	OOS,MT-DEA
OOS-MA	IS (if eqpt functional) IS-ANR (diags fail) OOS-AU (download fails)	Denied	Denied	Denied
OOS-MA,MT (Not valid for M40)	Denied	IS (if eqpt functional) IS-ANR (diags fail) OOS-AU (download fails)	Denied	OOS-MA
For CDA, CDB, EOB, IOB, IPB, MCB, P39, P56, OXB, and RPB Equipment Entities:				
IS	Denied	Denied	OOS-MA	Denied
IS-ANR	Denied	Denied	OOS-MA	Denied
OOS-AU	IS (if eqpt functional) IS-ANR (diags fail) OOS-AU (provisioning fails)	Denied	OOS-MA (if eqpd) OOS-AUMA,UEQ	Denied
OOS-AUMA	OOS-AU	Denied	Denied	Denied
OOS-MA	IS (if eqpt functional) IS-ANR (diags fail) OOS-AU (provisioning fails)	Denied	Denied	Denied
For DSI, LMU, and HMU Equipment Entities:				
IS	Denied	Denied	OOS-MA	Denied
IS-ANR	Denied	Denied	OOS-MA	Denied
OOS-AU	IS (if eqpt functional) IS-ANR (diags fail) OOS-AU (provisioning fails)	Denied	OOS-MA (if eqpd) OOS-AUMA,UEQ	Denied
OOS-AUMA	OOS-AU	Denied	Denied	Denied
OOS-AUMA,MT	Denied	OOS-AU	Denied	OOS-AUMA
OOS-MA	IS (if eqpt functional) IS-ANR (diags fail)	Denied	Denied	Denied
OOS-MA,MT	Denied	IS (if eqpt functional) IS-ANR (diags fail)	Denied	OOS-MA
For ACM, CIM, CPU, DSB, ICM, IPU, SIO, and SPB Equipment Entities:				
IS	Denied	Denied	OOS-MA	Denied
OOS-AU	IS (if eqpt functional) OOS-AU (provisioning fails)	Denied	OOS-MA (if eqpd) OOS-AUMA,UEQ	Denied
OOS-AUMA	OOS-AU	Denied	Denied	Denied
OOS-MA	IS (if eqpt functional) OOS-AU (provisioning fails)	Denied	Denied	Denied
For PSF Equipment Entities:				
IS	Denied	Denied	OOS-MA	Denied

Current PST	Next PST State if ED-EQPT Completed with PST,SST Value of:			
	IS,<NoVal>	IS,MT-DEA	OOS,<NoVal>	OOS,MT-DEA
OOS-AU	Denied	Denied	OOS-MA (if eqpd) OOS-AUMA,UEQ	Denied
OOS-AUMA	OOS-AU	Denied	Denied	Denied
OOS-MA	IS (if eqpt functional) OOS-AU (Pwr-Lock Off)	Denied	Denied	Denied
For DSK Equipment Entities:				
IS	Denied	Denied	OOS-MA	Denied
OOS-AU	IS (if disk equalizes) OOS-AU (equalization fails)	Denied	OOS-MA	Denied
OOS-MA	IS (if disk equalizes) OOS-AU (equalization fails)	Denied	Denied	Denied
For QUAD and SHELF Equipment Entities:				
IS	IS	Denied	Denied	Denied

If the specified equipment entity is edited to an OOS-MA or OOS-AUMA state, a MAN condition type is set and any equipment-specific condition types that may exist are cleared for the specified entity.

If the specified equipment entity is edited to an IS, IS-ANR, or OOS-AU state, a MAN condition type is cleared. An IMPROPRMVL condition type is set for the specified equipment entity if the specified equipment is not installed in the system. If the specified equipment is installed in the system but is partially or totally failed, an equipment specific condition type is set for the specified equipment entity.

When a DSB is successfully edited to a PST of IS, all of the upper-layer parameters and specific lower-layer parameters are initialized. When the DSB is successfully edited to a PST of OOS, the OSIPARMISM condition is cleared if set, on the addressed DSB or its mate.

When an O1B is successfully edited to an OOS state with CMDMDE of NORM, the Section and/or Line DCC on the contained OC3 (if enabled) is disabled and the DUPTARPEENTRY is cleared if set on the addressed DSB/OC3.

When an O4M is successfully edited to an OOS state with CMDMDE of NORM, the Section and/or Line DCC on the contained OC12 (if enabled) is disabled and the DUPTARPEENTRY is cleared if set on the addressed DSB/OC12.

If a DSI, EP3, ES1, O1B, O4M, S3M, HMU, LMU, M16, or M32 circuit pack is edited to deactivate an SST of MT (ED-EQPT with SST of MT-DEA entered), a TSA condition type is cleared for the specified DSI, EP3, ES1, O1B, O4M, S3M, HMU, LMU, M16, or M32.

Refer to Appendix C, Condition Types for a list and definition of condition types.

If AID is set to SHELF, the LHSTYPE and/or UHSTYPE parameter can be changed to one of the values within the following groups :

- Group-1 : EP3F36, EP3E36, EP3S36, ES136
- Group-2 : EP3T48, EP3F48, EP3E48, EP3S48, ES148
- Group-3 : O1BFH48, O1BSH48
- Group-4 : O4MFH48, O4MSH48

Tables EDEQPT-1, EDEQPT-2, EDEQPT-3, and EDEQPT-4 illustrate the effects of changing the LHSTYPE/ UHSTYPE parameter values when AID is set to SHELF.

Table EDEQPT–1: Editing of LHSTYPE or UHSTYPE within Group–1

From Current LHSTYPE or UH- STYPE	To New LHSTYPE or UHSTYPE			
	EP3F36	EP3E36	EP3S36	ES136
EP3F36	Successful ¹	Successful/Denied ²		
EP3E36	Successful ¹	Successful ¹	Successful/Denied ²	
EP3S36	Successful ¹		Successful ¹	Successful/Denied ²
ES136	Successful ¹	Successful/Denied ²		Successful ¹

Table EDEQPT–2: Editing of LHSTYPE or UHSTYPE within Group–2

From Current LHSTYPE or UH- STYPE	To New LHSTYPE or UHSTYPE			
	EP3F48	EP3E48	EP3S48	ES148
EP3F48	Successful ¹	Successful/Denied ²		
EP3E48	Successful ¹	Successful ¹	Successful/Denied ²	
EP3S48	Successful ¹		Successful ¹	Successful/Denied ²
ES148	Successful ¹	Successful/Denied ²		Successful ¹

Table EDEQPT–3: Editing of LHSTYPE or UHSTYPE within Group–3

From Current LHSTYPE or UH- STYPE	To New LHSTYPE or UHSTYPE	
	O1BFH48	O1BSH48
O1BFH48	Successful ¹	Successful/Denied ²
O1BSH48	Successful ¹	Successful ¹

Table EDEQPT–4: Editing of LHSTYPE or UHSTYPE within Group–4

From Current LHSTYPE or UH- STYPE	To New LHSTYPE or UHSTYPE	
	O4MFH48	O4MSH48
O4MFH48	Successful ¹	Successful/Denied ²
O4MSH48	Successful ¹	Successful ¹

Note :

- The command is Successful regardless of provisioning status.
If provisioned, the command is successful regardless if the module is carrying traffic.
 - The command is Successful only if none of the modules within the half shelf are provisioned.
Or else, the command is Denied and an error code SNVS is sent.
- An ED–EQPT command is denied if:
- The specified equipment entity has not previously been provisioned with the ENT–EQPT command.
 - A PST of IS is entered and the specified equipment entity is already in–service (a PST of IS, IS–ANR).

- A PST of IS is entered and the specified equipment entity is in a state other than OOS–AUMA or OOS–MA.
- A PST of IS and a CMDMDE of NORM is entered and the specified equipment entity is not functional.
- A PST of IS and a CMDMDE of FRCD is entered and a ACM, CIM, CPU, DSK, ICM, SIO, or SPB equipment entity is specified and the equipment entity is not functional.
- A PST of OOS is entered and the specified equipment entity is already in an OOS–MA or OOS–AUMA state.
- A PST of OOS and a DSI, EP3, ES1, HMU, or LMU circuit pack is specified and the equipment has a PST of IS or IS–ANR without an SST of STBYH, unless CMDMDE of FRCD is entered.
- A PST of OOS and CMDMDE of NORM is entered on an EP3, ES1, O1B, O4M, or S3M module, and the module is not switched to protection (regardless of whether the module has a PST of IS, IS–ANR, or OOS–AU when the command is entered).
- A PST of OOS is entered on an O1B module, the CMDMDE is either not specified or specified as NORM, the OC–3 on the O1B is defined as part of a ring (via ENT–RNG–OC3), and the Section and/or Line DCC is enabled.
- A PST of OOS is entered on an O4M module, the CMDMDE is either not specified or specified as NORM, the OC–12 on the O4M is defined as part of a ring (via ENT–RNG–OC12), and the Section and/or Line DCC is enabled.
- An EP3, O1B, O4M, or S3M circuit pack is edited to deactivate an SST of MT (ED–EQPT with SST of MT–DEA entered) and any of the supported DS3/STS1/STS3C ports or embedded DS1/VT1.5 ports are in a loopback (an STS1, STS3C, VT1.5, DS3, or DS1 state of OOS–AUMA,UAS&MT&LPBK).
- A protection O4M or any S3M circuit pack is edited to deactivate an SST of MT (ED–EQPT with SST of MT–DEA entered).
- An ES1 circuit pack is edited to deactivate an SST of MT (ED–EQPT with SST of MT–DEA entered) and any of the supported STS–1 ports or VT1.5 (embedded or stand alone) ports are in a loopback (an STS1 or VT1 state of OOS–AUMA,UAS&MT&LPBK).
- A LMU or HMU circuit pack is edited to deactivate an SST of MT (ED–EQPT with SST of MT–DEA entered) and any of the supported DS3 ports or embedded DS1 ports are in a loopback (a DS3 or DS1 state of OOS–AUMA,UAS&MT&LPBK).
- A DSI circuit pack is edited to deactivate an SST of MT (ED–EQPT with SST of MT–DEA entered) and any of the supported DS1 ports are in a loopback (a DS1 state of OOS–AUMA,UAS&MT&LPBK).
- A PST of OOS and a one–for–one redundant equipment entity, other than a CPU, or the last ICM or last SIO in the system, is specified and the corresponding redundant equipment is not available but required for service (e.g., the “master” is to be removed and the “slave” unit does not have a PST of IS or automatic copy switching is inhibited), unless CMDMDE of FRCD is entered.
- A PST of OOS is entered, a one–plus–one protected circuit pack (i.e., a DSB, IOB, or SI48 EOB) AID is specified, CMDMDE of NORM is entered, and the redundant equipment is in an OOS state or IS–ANR state (not fully functional or already removed).
- A CPU circuit pack and PST of OOS is specified and its corresponding opposite copy CPU is not available for service (regardless if CMDMDE of NORM or FRCD is entered).
- An ICM or SIO circuit pack, PST of OOS, and CMDMDE of NORM is specified and its corresponding opposite copy ICM or SIO is not available for service, or PST of OOS and CMDMDE of FRCD is specified and all of the ICM’s or SIO’s supported LTx circuit packs have not been deleted.
- A value for LHSTYPE or UHSTYPE is entered and all of the equipped EP3 or ES1 circuit packs do not support the specified LHSTYPE/UHSTYPE functionality, or greater functionality.
- A value for QTYPE is entered and all of the supported DSI, LMU, or HMU equipment entities have not previously been deleted (do not have an SST of UAS).
- A CS matrix AID is specified, ESTYPE of M16 or M32 is entered, and clover leaf 3, 4 or 5 ES is provisioned to a PST of IS.
- A value for CBLENGTH is entered and any of the EOBs, IOBs, or OXBs in the shelf are not in a OOS–MA or OOS–AUMA state.
- A PST of OOS is entered and an O1B, O4M, or S3M is specified which has STS–3Cs, STS–1s, or VT1.5s involved in path switching and are in WRK secondary states, unless CMDMDE of FRCD is entered.
- A P56 circuit pack and MODE of NORM or FRCD is specified with PST of OOS and the P56 provides power to an MCB that is simultaneously involved in a copy switch with another MCB.

- A PST of OOS is entered with CMDMDE of NORM, and an I/O or matrix P39 or P56 is specified that would cause a copy lock to a copy residing on a shelf with GTI alarms.
- A PST of OOS is entered with CMDMDE of NORM, a SI36 CDB or SI48 CDB is specified, and the opposite copy of IOB/EOB in the shelf has GTI alarms.
- A PST of OOS is entered with CMDMDE of NORM, an end-stage or center-stage matrix module is specified and its opposite copy has GTI alarms.
- A PST of OOS is entered with CMDMDE of NORM, an IPB or RPB is specified and its opposite copy has GTI alarms on the matrix modules (i.e., EOB, IPB, M16, M32, M40, OXB, RPB).
- An attempt to upgrade an LT4 AID to an LT8 and one or both of the supporting interface modules for the LT4 is a CIM.
- An attempt to downgrade an LT8 AID to an LT4 and any of the extended ACLs for the LT8 is provisioned.
- An end stage SHELF and CSTYPE of M40 is entered and the specified end stage is not a high density backplane.
- An invalid parameter value or combination of parameter values is entered.
- The user tries to edit center stage shelf 1 of rack 2 or rack 3 from M40 to M16.
- An SST of MT-DEA is entered and the AID specifies a working O4M module and any of the associated S3M modules is in SST=MT state.
- The command is entered on a 240-port system, and a value for CSTYPE or ESTYPE is specified.
- The command is entered on a 240-port system, and CTYPE=DS3 or LHSTYPE/UHSTYPE=EP3F36, EP3E36, EP3S36 or ES136.
- The command is entered on a 240-port system, and an LT8 AID is specified along with GRTHTYPE=LT4.

Executing an ED-EQPT command with PST of OOS (editing the equipment entity to an OOS-MA or OOS-AUMA state) and CMDMDE of FRCD is service-affecting in the following situations:

- A DSI, ES1, EP3, HMU, LMU, O1B, O4M, or S3M circuit pack is specified and the circuit pack is not switched to its associated protection circuit pack.
- A DSB, IOB or SI48 EOB circuit pack is specified and not all functions supported by the specified equipment have been switched to the corresponding protection circuit pack.
- A CDA, CDB, IPB, M16, M32, MCB, RPB, or SIO circuit pack/entity is specified and the corresponding redundant equipment is not in an IS state, or the opposite copy of the cross-connect matrix has lost signal transmission.
- An ACM, CIM, CPU, DSK, EOB, ICM, IPU, OXB, SIO, or SPB circuit pack/entity is specified and the corresponding redundant equipment is not in an IS state.
- A P39, P56, or PSF circuit pack in an I/O bay/rack or APS bay/rack is specified and all of the power supplies within the specified power supply's power group are not in an IS state (one or more of power supplies in the power group have a fault or have been removed).
- A P39, P56, or PSF circuit pack in an end-stage or matrix bay/rack is specified and one or more of the power supplies within the specified power supply's power group are not in an IS state and the redundant matrix power supply group is similarly limited in power capacity, or the associated I/O shelves are not able to switch to the opposite copy of the matrix.

INPUT FORMAT

```
ED-EQPT: [TID] :AID: [CTAG] : : [CBLLENGTH=] [, CMDMDE=] [, DESC=] [, DFLTSIG=] [, DIST=]
[, GRTHTYPE=] [, LBO1=] [, LBO2=] [, LBO3=] [, LHSTYPE=] [, CSTYPE=] [, ESTYPE=]
[, QTYPE=] [, RVRTV=] [, TMG=] [, UHSTYPE=] : [PST] [, SST] ;
```

INPUT PARAMETERS

TID	<1-20 VALID TID CHARACTERS>
Default:	<SID>
Addressing:	None
Description:	Target Identifier, specifies the network node TID for the command.

AID

EQUIPMENT_AID:

```
{ACM-1-2-{3-7, 10-14}}
{CDA-{4, 5, 10, 11, 16, 17, 22, 23, 102, 103}-3-1}
{CDB-{5}-{1, 3}-{1, 2}}
{CDB-{5}-{1, 3}-{1, 2}}
    CDB-{2-43,104-111,112-135,136-141}-{1, 3}-{1, 2}
{SI36: CDB-{6-9, 12-15, 18-21, 24-43}-{1, 3}-{1-2},
    {SI48: CDB-{2-43,104-111,112-135,136-141}-{1, 3}-{1, 2}
{CIM-1-2-{3-7, 10-14}}
{CPU-1-2-{1-2}}
{DSB-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{1-2}}
{DSI-{44-63}-{1-4}-{1-32}}
{DSK-1-3-1,
    DSK-1-4-2}
{EOB-{5}-{1, 3}-{1-5}}
{SI48: EOB-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{1-2},
    EOC: EOB-{4-5, 10-11, 16-17, 22-23, 102, 103}-1-{1-7, 9-15}}
{SI48: EP3-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42,
    104-106,108-110, 136-141}-{1, 3}-{1-18},
    EP3-{9, 21, 35, 43, 107}-3-{1-18},
    EP3-{15, 27, 31, 39, 111}-1-{1-18}}
{SI36: EP3-{6-8, 12-14}-{1, 3}-{1-14},
    EP3-9-3-{1-14},
    EP3-15-1-{1-14}}
{SI48: ES1-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42,
    104-106,108-110,136-141}-{1, 3}-{1-18},
    ES1-{9, 21, 35, 43,107}-3-{1-18},
    ES1-{15, 27, 31, 39,111}-1-{1-18}}
{SI36: ES1-{6-8, 12-14}-{1, 3}-{1-14},
    ES1-9-3-{1-14},
    ES1-15-1-{1-14}}
{HMU-{44-53}-{1-4}-{1-8}}
{ICM-1-2-{1, 2, 8, 9}}
{IOB-{6-8, 12-14}-{1, 3}-{1, 3, 5, 7},
    IOB-9-3-{1, 3, 5, 7},
    IOB-15-1-{1, 3, 5, 7}}
{IPB-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{1-2}}
{IPU-{44-63}-{1-4}-{1-8}}
{LMU-{44-53}-{1-4}-{1-32}}
{LT4-1-1-{7-16}}
{LT5-1-1-{2-6}}
{LT8-1-1-{7-16}}
{M16-{2-5, 10-11, 16-17, 22-23}-3-{1-16}}
{M32-{4-5, 10-11, 16-17, 22-23, 102, 103}-3-{1-16},
    M32-{5}-{1, 3}-{1-3, 6-8}}
{M40-{2-3}-{1, 3}-{1-16}}
{M40-{5}-{1, 3}-{4, 5, 9, 10}}
{MCB-{2,3}-3-1}
{MCB-{5}-{1, 3}-{1}}
{O1B-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{2-9, 11-18}}
{O4M-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{2-3, 11-12}}
{OXB-{44-63}-{1-4}-{1-2}}
{P39-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{1-3},
```

P39-{4, 5, 10, 11, 16, 17, 22, 23, 102, 103}-1-{1-3},
P39-{4, 5, 10, 11, 16, 17, 22, 23, 102, 103}-3-{1-4},
P39-{5}-{1, 3}-{1-4}}
{P56 - {6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141} - {1, 3} - {1-5},
P56 - {2-3} - {1, 3} - {1-4},
P56 - {4, 5, 10, 11, 16, 17, 22, 23, 102, 103} -1,3 - {1-5},
P56-{5}-{1, 3}-{1-4}}
{PSF-1-{3, 4}-{1, 2},
PSF-{44-63}-{1-4}-{1-2}}
{QUAD-{44-63}-{1-4}-{1-4}}
{RACK-{1-63, 101, 102-111, 112-135, 136-141}-0-1}
{RPB-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{1-2}}
{S3M-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{4-9, 13-18}}
{SHELF-{4-43, 102-141}-{1, 3}-1}
{SHELF-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42, 104-106, 108-110,
136-141}-{1, 3}-1,
SHELF-{9, 21, 35, 43}-3-1,
SHELF-{15, 27, 31, 39, 107, 111}-1-1}}
{SHELF-{5}-{1, 3}-{1}}
{SIO-1-2-{1-2, 8-9}}
{SPB-{2-43, 102-111, 112-135, 136-141}-{1, 3}-{1-2}}
{SPB-{5}-{1, 3}-{1, 2}}

Default: Entry Required

Addressing: None

Description: Equipment AID, identifies the equipment entity. Refer to Appendix B, Access Identifiers (AIDs) for a definition of equipment mnemonics.

Restrictions: ED-EQPT is denied if the specified AID does not identify an EP3 circuit pack and an LBO1, LBO2, or LBO3 value is entered.
ED-EQPT is denied if the specified AID does not identify an EP3 circuit pack with an LHSTYPE or UHSTYPE of EP3F48 and a value for DFLTSIG is entered.
ED-EQPT is denied if the specified AID does not identify a SHELF equipment entity and an LHSTYPE or UHSTYPE value is entered.
ED-EQPT is denied if the specified AID does not identify an DSI, EP3, ES1, LMU, HMU, M16, M32, O1B, O4M, or S3M circuit pack and an SST value of MT-DEA is entered.
ED-EQPT is denied if a value for DIST is entered and the specified AID does not identify a DS1 circuit pack.
ED-EQPT is denied if RVRTV of {N,Y} is entered and the specified AID does not identify an MCB circuit pack.
ED-EQPT is denied if the specified AID does not identify a SHELF/QUAD/RACK and the DESC value is entered.
ED-EQPT is denied if the specified AID identifies a RACK and any parameter value other than for the DESC parameter is entered.
ED-EQPT is denied if the specified AID identifies an EOC SHELF equipment entity {SHELF-{4, 5, 11, 16, 17, 22, 23}-1-1} and any parameter value other than for DESC is entered.
ED-EQPT is denied if the specified AID identifies an EP3 circuit pack and the corresponding Shelf LHSTYPE or UHSTYPE is not provisioned with EP3E36, EP3E48, EP3F36, EP3F48, EP3S36, EP3S48.
ED-EQPT is denied if the specified AID identifies an ES1 circuit pack and the corresponding shelf parameter LHSTYPE or UHSTYPE is not {ES136, ES148}.

ED-EQPT is denied if the specified AID of SHELF is entered and the provisioning of LHSTYPE or UHSTYPE results in a mixture of SI36 and SI48 half-shelves or shelves specified within the same rack.

ED-EQPT is denied if the specified AID of SI48 SHELF is entered and the provisioning of LHSTYPE or UHSTYPE results in a mixture of O1B and O4M modules specified within the same shelf.

ED-EQPT is denied if the specified AID of SHELF is entered and the provisioning of LHSTYPE or UHSTYPE results in changing an SI36 half-shelf to an SI48 half-shelf or vice-versa.

ED-EQPT is denied if the specified AID does not identify a SHELF or QUAD and a CBLENGTH value is entered.

ED-EQPT is denied if AID=SHELF or AID=QUAD and CBLENGTH greater than 500 is entered.

ED-EQPT is denied if AID of a SI36 SHELF and CBLENGTH greater than 350 are specified.

ED-EQPT is denied if the specified AID of LT4 or LT8 is entered and a value for any parameter other than GRTHTYPE and CMDMDE is entered.

ED-EQPT is denied if the specified AID of LT4 or LT8 is entered and a value for CMDMDE is either not specified or specified as NORM.

ED-EQPT is denied if the specified AID of LT4 or LT8 is entered and a value for GRTHTYPE is not specified.

ED-EQPT is denied if the specified AID of LT4 is entered and GRTHTYPE=LT4.

ED-EQPT is denied if the specified AID of LT8 is entered and GRTHTYPE=LT8.

CTAG	<1-6 VALID CTAG CHARACTERS>
	Default: <System Assigned CTAG Value>
	Addressing: None
	Description: Correlation Tag, associates input command with its output responses.
CBLENGTH=	{<Integers in 5 meter increments from 5 through 500 meters>, <NoVal>}
	Default: <Previously Existing Value>
	Addressing: None
	Description: Optical Cable Length, specifies the cable length (in meters) of the optical cable between a DS3/DS1 Quad shelf or SI36/SI48 shelves and the EOC shelf. The system downloads and configures the appropriate delay values corresponding to the specified CBLENGTH value. Non-numeric values are:
	<NoVal> CBLENGTH is not applicable if AID does not identify a QUAD or SHELF.
	Restrictions: ED-EQPT is denied if a value for CBLENGTH is entered and the specified AID does not identify a QUAD or SHELF. ED-EQPT is denied if a value for CBLENGTH is entered and all the EOBs, IOBs, or OXBs in the shelf are not in an OOS-MA or OOS-AUMA state. ED-EQPT is denied if a value for CBLENGTH is not an increment of 5. ED-EQPT is denied if CBLENGTH is greater than 350 meters, and the supporting ES shelf has been grown as M16.

CMDMDE=	{FRCD, NORM}
	Default: {Previously Existing Value} Addressing: None Description: Command Execution Mode. Values are: FRCD Forced. The command is completed even if the result of its execution is service-affecting. NORM Normal. The command is denied if the result of its execution is service-affecting.
DESC=	<0–62 ASCII CHARACTERS excluding the enclosing double quotes>
	Default: <Previously Existing Value> Addressing: None Description: Description Text, specifies any desired text description (e.g., physical location) associated with a specified SHELF/QUAD/RACK AID. Enclosing quotes are required to enter a value for DESC parameter. A null character is entered as "". Restrictions: ED–EQPT is denied if a value for DESC is entered and the specified AID does not identify a SHELF/QUAD/RACK equipment entity. ED–EQPT is denied if DESC and PST/SST are both being edited.
DFLTSIG=	{ASYNC, CBIT, STS1, <NoVal>}
	Default: <Previously Existing Value> Addressing: None Description: Default Signal, specifies the type of (default) signal transmitted by an EP3 circuit pack (in a FlexPoint Half–Shelf), after the EP3 has powered–on and data–base down–loaded, for each of the supported un–provisioned facilities (the signal transmitted for provisioned facilities is based on the facility provisioning). Values are: ASYNC Asynchronous DS3, the default transmitted signal for un–provisioned ports on the specified EP3 (in a FlexPoint Half–Shelf) is M13 formatted DS3 with DS1 AIS on all embedded DS1s. CBIT C–Bit DS3, the default transmitted signal for un–provisioned ports on the specified EP3 (in a FlexPoint Half–Shelf) is C–Bit formatted DS3 with DS1 AIS on all embedded DS1s. STS1 Unequipped STS–1, the default transmitted signal for un–provisioned ports on the specified EP3 (in a FlexPoint Half–Shelf) is Unequipped STS–1. <NoVal> DFLTSIG is not applicable if AID does not identify an EP3 circuit pack. Restrictions: ED–EQPT is denied if a value for DFLTSIG is entered and the specified AID does not identify an EP3 circuit pack and the corresponding LHSTYPE/UHSTYPE value is not provisioned as EP3F36 or EP3F48.
DIST=	{LONG, MAX, MED, SHORT}
	Default: <Previously Existing Value> Addressing: None Description: Distance, specifies the cable length of the DS1 cable connected to DSI equipment identified by AID. Values are: LONG DIST configured for 440–550 feet of cable. MAX DIST configured for 550 feet or longer of cable. MED DIST configured for 220–440 feet of cable. SHORT DIST configured for 0–220 feet of cable. <NoVal> DIST is not applicable if AID does not identify an DSI circuit pack. Restrictions: ED–EQPT is denied if a value for DIST is entered and the specified AID does not identify an DS1 circuit pack.

GRTHTYPE=	{LT4, LT8}
Default:	<Previously Existing Value>
Addressing:	None
Description:	Growth Process Type, specifies the type of growth process for a provisioned LT4 or LT8.
	LT4 Downgrades the provisioned LT8 AID to a provisioned LT4 module.
	LT8 Upgrades the provisioned LT4 AID to a provisioned LT8 module.
Restrictions:	ED-EQPT is denied if a value for GRTHTYPE is entered and the specified AID does not identify an LT4 or LT8 equipment entity.
LBO1=	{LONG, SHORT}
Default:	<Previously Existing Value>
Addressing:	None
Description:	Line Build Out 1, specifies the line build out for the lowest numbered DS3 on the EP3 or ES1 circuit pack identified by AID. Values are:
	LONG LBO configured for 226–450 feet of cable.
	SHORT LBO configured for 0–225 feet of cable.
Restrictions:	ED-EQPT is denied if a value for LBO1 is entered and the specified AID does not identify an EP3 or ES1 circuit pack.
LBO2=	{LONG, SHORT}
Default:	<Previously Existing Value>
Addressing:	None
Description:	Line Build Out 2, specifies the line build out for the middle numbered DS3 on the EP3 or ES1 circuit pack identified by AID. Values are:
	LONG LBO configured for 226–450 feet of cable.
	SHORT LBO configured for 0–225 feet of cable.
Restrictions:	ED-EQPT is denied if a value for LBO2 is entered and the specified AID does not identify an EP3 or ES1 circuit pack.
LBO3=	{LONG, SHORT}
Default:	<Previously Existing Value>
Addressing:	None
Description:	Line Build Out 3, specifies the line build out for the highest numbered DS3 on the EP3 or ES1 circuit pack identified by AID. Values are:
	LONG LBO configured for 226–450 feet of cable.
	SHORT LBO configured for 0–225 feet of cable.
Restrictions:	ED-EQPT is denied if a value for LBO3 is entered and the specified AID does not identify an EP3 or ES1 circuit pack.

LHSTYPE=	{EP3E36, EP3E48, EP3F36, EP3F48, EP3S36, EP3S48, ES136, ES148, O1BFH48, O1BSH48, O4MSH48, O4MFH48}
Default:	<Previously Existing Value>
Addressing:	None
Description:	Lower Half Shelf Type, specifies the type of I/O shelf if a SHELF AID is specified. Values are:
EP3E36	High Density DS3 Shelf with 36 DS3s per shelf containing EP3s that have Enhanced capability.
EP3E48	High Density DS3/STS Shelf with 48 DS3s per shelf containing EP3s that have Enhanced capability.
EP3F36	High Density DS3/STS Shelf with 36 DS3s/STS1s per shelf containing EP3s that have FlexPoint (STS1/DS3) capability.
EP3F48	High Density DS3/STS Shelf with 48 DS3s/STS1s per shelf containing EP3s that have FlexPoint (STS1/DS3) capability.
EP3S36	High Density DS3 Shelf with 36 DS3s per shelf containing EP3s that have Standard capability.
EP3S48	High Density DS3/STS Shelf with 48 DS3s per shelf containing EP3s that have Standard capability.
ES136	High Density STS Shelf with 36 STSs per shelf containing ES1 circuit packs.
ES148	High Density DS3/STS Shelf with 48 STSs per shelf containing ES1 circuit packs.
O1BFH48	O1B (OC-3) Shelf with 48 DS3/STS1s per shelf, with FlexPoint capability, and Half-bandwidth to the matrix.
O1BSH48	O1B (OC-3) Shelf with 48 STS1s per shelf, with SONET capability, and Half-bandwidth to the matrix.
O4MSH48	O4M (OC-12) Standard module in Half Density SI48-O4M shelf, and Half-bandwidth to the matrix.
O4MFH48	O4M (OC-12) FlexPoint module in Half Density SI48-O4M shelf, and Half-bandwidth to the matrix.
Restrictions:	<p>ED-EQPT is denied if a value for LHSTYPE is entered and the specified AID does not identify a SHELF equipment entity.</p> <p>ED-EQPT is denied if either LHSTYPE or UHSTYPE are provisioned as {O1BFH48, O1BSH48} and both LHSTYPE or UHSTYPE are not provisioned as {O1BFH48, O1BSH48}.</p> <p>ED-EQPT is denied if either LHSTYPE or UHSTYPE are provisioned as {O4MFH48, O4MSH48} and both LHSTYPE or UHSTYPE are not provisioned as {O4MFH48, O4MSH48}.</p> <p>ED-EQPT is denied if the specified AID identifies an EP3 circuit pack and the corresponding LHSTYPE/UHSTYPE value is not provisioned as EP3F36 or EP3F48 and a value for DFLTSIG is entered.</p> <p>ED-EQPT is denied if the specified AID identifies an EP3 circuit pack and the corresponding shelf parameter LHSTYPE or UHSTYPE is not {EP3E36, EP3F36, EP3S36, EP3E48, EP3F48, EP3S48}.</p> <p>ED-EQPT is denied if the specified AID identifies an ES1 circuit pack and the corresponding shelf parameter LHSTYPE or UHSTYPE is not {ES136, ES148}.</p> <p>ED-EQPT is denied if the specified AID of SHELF is entered and the provisioning of LHSTYPE or UHSTYPE results in a mixture of SI36 and SI48 half-shelves or shelves specified within the same rack.</p> <p>ED-EQPT is denied if the specified AID of SHELF is entered and the provisioning of LHSTYPE or UHSTYPE results in changing a SI36 half-shelf to a SI48 half-shelf or vice-versa.</p>

ED-EQPT is denied if the specified AID of {SHELF-9-1-1, SHELF-15-3-1, SHELF-21-1-1, or SHELF-27-3-1} is entered and the LHSTYPE or UHSTYPE does not specify {O1BFH48, O1BSH48} or {O4MFH48, O4MSH48}.

ED-EQPT is denied if the specified AID of {SHELF-9-1-1, SHELF-15-3-1, SHELF-21-1-1, or SHELF-27-3-1} is entered and the other shelf in the SI48 rack (e.g., {SHELF-9-3-1, SHELF-15-1-1, SHELF-21-3-1, SHELF-27-1-1}, respectively) is not provisioned, or is provisioned but *not* as an OC3 or OC12 shelf with half bandwidth (i.e., LHSTYPE and UHSTYPE of {O1BFH48, O1BSH48} or {O4MFH48, O4MSH48}).

ED-EQPT is denied if both LHSTYPE or UHSTYPE are not specified for O1B Standard, O1B FlexPoint, O4M Standard or O4M FlexPoint respectively.

CSTYPE=	{M16, M40}	
	Default:	<Previously Existing Value>
	Addressing:	None
	Description:	Matrix shelf type, specifies the type of matrix circuit packs used in the center shelf. Values are:
	M16	M16, specifies that the center stage shelf consists of all M16 modules.
	M40	M40, specifies that the center stage shelf consists of all M40 modules.
	Restrictions:	ED-EQPT is denied if a value for CSTYPE is entered and the specified AID does not identify a matrix SHELF equipment entity.
ESTYPE=	{M16, M32}	
	Default:	<Previously Existing Value>
	Addressing:	None
	Description:	Matrix shelf type, specifies the type of matrix circuit packs used in the end stage shelf. Values are:
	M16	M16, specifies that the Standard Density end stage shelf consists of all M16 modules or that the High Density end stage shelf consists of any mix of M16 and/or M32 modules with each M32 functioning at half the capacity.
	M32	M32, specifies that the High Density end stage shelf consists of all M32 modules each functioning at full capacity.
	Restrictions:	ED-EQPT is denied if a value for end stage shelf type is entered and the specified AID does not identify a matrix shelf equipment entity. ED-EQPT is denied if the system size is 2688 or 3360 and ESTYPE=16 is specified.
QTYPE=	{DS1, DS3}	
	Default:	<Previously Existing Value>
	Addressing:	None
	Description:	QUAD Type, specifies the quadrant type for the DS1 I/O QUAD identified by AID. Values are:
	DS1	QTYPE configured for DS1 Quad.
	DS3	QTYPE configured for DS3 QUAD.
	<NoVal>	QTYPE is not applicable if AID does not identify an DS1 Quad.
	Restrictions:	ED-EQPT is denied if a value for QTYPE is entered and the specified AID does not identify a QUAD equipment entity.

RVRTV=	{N, Y}	
	Default:	<Previously Existing Value>
	Addressing:	None
	Description:	Revertive Mode, specifies the revertive mode of operation of the TMG reference signal for the pair of MCBs identified by AID. Values are:
	N	TMG operation configured for non-revertive mode of operation. With this option there is no preferred timing source.
	Y	TMG operation configured for revertive mode of operation.
	Restrictions:	ED-EQPT is denied if a value for RVRTV is entered and the specified AID does not identify an MCB circuit pack.
TMG=	{EXT1544, INT}	
	Default:	<Previously Existing Value>
	Addressing:	None
	Description:	Timing Reference Source, specifies the operational mode of the MCB (Master Clock Board) identified by AID. Values are:
	EXT1544	TMG configured for an external 1544 KHz timing reference source.
	INT	TMG configured for an internal timing reference source. With this option, the Primary reference is always the preferred timing source.
	Restrictions:	ED-EQPT is denied if a value for TMG is entered and the specified AID does not identify an MCB circuit pack.
UHSTYPE=	{EP3E36, EP3E48, EP3F36, EP3F48, EP3S36, EP3S48, ES136, ES148, O1BFH48, O1BSH48, O4MSH48, O4MFH48}	
	Default:	<Previously Existing Value>
	Addressing:	None
	Description:	Upper Half Shelf Type, specifies the type of I/O shelf if a SHELF AID is specified. Values are:

EP3E36	High Density DS3 Shelf with 36 DS3s per shelf containing EP3s that have Enhanced capability.
EP3E48	High Density DS3/STS Shelf with 48 DS3s per shelf containing EP3s that have Enhanced capability.
EP3F36	High Density DS3/STS Shelf with 36 DS3s/STS1s per shelf containing EP3s that have FlexPoint (STS1/DS3) capability.
EP3F48	High Density DS3/STS Shelf with 48 DS3s/STS1s per shelf containing EP3s that have FlexPoint (STS1/DS3) capability.
EP3S36	High Density DS3 Shelf with 36 DS3s per shelf containing EP3s that have Standard capability.
EP3S48	High Density DS3/STS Shelf with 48 DS3s per shelf containing EP3s that have Standard capability.
ES136	High Density STS Shelf with 36 STSs per shelf containing ES1 circuit packs.
ES148	High Density DS3/STS Shelf with 48 STSs per shelf containing ES1 circuit pas.
O1BFH48	O1B (OC-3) Shelf with 48 DS3/STS1s per shelf, with FlexPoint capability, and Half-bandwidth to the matrix.
O1BSH48	O1B (OC-3) Shelf with 48 STS1s per shelf, with SONET capability, and Half-bandwidth to the matrix.
O4MSH48	O4M (OC-12) Standard module in Half Density SI48-O4M shelf, and Half-bandwidth to the matrix.
O4MFH48	O4M (OC-12) FlexPoint module in Half Density SI48-O4M shelf, and Half-bandwidth to the matrix.
Restrictions:	<p>ED-EQPT is denied if a value for UHSTYPE is entered and the specified AID does not identify a SHELF equipment entity.</p> <p>ED-EQPT is denied if either LHSTYPE or UHSTYPE are provisioned as {O1BFH48, O1BSH48} and both LHSTYPE and UHSTYPE are not provisioned as {O1BFH48, O1BSH48}.</p> <p>ED-EQPT is denied if either LHSTYPE or UHSTYPE are provisioned as {O4MFH48, O4MSH48} and both LHSTYPE and UHSTYPE are not provisioned as {O4MFH48, O4MSH48}.</p> <p>ED-EQPT is denied if the specified AID identifies an EP3 circuit pack and the corresponding LHSTYPE/UHSTYPE value is not provisioned as EP3F36 or EP3F48 and a value for DFLTSIG is entered.</p> <p>ED-EQPT is denied if the specified AID identifies an EP3 circuit pack and the corresponding shelf parameter LHSTYPE or UHSTYPE is not {EP3E36, EP3F36, EP3S36, EP3E48, EP3F48, EP3S48}.</p> <p>ED-EQPT is denied if the specified AID identifies an ES1 circuit pack and the corresponding shelf parameter LHSTYPE or UHSTYPE is not {ES136, ES148}.</p> <p>ED-EQPT is denied if the specified AID of SHELF is entered and the provisioning of LHSTYPE or UHSTYPE results in a mixture of SI36 and SI48 half-shelves or shelves specified within the same rack.</p> <p>ED-EQPT is denied if the specified AID of SHELF is entered and the provisioning of LHSTYPE or UHSTYPE results in changing an SI36 half-shelf to an SI48 half-shelf or vice-versa.</p> <p>ED-EQPT is denied if the specified AID of {SHELF-9-1-1, SHELF-15-3-1, SHELF-21-1-1, or SHELF-27-3-1} is entered and the LHSTYPE or UHSTYPE does not specify {O1BFH48, O1BSH48} or {O4MFH48, O4MSH48}.</p>

ED-EQPT is denied if the specified AID of {SHELF-9-1-1, SHELF-15-3-1, SHELF-21-1-1, or SHELF-27-3-1} is entered and the other shelf in the SI48 rack (e.g., {SHELF-9-3-1, SHELF-15-1-1, SHELF-21-3-1, SHELF-27-1-1}, respectively) is not provisioned, or is provisioned but *not* as an OC3 or OC12 shelf with half bandwidth (i.e., LHSTYPE and UHSTYPE of {O1BFH48, O1BSH48} or {O4MFH48, O4MSH48}).

ED-EQPT is denied if both LHSTYPE or UHSTYPE are not specified for O1B Standard, O1B FlexPoint, O4M Standard or O4M FlexPoint respectively.

PST	{IS, OOS}	
	Default:	<Previously Existing Value>
	Addressing:	None
	Description:	Primary State, specifies the primary state to provision the specified equipment entity. Values are:
	IS	In-Service
	OOS	Out-Of-Service
SST	{MT-DEA}	
	Default:	<Previously Existing Value>
	Addressing:	None
	Description:	Secondary State, specifies the secondary state to provision the specified equipment entity. Values are:
	MT-DEA	Maintenance-Deactivate
	Restrictions:	ED-EQPT is denied if SST of MT-DEA is entered and the specified AID does not identify an DSI, EP3, M16, M32, O1B, O4M, S3M circuit pack or the specified DSI, EP3, M16, M32, O1B, O4M, S3M does not currently have an SST of MT.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * The ED-EQPT for <AID> was completed */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

AID	EQUIPMENT_AID:
	{ACM-1-2-{3-7, 10-14}}
	{CDA-{4, 5, 10, 11, 16, 17, 22, 23, 102, 103}-3-1}
	{CDB-{5}-{1, 3}-{1, 2}}
	CDB-{2-43, 104-111, 112-135, 136-141}-{1, 3}-{1, 2}
	{SI36: CDB-{6-9, 12-15, 18-21, 24-43}-{1, 3}-{1-2},
	{SI48: CDB-{2-43, 104-111, 112-135, 136-141}-{1, 3}-{1, 2}}
	{CIM-1-2-{3-7, 10-14}}
	{CPU-1-2-{1-2}}
	{DSB-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{1-2}}
	{DSI-{44-63}-{1-4}-{1-32}}
	{DSK-1-3-1,
	DSK-1-4-2}
	{EOB-{5}-{1, 3}-{1-5}}
	{SI48: EOB-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{1-2},

EOC: EOB-{4-5, 10-11, 16-17, 22-23, 102, 103}-1-{1-7, 9-15}}
 {SI48: EP3-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42,
 104-106,108-110, 136-141}-{1, 3}-{1-18},
 EP3-{9, 21, 35, 43, 107}-3-{1-18},
 EP3-{15, 27, 31, 39, 111}-1-{1-18}}
 {SI36: EP3-{6-8, 12-14}-{1, 3}-{1-14},
 EP3-9-3-{1-14},
 EP3-15-1-{1-14}}
 {SI48: ES1-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42,
 104-106,108-110,136-141}-{1, 3}-{1-18},
 ES1-{9, 21, 35, 43,107}-3-{1-18},
 ES1-{15, 27, 31, 39,111}-1-{1-18}}
 {SI36: ES1-{6-8, 12-14}-{1, 3}-{1-14},
 ES1-9-3-{1-14},
 ES1-15-1-{1-14}}
 {HMu-{44-53}-{1-4}-{1-8}}
 {ICM-1-2-{1, 2, 8, 9}}
 {IOB-{6-8, 12-14}-{1, 3}-{1, 3, 5, 7},
 IOB-9-3-{1, 3, 5, 7},
 IOB-15-1-{1, 3, 5, 7}}
 {IPB-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{1-2}}
 {IPU-{44-63}-{1-4}-{1-8}}
 {LMU-{44-53}-{1-4}-{1-32}}
 {LT4-1-1-{7-16}}
 {LT5-1-1-{2-6}}
 {LT8-1-1-{7-16}}
 {M16-{2-5, 10-11, 16-17, 22-23}-3-{1-16}}
 {M32-{4-5, 10-11, 16-17, 22-23, 102, 103}-3-{1-16},
 M32-{5}-{1, 3}-{1-3, 6-8}}
 {M40-{2-3}-{1, 3}-{1-16}}
 {M40-{5}-{1, 3}-{4, 5, 9, 10}}
 {MCB-{2,3}-3-1}
 {MCB-{5}-{1, 3}-{1}}
 {O1B-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{2-9, 11-18}}
 {O4M-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{2-3, 11-12}}
 {OXB-{44-63}-{1-4}-{1-2}}
 {P39-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{1-3},
 P39-{4, 5, 10, 11, 16, 17, 22, 23, 102, 103}-1-{1-3},
 P39-{4, 5, 10, 11, 16, 17, 22, 23, 102, 103}-3-{1-4},
 P39-{5}-{1, 3}-{1-4}}
 {P56-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{1-5},
 P56-{2-3}-{1, 3}-{1-4},
 P56-{4, 5, 10, 11, 16, 17, 22, 23, 102, 103}-1,3-{1-5},
 P56-{5}-{1, 3}-{1-4}}
 {PSF-1-{3, 4}-{1, 2},
 PSF-{44-63}-{1-4}-{1-2}}
 {QUAD-{44-63}-{1-4}-{1-4}}
 {RACK-{1-63, 101, 102-111, 112-135, 136-141}-0-1}
 {RPB-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{1-2}}
 {S3M-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{4-9, 13-18}}
 {SHELF-{2,3}-3-1}
 {SHELF-{4-43, 102-141}-{1, 3}-1}
 {SHELF-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42,104-106,108-110,
 136-141}-{1, 3}-1,

SHELF-{9, 21, 35, 43}-3-1,
SHELF-{15, 27, 31, 39, 107, 111}-1-1}}
{SHELF-{5}-{1, 3}-{1}}
{SIO-1-2-{1-2, 8-9}}
{SPB-{2-43, 102-111, 112-135, 136-141}-{1, 3}-{1-2}}
{SPB-{5}-{1, 3}-{1, 2}}
Equipment AID, identifies the equipment entity. Refer to Appendix B, Access Identifiers (AIDs) for a definition of equipment mnemonics.

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

ENEQ	Equipage, Not EQuipped /* Not all modules are of their corresponding half shelf type */ /* <AID> must be in-service first. */
IDNC	Input, Data Not Consistent /*Editing CBLENGTH is only allowed in first Quad.*/ /*Cable length parameter only valid with optical interface.*/ /*Can not edit ES to M16 for current system size.*/ /*ESTYPE of M16 is not valid during a MTX_UPGRADE_2688.*/ /*CSTYPE of M16 is not valid when the opposite copy CS is not M16 */ /*CSTYPE of M16 is only valid during a MTX_UPGRADE_1344.*/ /*Unable to edit ES to M32 with a CS of M16 type.*/ /*Companion shelf must be a half-bandwidth OCn shelf.*/ /*This specific quad can not be edited to a DS3 type.*/ /*Invalid field specified.*/ /*Quads cannot be edited to DS3 in a 240 port system.*/ /*Unable to read aux buffer for <AID>*/
IDNV	Input, Data Not Valid /*Invalid parameter or option specified in command.*/ /*Both half shelf types must be of same half-band-width for OCn.*/ /*Both half shelf types must be of same full-bandwidth for OCn.*/ /*Cannot edit to requested subrack type from current subrack type.*/ /*Invalid ENTYP_QTYPE parameter specified in command.*/ /*Invalid CBLENGTH parameter entered.*/ /*Invalid UHSTYPE parameter specified in command.*/ /*Invalid LHSTYPE parameter specified in command.*/ /*Requested matrix shelf type is not consistent with given matrix shelf.*/ /*Companion shelf is still provisioned.*/ /*Editing to full-bandwidth not allowed.*/ /*Invalid ESTYPE parameter specified in command.*/ /*Invalid CSTYPE parameter specified in command.*/ /*Error retrieving ESTYPE parameter.*/

IIAC	Input, Invalid ACcess identifier /* Invalid or unassigned equipment identifier specified. */ /* An invalid module type specified in request. */ /*SHELF has been provisioned the PBTYPE as <CARD_TYPE>.*/ /* Invalid AID for the given slot. */ /*Invalid AID specified.*/*
IIFM	Input, Invalid data ForMat /* Parameter value too long */ /* Description must be enclosed in quotes.*/ /* Invalid description specified in command.*/*
IPEX	Input, Parameter EXtra /* Protection card LBOs cannot be edited. */ /* Protection card DIST value cannot be edited. */ /* Protection card LBOs and DFLTSIG cannot be edited. */ /* Editing DFLTSIG is not valid for standard or enhanced subbracks */ /* Can't edit PST and other parameters at the same time. */
IPNC	Input, Parameter Not Consistent /* Input, Parameter Not Consistent*/ /* Invalid field specified.*/* /*Editing CBLENGTH is only valid for IO shelves and quads*/
IPNV	Input, Parameter Not Valid /*Error retrieving CBLENGTH parameter/* /*Error retrieving LHSTYPE parameter/* /* Error retrieving ESTYPE parameter.*/* /* Error retrieving CSTYPE parameter.*/* /*Invalid CBLENGTH parameter entered.*/*
SARB	Status, All Resources Busy /* Command already in progress on equipment. */ /* Automatic system configuration active on equipment. */ /* INIT–SYS command still active on shelf that equipment is on.*/ /* Automatic configuration (database download) of parent processor in progress. */ /* Level 2 processor software download in progress. Try again later. */
SATF	Status, Automatic Test Failed /* The module failed software loading */ /* The module failed due to a firmware mismatch */ /* The module failed diagnostic testing */ /* Unexpected diag response message for <AID> */
SCSN	Status, invalid Command SequeNce /*In service growth Loopbacks on supported facilities must first be released.*/*

SDBE	<p>Status, internal Data Base Error</p> <p>/* Invalid or unassigned equipment identifier specified */</p> <p>/* <CARD_TYPE> data base access failure */</p> <p>/* Error accessing auxiliary EM data area */</p> <p>/* <AID> database update error */</p> <p>/* Error reading database for card <AID> */</p> <p>/* Error accessing auxiliary buffer for card <AID> */</p> <p>/* Error updating database for card <AID> */</p> <p>/* Error in get_rec_ptr accessing record of the Mate <AID> */</p> <p>/* IO QUAD data base access failure */</p> <p>/* Unable to read database for <AID> */</p> <p>/* Unable to read system configuration file */</p> <p>/* Error reading reference table for <AID> */</p> <p>/* Error updating reference table for <AID> */</p> <p>/* Unable to read shelf database <AID> */</p> <p>/* Error obtaining auxiliary buffer for <AID> */</p> <p>/* Invalid subrack type <#> encountered */</p> <p>/* Error reading ES1 to CS cable database for cable <#> */</p> <p>/* Error reading CS to ES3 cable database for cable <#> */</p> <p>/* <AID> Data base access failure */</p> <p>/* L2P database read error for STD ID <AID> */</p> <p>/* Error retrieving L2P TBSS for STD ID <AID> */</p> <p>/* Auxiliary buffer access failure */</p> <p>/* LMU/DSI data base access failure */</p> <p>/* Error reading database for <AID> */</p> <p>/* Unable to read quad database <AID> */</p> <p>/* Error updating database for <AID> */</p> <p>/* Invalid table id <#> in reference table */</p> <p>/* Error updating shduse table.*/</p>
SDNA	<p>Status, Duplex unit Not Available</p> <p>/* MCB Switching Inhibited */</p> <p>/* MCB equipment not ready to switch. Try again later. */</p> <p>/* MCB equipment not warmed up. Try again later. */</p> <p>/* MCB link not up. It must be repaired. */</p>
SNVS	<p>Status, Not in Valid State</p> <p>/* Command not valid for current state of equipment. */</p> <p>/* Invalid state <state number> for command */</p> <p>/* Command not valid for current state <state number> for card <AID>. */</p> <p>/* Unexpected message from APU Diagnostics. */</p> <p>/* PST can not be changed. */</p> <p>/* <AID> must be deleted first. */</p> <p>/* To change LBOs or DFLTSIG with existing traffic, set CMDMDE = FRCD. */</p> <p>/* To change DIST with existing traffic, set CMDMDE = FRCD. */</p> <p>/* No primary or secondary reference provisioned. */</p> <p>/* <AID> must be deprovisioned. */</p> <p>/* Quad must be provisioned in-service. */</p> <p>/* Shelf must be provisioned in-service. */</p> <p>/* Optical equipment must be logically removed first. */</p> <p>/* Invalid MODE for the TGR card */</p> <p>/* Command not valid on unprovisioned shelves.*/</p> <p>/* Only FRCD mode is valid for editing TGRs.*/</p> <p>/* <AID> must be deleted before editing to this upper subrack type. */</p>

```

/* <AID> must be deleted before editing to this lower subrack type. */
SROF      Status, Requested Operation Failed
/* Error accessing auxiliary EM data area. */
/* The request could cause service effect if performed. */
/* Switch to working must be done first. */
/* Switch to protection must be done first. */
/* Did not receive a response from parent processor card */
/* Switchover not possible. */
/* No equipment available for switchover. */
/* Invalid module type present. */
/* Warning: Did not receive a response from SPB card */
/* SPB failed activate request for <AID>. */
/* No response from SPB for MCB on-line request. */
/* The CDB's on <AID> can not switch. */
/* Error reading CDB clock copy table – <AID> not found. */
/* <AID> is OOS–AU,UAS. */
/* Error accessing data base for <AID>. */
/* <AID> is not IS. */
/* <AID> is OOS. */
/* <AID> is not powered. */
/* <AID> has been Deleted. */
/* Error reading aux buffer for <AID>. */
/* Error reading Database for <AID>. */
/* <AID> has a SYNC 166 error. */
/* Unrecognized slot in AID <AID>. */
/* SELECT–COPY has locked the matrix to <AID>. */
/* Automatic Switching Disabled for <AID>. */
/* Unexpected card id <AID>. */
/* Error accessing auxiliary EM data area. */
/* <AID> not added to restart message. List is full! */
/* Parent L2P ID not found for %s. */
/* L2P restart list full. */
/* Error retrieving ENTYP_QTYPE parameter */
/* Unable to edit shelf <AID> with a condition of BPMISM. */
/* Auto system action caused override. */
/* CDB command denied because <AID> cannot switch. */
/* No switch over response was received for <AID>. */
/* Unable to read aux buffer for <AID>. */
SRQN      Status, invalid ReQuest
/* Command not valid for requested <AID>. */
SSRE      Status, System Resources Exceeded
/* Unable to allocate USI response buffer. */
/* Error accessing auxiliary buffer for card <AID>. */

```

EXAMPLES

In the following example, EP3–6–1–2 is edited from an OOS–MA,MT state to an IS state.

```
ED-EQPT::EP3-6-1-2:::IS,MT-DEA;
```

RELATED COMMANDS

DLT-EQPT

ENT-EQPT

RMV-EQPT

RST-EQPT

RTRV-EQPT

RTRV-STATE-EQPT

COMMAND CODE: **ED-F3**
COMMAND NAME: **EDIT F3**

PURPOSE

The ED-F3 command modifies the previously provisioned parameter values of an F3 (Fractional DS3) entity. An F3 (Fractional DS3) entity consists of a set of up to 7 DS1 entities, all of which reside within a given electrical DS3. By assigning DS1 entities to an F3, Performance Monitoring data summaries are available for all of the DS1s assigned to the F3. Refer to Appendix F, Monitored PM Parameters for a description of the special summary PM parameters pertaining to an F3 entity.

An ED-F3 command is denied if:

- The specified F3 has not previously been provisioned with the ENT-F3 command.
- Any of the DS1 ports being assigned to the specified F3 have not been previously provisioned.
- Any of the DS1 ports being assigned to the specified F3 are not constituents of the DS3 containing the F3.
- Any of the DS1 ports being assigned to the F3 are defined as having framing formats different from that of the specified F3.
- Any of the DS1 ports being assigned to the F3 have already been assigned to another F3.
- A DS1 port is being assigned to a T1Nx parameter that has already been assigned a DS1 (the earlier assignment must first be removed).
- A DS1 port is listed two or more times in T1Nx parameters.
- An invalid parameter value is entered.

INPUT FORMAT

```
ED-F3 : [TID] : AID : [CTAG] : : [FMT=] [ , T1N1=] [ , T1N2=] [ , T1N3=] [ , T1N4=] [ , T1N5=]
      [ , T1N6=] [ , T1N7=] : [PST] ;
```

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	F3_AID: {T3F3-{1-4800}-{1-14}} (T3F3-DS3#-Fractional_DS3#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: DS1 AID, identifies the DS1 port. Restrictions: The AID must indicate an F3 AID that is located in an electrical DS3 located on an SI48 shelf or the command is denied.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
FMT=	{ESF, SF} Default: < Previously existing value > Addressing: None Description: Framing Format, identifies the framing format of all the DS1s assigned to the F3. Values are: ESF Extended SuperFrame. DS1s all are ESF formatted. SF SuperFrame. DS1s all are normal SuperFrame formatted. Restrictions: The command will be denied if the value given for FMT is not matched by the provisioned formats of all the DS1s ultimately assigned to the F3 at the completion of the ED-F3 command.

T1N1=	{<DS1_AID>, RMV}	
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)
	Default:	< Previously existing value >
	Addressing:	None
	Description:	DS1 AID for slot Number 1, identifies one of the potential seven DS1s that are assigned to the F3. Named values are:
	RMV	Remove DS1. DS1 currently assigned to the F3 in this slot is to be removed.
	Restrictions:	The command will be denied if the value given for T1N1 is not a DS1 within the same DS3 as the F3 identified in the AID parameter, or has not been provisioned. It will also be denied if T1N1 identifies a DS1 that is provisioned to have a framing format different than that given in FMT. If an attempt is made to assign a DS1 value to T1N1 but T1N1 has a previously assigned DS1 value in place, the command shall be denied (the previous value must first be removed).
T1N2=	{<DS1_AID>, RMV}	
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)
	Default:	< Previously existing value >
	Addressing:	None
	Description:	DS1 AID for slot Number 2, identifies one of the potential seven DS1s that are assigned to the F3. Named values are:
	RMV	Remove DS1. DS1 currently assigned to the F3 in this slot is to be removed.
	Restrictions:	The command will be denied if the value given for T1N2 is not a DS1 within the same DS3 as the F3 identified in the AID parameter, or has not been provisioned. It will also be denied if T1N2 identifies a DS1 that is provisioned to have a framing format different than that given in FMT. If an attempt is made to assign a DS1 value to T1N2 but T1N2 has a previously assigned DS1 value in place, the command shall be denied (the previous value must first be removed).
T1N3=	{<DS1_AID>, RMV}	
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)
	Default:	< Previously existing value >
	Addressing:	None
	Description:	DS1 AID for slot Number 3, identifies one of the potential seven DS1s that are assigned to the F3. Named values are:
	RMV	Remove DS1. DS1 currently assigned to the F3 in this slot is to be removed.
	Restrictions:	The command will be denied if the value given for T1N3 is not a DS1 within the same DS3 as the F3 identified in the AID parameter, or has not been provisioned. It will also be denied if T1N3 identifies a DS1 that is provisioned to have a framing format different than that given in FMT. If an attempt is made to assign a DS1 value to T1N3 but T1N3 has a previously assigned DS1 value in place, the command shall be denied (the previous value must first be removed).

T1N4=	<div>{<DS1_AID>, RMV} {T3T1-{1-4800}-{1-28}} (T3T1-DS3#-DS1#) Default: < Previously existing value > Addressing: None Description: DS1 AID for slot Number 4, identifies one of the potential seven DS1s that are assigned to the F3. Named values are: RMV Remove DS1. DS1 currently assigned to the F3 in this slot is to be removed. Restrictions: The command will be denied if the value given for T1N4 is not a DS1 within the same DS3 as the F3 identified in the AID parameter, or has not been provisioned. It will also be denied if T1N4 identifies a DS1 that is provisioned to have a framing format different than that given in FMT. If an attempt is made to assign a DS1 value to T1N4 but T1N4 has a previously assigned DS1 value in place, the command shall be denied (the previous value must first be removed).</div>
T1N5=	<div>{<DS1_AID>, RMV} {T3T1-{1-4800}-{1-28}} (T3T1-DS3#-DS1#) Default: < Previously existing value > Addressing: None Description: DS1 AID for slot Number 5, identifies one of the potential seven DS1s that are assigned to the F3. Named values are: RMV Remove DS1. DS1 currently assigned to the F3 in this slot is to be removed. Restrictions: The command will be denied if the value given for T1N5 is not a DS1 within the same DS3 as the F3 identified in the AID parameter, or has not been provisioned. It will also be denied if T1N5 identifies a DS1 that is provisioned to have a framing format different than that given in FMT. If an attempt is made to assign a DS1 value to T1N5 but T1N5 has a previously assigned DS1 value in place, the command shall be denied (the previous value must first be removed).</div>
T1N6=	<div>{<DS1_AID>, RMV} {T3T1-{1-4800}-{1-28}} (T3T1-DS3#-DS1#) Default: < Previously existing value > Addressing: None Description: DS1 AID for slot Number 6, identifies one of the potential seven DS1s that are assigned to the F3. Named values are: RMV Remove DS1. DS1 currently assigned to the F3 in this slot is to be removed. Restrictions: The command will be denied if the value given for T1N6 is not a DS1 within the same DS3 as the F3 identified in the AID parameter, or has not been provisioned. It will also be denied if T1N6 identifies a DS1 that is provisioned to have a framing format different than that given in FMT. If an attempt is made to assign a DS1 value to T1N6 but T1N6 has a previously assigned DS1 value in place, the command shall be denied (the previous value must first be removed).</div>

T1N7=	{<DS1_AID>, RMV} {T3T1-{1-4800}-{1-28}} Default: < Previously existing value > Addressing: None Description: DS1 AID for slot Number 7, identifies one of the potential seven DS1s that are assigned to the F3. Named values are: RMV Remove DS1. DS1 currently assigned to the F3 in this slot is to be removed. Restrictions: The command will be denied if the value given for T1N7 is not a DS1 within the same DS3 as the F3 identified in the AID parameter, or has not been provisioned. It will also be denied if T1N7 identifies a DS1 that is provisioned to have a framing format different than that given in FMT. If an attempt is made to assign a DS1 value to T1N7 but T1N7 has a previously assigned DS1 value in place, the command shall be denied (the previous value must first be removed).	(T3T1-DS3#-DS1#)
PST	{IS} Default: < Previously existing value > Addressing: None Description: Primary State. Indicates the current primary state of the DS3. Refer to Appendix G, State Transitions. Values are: IS In-Service	

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid /* T1 is not in partition for this user. */
IIAC	Input, Invalid ACcess identifier
SDBE	Status, internal Data Base Error /* TP Database Error: <ERROR-STRING> for <AID-STRING> */
SNVS	Status, Not in Valid State
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, F3 #1 in electrical DS3 T3-5 has already been provisioned with a FMT of ESF and has the three DS1s T3T1-5-3, T3T1-5-7, and T3T1-5-8 assigned to the F3 slot numbers 1, 2, and 5 respectively. The F3's T1 slot numbers 3, 4, 6, and 7 are unused.

In this example, DS1 T3T1-5-4 is added to slot 3 and DS1 T3T1-5-8 is removed from slot 5. DS1 T3T1-5-4 has already been provisioned with a framing format value of ESF.

```
ED-F3::T3F3-5-1:::T1N3=T3T1-5-4,T1N5=RMV;
```

The output response, shown below, assumes CID 3 was used to enter the command and a system generated CTAG value of Pfc519. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M Pfc519 COMPLD  
/* ED-F3::T3F3-5-1:::T1N3=T3T1-5-4,T1N5=RMV [Pfc519] (3) */  
;
```

RELATED COMMANDS

```
DLT-F3  
DLT-T1  
DLT-T3  
ED-PARTITN-F3  
ED-T1  
ED-T3  
ENT-F3  
ENT-T1  
ENT-T3  
INIT-REG-F3  
RTRV-F3  
RTRV-PM-F3  
RTRV-PMODE-F3  
RTRV-T1  
SET-PMODE-F3
```


COMMAND CODE: **ED-FFP-OC12**
COMMAND NAME: **EDIT FAST FACILITY PROTECTION
OC-12**

PURPOSE

The ED-FFP-OC12 command modifies a facility protection group for OC-12. It associates a protecting (alternate) OC-12 with a protected (main/preferred) OC-12. It also provides for modifying the wait to restore time (WTR) associated with this protection group and changing the attributes of the facility protection group.

If ED-FFP-OC12 is issued while a WTR is already in progress, the currently in-progress WTR time is not affected. Only the WTR times of subsequent protection switching are affected.

An ED-FFP-OC12 command is denied if:

- The OC-12 specified in B1 and B2 parameters do not refer to working and protection OC-12, respectively.
- The OC-12 AIDs specified in B1 and B2 are not already defined as part of a protection group using ENT-FFP-OC12.
- The command is issued to modify the WTRTIME while RVRTV is set to N, by earlier use of ENT-FFP-OC12.
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

ED-FFP-OC12 : [TID] : B1 , B2 : [CTAG] : : : [K2GEN=] [, PSDIRN=] [, RVRTV=] [, WTRTIME=] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
B1	OC12_AID: {OC12-{1-560}} (OC12-OC12#) Default: Entry Required Addressing: None Description: OC12 AID, identifies the protected (working) OC-12 port. Restrictions: ED-FFP-OC12 is denied if the OC-12 specified is not an odd-numbered OC-12.
B2	OC12_AID: {OC12-{1-560}} (OC12-OC12#) Default: Entry Required Addressing: None Description: OC12 AID, identifies the protecting (protection) OC-12 port. Restrictions: ED-FFP-OC12 is denied if the OC-12 specified is not an even-numbered OC-12. ED-FFP-OC12 is denied if B2 is not equal to B1+1.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

K2GEN=	{PROP, STAN}	
	Default:	<Previously Existing Value>
	Addressing:	None
	Description:	K2 bits 1–4 Generation. Defines how the K2 bits 1 through 4 are generated. Values are:
	STAN	Standard way. The K2 bits 1–4 will be generated according to Bell-core standards.
	PROP	Proprietary non-standard way. This value is only valid if PSDIRN=UNI and RVRTV=N. In this case, the outgoing K2 bits 1–4 are set to equal the outgoing K1 bits 5 through 8.
	Restrictions:	ED–FFP–OC12 is denied if K2GEN of PROP is entered and PSDIRN and RVRTV are not specified (or defaulted to) as UNI and N, respectively.
PSDIRN=	{UNI}	
	Default:	<Previously Existing Value>
	Addressing:	None
	Description:	Direction of Protection Switching. Indicates the direction of the protection switch operation. Values are:
	UNI	Unidirectional protection switching.
RVRTV=	{N, Y}	
	Default:	<Previously Existing Value>
	Addressing:	None
	Description:	Revertive or non-revertive protection switching. Indicates whether the protection switching is revertive or not. Values are:
	N	No, indicates the protection switching is non-revertive.
	Y	Yes, indicates the protection switching is revertive.
WTRTIME=	{5–12}	
	Default:	<Previously Existing Value>
	Addressing:	None
	Description:	Wait to Restore Time. Determines the wait to restore time that is used by the revertive line protection switching group. This parameter is only valid when revertive switching is selected. Values are:
	5–12	An integer value in minutes between 5 and 12.
	Restrictions:	ED–FFP–OC12 is denied if a value is entered for WTRTIME and RVRTV has been set to N by a prior ENT–FFP–OC12 command.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  /* <Free Form Informational Text> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```


ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

SDBE Status, internal Data Base Error
 /* TP Database Error: <ERROR-STRING> for <AID STRING> */
 /* FFP Database Error: <ERROR-STRING> */

EXAMPLES

In the following example, the WTR time is updated to a value of 10 minutes and the K2 generation is updated to the STAN value for OC-12 ports OC12-14 (protection line) and OC12-13 (working line).

```
ED-FFP-OC12::OC12-13,OC12-14:::PSDIRN=UNI,WTRTIME=10;
```

RELATED COMMANDS

DLT-FFP-OC12
DLT-OC12
ENT-FFP-OC12
ENT-OC12
RTRV-FFP-OC12

COMMAND CODE: **ED-FFP-OC3**
COMMAND NAME: **EDIT FAST FACILITY PROTECTION OC3**

PURPOSE

The ED-FFP-OC3 command modifies a facility protection group for OC-3. It associates a protecting (alternate) OC-3 with a protected (main/preferred) OC-3. It also provides for modifying the wait to restore time associated with this protection group and changing the attributes of the facility protection group.

If ED-FFP-OC3 is issued while a wait to restore (WTR) time is already in progress, the currently in-progress WTR time is not affected. Only the WTR times of subsequent protection switching are affected.

An ED-FFP-OC3 command is denied if:

- The OC-3 specified in B1 and B2 parameters do not refer to working and protection OC-3 respectively.
- The OC-3 AIDs specified in B1 and B2 are not already defined as part of a protection group by the ENT-FFP-OC3 command.
- The command is issued to modify the WTRTIME while RVRTV is set to N, by means of an earlier ENT-FFP-OC3 command.
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

ED-FFP-OC3 : [TID] : B1 , B2 : [CTAG] : : : [K2GEN=] [, PSDIRN=] [, RVRTV=] [, WTRTIME=] ;

INPUT PARAMETERS

TID	<p>< 1-20 VALID TID CHARACTERS ></p> <p>Default: <SID></p> <p>Addressing: None</p> <p>Description: Target Identifier, specifies the network node TID for the command.</p>
B1	<p>OC3_AID:</p> <p>{OC3-{1-2240}} (OC3-OC3#)</p> <p>Default: Entry Required</p> <p>Addressing: None</p> <p>Description: OC3 AID, identifies the protected (working) OC-3 port.</p> <p>Restrictions: ED-FFP-OC3 is denied if the OC-3 specified is not an odd-numbered OC-3.</p>
B2	<p>OC3_AID:</p> <p>{OC3-{1-2240}} (OC3-OC3#)</p> <p>Default: Entry Required</p> <p>Addressing: None</p> <p>Description: OC3 AID, identifies the protecting (protection) OC-3 port.</p> <p>Restrictions: ED-FFP-OC3 is denied if the OC-3 specified is not an even-numbered OC-3. ED-FFP-OC3 is denied if B2 is not equal to B1+1.</p>
CTAG	<p>< 1-6 VALID CTAG CHARACTERS ></p> <p>Default: < System assigned CTAG value ></p> <p>Addressing: None</p> <p>Description: Correlation Tag, associates input command with its output responses.</p>

K2GEN=	{PROP, STAN}	
	Default:	<Previously Existing Value>
	Addressing:	None
	Description:	K2 bits 1–4 Generation. Defines how the K2 bits 1 through 4 are generated. Values are:
	STAN	Standard way. The K2 bits 1–4 will be generated according to Bell-core standards.
	PROP	Proprietary non–standard way. This value is only valid if PSDIRN=UNI and RVRTV=N. In this case, the outgoing K2 bits 1–4 are set to equal the outgoing K1 bits 5 through 8.
	Restrictions:	ED–FFP–OC3 is denied if K2GEN of PROP is entered and PSDIRN and RVRTV are not specified (or defaulted to) as UNI and N, respectively.
PSDIRN=	{UNI}	
	Default:	<Previously Existing Value>
	Addressing:	None
	Description:	Direction of Protection Switching. Indicates the direction of the protection switch operation. Values are:
	UNI	Unidirectional protection switching.
RVRTV=	{N, Y}	
	Default:	<Previously Existing Value>
	Addressing:	None
	Description:	Revertive or non–revertive protection switching. Indicates whether the protection switching is revertive or not. Values are:
	N	No, indicates the protection switching is non–revertive.
	Y	Yes, indicates the protection switching is revertive.
WTRTIME=	{5–12}	
	Default:	<Previously Existing Value>
	Addressing:	None
	Description:	Wait to Restore Time. Determines the wait to restore time that is used by the revertive line protection switching group. This parameter is only valid when revertive switching is selected. Values are:
	5–12	An integer value in minutes between 5 and 12.
	Restrictions:	ED–FFP–OC3 is denied if a value is entered for WTRTIME when RVTRV has been set to N using a prior ENT–FFP–OC3 command.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  /* <Free Form Informational Text> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

SDBE Status, internal Data Base Error
 /* TP Database Error: <ERROR-STRING> for <AID STRING> */
 /* FFP Database Error: <ERROR-STRING> */

EXAMPLES

In the following example, the WTR time is updated to a value of 10 minutes and the K2 generation is updated to the STAN value for OC-3 ports OC3-14 (protection line) and OC3-13 (working line).

```
ED-FFP-OC3::OC3-13,OC3-14:::PSDIRN=UNI,WTRTIME=10;
```

RELATED COMMANDS

DLT-FFP-OC3
DLT-OC3
ENT-FFP-OC3
ENT-OC3
RTRV-FFP-OC3

COMMAND CODE: **ED-FFP-STs1**
COMMAND NAME: **EDIT FAST FACILITY PROTECTION STS-1**

PURPOSE

The ED-FFP-STs1 command modifies the attributes of a ring facility protection group for STS-1. It also provides for changing the attributes of the facility protection group. This command modifies the Excessive Bit Error Rate, Working/Protect, Path Defect Indication Detection, Revertive/Non-revertive, Signal Degrade Threshold Switching level, and Wait to Restore Time options.

An ED-FFP-STs1 command is denied if:

- The STS-1 AIDs specified in fields B1 and B2 are not already defined as part of a Two-Way Path Ring (2WAYPR) or Two-Way Drop and Continue (2WAYDC) cross-connect.
- PROTN=P is specified when the STS-1 specified in B1 is a Protect STS-1.
- PROTN=W is specified when the STS-1 specified in B1 is not a Protect STS-1.
- RTRV=Y or RTRV=N is specified for an existing cross-connection type that is not 2WAYPR or 2WAYDC.
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

ED-FFP-STs1 : [TID] : B1, B2 : [CTAG] : : : [EBER=] [, PROTN=] [, PDIDET=] [, RVRTV=]
[, SDTHSW=] [, WTRTIME=] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >		
	Default:	<SID>	
	Addressing:	None	
	Description:	Target Identifier, specifies the network node TID for the command.	
B1	STS1_AID:		
	{OC3STS1-{1-2240}-{1-3}}	(OC3STS1-OC3#-STS1#)	
	{OC12STS1-{1-560}-{1-4}-{1-3}}	(OC12STS1-OC12#-STM1#-STS1#)	
	Default:	Entry Required	
	Addressing:	None	
	Description:	STS1 AID, identifies the Working or Protect STS-1 port within a ring OC3 or OC12.	
	Restrictions:	ED-FFP-STS1 is denied if the STS-1 specified is not embedded within a ring OC3 or OC-12.	
B2	STS1_AID:		
	{OC3STS1-{1-2240}-{1-3}}	(OC3STS1-OC3#-STS1#)	
	{OC12STS1-{1-560}-{1-4}-{1-3}}	(OC12STS1-OC12#-STM1#-STS1#)	
	Default:	Entry Required	
	Addressing:	None	
	Description:	STS1 AID, identifies the other (Protect or working) STS-1 port within a ring OC3 or OC12.	
	Restrictions:	ED-FFP-STS1 is denied if the STS-1 specified is not embedded within a ring OC3 or OC-12.	
CTAG	< 1-6 VALID CTAG CHARACTERS >		
	Default:	< System assigned CTAG value >	
	Addressing:	None	
	Description:	Correlation Tag, associates input command with its output responses.	

EBER=	{3, 4, <NoVal>}
Default:	{Previously Existing Value}
Addressing:	None
Description:	STS–1 Excessive Bit Error Rate (BER) switching threshold. Determines the value corresponding to an Excessive BER condition. Values are:
3	BER threshold of $10E^{-3}$
4	BER threshold of $10E^{-4}$ (default when FFP was created)
<NoVal>	Previously Existing Value (subsequent default)
PROTN=	{P, W, <NoVal>}
Default:	{Previously Existing Value}
Addressing:	None
Description:	Working or Protect STS–1. Indicates whether the STS–1 specified in the B1 field is the Working or Protect STS–1:
P	Protect. If it is currently a Working STS–1, interchange Working and Protect STS–1s.
W	Working. If it is currently a Protect STS–1, interchange Working and Protect STS–1s.
<NoVal>	Previously Existing Value (subsequent default)
Restrictions:	If PROTN=P and it is currently a Protect STS1, command will be denied. If PROTN=W and it is currently a Working STS1, command will be denied.
PDIDET=	{Y, N, <NoVal>}
Default:	{Previously Existing Value} Initial default = Y
Addressing:	None
Description:	Path Defect Indication Detection. Used for path switching protection in a ring. Values are:
Y	PDI defects used for ring path protection switching (default when FFP was created)
N	PDI defects not used for ring path protection switching
<NoVal>	Previously Existing Value (subsequent default)
RVRTV=	{N, Y, <NoVal>}
Default:	{Previously Existing Value} Initial default = N
Addressing:	None
Description:	Revertive switching mode for FFP selector. Indicates whether the protection switching is revertive or not. Values are:
N	Non–revertive switching mode (default when FFP was created)
Y	Revertive switching mode
<NoVal>	Previously Existing Value (subsequent default)

SDTHSW=	{5, 6, 7, 8, 9, <NoVal>}
Default:	{Previously Existing Value} Factory default = 6
Addressing:	None
Description:	STS-1 Signal Degrade Threshold Switching level. Indicates the signal degrade threshold over which Signal Degrade protection switching is initiated. Values are:
5	BER threshold of 10E ⁻⁵
6	BER threshold of 10E ⁻⁶ (default when FFP was created)
7	BER threshold of 10E ⁻⁷
8	BER threshold of 10E ⁻⁸
9	BER threshold of 10E ⁻⁹
<NoVal>	Previously Existing Value (subsequent default)
WTRTIME=	{5-12, <NoVal>}
Default:	{Previously Existing Value} Factory default = 5 minutes
Addressing:	None
Description:	Wait to Restore Time. Determines the wait to restore time that is used by the revertive path level protection switching group. This parameter is only valid when revertive switching is selected. Values are:
5-12	An integer value in minutes between 5 and 12 (factory default to 5 when FFP was created)
<NoVal>	Previously Existing Value (subsequent default)

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  /* <Free Form Informational Text> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid
IIAC	Input, Invalid ACcess identifier
IPNC	Input, Parameter Not Consistent
SAPS	Status, Already in Protection State /*Already in protection state*/
SAWS	Status, Already in Working State /*Already in working state*/
SDBE	Status, internal Data Base Error /*TP Database Error: <ERROR-STRING> for <AID STRING>*/ /*RPP Database Error: <ERROR-STRING> */

SNVS Status, Not in Valid State
 /*Cannot specify RVRTV to be NO when not part of a 2WAYPR*/
 /*Protection Switch exists*/

EXAMPLES

In the following example, the EBER threshold is updated to a value of 10E-3 and the Signal Degrade threshold is updated to 10E-8 for STS-1 ports OC3STS1-14-1 and OC3STS1-13-1.

```
ED-FFP-STs1::OC3STS1-13-1,OC3STS1-14-1:::EBER=3,SDTHSW=8;
```

RELATED COMMANDS

DLT-STs1
ED-CRS-STs1
ED-CRS-T3
ENT-CRS-STs1
ENT-CRS-T3
ENT-STs1
RTRV-FFP-STs1

COMMAND CODE: **ED-FFP-VT1**
COMMAND NAME: **EDIT FAST FACILITY PROTECTION VT1**

PURPOSE

The ED-FFP-VT1 command modifies the attributes of a ring facility protection group for VT1.5. It also provides for changing the attributes of the facility protection group. This command modifies the Excessive Bit Error Rate, Working/Protect, Revertive/Non-revertive, Signal Degrade Threshold Switching level, and Wait to Restore Time options.

An ED-FFP-VT1 command is denied if:

- The VT1.5 AIDs specified in fields B1 and B2 are not already defined as part of a Two-Way Path Ring (2WAYPR) or Two-Way Drop and Continue (2WAYDC) cross-connect.
- PROTN=P is specified when the VT1.5 AID specified in B1 is a Protect VT1.
- PROTN=W is specified when the VT1.5 AID specified in B1 is not a Protect VT1.
- RVRTV=Y or RVRT=N is specified for an existing cross-connection type that is not 2WAYPR or 2WAYDC.
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

```
ED-FFP-VT1 : [TID] : B1, B2 : [CTAG] : : : [EBER=] [, PROTN=] [, RVRTV=] [, SDTHSW=]
            [, WTRTIME=] ;
```

INPUT PARAMETERS

TID	<p>< 1-20 VALID TID CHARACTERS ></p> <p>Default: <SID></p> <p>Addressing: None</p> <p>Description: Target Identifier, specifies the network node TID for the command.</p>
B1	<p>VT1_AID:</p> <p>{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}} (OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)</p> <p>{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}} (OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)</p> <p>Default: Entry Required</p> <p>Addressing: None</p> <p>Description: VT1.5 AID, identifies the Working or Protect VT1 port within a ring OC3 or OC12.</p> <p>Restrictions: ED-FFP-VT1 is denied if the VT1 specified is not embedded within a ring OC3 or OC-12.</p>
B2	<p>VT1_AID:</p> <p>{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}} (OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)</p> <p>{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}} (OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)</p> <p>Default: Entry Required</p> <p>Addressing: None</p> <p>Description: VT1.5 AID, identifies the other (Protect or working) VT1 port within a ring OC3 or OC12.</p> <p>Restrictions: ED-FFP-VT1 is denied if the VT1 specified is not embedded within a ring OC3 or OC-12.</p>
CTAG	<p>< 1-6 VALID CTAG CHARACTERS ></p> <p>Default: < System assigned CTAG value ></p> <p>Addressing: None</p> <p>Description: Correlation Tag, associates input command with its output responses.</p>

EBER=	{3, 4, <NoVal>}
Default:	{Previously Existing Value}
Addressing:	None
Description:	VT1.5 Excessive Bit Error Rate (BER) switching threshold. Determines the value corresponding to an Excessive BER condition. Values are:
3	BER threshold of $10E^{-3}$
4	BER threshold of $10E^{-4}$ (default when FFP was created)
<NoVal>	Previously Existing Value (subsequent default)
PROTN=	{P, W, <NoVal>}
Default:	{Previously Existing Value}
Addressing:	None
Description:	Working or Protect VT1. Indicates whether the VT1 specified in the B1 field is the Working or Protect VT1:
P	Protect. If it is currently a Working VT1, interchange Working and Protect VT1s.
W	Working. If it is currently a Protect VT1, interchange Working and Protect VT1s.
<NoVal>	Previously Existing Value (subsequent default)
RVRTV=	{N, Y, <NoVal>}
Default:	{Previously Existing Value} Initial default = N
Addressing:	None
Description:	Revertive switching mode for FFP selector. Indicates whether the protection switching is revertive or not. Values are:
N	Non-revertive switching mode (default when FFP was created)
Y	Revertive switching mode
<NoVal>	Previously Existing Value (subsequent default)
SDTHSW=	{5, 6, 7, 8, 9, <NoVal>}
Default:	{Previously Existing Value} Factory default = 6
Addressing:	None
Description:	VT1.5 Signal Degrade Threshold Switching level. Indicates the signal degrade threshold over which Signal Degrade protection switching is initiated. Values are:
5	BER threshold of $10E^{-5}$
6	BER threshold of $10E^{-6}$ (default when FFP was created)
7	BER threshold of $10E^{-7}$
8	BER threshold of $10E^{-8}$
9	BER threshold of $10E^{-9}$
<NoVal>	Previously Existing Value (subsequent default)
WTRTIME=	{5–12, <NoVal>}
Default:	{Previously Existing Value} Factory default = 5 minutes
Addressing:	None
Description:	Wait to Restore Time. Determines the wait to restore time that is used by the revertive path level protection switching group. This parameter is only valid when revertive switching is selected. Values are:
5–12	An integer value in minutes between 5 and 12 (factory default to 5 when FFP was created)
<NoVal>	Previously Existing Value (subsequent default)

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  /* <Free Form Informational Text> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid
IIAC	Input, Invalid ACcess identifier
IPNC	Input, Parameter Not Consistent
SAPS	Status, Already in Protection State /* Already in protection state*/
SAWS	Status, Already in Working State /*Already in working state */
SDBE	Status, internal Data Base Error /*TP Database Error: <ERROR-STRING> for <AID STRING> */ /* RPP Database Error: <ERROR-STRING> */
SNVS	Status, Not in Valid State /*Cannot specify RVRTV to be NO when not part of a 2WAYPR */ /*Protection Switch exists */

EXAMPLES

In the following example, the EBER threshold is updated to a value of 10E-3 and the Signal Degrade threshold is updated to 10E-8 for VT1.5 ports OC3VT1-22-3-1-4 and OC3VT1-21-3-1-4.

```
ED-FFP-VT1::OC3VT1-21-3-1-4,OC3VT1-22-3-1-4:::EBER=3,SDTHSW=8;
```

RELATED COMMANDS

DLT-VT1

ED-CRS-T1

ED-CRS-VT1

ENT-CRS-T1

ENT-CRS-VT1

ENT-VT1

RTRV-FFP-VT1

COMMAND CODE: **ED-FLTPRO-STS1**
COMMAND NAME: **EDIT FAULT PROPAGATION STS-1**

PURPOSE

The ED-FLTPRO-STS1 command modifies the fault escalation parameter values for provisioned STS-1 ports. Fault Escalation consists of two distinct provisioned capabilities, Failure Detection and Fault Propagation (described below). The ED-FLTPRO-rr commands enable and disable these capabilities on a per port basis.

The ED-FLTPRO-STS1 command is allowed on an STS-1, on any of its constituents, or on any containing facility port, which is under loopback. However the fault propagation feature will be disabled for the duration of the loopback. See OPR-LPBK-STS1 for further details.

When a port's Failure Detection (FAILDET parameter) is enabled, the *incoming* side of the specified port is monitored for failures. If FAILDET is enabled and a failure is detected, all of the incoming bandwidth on the port is *marked* with an *Escalation Request* (internal to the system.) Therefore, regardless of how an incoming port's data is cross-connected through the system, all *outgoing* ports receiving data from the failed incoming port also receive an *Escalation Request*.

When a port's Fault Propagation (FLTPRO parameter) is enabled, the *outgoing* side of the specified port is monitored to determine if any of the bandwidth in the port's outgoing signal is marked with an *Escalation Request*. If an *Escalation Request* exists, the outgoing port marks its *entire* output as failed by setting AIS-P in the output signal or by inserting PDI values in the outgoing C2 byte, depending on the STS-1 parameter PDIINS.

When a port is initially provisioned via the ENT-STS1 command, the fault propagation parameters (FAILDET and FLTPRO) are initially disabled by default. The ED-FLTPRO-STS1 command is used to enable these parameters on a per-port basis. If the port is deleted via a DLT-STS1 command and then reprovisioned, all previous fault propagation provisioning made by the ED-FLTPRO-STS1 command is lost.

When Fault Escalation occurs, the entire output path's data is lost, even if only part of the output signal originally contained failed data (this is intended since it is the method used to cause the network to protection switch to a redundant path). Note that the use of *path level* Failure Detection (as opposed to section/line Failure Detection) can result in fault propagation in *both* of the redundant network paths, along with all of the other good traffic grouped with them, if the network has not been specifically configured for its use.

An ED-FLTPRO-STS1 command is denied if:

- The specified STS-1 has not previously been provisioned with the ENT-STS1 command.
- The specified STS-1, or any embedded constituent port, or any containing port is under test access.
- The specified STS-1 port is under a loopback.
- The "Fault Escalation" PFO is not enabled.
- An invalid parameter value is entered.

INPUT FORMAT

ED-FLTPRO-STS1: [TID] :AID: [CTAG] : : : [CMDMDE=] [, FAILDET=] [, FLTPRO=] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >	
	Default:	<SID>
	Addressing:	None
	Description:	Target Identifier, specifies the network node TID for the command.
AID	STS1_AID:	
	{EC1STS1-{1-3840}}	(EC1STS1-EC1/STS1#)
	{OC3STS1-{1-2240}-{1-3}}	(OC3STS1-OC3#-STS1#)
	{OC12STS1-{1-560}-{1-4}-{1-3}}	(OC12STS1-OC12#-STM1#-STS1#)
	Default:	Entry Required
	Addressing:	&&-ranging and &-grouping
	Description:	STS1 AID, identifies the STS-1 port.

CTAG	< 1–6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
CMDMDE=	{FRCD, NORM} Default: {NORM} Addressing: None Description: Command Execution Mode. Values are: FRCD Forced. The command is accepted and parameter values are modified even if the STS1 or one of its constituents is cross-connected. NORM Normal. The command is denied if the STS1 or any of its constituents are cross-connected.
FAILDET=	{NONE, SL, SLP} Default: <Previously existing value> or {NONE} (Factory Default) Addressing: None Description: Failure Detection (receive direction only), specifies the type of incoming STS1 failures (on EC1, OC–3 or OC–12 facilities) which result in an <i>Escalation Request</i> being issued to all outgoing ports receiving any bandwidth from this STS1 (i.e., are cross-connected to it). Values are: NONE None, no detection of STS1 level failure conditions. SL Section/Line, specifies section and line level failure detection (LOS, LOF, AIS–L, EBER, or LOP–P) is enabled. SLP Section/Line/Path, specifies section, line, and path level failure detection (LOS, LOF, AIS–L, EBER, LOP–P, or AIS–P) is enabled.
FLTPRO=	{N, Y} Default: <Previously existing value> or {N} (Factory Default) Addressing: None Description: Fault Propagation (transmit direction only), specifies whether or not any <i>Escalation Request</i> that is present for any incoming (i.e., from the matrix) constituent of the outgoing STS1 is escalated up to the STS1 Path level (i.e., AIS–P or PDI C2 byte values inserted in the output signal, depending on the STS1 parameter PDIINS). Values are: N No, Fault Escalation to the STS1 Path level is disabled. Y Yes, Fault Escalation to the STS1 Path level is enabled. Upon this setting, faults will be escalated to STS1 path level as either AIS–P or PDI depending on the value of the PDIINS (Payload Defect Indication INSection) parameter.

The interaction between FLTPRO in this command and the PDIINS in the ED–STS1 command is defined in the following table.

PDIINS = in ED–STS1 command	FLTPRO = in ED–FLTPRO–STS1	
	Y	N
Y	Fault escalation is based on selected incoming faults as defined in the Fault Propagation feature and APDI is inserted in the outgoing C2 byte.	Fault escalation is based on conditions defined in GR–253 and PDI is inserted in the outgoing C2 byte.
N	is based on selected incoming faults as defined in the Fault Propagation feature and AIS–P is inserted in the outgoing STS1.	No fault escalation (i.e., None of the PDI, APDI or AIS–P is inserted).

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  /* <Free Form Informational Text> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
IPNV	Input, Parameter Not Valid
SDBE	Status, internal Data Base Error
	/* TP Database Error: <ERROR-STRING> for <AID-STRING> */
SNVS	Status, Not in Valid State
	/* To edit non-idle in-service port, set CMDMDE=FRCD */
SRQN	Status, invalid ReQuest

EXAMPLES

In the following example, STS-1 port EC1STS1-24 is provisioned so that any incoming section or line failure on the STS-1 causes an *Escalation Request* to be generated to any outgoing port(s) to which it or any of its bandwidth may be cross-connected.

```
ED-FLTPRO-STs1::EC1STS1-24:::::FAILDET=SL;
```

In the following example, STS-1 port OC3STS1-15-1 is provisioned so that any incoming failure on the OC-3 facility, or any failure on the upstream facility which transports the STS-1 signal, causes an *Escalation Request* to be generated to any outgoing port(s) to which it or any of its bandwidth may be cross-connected.

```
ED-FLTPRO-STs1::OC3STS1-15-1:::::FAILDET=SLP;
```

In the following example, STS-1 port OC3STS1-12-2 (with input parameter PDIINS=N) is provisioned to generate AIS-P in the outgoing STS-1 signal if an *Escalation Request* is detected on any of its bandwidth from the matrix.

```
ED-FLTPRO-STs1::OC3STS1-12-2:::::FLTPRO=Y;
```

RELATED COMMANDS

```
ED-FLTPRO-T1
ED-FLTPRO-T3
ED-FLTPRO-VT1
ED-STs1
ENT-STs1
RTRV-FLTPRO-STs1
RTRV-FLTPRO-T1
RTRV-FLTPRO-T3
```

3AL45392AJ

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RTRV-FLTPRO-VT1

RTRV-STS1

COMMAND CODE: **ED-FLTPRO-T1**
COMMAND NAME: **EDIT FAULT PROPAGATION T1**

PURPOSE

The ED-FLTPRO-T1 command modifies the failure detection parameter values for provisioned DS1 ports. The command is allowed on a facility port, or on one that is contained by a port, which is under loopback. However the fault propagation feature will be disabled for the duration of the loopback. See OPR-LPBK-T1 for further details.

The ED-FLTPRO-T1 command is allowed on a facility port, or on one that is contained by a port, which is under loopback. However the fault propagation feature will be disabled for the duration of the loopback. See OPR-LPBK-T1 for further details.

Fault propagation/escalation of faults to the DS1 level is not possible, since the system does not cross-connect DS1 constituent signals. Therefore, the ED-FLTPRO-T1 command only supports the Failure Detection capability. (Fault Propagation provisioning is not required in the ED-FLTPRO-T1 command.)

When a port is initially provisioned via the ENT-T1 command, the fault propagation parameter (FAILDET) is initially disabled as a default. The ED-FLTPRO-T1 command is used to enable this parameter on a per port basis. If the port is deleted via a DLT-T1 command and then re-provisioned, all previous fault propagation provisioning made by the ED-FLTPRO-T1 command is lost.

An ED-FLTPRO-T1 command is denied if:

- The specified DS1 has not previously been provisioned with the ENT-T1 command.
- The specified DS1 is not a physical (electrical) DS1 port.
- The specified DS1 or any containing port is under test access.
- The specified DS1 (and associated cross-connection) is in a terminate-and-leave status (a cross-connection SST of {TERMB, TERMB, TERMT}).
- The specified DS1 port is under a loopback.
- The "Fault Escalation" PFO is not enabled.
- An invalid parameter value is entered.

INPUT FORMAT

ED-FLTPRO-T1 : [TID] : AID : [CTAG] : : : [CMDMDE=] [, FAILDET=] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	DS1_AID: {T1-{1-59392}} (T1-DS1#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: DS1 AID, identifies the DS1 port. Restrictions: ED-FLTPRO-T1 is denied if the specified AID is not a physical (electrical) DS1 port.
CTAG	<1-6 VALID CTAG CHARACTERS> Default: <System Assigned CTAG Value> Addressing: None Description: Correlation Tag, associates input command with its output responses.

CMDMDE=	{FRCD, NORM}	
	Default:	{NORM}
	Addressing:	None
	Description:	Command Execution Mode. Values are:
	FRCD	Forced. The command is accepted and parameter values are modified even if the DS1 is cross-connected.
	NORM	Normal. The command is denied if the DS1 is cross-connected.
FAILDET=	{NONE, SL, SLP}	
	Default:	<Previously existing value> or {NONE} (Factory Default)
	Addressing:	None
	Description:	Failure Detection (receive direction only), specifies the type of incoming DS1 failures which result in an <i>Escalation Request</i> being issued to all outgoing ports receiving any bandwidth from this DS1 (i.e., are cross-connected to it). Values are:
	NONE	None, no detection of DS1 level failure conditions.
	SL	Section/Line, specifies section and line level failure detection (LOS or LOF) is enabled.
	SLP	Section/Line/Path, specifies section, line, and path level failure detection (LOS, LOF, or AIS) is enabled.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  /* <Free Form Informational Text> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
IPNV	Input, Parameter Not Valid
SDBE	Status, internal Data Base Error
	/* TP Database Error: <ERROR-STRING> for <AID-STRING> */
	/* CONN Database Error: <ERROR-STRING> for <AID-STRING> */
SNVS	Status, Not in Valid State
	/* To edit a connected port, set CMDMDE=FRCD */
SRQN	Status, invalid ReQuest

EXAMPLES

In the following example, DS1 port T1-59 is provisioned so that any incoming failure on the electrical DS1 causes an *Escalation Request* to be generated to any outgoing port(s) to which it may be cross-connected.

```
ED-FLTPRO-T1::T1-59:::FAILDET=SL;
```

In the following example, DS1 port T1–15 is provisioned so that any incoming failure on the DS1, or any failure on the upstream facility which transports the DS1 signal, causes an *Escalation Request* to be generated to any outgoing port(s) to which it may be cross-connected.

```
ED-FLTPRO-T1::T1-15::::FAILDET=SLP;
```

RELATED COMMANDS

```
ED-FLTPRO-STs1  
ED-FLTPRO-T3  
ED-FLTPRO-VT1  
ENT-T1  
RTRV-FLTPRO-STs1  
RTRV-FLTPRO-T1  
RTRV-FLTPRO-T3  
RTRV-FLTPRO-VT1
```


COMMAND CODE: **ED-FLTPRO-T3**
COMMAND NAME: **EDIT FAULT PROPAGATION T3**

PURPOSE

The ED-FLTPRO-T3 command modifies the fault escalation parameter values for provisioned DS3 ports. Fault Escalation consists of two distinct provisioned capabilities, Failure Detection and Fault Propagation (described below). The ED-FLTPRO-rr commands enable and disable these capabilities on a per port basis.

The ED-FLTPRO-T3 command is allowed on a DS3, on any of its constituents, or on any containing facility ports, which are under loopback. However the fault propagation feature will be disabled for the duration of the loopback. See OPR-LPBK-T3 for further details.

When a port's Failure Detection (FAILDET parameter) is enabled, the *incoming* side of the specified port is monitored for failures. If FAILDET is enabled and a failure is detected, all of the incoming bandwidth on the port is *marked* with an *Escalation Request* (internal to the system.) Therefore, regardless of how an incoming port's data is cross-connected through the system, all *outgoing* ports receiving data from the failed incoming port also receive an *Escalation Request*.

Note that Failure Detection is only supported on physical (electrical) DS3s. The ED-FLTPRO-T3 command cannot be used to enable Failure Detection on DS3s embedded within STS-1s.

When a port's Fault Propagation (FLTPRO parameter) is enabled, the *outgoing* side of the specified port is monitored to determine if any of the bandwidth in the port's outgoing signal is marked with an *Escalation Request*. If an *Escalation Request* exists, the outgoing port marks its *entire* output as failed, by removing the DS3 output signal or by setting the DS3 output signal to AIS.

Note that current hardware does not support escalation to the DS3 level for DS3s embedded within STS-1s. If it is necessary to have such a capability, it is suggested that faults be escalated to the higher STS-1 level for the STS-1 that contains the DS3 in question (refer to the ED-FLTPRO-STS1 command).

When a port is initially provisioned via the ENT-T3 command, the fault propagation parameters (FAILDET and FLTPRO) are initially disabled as a default. The ED-FLTPRO-T3 command is used to enable these parameters on a per port basis. If the port is deleted via a DLT-T3 command and then re-provisioned, all previous fault propagation provisioning made by the ED-FLTPRO-T3 command is lost.

Note that for an electrical DS3 terminated on a DS3 Quad shelf, the FLTPRO parameter has no effect, even if provisioned to a value of Y, unless both HMU circuit packs are installed and operating in the Quad (i.e., a redundant pair of HUMs are required in order to remove the DS3 signal from being output).

When Fault Escalation occurs, the entire output path's data is lost, even if only part of the output signal originally contained failed data (this is intended since it is the method used to cause the network to protection switch to a redundant path). Note that the use of *path level* Failure Detection (as opposed to section/line Failure Detection) can result in fault propagation in *both* of the redundant network paths, along with all of the other good traffic grouped with them, if the network has not been specifically configured for its use.

An ED-FLTPRO-T3 command is denied if:

- The specified DS3 has not previously been provisioned with the ENT-T3 command.
- The specified DS3, or an embedded constituent port is under test access.
- The specified DS3 port is under a loopback.
- The "Fault Escalation" PFO is not enabled.
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

ED-FLTPRO-T3 : [TID] : AID : [CTAG] : : : [CMDMDE=] [, FAILDET=] [, FLTPRO=] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >
Default:	<SID>
Addressing:	None
Description:	Target Identifier, specifies the network node TID for the command.

AID	DS3_AID:	
	{T3-{1-4800}}	(T3-DS3#)
	{EC1T3-{1-3840}}	(EC1T3-EC1/STS1/DS3#)
	{OC3T3-{1-2240}-{1-3}}	(OC3T3-OC3#-STS1/DS3#)
	{OC12T3-{1-560}-{1-4}-{1-3}}	(OC12T3-OC12#-STM1#-STS1/DS3#)
	Default: Entry Required	
CTAG	Addressing: &&-ranging and &-grouping	
	Description: DS3 AID, identifies the DS3 port.	
	Restrictions: ED-FLTPRO-T3 is denied if the specified AID is not a physical (electrical) DS3 and FAILDET of {SL, SLP} is entered.	
	ED-FLTPRO-T3 is denied if the specified AID is an STS-1 embedded DS3 and FLTPRO of {Y} is entered.	
CMDMDE=	< 1-6 VALID CTAG CHARACTERS >	
	Default: < System assigned CTAG value >	
	Addressing: None	
	Description: Correlation Tag, associates input command with its output responses.	
FAILDET=	{FRCD, NORM}	
	Default:	{NORM}
	Addressing:	None
	Description:	Command Execution Mode. Values are:
	FRCD	Forced. The command is accepted and parameter values are modified even if the DS3 or one of its constituents is cross-connected.
	NORM	Normal. The command is denied if the DS3 or any of its constituents are cross-connected.
FAILDET=	{NONE, SL, SLP}	
	Default:	<Previously existing value> or {NONE} (Factory Default)
	Addressing:	None
	Description:	Failure Detection (receive direction only), specifies the type of incoming DS3 failures which result in an <i>Escalation Request</i> being issued to all outgoing ports receiving any bandwidth from the DS3 (i.e., are cross-connected to it). Values are:
	NONE	None, no detection of DS3 level failure conditions.
	SL	Section/Line, specifies section and line level failure detection (LOS or LOF) is enabled.
	SLP	Section/Line/Path, specifies section, line, and path level failure detection (LOS, LOF, or AIS) is enabled.
	Restrictions:	ED-FLTPRO-T3 is denied if FAILDET of {SL, SLP} is entered and the specified AID is not a physical (electrical) DS3.

FLTPRO= {N, Y}

Default: <Previously existing value> or {N} (Factory Default)

Addressing: None

Description: Fault Propagation (transmit direction only). Determines whether or not *Escalation Requests* that are present for incoming (i.e., from the matrix) constituents of the outgoing DS3 will be escalated up to the DS3 Section level (i.e., output signal removed) for electrical DS3 ports terminated on a DS3 Quad shelf, or DS3 Path level (i.e., DS3 AIS inserted in the output signal) for DS3s not terminated on a DS3 Quad shelf.

Values are:

N No. Fault Escalation to the DS3 Path or Section level is disabled.

Y Yes, Fault Escalation to the DS3 Path or Section level is enabled.

Restrictions: ED-FLTPRO-T3 is denied if a value of FLTPRO=Y is entered and the specified AID is a DS3 embedded within an STS-1.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  /* <Free Form Informational Text> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC Input, Invalid ACcess identifier

IPNV Input, Parameter Not Valid

SDBE Status, internal Data Base Error

/* TP Database Error: <ERROR-STRING> for <AID-STRING> */

SNVS Status, Not in Valid State

/* To edit non-idle in-service port, set CMDMDE=FRCD */

SRQN Status, invalid ReQuest

EXAMPLES

In the following example, DS3 port T3–24 is provisioned so that any incoming failure on the physical (electrical) DS3 causes an *Escalation Request* to be generated to any outgoing port(s) to which it or any of its bandwidth may be cross-connected.

```
ED-FLTPRO-T3::T3-24::::FAILDET=SL;
```

In the following example, DS3 port T3–24 is provisioned so that any failure on the physical (electrical) DS3, or any failure on the upstream facility which transports the DS3 signal, causes an *Escalation Request* to be generated to any outgoing port(s) to which it or any of its bandwidth may be cross-connected.

```
ED-FLTPRO-T3::T3-24::::FAILDET=SLP;
```

In the following example, DS3 port OC3T3–16–3 (DS3 embedded in an STS–1 embedded in an OC–3) is provisioned to generate DS3 AIS in the outgoing DS3 signal if an *Escalation Request* is detected on any of its bandwidth from the matrix.

```
ED-FLTPRO-T3::OC3T3-16-3::::FLTPRO=Y;
```

Note however that current SONET I/O hardware does not yet support this capability and therefore, the command in the above example would typically be denied.

RELATED COMMANDS

```
ED-FLTPRO-STs1  
ED-FLTPRO-T1  
ED-FLTPRO-VT1  
ENT-T3  
RTRV-FLTPRO-STs1  
RTRV-FLTPRO-T1  
RTRV-FLTPRO-T3  
RTRV-FLTPRO-VT1
```

COMMAND CODE: **ED-FLTPRO-VT1**
COMMAND NAME: **EDIT FAULT PROPAGATION VT1**

PURPOSE

The ED-FLTPRO-VT1 command modifies the fault escalation parameter values for provisioned VT1 ports. It enables and disables fault escalation on a per port basis.

The ED-FLTPRO-VT1 command is allowed on a facility port, on any of its constituents, or on any containing facility port, which is under loopback. However the fault propagation feature will be disabled for the duration of the loopback. See OPR-LPBK-VT1 for further details.

When a port's Fault Propagation (FLTPRO parameter) is enabled, the *outgoing* side of the specified port is monitored to determine if any of the bandwidth in the port's outgoing signal is marked with an *Escalation Request*. If an *Escalation Request* exists, the outgoing port marks its *entire* output as failed, by setting the output signal to AIS.

When a port is initially provisioned via the ENT-VT1 command, the fault propagation parameter (FLTPRO) is initially disabled as a default. The ED-FLTPRO-VT1 command is used to enable this parameter on a per port basis. If the port is deleted via a DLT-VT1 command and then re-provisioned, all previous fault propagation provisioning made by the ED-FLTPRO-VT1 command is lost.

When Fault Escalation occurs, the entire output path's data is lost, even if only part of the output signal originally contained failed data (this is intended since it is the method used to cause the network to protection switch to a redundant path).

An ED-FLTPRO-VT1 command is denied if:

- The specified VT1 has not previously been provisioned with the ENT-VT1 command.
- The specified VT1, or any embedded constituent port, or any containing port is under test access.
- The specified VT1 (and associated cross-connection) is in a terminate-and-leave status (a cross-connection SST of {TERMB, TERMB, TERMT}).
- The specified VT1 port is under a loopback.
- The "Fault Escalation" PFO is not enabled.
- An invalid parameter value is entered.

INPUT FORMAT

ED-FLTPRO-VT1 : [TID] : AID : [CTAG] : : : [CMDMDE=] [, FLTPRO=] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	VT1_AID: {EC1VT1-{1-3840}-{1-7}-{1-4}} (EC1VT1-EC1/STS1#-VTGrp#-VT1.5#) {OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}} (OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#) {OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}} (OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: VT1 AID, identifies the VT1.5 port.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

CMDMDE=	{FRCD, NORM}	
	Default:	{NORM}
	Addressing:	None
	Description:	Command Execution Mode. Values are:
	FRCD	Forced. The command is accepted and parameter values are modified even if the VT1 or one of its constituents is cross-connected.
	NORM	Normal. The command is denied if the VT1 or any of its constituents are cross-connected.
FLTPRO=	{N, Y}	
	Default:	<Previously existing value> or {N} (Factory Default)
	Addressing:	None
	Description:	Fault Propagation (transmit direction only), specifies whether or not any <i>Escalation Request</i> that is present for any incoming (i.e., from the matrix) constituent of the outgoing VT1 is escalated up to the VT1 Path level (i.e., AIS-V inserted in the output signal). Values are:
	N	No. Fault Escalation to the VT1 Path level is disabled.
	Y	Yes, Fault Escalation to the VT1 Path level is enabled.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  /* <Free Form Informational Text> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
IPNV	Input, Parameter Not Valid
SDBE	Status, internal Data Base Error /* TP Database Error: <ERROR-STRING> for <AID-STRING> */ /* CONN Database Error: <ERROR-STRING> for <AID-STRING> */
SNVS	Status, Not in Valid State /* To edit non-idle in-service port, set CMDMDE=FRCD */
SRQN	Status, invalid ReQuest

EXAMPLES

In the following example, VT1 port OC3VT1-12-2-6-4 is provisioned to generate AIS-V in the outgoing VT1 signal if an *Escalation Request* is detected on any of its bandwidth from the matrix.

```
ED-FLTPRO-VT1::OC3VT1-12-2-6-4:::FLTPRO=Y;
```

RELATED COMMANDS

```
ED-FLTPRO-STs1  
ED-FLTPRO-T1  
ED-FLTPRO-T3  
ENT-VT1  
RTRV-FLTPRO-STs1  
RTRV-FLTPRO-T1  
RTRV-FLTPRO-T3  
RTRV-FLTPRO-VT1
```


COMMAND CODE: **ED-FTP-USER**
COMMAND NAME: **EDIT FTP USER**

PURPOSE

The ED-FTP-USER command allows modifying a FTP user profile in the FTP (File Transfer Protocol) User Security Database.

An ED-FTP-USER command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

ED-FTP-USER : [TID] : : [CTAG] : : FTPUID , ACCTYPE ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.						
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.						
FTPUID	<5-12 VALID FTPUID CHARACTERS> Default: Entry Required Addressing: None Description: FTP User Identifier, specifies a unique user ID. Valid values for FTPUID are 5 to 12, case-sensitive alphanumeric characters where the first character must always be an alphabetic character. The following special characters are also accepted as valid characters and will be part of the FTPUID: % (percent sign), + (plus sign), # (pound sign), and _ (under score). (Note that the dash (-) character is also accepted by the system, but only characters prior to the dash become part of the FTPUID. The dash (-) and characters after that are ignored by the system.)						
ACCTYPE	{BPM, DB, ISU} Default: Entry Required Addressing: None Description: Access Type, specifies the type of access the FTP user is given. Values are: <table> <tr> <td>BPM</td><td>Binary PM, specifies that the FTP user is given access to the Binary PM data.</td></tr> <tr> <td>DB</td><td>Database, specifies that the FTP user is given access to upload/download database backup files.</td></tr> <tr> <td>ISU</td><td>In-Service Upgrade, specifies that the FTP user is given access to upload generic files.</td></tr> </table>	BPM	Binary PM, specifies that the FTP user is given access to the Binary PM data.	DB	Database, specifies that the FTP user is given access to upload/download database backup files.	ISU	In-Service Upgrade, specifies that the FTP user is given access to upload generic files.
BPM	Binary PM, specifies that the FTP user is given access to the Binary PM data.						
DB	Database, specifies that the FTP user is given access to upload/download database backup files.						
ISU	In-Service Upgrade, specifies that the FTP user is given access to upload generic files.						

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
/* <FTPUID> [ , <ACCTYPE> ] */
[/* <Command Echo> [<CTAG>] (<CID [-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

FTPUID	<5–12 VALID FTPUID CHARACTERS> FTP User Identifier, identifies the provisioned UID value.	
ACCTYPE	{BPM, DB, ISU}	
	Access Type, identifies the type of access the FTP user is given.	
	BPM	Binary PM, specifies that the FTP user is given access to the Binary PM data.
	DB	Database, specifies that the FTP user is given access to upload/download database backup files.
	ISU	In-Service Upgrade, specifies that the FTP user is given access to upload generic files.

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Optional Suggested Action Text> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent
IDNV	Input, Data Not Valid
IPMS	Input, Parameter MiSsing

EXAMPLES

In the following example, a user profile is modified.

```
ED-FTP-USER:::::user_ftppid,new_user;
```

RELATED COMMANDS

```
DLT-FTP-USER
ENT-FTP-USER
RTRV-FTP-USER
```


COMMAND CODE: **ED-GROUP-CMD**
COMMAND NAME: **EDIT GROUP COMMAND**

PURPOSE

The ED-GROUP-CMD command modifies the specified GROUP3 CCFC security group A through Y (CCFC Group Z cannot be modified). The commands contained in the GROUP3 CCFC security group are determined by the operation performed on the GROUP1 and GROUP2 CCFC security groups. The previous contents of the GROUP3 CCFC security group is replaced when ED-GROUP-CMD is executed. The CANCEL-USER command is automatically included in the resulting GROUP3 CCFC security group.

The operation of the ED-GROUP-CMD command can be illustrated as follows:

GROUP1	OPR	GROUP2	GROUP3	Comments
A	PLUS	B	A	(B is added to A)
A	MINUS	B	A	(B is removed from A)
A	PLUS	A	B	(B is a copy of A)
A	MINUS	A	A	(Group A now only has CANCEL-USER)
A	PLUS	B	C	(C is the union of A and B)
A	MINUS	B	C	(C contains commands that are in A but not in B)

The changes requested via ED-GROUP-CMD take effect immediately.

Refer to Appendix H, User Command Privilege Defaults (CCAL & CCFC) for the system default CCAL and CCFC values for each command.

The ED-GROUP-CMD command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

ED-GROUP-CMD: [TID] : : [CTAG] : : GROUP1, GROUP2, OPR, GROUP3 ;

INPUT PARAMETERS

TID	< 1–20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1–6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
GROUP1	<A through Z or a through z> Default: Entry Required Addressing: None Description: CCFC Group 1, specifies the first CCFC security group. Group 1 is specified as a single upper or lower case alphabetic character A through Z.
GROUP2	<A through Z or a through z> Default: Entry Required Addressing: None Description: CCFC Group 2, specifies the second CCFC security group. Group 2 is specified as a single upper or lower case alphabetic character A through Z.

OPR	{MINUS, PLUS}	
	Default:	Entry Required
	Addressing:	None
	Description:	Operation, specifies the type of operation to be performed on GROUP1 and GROUP2 to form GROUP3. Values are:
	MINUS	Minus, subtract the commands in GROUP2 from the commands in GROUP1 to form GROUP3. The MINUS operation will result in a set of commands in GROUP3 that are in GROUP1 but not in GROUP2 plus the CANCEL-USER command.
	PLUS	Plus, add the commands in GROUP2 to the commands in GROUP1 to form GROUP3. The PLUS operation will result in a set of commands in GROUP3 that are in GROUP1 and in GROUP2 plus the CANCEL-USER command.
GROUP3	<A through Y or a through y>	
	Default:	Entry Required
	Addressing:	None
	Description:	Group 3, specifies the third CCFC security group that contains the commands that remain as a result of the operation performed on GROUP1 and GROUP2. The CANCEL-USER command is automatically included in GROUP3. The previous contents of the CCFC security group 3 is replaced when ED-GROUP-CMD is executed. GROUP3 is specified as a single upper or lower case alphabetic character A through Y.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
/* <GROUP1> <OPR> <GROUP2> = <GROUP3> */
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

OUTPUT PARAMETERS

GROUP1	<A through Z> Group 1, identifies the first CCFC security group.
GROUP2	<A through Z> Group 2, identifies the second CCFC security group.
OPR	{PLUS, MINUS} Operation, identifies the type of operation performed on GROUP1 and GROUP2 to form GROUP3.
GROUP3	<A through Y> Group 3, indicates the resulting third CCFC security group.

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Optional Suggested Action Text> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV Input, Data Not Valid
IPNV Input, Parameter Not Valid
 /* Illegal Input: GROUP1 length, GROUP2 length */
 /* Illegal Input: GROUP1 length */
 /* Illegal Input: GROUP1 */
 /* Illegal Input: GROUP2 length */
 /* Illegal Input: GROUP2 */
 /* Illegal Input: GROUP3 length */
 /* Illegal Input: GROUP3 */
 /* Illegal Input: GROUP3 CANNOT MODIFY Z */
SROF Status, Requested Operation Failed
 /* Unable to write to CSDB – status = <status number> */
 /* Unable to update CSDB – status = <status number> */

EXAMPLES

In the following example, groups I, J and K contain the set of TL1 commands as shown in Table 1 below:

Table 1			
I	J	K	L
CANC-USER	CANC-USER	CANC-USER	CANC-USER
ENT-T1	RTRV-T1	ENT-T1	
ED-T1	RTRV-T3	SET-PMODE-T1	
DLT-T1	RTRV-TH-T1	RTRV-PMODE-T1	
RTRV-T1	RTRV-TH-T3		

In this example, ED-GROUP-CMD is used to combine group I and group J, resulting in group K:

```
ED-GROUP-CMD:::::i,j,PLUS,k;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P21040. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P21040 COMPLD
/* I PLUS J = K */
/* ED-GROUP-CMD:::::i,j,PLUS,k [P21040] (1) */
;
```

After the ED-GROUP-CMD command is successfully executed, groups I, J, K, and L contain the set of TL1 commands as shown in Table 2 below.

Table 2			
I	J	K	L
CANC-USER	CANC-USER	CANC-USER	CANC-USER
ENT-T1	RTRV-T1	ENT-T1	
ED-T1	RTRV-T3	ED-T1	
DLT-T1	RTRV-TH-T1	DLT-T1	
RTRV-T1	RTRV-TH-T3	RTRV-T1	
		RTRV-T3	
		RTRV-TH-T1	
		RTRV-TH-T3	

In the following example, ED-GROUP-CMD is used to remove commands that are in group J from group I, resulting in group L. The example assumes the information shown in Table 2 prior to executing the command.

```
ED-GROUP-CMD:::::I,j,MINUS,L;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P21041. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P21041 COMPLD
/* I MINUS J = L */
/* ED-GROUP-CMD:::::I,j,MINUS,L [P21041] (1) */
;
```

Assuming Table 2 information prior to executing the command, after the ED-GROUP-CMD command is successfully executed, groups I, J, K, and L contain the set of TL1 commands shown in Table 3 below.

Table 3			
I	J	K	L
CANC-USER	CANC-USER	CANC-USER	CANC-USER
ENT-T1	RTRV-T1	ENT-T1	ENT-T1
ED-T1	RTRV-T3	ED-T1	ED-T1
DLT-T1	RTRV-TH-T1	DLT-T1	DLT-T1
RTRV-T1	RTRV-TH-T3	RTRV-T1	
		RTRV-T3	
		RTRV-TH-T1	
		RTRV-TH-T3	

In the following example, ED-GROUP-CMD is used to remove commands that are in group J from group L; resulting in group Z:

```
ED-GROUP-CMD:::::L,j,MINUS,Z;
```

Since GROUP3 is specified as Z, the ED-GROUP-CMD is denied and no changes to the previously existing groups is performed.

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P21044. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P21044 DENY
IPNV
/* Illegal Input, GROUP3 CANNOT MODIFY Z */
/* Input, Parameter Not Valid */
/* ACTION: CHECK INPUT DATA */
/* ED-GROUP-CMD:::::L,j,MINUS,Z [P21044] (1) */
;
```

RELATED COMMANDS

```
ED-PRVG-CMD
ED-PRVG-USER
ENT-USER
RTRV-PRVG-CMD
RTRV-PRVG-USER
```


COMMAND CODE: **ED-IP-PRMTR**
COMMAND NAME: **EDIT IP PARAMETERS**

PURPOSE

The ED-IP-PRMTR command allows modifying of the Internet Protocol (IP) Layer parameters of the Local Area Network (LAN) interface on the Intelligent Communication Module (ICM). This command allows provisioning of the network layer (Layer 3) parameters pertaining to the IP layer stack.

Changes to the name-defined parameters are stored in the database and take effect when the IP stack is (re)initialized via the RST-CID command. All of the name-defined parameters survive a database backup and restore.

The ED-IP-PRMTR command can be executed while in the Limited Command Execution mode (i.e., after execution of a STOP-OPS command) or the Normal Command Execution mode.

An ED-IP-PRMTR command is denied if:

- The specified CID is not provisioned as a LAN port on the ICM (via ENT-CID with PROTOCOL of TCP).
- The network address of BRDCSTADR does not equal the network address of the IPADDR.
- The Host ID portion of the specified GATEWAYADR is provisioned as all zeros (0s) or all ones (1s).
- The GATEWAYADR is provisioned in the range between 2.0.0.0 to 2.255.255.255.
- The provisioned subnet address of the specified GATEWAYADR does not equal the subnet address of the IPADDR.
- An invalid parameter value is entered.

INPUT FORMAT

ED-IP-PRMTR : [TID] : CPORT : [CTAG] : : : [BRDCSTADR=] [, GATEWAYADR=] [, NODENAME=] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CPORT	{3, 5, 7, 9, 11} Default: Entry Required Addressing: None Description: Control Port, identifies the CID which is configured as the LAN on the ICM module.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
BRDCSTADR=	{{(0-255)-(0-255)-(0-255)-(0-255}} Default: <Value derived from IPADDR and NETMASK> Addressing: None Description: Broadcast Address, specifies the Network Layer Broadcast Address for the specified IP Address. The Broadcast Address is the IP Address with all the host bits set to one (NOTE: the host bits are the bits in the NET-MASK that are set to zero).

GATEWAYADR=	{{(0-255)-(0-255)-(0-255)-(0-255)}, DFLT}
Default:	<Previously Existing Value>
Addressing:	None
Description:	Gateway Address, specifies the Network Layer's Default Gateway router's IP address. Name-defined values are:
DFLT	Default, specifies the parameter is set to the factory default and the default gateway routing entry is removed from the IP routing table.
Restrictions:	The ED-IP-PRMTR command is denied if the provisioned subnet address of GATEWAYADR does not equal the subnet address of IPADDR. The ED-IP-PRMTR command is denied if the Host ID portion of the specified GATEWAYADR is provisioned as all zeros (0s) or all ones (1s). The ED-IP-PRMTR command is denied if the GATEWAYADR is provisioned in the range between 2.0.0.0 to 2.255.255.255.

NODENAME=	<1-15 ASCII printable characters>
Default:	<Previously Existing Value>
Addressing:	None
Description:	TCP/IP Network Name, specifies the TCP/IP network name of the NE. This value is not used by the NE at this time, but is set so the verification of the IP address is made at a later time.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid
IPNV	Input, Parameter Not Valid

EXAMPLES

In the following example, the IP layer parameters pertaining to the LAN for CPORT 11 are being modified.

```
ED-IP-PRMTR::11;
```

RELATED COMMANDS

```

DLT-IP-PRMTR
ENT-IP-PRMTR
RTRV-IP-PRMTR

```


COMMAND CODE: **ED-IP-STATICRT**
COMMAND NAME: **EDIT IP STATIC ROUTE**

PURPOSE

The ED-IP-STATICRT command allows modifying of an entry in the static routing table used by the Internet Protocol (IP) router running on the Local Area Network (LAN) interface on the Intelligent Communication Module (ICM). This command allows modification of the network layer (Layer 3) parameters pertaining to the static routing table. The IPADDR and NETMASK parameters determine which static routing table entry is to be modified.

Changes to the name-defined parameters take effect immediately and survive a database backup and restore.

The ED-IP-STATICRT command can be executed while in the Limited Command Execution mode (i.e., after execution of a STOP-OPS command) or the Normal Command Execution mode.

An ED-IP-STATICRT command is denied if:

- The specified CID is not provisioned as a LAN port on the ICM (via ENT-CID with PROTOCOL of TCP).
- The specified IPADDR is within the 2.0.0.0 to 2.255.255.255 IP address range.
- An entry corresponding to the IP address specified in the IPADDR and NETMASK parameters does not exist in the static routing table.
- The specified IPADDR is not equal to its subnet address when DESTTYPE=NET (via ENT-IP-STATICRT).
- The specified IPADDR is outside the lowest and highest IP Address Range.
- The network portion of the specified IPADDR is all zeros (0s) or all ones (1s) and the IPADDR is not subnetted.
- The subnetwork address of the specified IPADDR is all zeros (0s) or all ones (1s) and the IPADDR is subnetted.
- The Host ID portion of the specified GATEWAYADR is provisioned as all zeros (0s) or all ones (1s).
- The GATEWAYADR is in the range between 2.0.0.0 to 2.255.255.255.
- The provisioned subnet address of the specified GATEWAYADR does not equal the subnet address of the IPADDR from ED-IP-PRMTR.
- Any portion of the default NETMASK is 255 and that portion of the specified NETMASK is a number less than 255.
- The specified NETMASK is any value other than 255.255.255.255 when DESTTYPE=HOST (via ENT-IP-STATICRT).
- The static routing table is full.
- An invalid parameter value is entered.

INPUT FORMAT

ED-IP-STATICRT: [TID] : CPORT: [CTAG] : : : [GATEWAYADR=] , IPADDR= , NETMASK= ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CPORT	{3, 5, 7, 9, 11} Default: Entry Required Addressing: None Description: Control Port, identifies the CID which is configured as the LAN on the ICM module.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

GATEWAYADR= {(0–255)–(0–255)–(0–255)–(0–255)}

Default: <Previously Existing Value>

Addressing: None

Description: Gateway Address, specifies the gateway address of the gateway to which the packets are sent in order to reach the NE whose IP address is as given in the IPADDR parameter.

Restrictions: The ED–IP–STATICRT command is denied if the provisioned subnet address of GATEWAYADR does not equal the subnet address of IPADDR from ED–IP–PRMTR.
The ED–IP–STATICRT command is denied if the Host ID portion of the specified GATEWAYADR is provisioned as all zeros (0s) or all ones (1s).
The ED–IP–STATICRT command is denied if the GATEWAYADR is in the 2.0.0.0 to 2.255.255.255 IP range.

IPADDR= {(0–223)–(0–255)–(0–255)–(0–255)}

Default: Entry Required

Addressing: None

Description: Internet Protocol Address, specifies the IP Address of the NE to which the static route entry is made. The lowest and highest IP Address Range is:

IP Address Range		
Class	Lowest	Highest
A	0.1.0.0	126.0.0.0
B	128.0.0.0	191.255.0.0
C	192.0.1.0	223.225.225.0

Restrictions: The ED–IP–STATICRT command is denied if an IP Address outside of the lowest and highest IP Address Range is entered.
The ED–IP–STATICRT command is denied if the IPADDR is in the 2.0.0.0 to 2.255.255.255 IP range.
The ED–IP–STATICRT command is denied if the specified IPADDR is not equal to its subnet address when DESTTYPE=NET (via ENT–IP–STATICRT) (i.e. the logical AND of the IPADDR and NETMASK must equal the IPADDR).
The ED–IP–STATICRT command is denied if the network portion of the specified IPADDR is all zeros (0s) or all ones (1s) and the IPADDR is not subnetted.
The ED–IP–STATICRT command is denied if the subnetwork address of the specified IPADDR is all zeros (0s) or all ones (1s) and the IPADDR is subnetted.

NETMASK= {(0-255)-(0-255)-(0-255)-(0-255)}

Default: <Value determined by the IP Address and DESTTYPE=NET via ENT-IP-STATICRT> or {255.255.255.255} (If DESTTYPE=HOST via ENT-IP-STATICRT)

Addressing: None

Description: Subnet Mask, specifies the subnet mask of the network to which the NE with IPADDR is connected to.

Default Value Determined by the IP Address		
Class	IP Address Range	Default NETMASK (via ENT-IP-STATICRT)
A	0.0.0.0 to 127.255.255.255	255.0.0.0
B	128.0.0.0 to 191.255.255.255	255.255.0.0
C	192.0.0.0 to 223.255.255.255	255.255.255.0

Restrictions: The ED-IP-STATICRT command is denied if any portion of the default NETMASK is 255 and that portion of the specified NETMASK is a number less than 255.

The ED-IP-STATICRT command is denied if the specified NETMASK is any value other than 255.255.255.255 when DESTTYPE=HOST (via ENT-IP-STATICRT).

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD      [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>      [/ * <Informational Error Description Text> */]      [/ *
<Expanded Error Code Description> */]      [/ * <Command Echo> [<CTAG>]
(<CID[-VCNUM]>) */] ;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV Input, Data Not Valid
IPMS Input, Parameter MiSsing
IPNV Input, Parameter Not Valid

EXAMPLES

In the following example, the allowable entries in the static routing table for CPORT 9 are edited.

```
ED-IP-STATICRT::9:::GATEWAYADR=200-200-20-2, IPADDR=200-200-20-2,      NET-
MASK=255-255-255-0;
```

RELATED COMMANDS

DLT-IP-STATICRT
ENT-IP-STATICRT
RTRV-IP-STATICRT

COMMAND CODE: **ED-LLLAN**
COMMAND NAME: **EDIT LOWER LAYER LAN PARAMETERS**

PURPOSE

The ED-LLLAN command allows provisioning of the Layer 1 (physical layer) and Layer 2 (data link layer) parameters of the SONET Data Communication Channel (DCC) network. This command allows provisioning of the OSI lower layer stack (Layer 1 and Layer 2) parameters pertaining to the LAN.

Changes to the name-defined parameters are stored in the database and take effect when the OSI stack is (re)initialized. This is accomplished by performing a RST-EQPT of the DSB or by editing the DSB into an IS state from an OOS state via ED-EQPT command. All of the name-defined parameters survive a database backup and restore.

An ED-LLLAN command is denied if:

- The specified DSB that contains this LAN is in a primary state other than OOS-MA or OOS-AUMA.
- An invalid parameter value is entered.

INPUT FORMAT

ED-LLLAN: [TID] :AID: [CTAG] : : [L2INFO=] ;

INPUT PARAMETERS

TID	<p><1–20 VALID TID CHARACTERS></p> <p>Default: <SID></p> <p>Addressing: None</p> <p>Description: Target Identifier, specifies the network node TID for the command.</p>
AID	<p>EQUIPMENT_AID:</p> <p>{DSB-{6–9, 12–15, 18–21, 24–43, 104–111, 112–135, 136–141}-{1, 3}-{1–2}}</p> <p>Default: Entry Required</p> <p>Addressing: None</p> <p>Description: DSB AID, identifies the DSB on the LAN whose lower layer parameters are being modified.</p>
CTAG	<p><1–6 VALID CTAG CHARACTERS></p> <p>Default: <System Assigned CTAG Value></p> <p>Addressing: None</p> <p>Description: Correlation Tag, associates input command with its output responses.</p>
L2INFO=	<p>{512, 1024, 1497, DFLT}</p> <p>Default: <Previously existing value> or {1497} {Factory default}</p> <p>Addressing: None</p> <p>Description: Layer 2 Information Field, specifies the maximum size of the OSI Layer 2 information field. Name-defined values are:</p> <p>DFLT Default, specifies the parameter is set to the factory default.</p>

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID [-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent /* Unable to read aux buffer for <AID> */
IDNV	Input, Data Not Valid /* Error reading input for L2INFO */ /* Invalid value for L2INFO */
IIAC	Input, Invalid ACcess identifier /* Invalid or unassigned equipment identifier specified. */
SARB	Status, All Resources Busy /* Command already in progress on equipment. */ /* Automatic system configuration active on equipment. */ /* Automatic configuration (database download) of parent processor in progress. */ /* Level 2 processor software download in progress. Try again later. */ /* INIT-SYS command still active on shelf that equipment is on. */
SDBE	Status, internal Data Base Error /* Data base access failure. */ /* Unable to read the LANDCC database. */ /* Unable to update the LANDCC database. */
SNVS	Status, Not in Valid State /* DSB is not in a Maintenance state. */

EXAMPLES

In the following example, the Layer 2 Information Field of the Lower Level Lan for DSB-6-1-1 is set to 512.

```
ED-LLLAN::DSB-6-1-1:::L2INFO= 512;

<SID> <YY-MM-DD> <HH:MM:SS>
M P72019 COMPLD
  /* The ED-LLLAN for DSB-6-1-1 was completed. */
  /* ED-LLLAN::DSB-6-1-1:::L2INFO= 512 [P72019] (1) */
```

RELATED COMMANDS

RTRV-LLLAN

COMMAND CODE: **ED-LLLDCC**
COMMAND NAME: **EDIT LOWER LAYER LINE DCC**

PURPOSE

The ED-LLLDCC command allows provisioning of the Layer 1 (physical layer) and Layer 2 (data link layer) parameters of the SONET Data Communication Channel (DCC) network. This command allows provisioning of the OSI lower layer stack (Layer 1 and Layer 2) parameters pertaining to the Line DCC.

If the ED-LLLDCC command is successfully issued with PST of IS, the system initializes all the lower layer and upper layer OSI stack parameters pertaining to the addressed Line DCC. If the command is issued with PST of OOS, the system disables the processing of the Line DCC taken from both the working and protect OC-3/OC-12 processed by the corresponding DSB.

Changes to the name-defined parameters are stored in the database and take effect when the OSI stack is (re)initialized. This is accomplished by performing a RST-OCn (where n=3 or 12) or by editing the OC-3/OC-12 into an IS state from an OOS state using the ED-OCn command. All of the name-defined parameters survive a database backup and restore.

If ENT-FFP-OCn is issued on the addressed OC-3/OC-12, the AID is the AID of the working (odd numbered) OC-3/OC-12. If ENT-FFP-OCn is not issued on the addressed OC-3/OC-12 or ENT-RNG-OCn is issued on the addressed OC-3/OC-12, ED-LLLDCC allows both the odd numbered and even numbered OC-3s/OC-12s to be addressed.

An ED-LLLDCC command is denied if:

- The specified OC-3 that contains this DCC is in a UAS secondary state.
- The specified AID is a protection OC-3 or OC-12 (even numbered).
- Any parameter other than the PST is modified and the LLLDCC is not already in an OOS state or the PST of OOS is not specified.
- The specified PST=IS and the LLLDCC is already in an IS state.
- The specified PST=OOS and the LLLDCC is already in an OOS state.
- An invalid parameter value is entered.

INPUT FORMAT

```
ED-LLLDCC: [TID]:AID:[CTAG]:: [ALLDFLT=] [, L2IF=] [, L2INFO=] [, L2MAXCALLS=]
[, L2NOA=] [, L2RCALLTMR=] [, L2REX=] [, L2SIDE=] [, L2WAIT=]: [PST];
```

INPUT PARAMETERS

TID	<1-20 VALID TID CHARACTERS> Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	OC3_AID: {OC3-{1-2240}} (OC3-OC3#) OC12_AID: {OC12-{1-560}} (OC12-OC12#) Default: Entry Required Addressing: None Description: Optical Carrier AID, identifies the generic address of a DCC on the DSB.
CTAG	<1-6 VALID CTAG CHARACTERS> Default: <System Assigned CTAG Value> Addressing: None Description: Correlation Tag, associates input command with its output responses.

ALLDFLT=	{N, Y}	
	Default:	{N}
	Addressing:	None
	Description:	All Default, specifies whether or not all the parameters are set to the factory default. If ED–LLLDCC is issued with ALLDFLT=Y, all parameters except PST are set to the factory default and all other specified parameters are ignored. If ED–LLLDCC is issued with ALLDFLT=N, all specified parameters will be changed and all other non–specified parameters will remain the previous existing value. Values are:
	N	No, specifies all parameters are not set to the factory default.
	Y	Yes, specifies all parameters are set to the factory default.
L2IF=	{1–127, DFLT}	
	Default:	<Previously existing value> or {7} {Factory default}
	Addressing:	None
	Description:	Layer 2 Outstanding I Frame, specifies the Outstanding I Frame count for Layer 2. Name–defined values are:
	DFLT	Default, specifies the parameter is set to the factory default.
L2INFO=	{512, 1024, 1497, DFLT}	
	Default:	<Previously existing value> or {512} {Factory default}
	Addressing:	None
	Description:	Layer 2 Information Field, specifies the maximum size of the information field for Layer 2. Name–defined values are:
	DFLT	Default, specifies the parameter is set to the factory default.
L2MAXCALLS=	{1–32, DFLT}	
	Default:	<Previously existing value> or {1} {Factory default}
	Addressing:	None
	Description:	Maximum Number of Layer 2 Retries, determines the maximum number of the Layer 2 retries connecting to the other end before it reports a connection failure to the application layer. Name–defined values are:
	DFLT	Default, specifies the parameter is set to the factory default.
L2NOA=	{4–120, DFLT}	
	Default:	<Previously existing value> or {10} {Factory default}
	Addressing:	None
	Description:	Layer 2 No Activity Timer, specifies the Layer 2 No Activity Timer (T203) in seconds. Name–defined values are:
	DFLT	Default, specifies the parameter is set to the factory default.
L2RCALLTMR=	{1–65535, DFLT}	
	Default:	<Previously existing value> or {60} {Factory default}
	Addressing:	None
	Description:	Layer 2 LAPD Controller, determines how long the Layer 2 LAPD controller waits (in seconds) after L2MAXCALLS are exhausted and before the Layer 2 LAPD makes another set of attempts to connect. Name–defined values are:
	DFLT	Default, specifies the parameter is set to the factory default.

L2REX=	{2–16, DFLT}	
	Default:	<Previously existing value> or {10} {Factory default}
	Addressing:	None
	Description:	Layer 2 Retransmission Count, specifies the Layer 2 retransmissions count. Name–defined values are: DFLT Default, specifies the parameter is set to the factory default.
L2SIDE=	{DFLT, NETWORK, USER}	
	Default:	<Previously existing value> or {NETWORK} {Factory default}
	Addressing:	None
	Description:	Layer 2 User Side/Network Side, defines the assignment of Layer 2 user side/network side roles. Values are: DFLT Default, specifies the parameter is set to the factory default. NETWORK Indicates the Layer 2 role is assigned on the network side. USER Indicates the Layer 2 role is assigned on the user side.
L2WAIT=	{2–200, DFLT}	
	Default:	<Previously existing value> or {5} {Factory default}
	Addressing:	None
	Description:	Layer 2 Waiting Acknowledge Timer, specifies the Layer 2 Waiting Acknowledge timer in tenths of seconds. Name–defined values are: DFLT Default, specifies the parameter is set to the factory default.
PST	{IS, OOS}	
	Default:	<Previously existing value> or {OOS} {Factory default}
	Addressing:	None
	Description:	Primary State, determines the primary state in which the lower layer Line DCC is put into. Values are: IS In-Service OOS Out-Of-Service

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non–Parser Error Codes used with this command are:

IDNV Input, Data Not Valid

IIAC	Input, Invalid ACcess identifier
SAIS	Status, Already In Service
SAOS	Status, Already Out of Service
SDBE	Status, internal Data Base Error /*TP Database Error: <ERROR-STRING> for <AID-STRING>*/ /*DCC Database Error: <ERROR-STRING> for <AID-STRING>*/
SNVS	Status, Not in Valid State
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, the lower layer parameters pertaining to the Line DCC for OC-3 port OC3-14 are being set to the factory defaults.

```
ED-LLLDCC::OC3-14:::ALLDFLT=Y;
```

RELATED COMMANDS

```
RTRV-LLLDCC
```

COMMAND CODE: **ED-LLSDCC**
COMMAND NAME: **EDIT LOWER LAYER SECTION DCC**

PURPOSE

The ED-LLSDCC command allows provisioning of the Layer 1 (physical layer) and Layer 2 (data link layer) parameters of the SONET Data Communication Channel (DCC) network. This command allows provisioning of the OSI lower layer stack (Layer 1 and Layer 2) parameters pertaining to the Section DCC.

If the ED-LLSDCC command is successfully issued with PST of IS, the system initializes all the lower layer and upper layer OSI stack parameters pertaining to the addressed Section DCC. If the command is issued with PST of OOS, the system disables the processing of the Section DCC taken from both the working and protect OC-3/OC-12 processed by the corresponding DSB.

Changes to the name-defined parameters are stored in the database and take effect when the OSI stack is (re)initialized. This is accomplished by performing a RST-OCn (where n=3 or 12) or by editing the OC-3/OC-12 into an IS state from an OOS state via ED-OCn command. All of the name-defined parameters survive a database backup and restore.

If ENT-FFP-OC3 is issued on the addressed OC-3, the AID is the AID of the working (odd numbered) OC-3/OC-12. If ENT-FFP-OCn is not issued on the addressed OC-3 or ENT-RNG-OC3 is issued on the addressed OC-3/OC-12, ED-LLSDCC allows both the odd numbered and even numbered OC-3s/OC-12s to be addressed.

An ED-LLSDCC command is denied if:

- The specified OC-3/OC-12 that contains this DCC is in a UAS secondary state.
- The specified AID is a protection OC-3/OC-12 (even numbered).
- Any parameter other than the PST is modified and the LLSDCC is not already in an OOS state or the PST of OOS is not specified.
- The specified PST=IS and the LLSDCC is already in an IS state.
- The specified PST=OOS and the LLSDCC is already in an OOS state.
- The specified PST=IS is issued on an OC-3 that resides on a O1B with a controller other than L3PE2 (i.e., ED-EQPT with PROCTYPE of L3PE2 has not been issued and/or the O1B modules does not have L3PE2 processor).
- An invalid parameter value is entered.

INPUT FORMAT

```
ED-LLSDCC: [TID]:AID: [CTAG]:: [ALLDFLT=] [, L2IF=] [, L2INFO=] [, L2MAXCALLS=]  
[, L2NOA=] [, L2RCALLTMR=] [, L2REX=] [, L2SIDE=] [, L2WAIT=]: [PST];
```

INPUT PARAMETERS

TID	<1-20 VALID TID CHARACTERS> Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	OC3_AID: {OC3-{1-2240}} (OC3-OC3#) OC12_AID: {OC12-{1-560}} (OC12-OC12#) Default: Entry Required Addressing: None Description: Optical Carrier AID, identifies the generic address of a DCC on the DSB.
CTAG	<1-6 VALID CTAG CHARACTERS> Default: <System Assigned CTAG Value> Addressing: None Description: Correlation Tag, associates input command with its output responses.

ALLDFLT=	{N, Y}	
	Default:	{N}
	Addressing:	None
	Description:	All Default, specifies whether or not all the parameters are set to the factory default. If ED-LLSDCC is issued with ALLDFLT=Y, all parameters except PST are set to the factory default and all other specified parameters are ignored. If ED-LLSDCC is issued with ALLDFLT=N, all specified parameters will be changed and all other non-specified parameters will remain the previous existing value. Values are:
	N	No, specifies all parameters are not set to the factory default.
	Y	Yes, specifies all parameters are set to the factory default.
L2IF=	{1-127, DFLT}	
	Default:	<Previously existing value> or {7} {Factory default}
	Addressing:	None
	Description:	Layer 2 Outstanding I Frame, specifies the Outstanding I Frame count for Layer 2. Name-defined values are:
	DFLT	Default, specifies the parameter is set to the factory default.
L2INFO=	{512, 1024, 1497, DFLT}	
	Default:	<Previously existing value> or {512} {Factory default}
	Addressing:	None
	Description:	Layer 2 Information Field, specifies the maximum size of the information field for Layer 2. Name-defined values are:
	DFLT	Default, specifies the parameter is set to the factory default.
L2MAXCALLS=	{1-32, DFLT}	
	Default:	<Previously existing value> or {1} {Factory default}
	Addressing:	None
	Description:	Maximum Number of Layer 2 Retries, determines the maximum number of the Layer 2 retries connecting to the other end before it reports a connection failure to the application layer. Name-defined values are:
	DFLT	Default, specifies the parameter is set to the factory default.
L2NOA=	{4-120, DFLT}	
	Default:	<Previously existing value> or {10} {Factory default}
	Addressing:	None
	Description:	Layer 2 No Activity Timer, specifies the Layer 2 No Activity Timer (T203) in seconds. Name-defined values are:
	DFLT	Default, specifies the parameter is set to the factory default.
L2RCALLTMR=	{1-65535, DFLT}	
	Default:	<Previously existing value> or {60} {Factory default}
	Addressing:	None
	Description:	Layer 2 LAPD Controller, determines how long the Layer 2 LAPD controller waits (in seconds) after L2MAXCALLS are exhausted and before the Layer 2 LAPD makes another set of attempts to connect. Name-defined values are:
	DFLT	Default, specifies the parameter is set to the factory default.

L2REX=	{2–16, DFLT}	
	Default:	<Previously existing value> or {10} {Factory default}
	Addressing:	None
	Description:	Layer 2 Retransmission Count, specifies the Layer 2 retransmissions count. Name–defined values are: DFLT Default, specifies the parameter is set to the factory default.
L2SIDE=	{DFLT, NETWORK, USER}	
	Default:	<Previously existing value> or {NETWORK} {Factory default}
	Addressing:	None
	Description:	Layer 2 User Side/Network Side, defines the assignment of Layer 2 user side/network side roles. Values are: DFLT Default, specifies the parameter is set to the factory default. NETWORK Indicates the Layer 2 role is assigned on the network side. USER Indicates the Layer 2 role is assigned on the user side.
L2WAIT=	{2–200, DFLT}	
	Default:	<Previously existing value> or {5} {Factory default}
	Addressing:	None
	Description:	Layer 2 Waiting Acknowledge Timer, specifies the Layer 2 Waiting Acknowledge timer in tenths of seconds. Name–defined values are: DFLT Default, specifies the parameter is set to the factory default.
PST	{IS, OOS}	
	Default:	<Previously existing value> or {OOS} {Factory default}
	Addressing:	None
	Description:	Primary State, determines the primary state in which the lower layer Section DCC is put into. Values are: IS In-Service OOS Out-Of-Service

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non–Parser Error Codes used with this command are:

IDNV Input, Data Not Valid

IIAC	Input, Invalid ACcess identifier
SAIS	Status, Already In Service
SAOS	Status, Already Out of Service
SDBE	Status, internal Data Base Error /*TP Database Error: <ERROR-STRING> for <AID-STRING>*/ /*DCC Database Error: <ERROR-STRING> for <AID-STRING>*/
SNVS	Status, Not in Valid State
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, the lower layer parameters pertaining to the Section DCC for OC-3 port OC3-14 are being set to the factory defaults.

```
ED-LLSDCC::OC3-14:::ALLDFLT=Y;
```

RELATED COMMANDS

```
RTRV-LLSDCC
```

COMMAND CODE: **ED-MAADDR**
COMMAND NAME: **EDIT MANUAL AREA ADDRESS**

PURPOSE

The ED-MAADDR command allows modifying of the Manual Area Address of Layer 3 (network layer) of the SONET Data Communication Channel (DCC) network.

Changes to the name-defined parameters are stored in the database and take effect when the OSI stack is (re)initialized. This is accomplished by performing a RST-EQPT of the DSB or by editing the DSB into an IS state from an OOS state via ED-EQPT command. All of the name-defined parameters are saved during a database backup and restore.

An ED-MAADDR command is denied if:

- The specified DSB is not provisioned, i.e., the DSB is in a UAS secondary state.
- The specified DSB is not in an OOS-MA or OOS-AUMA primary state.
- An invalid parameter value is entered.

INPUT FORMAT

```
ED-MAADDR: [TID]:AID:[CTAG]:: [L3IDP1=] [,L3DFI1=] [,L3ORG1=] [,L3RES1=]
[,L3ROU1=] [,L3IDP2=] [,L3DFI2=] [,L3ORG2=] [,L3RES2=] [,L3ROU2=]
[,L3IDP3=] [,L3DFI3=] [,L3ORG3=] [,L3RES3=] [,L3ROU3=] ;
```

INPUT PARAMETERS

TID	<p>< 1-20 VALID TID CHARACTERS ></p> <p>Default: <SID></p> <p>Addressing: None</p> <p>Description: Target Identifier, specifies the network node TID for the command.</p>
AID	<p>EQUIPMENT_AID:</p> <p>{DSB-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{1-2}}</p> <p>Default: Entry Required</p> <p>Addressing: None</p> <p>Description: DSB AID, identifies the DSB on which the manual area addresses are being modified.</p>
CTAG	<p>< 1-6 VALID CTAG CHARACTERS ></p> <p>Default: < System assigned CTAG value ></p> <p>Addressing: None</p> <p>Description: Correlation Tag, associates input command with its output responses.</p>
L3IDP1=	<p><6 ASCII HEXADECIMAL VALUES></p> <p>Default: <Previously existing value> or {39840F} {Factory default}</p> <p>Addressing: None</p> <p>Description: Layer 3 Initial Domain Part 1, identifies the Initial Domain Part of the NSAP pertaining to the 1st Manual Area Address. The value is two fields including the Authority and Format Identifier (AFI) which is 1 octet long concatenating with the Initial Domain Identifier (IDI) which is 2 octets long for a total of 3 octets. Each octet is specified in the form of pq, where p and q are the ASCII encoded hexadecimal.</p>
L3DFI1=	<p><2 ASCII HEXADECIMAL VALUES></p> <p>Default: <Previously existing value> or {80} {Factory default}</p> <p>Addressing: None</p> <p>Description: Layer 3 Domain Format Identifier 1, identifies the Domain Format Identifier Field of the NSAP pertaining to the 1st Manual Area Address. The value is 1 octet long and is specified in the form of pq, where p and q are the ASCII encoded hexadecimal.</p>

L3ORG1=	<p><6 ASCII HEXADECIMAL VALUES></p> <p>Default: <Previously existing value> or {000000} {Factory default}</p> <p>Addressing: None</p> <p>Description: Layer 3 Organization Identifier 1, specifies the Organization Identifier within the NSAP pertaining to the 1st Manual Area Address. The value is 3 octets long and each is specified in the form of pq, where p and q are the ASCII encoded hexadecimal.</p> <p>Restrictions: ED-MAADDR is defined if the value for this parameter is already assigned to another L3ORGx parameter, i.e., two L3ORGs on the DSB are attempted to be provisioned at the same time.</p>
L3RES1=	<p><4 ASCII HEXADECIMAL VALUES></p> <p>Default: <Previously existing value> or {0000} {Factory default}</p> <p>Addressing: None</p> <p>Description: Layer 3 Reserved Space 1, specifies the Reserved Space within the NSAP pertaining to the 1st Manual Area Address. The value is 2 octets long and each is specified in the form of pq, where p and q are the ASCII encoded hexadecimal.</p>
L3ROU1=	<p><8 ASCII HEXADECIMAL VALUES></p> <p>Default: <Previously existing value> or {00000000} {Factory default}</p> <p>Addressing: None</p> <p>Description: Layer 3 Routing Domain 1, specifies both the Routing Domain of the NSAP (2 octets) and the area within the Routing Domain (2 octets) for a total of 4 octets pertaining to the 1st Manual Area Address. Each octet is specified in the form of pq, where p and q are the ASCII encoded hexadecimal.</p> <p>Restrictions: ED-MAADDR is defined if the value for this parameter is already assigned to another L3ROUx parameter, i.e., two L3ROUs on the DSB are attempted to be provisioned at the same time.</p>
L3IDP2=	<p><6 ASCII HEXADECIMAL VALUES></p> <p>Default: <Previously existing value> or {000000} {Factory default}</p> <p>Addressing: None</p> <p>Description: Layer 3 Initial Domain Part 2, identifies the Initial Domain Part of the NSAP pertaining to the 2nd Manual Area Address. The value is two fields including the Authority and Format Identifier (AFI) which is 1 octet long concatenating with the Initial Domain Identifier (IDI) which is 2 octets long for a total of 3 octets. Each octet is specified in the form of pq, where p and q are the ASCII encoded hexadecimal.</p>
L3DFI2=	<p><2 ASCII HEXADECIMAL VALUES></p> <p>Default: <Previously existing value> or {00} {Factory default}</p> <p>Addressing: None</p> <p>Description: Layer 3 Domain Format Identifier 2, identifies the Domain Format Identifier Field of the NSAP pertaining to the 2nd Manual Area Address. The value is 1 octet long and is specified in the form of pq, where p and q are the ASCII encoded hexadecimal.</p>

L3ORG2=	<p><6 ASCII HEXADECIMAL VALUES></p> <p>Default: <Previously existing value> or {000000} {Factory default}</p> <p>Addressing: None</p> <p>Description: Layer 3 Organization Identifier 2, specifies the Organization Identifier within the NSAP pertaining to the 2nd Manual Area Address. The value is 3 octets long and each is specified in the form of pq, where p and q are the ASCII encoded hexadecimal.</p> <p>Restrictions: ED-MAADDR is defined if the value for this parameter is already assigned to another L3ORGx parameter, i.e., two L3ORGs on the DSB are attempted to be provisioned at the same time.</p>
L3RES2=	<p><4 ASCII HEXADECIMAL VALUES></p> <p>Default: <Previously existing value> or {0000} {Factory default}</p> <p>Addressing: None</p> <p>Description: Layer 3 Reserved Space 2, specifies the Reserved Space within the NSAP pertaining to the 2nd Manual Area Address. The value is 2 octets long and each is specified in the form of pq, where p and q are the ASCII encoded hexadecimal.</p>
L3ROU2=	<p><8 ASCII HEXADECIMAL VALUES></p> <p>Default: <Previously existing value> or {00000000} {Factory default}</p> <p>Addressing: None</p> <p>Description: Layer 3 Routing Domain 2, specifies both the Routing Domain of the NSAP (2 octets) and the area within the Routing Domain (2 octets) for a total of 4 octets pertaining to the 2nd Manual Area Address. Each octet is specified in the form of pq, where p and q are the ASCII encoded hexadecimal.</p> <p>Restrictions: ED-MAADDR is defined if the value for this parameter is already assigned to another L3ROUx parameter, i.e., two L3ROUs on the DSB are attempted to be provisioned at the same time.</p>
L3IDP3=	<p><6 ASCII HEXADECIMAL VALUES></p> <p>Default: <Previously existing value> or {000000} {Factory default}</p> <p>Addressing: None</p> <p>Description: Layer 3 Initial Domain Part 3, identifies the Initial Domain Part of the NSAP pertaining to the 3rd Manual Area Address. The value is two fields including the Authority and Format Identifier (AFI) which is 1 octet long concatenating with the Initial Domain Identifier (IDI) which is 2 octets long for a total of 3 octets. Each octet is specified in the form of pq, where p and q are the ASCII encoded hexadecimal.</p>
L3DFI3=	<p><2 ASCII HEXADECIMAL VALUES></p> <p>Default: <Previously existing value> or {00} {Factory default}</p> <p>Addressing: None</p> <p>Description: Layer 3 Domain Format Identifier 3, identifies the Domain Format Identifier Field of the NSAP pertaining to the 3rd Manual Area Address. The value is 1 octet long and is specified in the form of pq, where p and q are the ASCII encoded hexadecimal.</p>

L3ORG3=	<6 ASCII HEXADECIMAL VALUES>	
	Default:	<Previously existing value> or {000000} {Factory default}
	Addressing:	None
	Description:	Layer 3 Organization Identifier 3, specifies the Organization Identifier within the NSAP pertaining to the 3rd Manual Area Address. The value is 3 octets long and each is specified in the form of pq, where p and q are the ASCII encoded hexadecimal.
	Restrictions:	ED-MAADDR is defined if the value for this parameter is already assigned to another L3ORGx parameter, i.e., two L3ORGs on the DSB are attempted to be provisioned at the same time.
L3RES3=	<4 ASCII HEXADECIMAL VALUES>	
	Default:	<Previously existing value> or {0000} {Factory default}
	Addressing:	None
	Description:	Layer 3 Reserved Space 3, specifies the Reserved Space within the NSAP pertaining to the 3rd Manual Area Address. The value is 2 octets long and each is specified in the form of pq, where p and q are the ASCII encoded hexadecimal.
L3ROU3=	<8 ASCII HEXADECIMAL VALUES>	
	Default:	<Previously existing value> or {00000000} {Factory default}
	Addressing:	None
	Description:	Layer 3 Routing Domain 3, specifies both the Routing Domain of the NSAP (2 octets) and the area within the Routing Domain (2 octets) for a total of 4 octets pertaining to the 3rd Manual Area Address. Each octet is specified in the form of pq, where p and q are the ASCII encoded hexadecimal.
	Restrictions:	ED-MAADDR is defined if the value for this parameter is already assigned to another L3ROUx parameter, i.e., two L3ROUs on the DSB are attempted to be provisioned at the same time.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

```

IDNC      Input, Data Not Consistent
          /* Unable to read aux buffer for <AID> */
```

IDNV	Input, Data Not Valid /* Invalid parameter in the input command */ /* Duplicate organization identifier is detected. */ /* Duplicate routing domain is detected. */
IIAC	Input, Invalid ACcess identifier /* Invalid or unassigned equipment identifier specified. */
SARB	Status, All Resources Busy /* Command already in progress on equipment. */ /* Automatic system configuration active on equipment. */ /* Automatic configuration (database download) of parent processor in progress. */ /* Level 2 processor software download in progress. Try again later. */ /* INIT–SYS command still active on shelf that equipment is on. */
SDBE	Status, internal Data Base Error /* Data base access failure */ /* Unable to update the LANDCC database */ /* Unable to read the LANDCC database. */
SNVS	Status, Not in Valid State /* DSB is not in a Maintenance state */

EXAMPLES

In the following example, the Layer 3 Domain Format Identifier 2 for is DSB–6–1–1 edited to FA.

```
ED-MAADDR::DSB-6-1-1:::L3DFI2= FA;  
  
  <SID> <YY-MM-DD> <HH:MM:SS>  
M  P72007 COMPLD  
  /* The ED-MAADDR for DSB-6-1-1 was completed. */  
  /* ED-MAADDR::DSB-6-1-1:::L3DFI2= FA [P72007] (1) */
```

RELATED COMMANDS

DLT-MAADDR
ENT-MAADDR
RTRV-MAADDR

COMMAND CODE: **ED-OC12**
COMMAND NAME: **EDIT OC12**

PURPOSE

The ED-OC12 command modifies the specified OC12 port parameter values previously provisioned using ENT-OC12.

Executing an ED-OC12 command causes the following primary state transitions for the specified OC12. Secondary states associated with the OC12 after the command is executed depend upon events detected by the system. Refer to Appendix G, State Transitions for additional information on state values and state transitions.

Entered PST,SST Value	Next PST State if Current PST State is:				
	IS	OOS-AU	OOS-AU,AINS	OOS-AUMA	OOS-MA
IS,<NoVal>	Denied	Denied	Denied	OOS-AU	IS
OOS,<NoVal>	OOS-MA	OOS-AUMA	Denied	Denied	Denied
IS,AINS	OOS-AU,AINS	OOS-AU,AINS	Denied	OOS-AU,AINS	OOS-AU,AINS
IS,AINS-DEA	Denied	Denied	OOS-AU	Denied	Denied
OOS,AINS-DEA	Denied	Denied	OOS-AUMA	Denied	Denied

Note: 1. <NoVal> means no value is entered for the SST parameter.
2. No state change occurs if no value is entered for PST and SST.
3. ED-OC12 is denied if SST of AINS-DEA is entered and the current OS12 state is not OOS-AU,AINS (an SST state of AINS).

When an OC12 is edited to an OOS-MA or OOS-AUMA state, a MAN condition type is set for the specified OC12. The MAN condition type is cleared when the OC12 is provisioned to an OOS-AU or IS state.

When an OC12 is in an OOS-MA, OOS-AUMA, or OOS-AU,AINS state, no OC12 transmission condition types or performance monitoring threshold crossing alerts are autonomously reported for the OC12, but OC12 alarm conditions are monitored (retrievable with the RTRV-OC12 command) and performance monitoring data is collected (if provisioned for PM collection by the SET-PMODE-OC12 command) for the OC12. An OC12 in an OOS-AU,AINS state transitions to an IS state when all OC12 near-end alarm conditions for that OC12 have cleared.

When an OC12 in ring mode (refer to ENT-RNG-OC12) is edited to an OOS state, path AIS is sent on all the pass through paths, AIS-L is also sent on the OC12 in the upstream direction, and all the switched paths switch to the redundant paths. For a 2WAY cross connection from an odd-numbered ring OC12 to either an EC1 or another non-ring OC12, no maintenance action is taken by the system.

An ED-OC12 command is denied if:

- The specified OC12 has not previously been provisioned with the ENT-OC12 command.
- The specified OC12 is being edited from an IS or OOS-AU state to an IS state.
- The specified OC12 is being edited from an OOS-MA or OOS-AUMA state to an OOS,<Null> state.
- The specified OC12 is being edited from an OOS-MA or OOS-AUMA state to an IS or OOS-AU,AINS state and the specified OC12 is in a loopback (the OC12 has an SST of LPBK).
- The specified OC12 is being edited in an IS or OOS state and the OC12 is carrying traffic (the OC12 does not have an SST of STBYH), unless CMDMDE=FRCD is used.
- The specified OC12 is defined as part of a ring (using ENT-RNG-OC12) with PST of OOS, CMDMDE is either not specified or specified as NORMAL, and the Section and/or Line DCC is enabled.
- An invalid parameter value or combination of parameter values is entered.

I/O protection switching is disabled if the OC12 port supported by the O4M and three S3M circuit packs is provisioned to an OOS-MA or OOS-AUMA state.

INPUT FORMAT

ED-OC12: [TID]:AID: [CTAG]::: [AINSTH=] [, CMDMDE=] [, S1TRANS=] [, SDTHSW=]: [PST]
[, SST];

INPUT PARAMETERS

TID	< 1–20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	OC12_AID: {OC12–{1–560}} (OC12–OC12#) Default: Entry Required Addressing: &&–ranging and &–grouping Description: OC12 AID, identifies the OC12 port or range of ports.
CTAG	< 1–6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
AINSTH=	{HH–MM:{00–48} – {00–59} } Default: Previously existing value Addressing: None Description: Automatic In–Service Threshold, specifies how long a customer signal must be present on the facility without a LOS, LOF, or AIS–L alarm condition before the system puts the facility into the In–Service state. The factory default is 8 hours. The valid value is: HH–MM Time, specifies the duration of an alarm–free signal where value HH indicates the time duration in hours and value MM indicates the time duration in minutes. The valid range of values is 00–48 and 00–59 (in increments of 1 minute), respectively. Restrictions: If 48 is entered in HH, then MM has to be 00.
CMDMDE=	{FRCD, NORM} Default: {NORM} Addressing: None Description: Command Execution Mode. Values are: FRCD Forced. The command is accepted and parameter values are modified even if the OC12 is at present carrying traffic. NORM Normal. The command is denied if the OC12 is presently carrying traffic (i.e. it does not have a secondary state of STBYH).
S1TRANS=	{DUS, ACT} Default: <Previously Existing Value> Addressing: None Description: S1 byte to be transmitted, determines if the transmitted S1 byte of the specified OC12 will have the “DUS” message or will have the actual traceability of the signal. Values are: DUS Don’t USE. The S1 byte is set to “DON’T USE for Synchronization” message. ACT ACTual. The S1 byte is set to the actual traceability of the signal.

SDTHSW=	{5, 6, 7, 8, 9}	
	Default:	<Previously Existing Value>
	Addressing:	None
	Description:	Signal Degrade Threshold Switching level, indicates the signal degrade threshold over which Signal Degrade protection switching is initiated. Values are:
	5	BER threshold of 10E-5.
	6	BER threshold of 10E-6.
	7	BER threshold of 10E-7.
	8	BER threshold of 10E-8.
	9	BER threshold of 10E-9.
PST	{IS, OOS}	
	Default:	<PST VALUE DETERMINED BY THE CURRENT OC12 STATE> (A PST value of IS if the current state is IS or OOS-AU) (A PST value of OOS if the current state is OOS-AUMA or OOS-MA)
	Addressing:	None
	Description:	Primary State, specifies the primary state to provision the OC12. Values are:
	IS	In-Service, the OC12 is provisioned to an IS or OOS-AU state.
	OOS	Out-Of-Service, the OC12 is provisioned to an OOS-AUMA or OOS-MA state.
	Restrictions:	ED-OC12 is denied if PST of OOS and SST of AINS is entered.
SST	{AINS, AINS-DEA}	
	Default:	<Null> (Unpopulated)
	Addressing:	None
	Description:	Secondary State, specifies the secondary state to provision the OC12. Values are:
	AINS	Automatic In-Service, if PST,SST of IS,AINS is entered the OC12 is provisioned to an OOS-AU,AINS state.
	AINS-DEA	Automatic In-Service-Deactivate, the OC12 is not provisioned to an OOS-AU,AINS state. The OC12's SST value is entered as <Null> (unpopulated) and the SST state is determined by its provisioned PST value and system detected events.
	Restrictions:	ED-OC12 is denied if SST of AINS and PST of OOS is entered. ED-OC12 is denied if SST of AINS-DEA is entered and the current OC12 state is not OOS-AU,AINS (an SST state of AINS).

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  /* <Free Form Informational Text> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent
IDNV	Input, Data Not Valid
IIAC	Input, Invalid ACcess identifier
SAIS	Status, Already In Service
SAOS	Status, Already Out of Service
SDBE	Status, internal Data Base Error /* TP Database Error: <ERROR-STRING> for <AID-STRING> */ /* Error updating supported STS1s/STS3Cs */ /* FFP Database Error: <ERROR-STRING> for record number <RECORD- NUMBER> */ /*DCC Database Error: <ERROR-STRING> for <AID-STRING>*/
SNVS	Status, Not in Valid State /*To edit an In-Service traffic carrying port, set CMDMDE=FRCD*/ /*Section and/or Line DCC In-Service, set CMDMDE=FRCD*/ /*An In-Service non-STBYH STS1 or VT1.5 connection exists, must be FRCD*/
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, OC12 port OC12-14 provisioning is changed to the OOS-AU,AINS state. All other parameter values are unchanged.

```
ED-OC12::OC12-14:::::IS,AINS;
```

In the following example, OC12 port OC12-14 and OC12-16 have previously been provisioned, but OC12-15 has not been provisioned, with the ENT-OC12 command. An ED-OC12 command is entered to change the provisioning of OC12 ports OC12-14 through OC12-16, using &&-ranging, to the OOS-MA state. All other parameter values are unchanged.

```
ED-OC12::OC12-14&&-16:::::OOS;
```

For this example, the output response shown assumes CID 1 was used to enter the command and a system generated CTAG value of Pfc518. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pfc518 PRTL
"OC12-15:ERRCDE=SNVS"
/* Status, Not in Valid State */
/* The port is not provisioned */
/* ED-OC12::OC12-14&&-16:::::OOS [Pfc518] (1) */
;
```

RELATED COMMANDS

DLT-OC12
ENT-OC12
RMV-OC12
RST-OC12
RTRV-OC12

COMMAND CODE: **ED-OC3**
COMMAND NAME: **EDIT OC3**

PURPOSE

The ED-OC3 command modifies the specified OC3 port parameter values previously provisioned using ENT-OC3.

Executing an ED-OC3 command causes the following primary state transitions for the specified OC3. Secondary states associated with the OC3 after the command is executed depend upon events detected by the system. Refer to Appendix G, State Transitions for additional information on state values and state transitions.

Entered PST,SST Value	Next PST State if Current PST State is:				
	IS	OOS-AU	OOS-AU,AINS	OOS-AUMA	OOS-MA
IS,<NoVal>	Denied	Denied	Denied	OOS-AU	IS
OOS,<NoVal>	OOS-MA	OOS-AUMA	Denied	Denied	Denied
IS,AINS	OOS-AU,AINS	OOS-AU,AINS	Denied	OOS-AU,AINS	OOS-AU,AINS
IS,AINS-DEA	Denied	Denied	OOS-AU	Denied	Denied
OOS,AINS-DEA	Denied	Denied	OOS-AUMA	Denied	Denied

Note: 1. <NoVal> means no value is entered for the SST parameter.
2. No state change occurs if no value is entered for PST and SST.
3. ED-OC3 is denied if SST of AINS-DEA is entered and the current OS-3 state is not OOS-AU,AINS (an SST of AINS).

When an OC3 is edited to an OOS-MA or OOS-AUMA state, a MAN condition type is set for the specified OC3. The MAN condition type is cleared when the OC3 is provisioned to an OOS-AU or IS state.

When an OC3 is in an OOS-MA, OOS-AUMA, or OOS-AU,AINS state, no OC3 transmission condition types or performance monitoring threshold crossing alerts are autonomously reported for the OC3, but OC3 alarm conditions are monitored (retrievable with the RTRV-OC3 command) and performance monitoring data is collected (if provisioned for PM collection by the SET-PMODE-OC3 command) for the OC3. An OC3 in an OOS-AU,AINS state transitions to an IS state when all OC3 near-end alarm conditions for that OC3 have cleared.

When an OC3 in ring mode (refer to ENT-RNG-OC3) is edited to an OOS state, path AIS is sent on all the pass through paths, AIS-L is also sent on the OC3 in the upstream direction, and all the switched paths switch to the redundant paths. For a 2WAY cross connection from an odd-numbered ring OC3 to either an EC1 or another non-ring OC3, no maintenance action is taken by the system.

An ED-OC3 command is denied if:

- The specified OC3 has not previously been provisioned with the ENT-OC3 command.
- The specified OC3 is being edited from an IS or OOS-AU state to an IS state.
- The specified OC3 is being edited from an OOS-MA or OOS-AUMA state to an OOS,<Null> state.
- The specified OC3 is being edited from an OOS-MA or OOS-AUMA state to an IS or OOS-AU,AINS state and the specified OC3 is in a loopback (the OC3 has an SST of LPBK).
- The specified OC3 is being edited in an IS or OOS state and the OC3 is carrying traffic (the OC3 does not have an SST of STBYH), unless CMDMDE=FRCD is used.
- The specified OC3 is defined as part of a ring (using ENT-RNG-OC3) with PST of OOS, CMDMDE is either not specified or specified as NORMAL, and the Section and/or Line DCC is enabled.
- An invalid parameter value or combination of parameter values is entered.

I/O protection switching is disabled if the OC3 port supported by the O1B circuit pack is provisioned to an OOS-MA or OOS-AUMA state.

INPUT FORMAT

ED-OC3 : [TID] : AID : [CTAG] : : [AINSTH=] [, CMDMDE=] [, S1TRANS=] [, SDTHSW=] : [PST]
[, SST] ;

INPUT PARAMETERS

TID	< 1–20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	OC3_AID: {OC3–{1–2240}} (OC3–OC3#) Default: Entry Required Addressing: &&–ranging and &–grouping Description: OC3 AID, identifies the OC3 port or range of ports.
CTAG	< 1–6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
AINSTH=	{HH–MM:{00–48} – {00–59} } Default: Previously existing value. Addressing: None Description: Automatic In–Service Threshold, specifies how long a customer signal must be present on the facility without a LOS, LOF, or AIS–L alarm condition before the system puts the facility into the In–Service state. The factory default is 8 hours. The valid value is: HH–MM Time, specifies the duration of an alarm–free signal where value HH indicates the time duration in hours and value MM indicates the time duration in minutes. The valid range of values is 00–48 and 00–59 (in increments of 1 minute), respectively. Restrictions: If 48 is specified in HH, then MM has to be 00.
CMDMDE=	{FRCD, NORM} Default: {NORM} Addressing: None Description: Command Execution Mode. Values are: FRCD Forced. The command is accepted and parameter values are modified even if the OC3 is at present carrying traffic. NORM Normal. The command is denied if the OC3 is presently carrying traffic (i.e., it does not have a secondary state of STBYH).
S1TRANS=	{DUS, ACT} Default: <Previously Existing Value> Addressing: None Description: S1 byte to be transmitted, determines if the transmitted S1 byte of the specified OC3 will have the “DUS” message or will have the actual traceability of the signal. Values are: DUS Don’t USE. The S1 byte is set to “DON’T USE for Synchronization” message. ACT ACTual. The S1 byte is set to the actual traceability of the signal.

SDTHSW=	{5, 6, 7, 8, 9}	
	Default:	<Previously Existing Value>
	Addressing:	None
	Description:	Signal Degrade Threshold Switching level, indicates the signal degrade threshold over which Signal Degrade protection switching is initiated. Values are:
	5	BER threshold of 10E-5.
	6	BER threshold of 10E-6.
PST	{IS, OOS}	
	Default:	<PST VALUE DETERMINED BY THE CURRENT OC3 STATE> (A PST value of IS if the current state is IS or OOS-AU) (A PST value of OOS if the current state is OOS-AUMA or OOS-MA)
	Addressing:	None
	Description:	Primary State, specifies the primary state to provision the OC3. Values are:
	IS	In-Service, the OC3 is provisioned to an IS or OOS-AU state.
	OOS	Out-Of-Service, the OC3 is provisioned to an OOS-AUMA or OOS-MA state.
SST	{AINS, AINS-DEA}	
	Default:	<Null> (Unpopulated)
	Addressing:	None
	Description:	Secondary State, specifies the secondary state to provision the OC3. Values are:
	AINS	Automatic In-Service, if PST,SST of IS,AINS is entered the OC3 is provisioned to an OOS-AU,AINS state.
	AINS-DEA	Automatic In-Service-Deactivate, the OC3 is not provisioned to an OOS-AU,AINS state. The OC3's SST value is entered as <Null> (unpopulated) and the SST state is determined by its provisioned PST value and system detected events.
	Restrictions:	ED-OC3 is denied if PST of OOS and SST of AINS is entered.
		ED-OC3 is denied if SST of AINS and PST of OOS is entered.
		ED-OC3 is denied if SST of AINS-DEA is entered and the current OC3 state is not OOS-AU,AINS (an SST state of AINS).

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  /* <Free Form Informational Text> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent
IDNV	Input, Data Not Valid
IIAC	Input, Invalid ACcess identifier
SAIS	Status, Already In Service
SAOS	Status, Already Out of Service
SDBE	Status, internal Data Base Error /* TP Database Error: <ERROR-STRING> for <AID-STRING> */ /* Error updating supported STS1s/STS3Cs */ /* FFP Database Error: <ERROR-STRING> for record number <RECORD- NUMBER> */ /*DCC Database Error: <ERROR-STRING> for <AID-STRING>*/
SNVS	Status, Not in Valid State /*To edit an In-Service traffic carrying port, set CMDMDE=FRCD*/ /*Section and/or Line DCC In-Service, set CMDMDE=FRCD*/ /*An In-Service non-STBYH STS1 or VT1.5 connection exists, must be FRCD*/
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, OC3 port OC3-14 provisioning is changed to the OOS-AU,AINS state. All other parameter values are unchanged.

```
ED-OC3::OC3-14:::::IS,AINS;
```

In the following example, OC3 port OC3-14 and OC3-16 have previously been provisioned, but OC3-15 has not been provisioned, with the ENT-OC3 command. An ED-OC3 command is entered to change the provisioning of OC3 ports OC3-14 through OC3-16, using &&-ranging, to the OOS-MA state. All other parameter values are unchanged.

```
ED-OC3::OC3-14&&-16:::::OOS;
```

For this example, the output response shown assumes CID 1 was used to enter the command and a system generated CTAG value of Pfc518. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M Pfc518 PRTL  
"OC3-15:ERRCDE=SNVS"  
/* Status, Not in Valid State */  
/* The port is not provisioned */  
/* ED-OC3::OC3-14&&-16:::::OOS [Pfc518] (1) */  
;
```

RELATED COMMANDS

```
DLT-OC3  
ENT-OC3  
RMV-OC3  
RST-OC3  
RTRV-OC3  
RTRV-SYSTMSG-OC3
```

COMMAND CODE: **ED-OSADDR-SITE**
COMMAND NAME: **EDIT OPERATIONS SYSTEM ADDRESS
SITE**

PURPOSE

The ED-OSADDR-SITE command edits the AUTOIN parameter value associated with an X.25 incoming SVC calling address entry in the system's X.25 Incoming SVC Calling Address database. Changes to the AUTOIN parameter value in the database take affect on the next incoming X.25 SVC call request received by the system.

An ED-OSADDR-SITE command is denied if:

- The specified ADDR value is not an entry in the system's X.25 Incoming SVC Calling Address database.
- An invalid parameter value is entered.

The ED-OSADDR-SITE command only changes the AUTOIN parameter value associated with an X.25 incoming SVC calling address entry in the system's X.25 Incoming SVC Calling Address database. The ENT-OSADDR-SITE command adds an X.25 incoming SVC calling address entry to the database. The DLT-OSADDR-SITE command removes an incoming SVC calling address from the database. The RTRV-OSADDR-SITE command retrieves the contents of the system's X.25 Incoming SVC Calling Address database.

User login security is removed by provisioning an X.25 SVC with automatic UID login since anyone with access to the communication interface has the same command privileges as the UID provisioned in the AUTOIN parameter.

A virtual channel connected to a printer terminal (refer to the TYPE parameter in the ENT-USER command) should be configured for automatic UID login. If the virtual channel is configured for a normal login sequence (AUTOIN of %), the system waits for an ACT-USER command (indefinitely if an output-only printer terminal is connected).

INPUT FORMAT

ED-OSADDR-SITE: [TID] : : [CTAG] : : ADDR, [AUTOIN] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
ADDR	<1-15 INTEGER X.25_CALLING_ADDRESS> Default: Entry Required Addressing: None Description: X.25 Incoming SVC Calling Address, specifies the X.25 Incoming SVC Calling Address (the X.25 address for the system calling the 1631 SX) in the X.25 Incoming SVC Calling Address database for which the AUTOIN value is to be changed. If the value of ADDR is less than 10 digits, leading zeroes are truncated unless the ADDR value is entered enclosed within double quotes ("...").

AUTOIN	{%, <UID> }	
	Default:	<Previously Existing Value>
	Addressing:	None
	Description:	Automatic Login, specifies whether a User ID is automatically logged-in to the system when an X.25 incoming SVC call request packet is received with an incoming SVC calling address matching the entered ADDR value. Values are:
	%	No Automatic Login, a normal log-in sequence (via ACT-USER) is required to access the system.
	<UID>	UID Automatically Logged-in, the entered User ID (UID) is automatically logged-in when an X.25 incoming SVC call request packet is received with an incoming SVC calling address matching the entered ADDR value.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
/* <ADDR>,<AUTOIN> */
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

ADDR	<1-15 INTEGER X.25_CALLING_ADDRESS> X.25 Incoming SVC Calling Address, indicates the X.25 Incoming SVC Calling Address (the X.25 address for the system calling the 1631 SX) in the X.25 Incoming SVC Calling Address database.
AUTOIN	{%, <UID>} Automatic Login, identifies the User ID that is automatically logged-in to the system when an X.25 incoming SVC call request packet is received with an incoming SVC calling address matching the entered ADDR value. Values are:
	% No Automatic Login, a normal log-in sequence (via ACT-USER) is required to access the system.
	<UID> UID Automatically Logged-in, the User ID (UID) is automatically logged-in when an X.25 incoming SVC call request packet is received with a calling address matching the entered ADDR value.

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Optional Suggested Action Text> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IPNV	Input, Parameter Not Valid /* Illegal Input: ADDR */ /* Illegal Input: AUTOIN */ /* Unable to find requested OSADDR */ /* AUTO LOGIN (Illegal AUTOIN) */ /* AUTO LOGIN (Duplicate AUTOIN in OSADDR) */ /* AUTO LOGIN (Duplicate AUTOIN in OSDB) */ /* AUTO LOGIN (Non-Existent AUTOIN) */ /* AUTO LOGIN (TABS user on non-TABS CID) */ /* AUTO LOGIN (NON-TABS user on TABS CID) */
SDBE	Status, internal Data Base Error /* Unable to read OSADDR – status = <status number> */ /* Unable to update OSADDR – status = <status number>*/
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, auto-login is set to no UID auto-login (normal login sequence) for the X.25 incoming SVC calling address 14045551212 database entry.

```
ED-OSADDR-SITE:::::14045551212,%;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P1e010. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P1e010 COMPLD
/* 14045551212,% */
/* ED-OSADDR-SITE:::::14045551212,% [P1e010] (1) */
;
```

RELATED COMMANDS

```
DLT-CID
DLT-CID-VC
DLT-OSADDR-SITE
ED-CID
ED-CID-VC
ED-PRMTR-SITE
ENT-CID
ENT-CID-VC
ENT-OSADDR-SITE
RMV-CID
RST-CID
RTRV-CID
RTRV-OSADDR-SITE
RTRV-PRMTR-SITE
START-CID
STOP-CID
```


COMMAND CODE: **ED-PARTITN-EC1**
COMMAND NAME: **EDIT PARTITION EC1**

PURPOSE

The ED-PARTITN-EC1 command adds or deletes the specified EC1 port to/from the specified user facility partition (PARTNAM). (Refer to the Introduction for a description of User Facility Partitioning.)

The EC1 ports assigned to an EC1 facility partition need not be contiguous (physically or logically). A facility partition is only a logical mapping of ports to the partition. Any EC1 port can be added to an EC1 facility partition regardless of whether the port is provisioned or the port exists in the system.

A facility partition is created by specifying a unique partition name with the ENT-PARTITN command. EC1 facilities are assigned to an EC1 partition with the ED-PARTITN-EC1 command. A user is associated with a facility partition with the ENT-USER and ED-PRVG-USER commands.

An ED-PARTITN-EC1 command is denied if:

- The "User Partitioning" PFO is not enabled.
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

ED-PARTITN-EC1 : [TID] : AID : [CTAG] : : ACT , PARTNAM ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	EC1_AID: {EC1-{1-3840} } (EC1-EC1/STS1#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: EC1 AID, identifies the EC1 port to be added or deleted to the user facility partition specified by PARTNAM. Restrictions: ED-PARTITN-EC1 is denied if the specified AID is a member of another user facility partition. ED-PARTITN-EC1 is denied if the specified AID is not a member of the specified user facility partition and ACT of DLT is entered.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
ACT	{ADD, DLT} Default: Entry Required Addressing: None Description: Action, specifies whether the specified AID is to be added or deleted to/from the specified partition. Values are: ADD Add the specified EC1 port to the specified partition. DLT Delete the specified EC1 port from the specified partition. Restrictions: ED-PARTITN-EC1 is denied if ACT of DLT is entered and the specified AID is not a member of the specified user facility partition.
PARTNAM	<1-20 CHARACTER VALID PARTITION NAME> Default: Entry Required Addressing: None Description: Partition Name, specifies the name of the user facility partition. Restrictions: ED-PARTITN-EC1 is denied if a PARTNAM of "ALL" is entered.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Optional Suggested Action Text> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

ENFE	Equipage, FEature Not provided
IDNV	Input, Data Not Valid /* Invalid Partition Name */ /* ALL cannot be used as a partition name */
IIAC	Input, Invalid ACcess identifier /* Port Already in other Partition */ /* Port is not assigned to a partition */ /* Port already in partition */
IIFM	Input, Invalid data ForMat /* PARTNAM length */ /* Illegal Input: ACT length */
IPNV	Input, Parameter Not Valid /* PARTNAM */ /* Illegal Input: ACT */
SDBE	Status, internal Data Base Error /* Error accessing the PARTITION DB – status = <status number> */

EXAMPLES

In the following example, EC1 ports EC1–1 through EC1–28 are added to the facility partition PARTITION1.

```
ED-PARTITN-EC1::EC1-1&&-28:::ADD, PARTITION1;
```

In the following example, EC1 port EC1–15 is deleted from the user facility partition PARTITION1.

```
ED-PARTITN-EC1::EC1-15:::DLT, PARTITION1;
```

RELATED COMMANDS

DLT-PARTITN
ED-PARTITN-F3
ED-PARTITN-OC3
ED-PARTITN-ST51
ED-PARTITN-ST53C
ED-PARTITN-T1
ED-PARTITN-T3
ED-PARTITN-VT1
ED-PRVG-USER
ENT-PARTITN
ENT-USER
RTRV-PARTITN

COMMAND CODE: **ED-PARTITN-F3**
COMMAND NAME: **EDIT PARTITION F3**

PURPOSE

The ED-PARTITN-F3 command adds or deletes the specified F3 port to/from the specified user facility partition (PARTNAM). (Refer to the Introduction for a description of User Facility Partitioning.)

The F3 ports assigned to a F3 facility partition need not be contiguous (physically or logically). A facility partition is only a logical mapping of ports to the partition. Any F3 port can be added to a F3 facility partition regardless of whether the port is provisioned or the port exists in the system.

A facility partition is created by specifying a unique partition name with the ENT-PARTITN command. F3 facilities are assigned to a F3 partition with the ED-PARTITN-F3 command. A user is associated with a facility partition with the ENT-USER and ED-PRVG-USER commands.

An ED-PARTITN-F3 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

ED-PARTITN-F3 : [TID] : AID : [CTAG] : : ACT , PARTNAM ;

INPUT PARAMETERS

TID	<p>< 1-20 VALID TID CHARACTERS ></p> <p>Default: <SID></p> <p>Addressing: None</p> <p>Description: Target Identifier, specifies the network node TID for the command.</p>
AID	<p>F3_AID:</p> <p>{T3F3-{1-4800}-{1-14}}</p> <p>(T3F3-DS3#-Fractional_DS3#)</p> <p>Default: Entry Required</p> <p>Addressing: &&-ranging and &-grouping</p> <p>Description: F3 AID, identifies the F3 port to be added or deleted to the user facility partition specified by PARTNAM.</p> <p>Restrictions: ED-PARTITN-F3 is denied if the specified AID is already a member of another user facility partition. ED-PARTITN-F3 is denied if the specified AID is not a member of the specified user facility partition and ACT of DLT is entered.</p>
CTAG	<p>< 1-6 VALID CTAG CHARACTERS ></p> <p>Default: < System assigned CTAG value ></p> <p>Addressing: None</p> <p>Description: Correlation Tag, associates input command with its output responses.</p>
ACT	<p>{ADD, DLT}</p> <p>Default: Entry Required</p> <p>Addressing: None</p> <p>Description: Action, specifies whether the specified AID is to be added or deleted to/from the specified partition. Values are:</p> <p>ADD Add the specified F3 port to the specified partition.</p> <p>DLT Delete the specified F3 port from the specified partition.</p> <p>Restrictions: ED-PARTITN-F3 is denied if ACT of DLT is entered and the specified AID is not a member of the specified user facility partition.</p>
PARTNAM	<p><1-20 CHARACTER VALID PARTITION NAME></p> <p>Default: Entry Required</p> <p>Addressing: None</p> <p>Description: Partition Name, specifies the name of the user facility partition.</p> <p>Restrictions: ED-PARTITN-F3 is denied if a PARTNAM of "ALL" is entered.</p>

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Optional Suggested Action Text> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

ENFE	Equipage, FEature Not provided
IDNV	Input, Data Not Valid /* Invalid Partition Name */ /* ALL can not be used as a partition name */
IIAC	Input, Invalid ACcess identifier /* Port already in other Partition */ /* Port is not assigned to a partition */ /* Port already in partition */
IIFM	Input, Invalid data ForMat /* PARTNAM length */ /* Illegal Input: ACT length */
IPNV	Input, Parameter Not Valid /* PARTNAM */ /* Illegal Input: ACT */
SDBE	Status, internal Data Base Error /* Error accessing the PARTITION DB – status = <status number> */

EXAMPLES

In the following example, F3 ports T3F3–125–4 through T3F3–125–9 are added to the user facility partition PARTITIONF3.

```
ED-PARTITN-F3::F3F3-125-4&&-9:::ADD, PARTITIONF3;
```

In the following example, F3 port T3F3–8–1 is deleted from the user facility partition PARTITIONF3.

```
ED-PARTITN-F3::T3F3-8-1:::DLT, PARTITIONF3;
```

RELATED COMMANDS

DLT-PARTITN
ED-PARTITN-EC1
ED-PARTITN-OC3
ED-PARTITN-ST51
ED-PARTITN-ST53C
ED-PARTITN-T1
ED-PARTITN-T3
ED-PARTITN-VT1
ED-PRVG-USER
ENT-PARTITN
ENT-USER
RTRV-PARTITN

COMMAND CODE: **ED-PARTITN-OC12**
COMMAND NAME: **EDIT PARTITION OC12**

PURPOSE

The ED-PARTITN-OC12 command adds or deletes the specified OC-12 port to/from the specified user facility partition (PARTNAM). (Refer to the Introduction for a description of User Facility Partitioning.)

The OC-12 ports assigned to an OC-12 facility partition need not be contiguous (physically or logically). A facility partition is only a logical mapping of ports to the partition. Any OC-12 port can be added to an OC-12 facility partition regardless of whether the port is provisioned or the port exists in the system.

A facility partition is created by specifying a unique partition name with the ENT-PARTITN command. OC-12 facilities are assigned to an OC-12 partition with the ED-PARTITN-OC12 command. A user is associated with a facility partition with the ENT-USER and ED-PRVG-USER commands.

An ED-PARTITN-OC12 command is denied if:

- The "User Partitioning" PFO is not enabled.
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

ED-PARTITN-OC12 : [TID] : AID : [CTAG] : : ACT , PARTNAM ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	OC12_AID: {OC12-{1-560}} (OC12-OC12#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: OC12 AID, identifies the OC-12 port to be added or deleted to the user facility partition specified by PARTNAM. Restrictions: ED-PARTITN-OC12 is denied if the specified AID is a member of another user facility partition. ED-PARTITN-OC12 is denied if the specified AID is not a member of the specified user facility partition and ACT of DLT is entered.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
ACT	{ADD, DLT} Default: Entry Required Addressing: None Description: Action, specifies whether the specified AID is to be added or deleted to/from the specified partition. Values are: ADD Add the specified OC-12 port to the specified partition. DLT Delete the specified OC-12 port from the specified partition. Restrictions: ED-PARTITN-OC12 is denied if ACT of DLT is entered and the specified AID is not a member of the specified user facility partition.
PARTNAM	<1-20 CHARACTER VALID PARTITION NAME> Default: Entry Required Addressing: None Description: Partition Name, specifies the name of the user facility partition. Restrictions: ED-PARTITN-OC12 is denied if a PARTNAM of "ALL" is entered.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Optional Suggested Action Text> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

ENFE	Equipage, FEature Not provided
IDNV	Input, Data Not Valid /* Invalid Partition Name */ /* ALL cannot be used as a partition name */
IIAC	Input, Invalid ACcess identifier /* Port Already in other Partition */ /* Port is not assigned to a partition */ /* Port already in partition */ /* PARTNAM length */ /* Illegal Input: ACT length */
IPNV	Input, Parameter Not Valid /* PARTNAM */ /* Illegal Input: ACT */
SDBE	Status, internal Data Base Error /* Error accessing the PARTITION DB – status = <status number> */

EXAMPLES

In the following example, OC-12 ports OC12-1 through OC12-28 are added to the facility partition PARTITION1.

```
ED-PARTITN-OC12::OC12-1&&-28::ADD, PARTITION1;
```

In the following example, OC-12 port OC12-15 is deleted from the user facility partition PARTITION1.

```
ED-PARTITN-OC12::OC12-15::DLT, PARTITION1;
```

RELATED COMMANDS

DLT-PARTITN
ED-PARTITN-EC1
ED-PARTITN-F3
ED-PARTITN-ST51
ED-PARTITN-ST53C
ED-PARTITN-T1
ED-PARTITN-T3
ED-PARTITN-VT1
ED-PRVG-USER
ENT-PARTITN
ENT-USER
RTRV-PARTITN

COMMAND CODE: **ED-PARTITN-OC3**
COMMAND NAME: **EDIT PARTITION OC-3**

PURPOSE

The ED-PARTITN-OC3 command adds or deletes the specified OC-3 port to/from the specified user facility partition (PARTNAM). (Refer to the Introduction for a description of User Facility Partitioning.)

The OC-3 ports assigned to an OC-3 facility partition need not be contiguous (physically or logically). A facility partition is only a logical mapping of ports to the partition. Any OC-3 port can be added to an OC-3 facility partition regardless of whether the port is provisioned or the port exists in the system.

A facility partition is created by specifying a unique partition name with the ENT-PARTITN command. OC-3 facilities are assigned to an OC-3 partition with the ED-PARTITN-OC3 command. A user is associated with a facility partition using the ENT-USER and ED-PRVG-USER commands.

An ED-PARTITN-OC3 command is denied if:

- The "User Partitioning" PFO is not enabled.
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

ED-PARTITN-OC3 : [TID] : AID : [CTAG] : : ACT , PARTNAM ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	OC3_AID: {OC3-{1-2240}} (OC3-OC3#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: OC3 AID, identifies the OC-3 port to be added or deleted to the user facility partition specified by PARTNAM. Restrictions: ED-PARTITN-OC3 is denied if the specified AID is a member of another user facility partition. ED-PARTITN-OC3 is denied if the specified AID is not a member of the specified user facility partition and ACT of DLT is entered.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
ACT	{ADD, DLT} Default: Entry Required Addressing: None Description: Action, specifies whether the specified AID is to be added or deleted to/from the specified partition. Values are: ADD Add the specified OC-3 port to the specified partition. DLT Delete the specified OC-3 port from the specified partition. Restrictions: ED-PARTITN-OC3 is denied if ACT of DLT is entered and the specified AID is not a member of the specified user facility partition.
PARTNAM	<1-20 CHARACTER VALID PARTITION NAME> Default: Entry Required Addressing: None Description: Partition Name, specifies the name of the user facility partition. Restrictions: ED-PARTITN-OC3 is denied if a PARTNAM of "ALL" is entered.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Optional Suggested Action Text> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

ENFE	Equipage, FEature Not provided
IDNV	Input, Data Not Valid /* Invalid Partition Name */ /* ALL cannot be used as a partition name */
IIAC	Input, Invalid ACcess identifier /* Port Already in other Partition */ /* Port is not assigned to a partition */ /* Port already in partition */
	/* PARTNAM length */ /* Illegal Input: ACT length */
IPNV	Input, Parameter Not Valid /* PARTNAM */ /* Illegal Input: ACT */
SDBE	Status, internal Data Base Error /* Error accessing the PARTITION DB – status = <status number> */

EXAMPLES

In the following example, OC–3 ports OC3–1 through OC3–28 are added to the facility partition PARTITION1.

```
ED-PARTITN-OC3::OC3-1&&-28:::ADD, PARTITION1;
```

In the following example, OC–3 port OC3–15 is deleted from the user facility partition PARTITION1.

```
ED-PARTITN-OC3::OC3-15:::DLT, PARTITION1;
```

RELATED COMMANDS

DLT-PARTITN
ED-PARTITN-EC1
ED-PARTITN-F3
ED-PARTITN-OC12
ED-PARTITN-STS1
ED-PARTITN-STS3C
ED-PARTITN-T1
ED-PARTITN-T3
ED-PARTITN-VT1
ED-PRVG-USER
ENT-PARTITN
ENT-USER
RTRV-PARTITN

COMMAND CODE: **ED-PARTITN-STs1**
COMMAND NAME: **EDIT PARTITION STs-1**

PURPOSE

The ED-PARTITN-STs1 command adds or deletes the specified STs-1 port to/from the specified user facility partition (PARTNAM). (Refer to the Introduction for a description of User Facility Partitioning.)

The STs-1 ports assigned to an STs-1 facility partition need not be contiguous (physically or logically). A facility partition is only a logical mapping of ports to the partition. Any STs-1 port can be added to an STs-1 facility partition regardless of whether the port is provisioned or the port exists in the system.

A facility partition is created by specifying a unique partition name with the ENT-PARTITN command. STs-1 facilities are assigned to an STs-1 partition with the ED-PARTITN-STs1 command. A user is associated with a facility partition using the ENT-USER and ED-PRVG-USER commands.

An ED-PARTITN-STs1 command is denied if:

- The "User Partitioning" PFO is not enabled.
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

ED-PARTITN-STs1 : [TID] : AID : [CTAG] : : ACT, PARTNAM;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >
	Default: <SID>
	Addressing: None
	Description: Target Identifier, specifies the network node TID for the command.
AID	STS1_AID: {EC1STS1-{1-3840}} (EC1STS1-EC1/STS1#) {OC3STS1-{1-2240}-{1-3}} (OC3STS1-OC3#-STS1#) {OC12STS1-{1-560}-{1-4}-{1-3}} (OC12STS1-OC12#-STM1#-STS1#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: STS1 AID, identifies the STS-1 port to be added or deleted to the user facility partition specified by PARTNAM. Restrictions: ED-PARTITN-STS1 is denied if the specified AID is a member of another user facility partition. ED-PARTITN-STS1 is denied if the specified AID is not a member of the specified user facility partition and ACT of DLT is entered.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
ACT	{ADD, DLT} Default: Entry Required Addressing: None Description: Action, specifies whether the specified AID is to be added or deleted to/from the specified partition. Values are: ADD Add the specified STS-1 port to the specified partition. DLT Delete the specified STS-1 port from the specified partition. Restrictions: ED-PARTITN-STS1 is denied if ACT of DLT is entered and the specified AID is not a member of the specified user facility partition.

PARTNAM	<1–20 CHARACTER VALID PARTITION NAME>
Default:	Entry Required
Addressing:	None
Description:	Partition Name, specifies the name of the user facility partition.
Restrictions:	ED–PARTITN–STS1 is denied if a PARTNAM of “ALL” is entered.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* <Command Echo> [<CTAG>] (<CID [-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Optional Suggested Action Text> */]
  [/* <Command Echo> [<CTAG>] (<CID [-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non–Parser Error Codes used with this command are:

ENFE	Equipage, FEature Not provided
IDNV	Input, Data Not Valid /* Invalid Partition Name */ /* ALL cannot be used as a partition name */
IIAC	Input, Invalid ACcess identifier /* Port Already in other Partition */ /* Port is not assigned to a partition */ /* Port already in partition */
IIFM	Input, Invalid data ForMat /* PARTNAM length */ /* Illegal Input: ACT length */
IPNV	Input, Parameter Not Valid /* PARTNAM */ /* Illegal Input: ACT */
SDBE	Status, internal Data Base Error /* Error accessing the PARTITION DB – status = <status number> */

EXAMPLES

In the following example, STS–1 ports STS1–1 through STS1–28 are added to the facility partition PARTITION1.

```
ED-PARTITN-STs1::STS1-1&&-28::ADD, PARTITION1;
```

In the following example, STS–1 port STS1–15 is deleted from the user facility partition PARTITION1.

```
ED-PARTITN-STs1::STS1-15::DLT, PARTITION1;
```

RELATED COMMANDS

DLT-PARTITN
ED-PARTITN-EC1
ED-PARTITN-F3
ED-PARTITN-OC3
ED-PARTITN-OC12
ED-PARTITN-STS3C
ED-PARTITN-T1
ED-PARTITN-T3
ED-PARTITN-VT1
ED-PRVG-USER
ENT-PARTITN
ENT-USER
RTRV-PARTITN

COMMAND CODE: **ED-PARTITN-STS3C**
COMMAND NAME: **EDIT PARTITION STS-3C**

PURPOSE

The ED-PARTITN-STS3C command adds or deletes the specified STS-3C port to/from the specified user facility partition (PARTNAM). (Refer to the Introduction for a description of User Facility Partitioning.)

The STS-3C ports assigned to an STS-3C facility partition need not be contiguous (physically or logically). A facility partition is only a logical mapping of ports to the partition. Any STS-3C port can be added to an STS-3C facility partition regardless of whether the port is provisioned or the port exists in the system.

A facility partition is created by specifying a unique partition name with the ENT-PARTITN command. STS-3C facilities are assigned to an STS-3C partition with the ED-PARTITN-STS3C command. A user is associated with a facility partition with the ENT-USER and ED-PRVG-USER commands.

An ED-PARTITN-STS3C command is denied if:

- The "User Partitioning" PFO is not enabled.
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

ED-PARTITN-STS3C: [TID] :AID: [CTAG] : :ACT, PARTNAM;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	STS3C_AID: {OC3STS3C-{1-2240}} (OC3STS3C-OC3#/STS3C#) {OC12STS3C-{1-560}-{1-4}} (OC12STS3C-OC12#-STM1/STS3C#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: STS3C AID, identifies the STS-3C port to be added or deleted to the user facility partition specified by PARTNAM. Restrictions: ED-PARTITN-STS3C is denied if the specified AID is a member of another user facility partition. ED-PARTITN-STS3C is denied if the specified AID is not a member of the specified user facility partition and ACT of DLT is entered.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
ACT	{ADD, DLT} Default: Entry Required Addressing: None Description: Action, specifies whether the specified AID is to be added or deleted to/from the specified partition. Values are: ADD Add the specified STS-3C port to the specified partition. DLT Delete the specified STS-3C port from the specified partition. Restrictions: ED-PARTITN-STS3C is denied if ACT of DLT is entered and the specified AID is not a member of the specified user facility partition.

PARTNAM	<1–20 CHARACTER VALID PARTITION NAME>
Default:	Entry Required
Addressing:	None
Description:	Partition Name, specifies the name of the user facility partition.
Restrictions:	ED–PARTITN–STS3C is denied if a PARTNAM of “ALL” is entered.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* <Command Echo> [<CTAG>] (<CID [-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Optional Suggested Action Text> */]
  [/* <Command Echo> [<CTAG>] (<CID [-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non–Parser Error Codes used with this command are:

ENFE	Equipage, FEature Not provided
IDNV	Input, Data Not Valid /* Invalid Partition Name */ /* ALL cannot be used as a partition name */
IIAC	Input, Invalid ACcess identifier /* Port Already in other Partition */ /* Port is not assigned to a partition */ /* Port already in partition */
IIFM	Input, Invalid data ForMat /* PARTNAM length */ /* Illegal Input: ACT length */
IPNV	Input, Parameter Not Valid /* PARTNAM */ /* Illegal Input: ACT */
SDBE	Status, internal Data Base Error /* Error accessing the PARTITION DB – status = <status number> */

EXAMPLES

In the following example, STS–3C ports OC3STS3C–1 through OC3STS3C–28 are added to the facility partition PARTITION1.

```
ED–PARTITN–STS3C::OC3STS3C-1&&-28:::ADD, PARTITION1;
```

In the following example, STS–3C port OC3STS3C–15 is deleted from the user facility partition PARTITION1.

```
ED–PARTITN–STS3C::OC3STS3C-15:::DLT, PARTITION1;
```

RELATED COMMANDS

DLT-PARTITN
ED-PARTITN-EC1
ED-PARTITN-F3
ED-PARTITN-OC3
ED-PARTITN-OC12
ED-PARTITN-STS1
ED-PARTITN-T1
ED-PARTITN-T3
ED-PARTITN-VT1
ED-PRVG-USER
ENT-PARTITN
ENT-USER
RTRV-PARTITN

COMMAND CODE: **ED-PARTITN-T1**
COMMAND NAME: **EDIT PARTITION T1**

PURPOSE

The ED-PARTITN-T1 command adds or deletes the specified DS1 port to/from the specified user facility partition (PARTNAM). (Refer to the Introduction for a description of User Facility Partitioning.)

The DS1 ports assigned to a DS1 facility partition need not be contiguous (physically or logically). A facility partition is only a logical mapping of ports to the partition. Any DS1 port can be added to a DS1 facility partition regardless of whether the port is provisioned or the port exists in the system.

A facility partition is created by specifying a unique partition name with the ENT-PARTITN command. DS1 facilities are assigned to a DS1 partition with the ED-PARTITN-T1 command. A user is associated with a facility partition using the ENT-USER and ED-PRVG-USER commands.

An ED-PARTITN-T1 command is denied if:

- The "User Partitioning" PFO is not enabled.
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

ED-PARTITN-T1 : [TID] : AID : [CTAG] : : ACT, PARTNAM;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.																
AID	<p>DS1_AID:</p> <table> <tr> <td>{T1-{1-59392}}</td><td>(T1-DS1#)</td></tr> <tr> <td>{T3T1-{1-4800}-{1-28}}</td><td>(T3T1-DS3#-DS1#)</td></tr> <tr> <td>{EC1T1-{1-3840}-{1-28}}</td><td>(EC1T1-EC1/STS1/DS3#-DS1#)</td></tr> <tr> <td>{EC1T1-{1-3840}-{1-7}-{1-4}}</td><td>(EC1T1-EC1/STS1#-VTGrp#-VT1/DS1#)</td></tr> <tr> <td>{OC3T1-{1-2240}-{1-3}-{1-28}}</td><td>(OC3T1-OC3#-STS1/DS3#-DS1#)</td></tr> <tr> <td>{OC3T1-{1-2240}-{1-3}-{1-7}-{1-4}}</td><td>(OC3T1-OC3#-STS1#-VTGrp#-VT1/DS1#)</td></tr> <tr> <td>{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}</td><td>(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)</td></tr> <tr> <td>{OC12T1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}</td><td>(OC12T1-OC12#-STM1#-STS1#-VTGrp#-VT1/DS1#)</td></tr> </table> <p>Default: Entry Required Addressing: &&-ranging and &-grouping Description: DS1 AID, identifies the DS1 port to be added or deleted to the user facility partition specified by PARTNAM. Restrictions: ED-PARTITN-T1 is denied if the specified AID is a member of another user facility partition. ED-PARTITN-T1 is denied if the specified AID is not a member of the specified user facility partition and ACT of DLT is entered.</p>	{T1-{1-59392}}	(T1-DS1#)	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)	{EC1T1-{1-3840}-{1-28}}	(EC1T1-EC1/STS1/DS3#-DS1#)	{EC1T1-{1-3840}-{1-7}-{1-4}}	(EC1T1-EC1/STS1#-VTGrp#-VT1/DS1#)	{OC3T1-{1-2240}-{1-3}-{1-28}}	(OC3T1-OC3#-STS1/DS3#-DS1#)	{OC3T1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3T1-OC3#-STS1#-VTGrp#-VT1/DS1#)	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}	(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)	{OC12T1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	(OC12T1-OC12#-STM1#-STS1#-VTGrp#-VT1/DS1#)
{T1-{1-59392}}	(T1-DS1#)																
{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)																
{EC1T1-{1-3840}-{1-28}}	(EC1T1-EC1/STS1/DS3#-DS1#)																
{EC1T1-{1-3840}-{1-7}-{1-4}}	(EC1T1-EC1/STS1#-VTGrp#-VT1/DS1#)																
{OC3T1-{1-2240}-{1-3}-{1-28}}	(OC3T1-OC3#-STS1/DS3#-DS1#)																
{OC3T1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3T1-OC3#-STS1#-VTGrp#-VT1/DS1#)																
{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}	(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)																
{OC12T1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	(OC12T1-OC12#-STM1#-STS1#-VTGrp#-VT1/DS1#)																
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.																

ACT	{ADD, DLT}	
	Default:	Entry Required
	Addressing:	None
	Description:	Action, specifies whether the specified AID is to be added or deleted to/ from the specified partition. Values are:
	ADD	Add the specified DS1 port to the specified partition.
	DLT	Delete the specified DS1 port from the specified partition.
	Restrictions:	ED-PARTITN-T1 is denied if ACT of DLT is entered and the specified AID is not a member of the specified user facility partition.
PARTNAM	<1-20 CHARACTER VALID PARTITION NAME>	
	Default:	Entry Required
	Addressing:	None
	Description:	Partition Name, specifies the name of the user facility partition.
	Restrictions:	ED-PARTITN-T1 is denied if a PARTNAM of "ALL" is entered.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Optional Suggested Action Text> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

ENFE	Equipage, FEature Not provided
IDNV	Input, Data Not Valid
	/* Invalid Partition Name */
	/* ALL cannot be used as a partition name */
IIAC	Input, Invalid ACcess identifier
	/* Port Already in other Partition */
	/* Port is not assigned to a partition */
	/* Port already in partition */
IIFM	Input, Invalid data ForMat
	/* PARTNAM length */
	/* Illegal Input: ACT length */
IPNV	Input, Parameter Not Valid
	/* PARTNAM */
	/* Illegal Input: ACT */
SDBE	Status, internal Data Base Error
	/* Error accessing the PARTITION DB – status = <status number> */

EXAMPLES

In the following example, DS1 ports T1-1 through T1-28 are added to the facility partition PARTITION1.

```
ED-PARTITN-T1::T1-1&&-28::ADD, PARTITION1;
```

In the following example, DS1 port T1–15 is deleted from the user facility partition PARTITION1.

```
ED-PARTITN-T1::T1-15::DLT, PARTITION1;
```

RELATED COMMANDS

```
DLT-PARTITN  
ED-PARTITN-EC1  
ED-PARTITN-F3  
ED-PARTITN-OC3  
ED-PARTITN-OC12  
ED-PARTITN-ST51  
ED-PARTITN-ST53C  
ED-PARTITN-T3  
ED-PARTITN-VT1  
ED-PRVG-USER  
ENT-PARTITN  
ENT-USER  
RTRV-PARTITN
```


COMMAND CODE: **ED-PARTITN-T3**
COMMAND NAME: **EDIT PARTITION T3**

PURPOSE

The ED-PARTITN-T3 command adds or deletes the specified DS3 port to/from the specified user facility partition (PARTNAM). (Refer to the Introduction for a description of User Facility Partitioning.)

The DS3 ports assigned to a DS3 facility partition need not be contiguous (physically or logically). A facility partition is only a logical mapping of ports to the partition. Any DS3 port can be added to a DS3 facility partition regardless of whether the port is provisioned or the port exists in the system.

A facility partition is created by specifying a unique partition name with the ENT-PARTITN command. DS3 facilities are assigned to a DS3 partition with the ED-PARTITN-T3 command. A user is associated with a facility partition using the ENT-USER and ED-PRVG-USER commands.

An ED-PARTITN-T3 command is denied if:

- The "User Partitioning" PFO is not enabled.
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

ED-PARTITN-T3 : [TID] : AID : [CTAG] : : ACT, PARTNAM;

INPUT PARAMETERS

TID	<p>< 1-20 VALID TID CHARACTERS ></p> <p>Default: <SID></p> <p>Addressing: None</p> <p>Description: Target Identifier, specifies the network node TID for the command.</p>
AID	<p>DS3_AID:</p> <p>{T3-{1-4800}} (T3-DS3#)</p> <p>{EC1T3-{1-3840}} (EC1T3-EC1/STS1/DS3#)</p> <p>{OC3T3-{1-2240}-{1-3}} (OC3T3-OC3#-STS1/DS3#)</p> <p>{OC12T3-{1-560}-{1-4}-{1-3}} (OC12T3-OC12#-STM1#-STS1/DS3#)</p> <p>Default: Entry Required</p> <p>Addressing: &&-ranging and &-grouping</p> <p>Description: DS3 AID, identifies the DS3 port to be added or deleted to the user facility partition specified by PARTNAM.</p> <p>Restrictions: ED-PARTITN-T3 is denied if the specified AID is already a member of another user facility partition. ED-PARTITN-T3 is denied if the specified AID is not a member of the specified user facility partition and ACT of DLT is entered.</p>
CTAG	<p>< 1-6 VALID CTAG CHARACTERS ></p> <p>Default: < System assigned CTAG value ></p> <p>Addressing: None</p> <p>Description: Correlation Tag, associates input command with its output responses.</p>
ACT	<p>{ADD, DLT}</p> <p>Default: Entry Required</p> <p>Addressing: None</p> <p>Description: Action, specifies whether the specified AID is to be added or deleted to/from the specified partition. Values are:</p> <p>ADD Add the specified DS3 port to the specified partition.</p> <p>DLT Delete the specified DS3 port from the specified partition.</p> <p>Restrictions: ED-PARTITN-T3 is denied if ACT of DLT is entered and the specified AID is not a member of the specified user facility partition.</p>

PARTNAM	<1–20 CHARACTER VALID PARTITION NAME>
Default:	Entry Required
Addressing:	None
Description:	Partition Name, specifies the name of the user facility partition.
Restrictions:	ED–PARTITN–T3 is denied if a PARTNAM of “ALL” is entered.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID [-VCNUM] >) */]
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Optional Suggested Action Text> */]
  [/ * <Command Echo> [<CTAG>] (<CID [-VCNUM] >) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non–Parser Error Codes used with this command are:

ENFE	Equipage, FEature Not provided
IDNV	Input, Data Not Valid /* Invalid Partition Name */ /* ALL can not be used as a partition name */
IIAC	Input, Invalid ACcess identifier /* Port already in other Partition */ /* Port is not assigned to a partition */ /* Port already in partition */
IIFM	Input, Invalid data ForMat /* PARTNAM length */ /* Illegal Input: ACT length */
IPNV	Input, Parameter Not Valid /* PARTNAM */ /* Illegal Input: ACT */
SDBE	Status, internal Data Base Error /* Error accessing the PARTITION DB – status = <status number> */

EXAMPLES

In the following example, DS3 ports T3–1 through T3–48 are added to the user facility partition PARTITION31.

```
ED-PARTITN-T3::T3-1&&-48::ADD, PARTITION31;
```

In the following example, DS3 port T3–40 is deleted from the user facility partition PARTITION31.

```
ED-PARTITN-T3::T3-40::DLT, PARTITION31;
```

RELATED COMMANDS

DLT-PARTITN
ED-PARTITN-EC1
ED-PARTITN-F3
ED-PARTITN-OC3
ED-PARTITN-OC12
ED-PARTITN-ST51
ED-PARTITN-ST53C
ED-PARTITN-T1
ED-PARTITN-VT1
ED-PRVG-USER
ENT-PARTITN
ENT-USER
RTRV-PARTITN

COMMAND CODE: **ED-PARTITN-VT1**
COMMAND NAME: **EDIT PARTITION VT1**

PURPOSE

The ED-PARTITN-VT1 command adds or deletes the specified VT1.5 port to/from the specified user facility partition (PARTNAM). (Refer to the Introduction for a description of User Facility Partitioning.)

The VT1.5 ports assigned to a VT1.5 facility partition need not be contiguous (physically or logically). A facility partition is only a logical mapping of ports to the partition. Any VT1.5 port can be added to a VT1.5 facility partition regardless of whether the port is provisioned or the port exists in the system.

A facility partition is created by specifying a unique partition name with the ENT-PARTITN command. VT1.5 facilities are assigned to a VT1.5 partition with the ED-PARTITN-VT1 command. A user is associated with a facility partition using the ENT-USER and ED-PRVG-USER commands.

An ED-PARTITN-VT1 command is denied if:

- The "User Partitioning" PFO is not enabled.
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

ED-PARTITN-VT1: [TID] :AID: [CTAG] : :ACT, PARTNAM;

INPUT PARAMETERS

TID	<p>< 1-20 VALID TID CHARACTERS ></p> <p>Default: <SID></p> <p>Addressing: None</p> <p>Description: Target Identifier, specifies the network node TID for the command.</p>
AID	<p>VT1_AID:</p> <p>{EC1VT1-{1-3840}-{1-7}-{1-4}} (EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)</p> <p>{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}} (OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)</p> <p>{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}} (OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)</p> <p>Default: Entry Required</p> <p>Addressing: &&-ranging and &-grouping</p> <p>Description: VT1 AID, identifies the VT1.5 port to be added or deleted to the user facility partition specified by PARTNAM.</p> <p>Restrictions: ED-PARTITN-VT1 is denied if the specified AID is a member of another user facility partition. ED-PARTITN-VT1 is denied if the specified AID is not a member of the specified user facility partition and ACT of DLT is entered.</p>
CTAG	<p>< 1-6 VALID CTAG CHARACTERS ></p> <p>Default: < System assigned CTAG value ></p> <p>Addressing: None</p> <p>Description: Correlation Tag, associates input command with its output responses.</p>
ACT	<p>{ADD, DLT}</p> <p>Default: Entry Required</p> <p>Addressing: None</p> <p>Description: Action, specifies whether the specified AID is to be added or deleted to/from the specified partition. Values are:</p> <p>ADD Add the specified VT1.5 port to the specified partition.</p> <p>DLT Delete the specified VT1.5 port from the specified partition.</p> <p>Restrictions: ED-PARTITN-VT1 is denied if ACT of DLT is entered and the specified AID is not a member of the specified user facility partition.</p>

PARTNAM	<1–20 CHARACTER VALID PARTITION NAME>
Default:	Entry Required
Addressing:	None
Description:	Partition Name, specifies the name of the user facility partition.
Restrictions:	ED–PARTITN–VT1 is denied if a PARTNAM of “ALL” is entered.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID [-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Optional Suggested Action Text> */]
  [/ * <Command Echo> [<CTAG>] (<CID [-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

ENFE	Equipage, FEature Not provided
IDNV	Input, Data Not Valid
	/* Invalid Partition Name */
	/* ALL cannot be used as a partition name */
IIAC	Input, Invalid ACcess identifier
	/* Port Already in other Partition */
	/* Port is not assigned to a partition */
	/* Port already in partition */
IIFM	Input, Invalid data ForMat
	/* PARTNAM length */
	/* Illegal Input: ACT length */
IPNV	Input, Parameter Not Valid
	/* PARTNAM */
	/* Illegal Input: ACT */
SDBE	Status, internal Data Base Error
	/* Error accessing the PARTITION DB – status = <status number> */

EXAMPLES

In the following example, VT1.5 ports VT1–1–4–1 through VT1–1–4–4 are added to the facility partition PARTITION1.

```
ED-PARTITN-VT1::VT1-1-4-1&&-4:::ADD, PARTITION1;
```

In the following example, VT1.5 port VT1–125–4–2 is deleted from the user facility partition PARTITION1.

```
ED-PARTITN-VT1::VT1-125-4-2:::DLT, PARTITION1;
```

RELATED COMMANDS

```
DLT-PARTITN
```

ED-PARTITN-EC1
ED-PARTITN-F3
ED-PARTITN-OC3
ED-PARTITN-OC12
ED-PARTITN-STS1
ED-PARTITN-STS3C
ED-PARTITN-T1
ED-PARTITN-T3
ED-PRVG-USER
ENT-PARTITN
ENT-USER
RTRV-PARTITN

COMMAND CODE: **ED-PID**
COMMAND NAME: **EDIT PASSWORD IDENTIFIER**

PURPOSE

The ED-PID command is used to change a user's current login password to a new login password.

The user password (PID) must be changed periodically, depending on the value provisioned for the PAGE (password aging period) parameter via the SET-ATTR-SECUDFLT command.

A user other than the system administrator or the Alcatel account user may only change their own password and must enter their current password to execute the ED-PID command. The system administrator (UID of "system" or "SYSTEM") or the Alcatel account user may change any user's password without entering the user's current password.

When a PID is changed, the new password must differ from the old password by at least three characters.

The ED-PID command is denied if:

- A user other than the system administrator or the Alcatel account enters a UID for some other user.
- NEWPID differs from OLDPID by fewer than three characters.
- An invalid parameter value is entered.

INPUT FORMAT

ED-PID: [TID] :UID: [CTAG] : :OLDPID,NEWPID;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
UID	<5-12 VALID UID CHARACTERS> Default: Entry Required Addressing: None Description: User Identifier, specifies the user ID whose password is to be changed.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
OLDPID	<VALID PID CHARACTERS> Default: Entry required (For all users except the system administrator) <Existing PID for user UID> (For the system administrator) Addressing: None Description: Old Password Identifier, specifies the user's existing password (PID). Restrictions: ED-PID is denied if an OLDPID value is not entered and the user executing the command does not have a UID of {system, SYSTEM}.

NEWPID	<6–12 VALID PID CHARACTERS>
Default:	Entry Required
Addressing:	None
Description:	Password Identifier, specifies the user's new login password. Valid values for PID are a string of 6 through 12 case-sensitive alphanumeric characters. The PID must contain at least 2 alphabetic characters and at least 1 numeric character. The following special characters are also accepted as valid characters: % (percent sign), + (plus sign), # (pound sign), and _ (under score). The first character of the PID can be an alphabetic, numeric, or special character. (Note that the dash (–) character is also accepted by the system, but only characters prior to the dash become part of the PID. The dash (–) and characters after that are ignored by the system.)
Restrictions:	ED–PID is denied if the specified password identifier (NEWPID value) is the same as the specified user identifier (UID value), the reverse of the UID value, a circular shift of the UID value, a circular shift of the reverse of the UID value, or the same as the OLDPID value. ED–PID is denied if NEWPID differs from OLDPID by fewer than three characters.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * ED-PID [<CTAG>] (<CID[-VCNUM]>) */]
;
```

Note. The command echo line only includes the command code in the output response of the ED–PID command. The user's UID and following parameter values are not echoed.

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Optional Suggested Action Text> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non–Parser Error Codes used with this command are:

SDBE	Status, internal Data Base Error
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, ED-PID is used by user vdt03 to change the current password "PIDvdt03" to the new password "MY_VDT03".

```
ED-PID::vdt03:::PIDvdt03,MY_VDT03;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P2c062. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M P2c062 COMPLD  
/* ED-PID [P2c062] (1) */  
;
```

RELATED COMMANDS

```
ACT-USER  
CANC-USER  
DLT-USER  
ED-PRVG-USER  
ENT-USER  
RTRV-DFLT-SECU  
RTRV-PRVG-USER  
SET-ATTR-SECUDFLT
```


COMMAND CODE: **ED-PRMTR-NE**
COMMAND NAME: **EDIT PARAMETER NETWORK
ELEMENT**

PURPOSE

The ED-PRMTR-NE command is used during matrix growth to provision the system with the new size for the Center Stage Matrix.

An ED-PRMTR-NE command is denied if:

- The specified new matrix size is the same as or smaller than the current matrix size.
- The current system size is 240 ports.
- The specified new matrix size is 3360 and the current matrix size is not 2688.
- An invalid parameter value is entered.

INPUT FORMAT

ED-PRMTR-NE: [TID] :: [CTAG] :: MTXSIZE;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
MTXSIZE	{1344, 2688, 3360} Default: Entry Required Addressing: None Description: Matrix Type, specifies the size of the Center Stage Matrix. 1344 1344 DS3/STS1-1 Port Center Stage Matrix. 2688 2688 DS3/STS1-1 Port Center Stage Matrix. 3360 3360 DS3/STS1-1 Port Center Stage Matrix.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID [-VCNUM] >) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Optional Suggested Action Text> */]
  [/ * <Command Echo> [<CTAG>] (<CID [-VCNUM] >) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent /* No Change Necessary. */ /* Unable to downgrade matrix size */
IDNV	Input, Data Not Valid /*Invalid MTXSIZE entered */ /*<AID> must be deprovisioned.*/ /*<AID> is not provisioned */ /*All matrix cards in <AID> must be of type <CARD_TYPE>.*/ /*ESTYPE of %s must be defined as M32.*/ /* Command is not valid for 240 port system. */
IPMS	Input, Parameter MiSsing /*Error retrieving MTXSIZE */
SCSN	Status, invalid Command SequeNce /*In service growth loopbacks on supported facilities must first be released */
SDBE	Status, internal Data Base Error /* Error reading database for <AID>. */ /* Error updating sys configuration data base. */ /* Error reading sys configuration data base. */ /* Unable to read facility database. */
SROF	Status, Requested Operation Failed /*Unable to send matrix upgrade msg to FM */ /*Requested operation failed by FM */
SSRE	Status, System Resources Exceeded /* Unable to allocate USI response buffer. */

EXAMPLES

In the following example, ED-PRMTR-NE is used to provision the system for a 1344 port Center Stage matrix size.

```
ED-PRMTR-NE:::::1344;
```

RELATED COMMANDS

```
DLT-EQPT  
RTRV-PRMTR-NE
```

COMMAND CODE: **ED-PRMTR-SITE**
COMMAND NAME: **EDIT PARAMETER SITE**

PURPOSE

The ED-PRMTR-SITE command edits the global system parameters pertaining to:

- unsuccessful login attempts (ATTCNT, LKOT parameters),
- global X.25 provisioning parameters (T1, T4, N2 parameters),
- validation of X.25 SVC calling address (VALIDATE parameter),
- disk synchronization (SYNCTIME, SYNCCNT parameters),
- the Event Log File provisioning parameters (MAXFSIZE, MAXFNBR, RSML parameters),
- reporting of the software release number in the ACT-USER response (ENRELNUM parameter),
- the Alcatel account user login access (ALCATEL parameter).

Editing changes to the X.25 T1, T4, or N2 parameters require a logical removal and restoral (RMV-CID and RST-CID) of all CPORTs before the changes take effect.

Editing changes to the disk provisioning parameters of SYNCTIME, SYNCCNT, MAXFSIZE, or MAXFNBR requires an INIT-SYS or APS system reset to occur before the changes take effect.

Editing changes to the ATTCNT, LKOT, ALCATEL, ENRELNUM, RSML or VALIDATE parameters take effect upon command completion.

The ED-PRMTR-SITE command can be executed while in the Limited Command Execution mode (i.e., after execution of a STOP-OPS command) or the Normal Command Execution mode.

An ED-PRMTR-SITE command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

```
ED-PRMTR-SITE: [TID] : : [CTAG] : : [ATTCNT] , [LKOT] , [ALCATEL] : [ENRELNUM=] [ , FTP=]
               [ , MAXFNBR=] [ , MAXFSIZE=] [ , N2=] [ , RSML=] [ , SYNCCNT=] [ , SYNCTIME=]
               [ , T1=] [ , T4=] [ , TCPSESS=] [ , TIMEOUT=] [ , VALIDATE=] ;
```

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
ATTCNT	{0-15} Default: < Previously existing value > or {5} (Factory default) Addressing: None Description: Invalid Login Attempt Count, specifies the number of invalid login attempts allowed before login is disabled on a CPORT for the duration of LKOT. A value of 0 (zero) indicates this function is disabled. The ATTCNT value applies to all CPORTs and X.25 virtual channels on the system.

LKOT	{0–15}	<p>Default: < Previously existing value > or {2} (Factory default)</p> <p>Addressing: None</p> <p>Description: Login Lockout Time, specifies the number of minutes CPORT login access is disabled following the specified ATTCNT. A value of 0 (zero) indicates this function is disabled. The LKOT value applies to all CPORTs and X.25 virtual channels on the system.</p>				
ALCATEL	{OFF, ON}	<p>Default: < Previously existing value > or {ON} (Factory default)</p> <p>Addressing: None</p> <p>Description: Alcatel, specifies whether the Alcatel account user is allowed login access. Values are:</p> <table><tr><td>OFF</td><td>Login by the Alcatel account user is disabled.</td></tr><tr><td>ON</td><td>Login by the Alcatel account user is enabled.</td></tr></table>	OFF	Login by the Alcatel account user is disabled.	ON	Login by the Alcatel account user is enabled.
OFF	Login by the Alcatel account user is disabled.					
ON	Login by the Alcatel account user is enabled.					
ENRELNUM=	{N, Y}	<p>Default: < Previously existing value > or {N} (Factory default)</p> <p>Addressing: None</p> <p>Description: Enable Release Number, specifies whether the software release number is returned as parsable data in the successful response message of the ACT–USER command. Values are:</p> <table><tr><td>N</td><td>No, the software release number is not returned as parsable data in the successful response message of the ACT–USER command.</td></tr><tr><td>Y</td><td>Yes, the software release number is returned as parsable data in the successful response message of the ACT–USER command.</td></tr></table>	N	No, the software release number is not returned as parsable data in the successful response message of the ACT–USER command.	Y	Yes, the software release number is returned as parsable data in the successful response message of the ACT–USER command.
N	No, the software release number is not returned as parsable data in the successful response message of the ACT–USER command.					
Y	Yes, the software release number is returned as parsable data in the successful response message of the ACT–USER command.					
FTP=	{DISABLE, ENABLE}	<p>Default: < Previously existing value > or {ENABLE} (Factory default)</p> <p>Addressing: None</p> <p>Description: File Transfer Protocol, specifies if FTP file transfers will be supported by the system.</p> <table><tr><td>DISABLE</td><td>FTP login and any file transfers are disabled and not allowed by the system. This affects any further FTP logins but does not affect the FTP user already logged in.</td></tr><tr><td>ENABLE</td><td>FTP login and any file transfers are enabled and are allowed by the system.</td></tr></table> <p>NOTE: In Limited Mode operation FTP is enabled and cannot be disabled.</p>	DISABLE	FTP login and any file transfers are disabled and not allowed by the system. This affects any further FTP logins but does not affect the FTP user already logged in.	ENABLE	FTP login and any file transfers are enabled and are allowed by the system.
DISABLE	FTP login and any file transfers are disabled and not allowed by the system. This affects any further FTP logins but does not affect the FTP user already logged in.					
ENABLE	FTP login and any file transfers are enabled and are allowed by the system.					
MAXFNBR=	{5–100}	<p>Default: < Previously existing value > or {25} (Factory default)</p> <p>Addressing: None</p> <p>Description: Event Log File Maximum File Number, specifies the number of disk buffer files to be used for the Event Log File.</p> <p>Restrictions: ED–PRMTR–SITE is denied if the MAXFSIZE value times the MAXFNBR value is greater–than 25M (i.e., 25 megabytes).</p>				

MAXFSIZE=	{16–1024}	<p>Default: < Previously existing value > or {1024} (Factory default)</p> <p>Addressing: None</p> <p>Description: Event Log File Maximum Size, specifies the size, in 1024 byte blocks, of each Event Log File disk buffer. (e.g., if MAXFSIZE is set to 1024, 1 megabyte of disk space is allocated for each disk buffer file.)</p> <p>Restrictions: ED–PRMTR–SITE is denied if the MAXFSIZE value times the MAXFNBR value is greater than 25M (i.e., 25 megabytes).</p>
N2=	{2–16}	<p>Default: < Previously existing value > or {7} (Factory default)</p> <p>Addressing: None</p> <p>Description: X.25 N2 Number of Retries, specifies the maximum number of retries for the X.25 N2 Number of Retries parameter. When specifying T1, T4, or N2, $T1 < T4 < T1 \times N2$.</p> <p>Restrictions: ED–PRMTR–SITE is denied if the T4 value is not less–than the T1 times N2 values.</p>
RSML=	{1–2000}	<p>Default: < Previously existing value > or {2000} (Factory default)</p> <p>Addressing: None</p> <p>Description: Event Log File maximum Response Message Length, specifies the maximum size, in 1024 byte blocks, of the output response message for a RTRV–ELF command. Any output response message for a RTRV–ELF command greater than the RSML value is truncated.</p>
SYNCCNT=	{0–100}	<p>Default: < Previously existing value > or {0} (Factory default)</p> <p>Addressing: None</p> <p>Description: Disk Sync Count, specifies the maximum number of disk write cycles before a disk synchronization is performed. A value of 0 (zero) indicates no disk syncs are performed based on disk write counts.</p>
SYNCTIME=	{0–60}	<p>Default: < Previously existing value > or {0} (Factory default)</p> <p>Addressing: None</p> <p>Description: Disk Sync Time, specifies the maximum number of seconds between disk memory synchronization. A value of 0 (zero) indicates no disk syncs are performed based on time.</p>
T1=	{2–200}	<p>Default: < Previously existing value > or {30} (Factory default)</p> <p>Addressing: None</p> <p>Description: X.25 T1 Retry Timer, specifies the amount of time, in tenths of seconds for the X.25 T1 Retry Timer parameter. When specifying T1, T4, or N2, $T1 < T4 < T1 \times N2$.</p> <p>Restrictions: ED–PRMTR–SITE is denied if the T1 value is not less–than the T4 value.</p>

T4=	{40–1200}	Default:	< Previously existing value > or {200} (Factory default)
		Addressing:	None
		Description:	X.25 T4 No–Activity Timer, specifies the amount of time, in tenths of seconds, for the X.25 T4 No–Activity Timer parameter. When specifying T1, T4, or N2, $T1 < T4 < T1 * N2$.
		Restrictions:	ED–PRMTR–SITE is denied if the T1 value is not less–than the T4 value or the T4 value is not less–than the T1 times N2 values. ED–PRMTR–SITE is denied if the BLFRL value is greater than 1000.
TCPSESS=	{1–24}	Default:	{24}
		Addressing:	None
		Description:	Maximum number of Telnet sessions allowed per physical LAN port. This is a system–wide parameter, ie, specified changes are applied to all LAN ports. Changes specified do not affect sessions in progress.
TIMEOUT=	{5–7200}	Default:	{7200}
		Addressing:	None
		Description:	Telnet activity time out in seconds. This is the maximum time that a telnet session can be active without any input or output. It applies whether or not the user is logged in (e.g, by ACT–USER). Note that RMV–CID and RST–CID commands must also be executed before changes specified in this TIMEOUT parameter take effect.
VALIDATE=	{ALL, NONE}	Default:	< Previously existing value > or {ALL} (Factory default)
		Addressing:	None
		Description:	Validate X.25 SVC Calling Addresses, specifies whether X.25 SVC calling addresses received in an X.25 call request packet are validated against the X.25 Calling Address database. Validation of X.25 SVC calling addresses applies to all provisioned SVC channels in the system. (Refer to ENT–OSADDR–SITE.) Values are:
	ALL		Validate All, the system only accepts X.25 SVC calling addresses that have been provisioned in the X.25 Calling Address database.
	NONE		Validate None, the system accepts any incoming X.25 SVC calling address.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
/* <ATTCNT>, <LKOT>, <ALCATEL>, <T1>, <T4>, <N2>, <SYNCTIME>, <SYNCCNT>,
<MAXFSIZE>, <MAXFNBR>, <RSML>, <ENRELNUM>, <FTP>, <VALIDATE> , <TIME-
OUT>, <TCPSESS> */
[/* Change(s) will take effect after an INIT-SYS */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

OUTPUT PARAMETERS

ATTCNT	{0–15}
	Invalid Login Attempt Count, indicates the number of invalid login attempts allowed before login is disabled on a CPORT for the duration of LKOT. A value of 0 (zero) indicates this function is disabled. The ATTCNT value applies to all CPORTs and X.25 virtual channels on the system.

LKOT	{0–15} Login Lockout Time, indicates the number of minutes CPORT login access is disabled following the specified ATTCNT. A value of 0 (zero) indicates this function is disabled. The LKOT value applies to all CPORTs and X.25 virtual channels on the system.
ALCATEL	{OFF, ON} Alcatel, indicates whether the Alcatel account user is allowed login access. Values are: OFF Login by the Alcatel account user is disabled. ON Login by the Alcatel account user is enabled.
T1	{2–200} X.25 T1 Retry Timer, indicates the amount of time, in tenths of seconds for the X.25 T1 Retry Timer parameter.
T4	{40–1200} X.25 T4 No–Activity Timer, indicates the amount of time, in tenths of seconds, for the X.25 T4 No–Activity Timer parameter.
N2	{2–16} X.25 N2 Number of Retries, indicates the maximum number of retries for the X.25 N2 Number of Retries parameter.
SYNCTIME	{0–60} Disk Sync Time, indicates the maximum number of seconds between disk memory synchronization. A value of 0 (zero) indicates no disk syncs are performed based on time.
SYNCCNT	{0–100} Disk Sync Count, indicates the maximum number of disk write cycles before a disk synchronization is performed. A value of 0 (zero) indicates no disk syncs are performed based on disk write counts.
MAXFSIZE	{16–1024} Event Log File Maximum Size, indicates the size, in 1024 byte blocks, of each Event Log File disk buffer. (e.g., if MAXFSIZE is set to 1024, 1 megabyte of disk space is allocated for each disk buffer file.)
MAXFNBR	{5–100} Event Log File Maximum File Number, indicates the maximum number of disk buffer files to be used for the Event Log File.
RSML	{1–2000} Event Log File maximum Response Message Length, indicates the maximum size, in 1024 byte blocks, of the output response message for a RTRV–ELF command. Any output response message for a RTRV–ELF command greater–than the RSML value is truncated.
ENRELNUM	{N, Y} Enable Release Number, indicates whether the software release number is returned as parsable data in the successful response message of the ACT–USER command. N No, the software release number is not returned as parsable data in the successful response message of the ACT–USER command. Y Yes, the software release number is returned as parsable data in the successful response message of the ACT–USER command.
FTP	{DISABLE, ENABLE} File Transfer Protocol, specifies if FTP file transfers will be supported by the system. DISABLE FTP login and any file transfers are disabled and not allowed by the system. This affects any further FTP logins but does not affect the FTP user already logged in.

VALIDATE	{ALL, NONE}	Validate X.25 SVC Calling Addresses, indicates whether X.25 SVC calling addresses received in an X.25 call request packet are validated against the X.25 Calling Address database. Validation of X.25 SVC calling addresses applies to all provisioned SVC channels in the system. (Refer to ENT-OSADDR-SITE.) Values are:
TIMEOUT	{5-7200}	Telnet activity time out in seconds. This is the maximum time that a telnet session can be inactive (without any input or output).
TCPSESS	{1-24}	Maximum number of Telnet sessions allowed per physical LAN port. Applies to all LAN ports in system.
	ALL	Validate All, the system only accepts X.25 SVC calling addresses that have been provisioned in its X.25 Calling Address database.
	NONE	Validate None, the system accepts any incoming X.25 SVC calling address.

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/ * <Informational Error Description Text> */]
[/ * <Expanded Error Code Description> */]
[/ * <Optional Suggested Action Text> */]
[/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid
IPNV	Input, Parameter Not Valid
	/* MAXFSIZE * MAXFNBR can not exceed 10k size */
SDBE	Status, internal Data Base Error
	/* Unable to read platparm db record – status = <status number> */
	/* Unable to update platparm db record – status = <status number> */
	/* Unable to read security db record – status = <status number> */
SROF	Status, Requested Operation Failed
	/* Illegal Input: X.25 Requires T1 less than T4 */
	/* Illegal Input: X.25 Requires T4 less than (T1*N2) */

EXAMPLES

In the following example, ED-PRMTR-SITE is used to edit the non-X.25 global site parameter values.

```
ED-PRMTR-SITE:::3,2,ON:SYNCTIME=30,SYNCCNT=0,MAXFSIZE=1024,MAXFNBR=20,
RSML=2000,ENRENUM=N;
```

The output response, shown below, assumes CID 3 was used to enter the command and a system generated CTAG value of P0f013. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.


```
<SID> <YY-MM-DD> <HH:MM:SS>
M P0f013 COMPLD
/* 3,2,ON,30,200,7,30,0,128,20,1000,N,ALL */
/* Change(s) will take effect after an INIT-SYS */
/* ED-PRMTR-SITE:::::3,2,ON:SYNCTIME=30,SYNCCNT=0,MAXFSIZE=1024,
MAXFNBR=20,RSML=2000,ENRENUM=N [P0f013] (3) */
;
```

RELATED COMMANDS

ACT-USER
DLT-CID
DLT-CID-VC
DLT-OSADDR-SITE
ED-CID
ED-CID-VC
ENT-CID
ENT-CID-VC
ENT-OSADDR-SITE
RTRV-BLF
RMV-CID
RST-CID
RTRV-CID
RTRV-ELF
RTRV-OSADDR-SITE
RTRV-PRMTR-SITE

COMMAND CODE: **ED-PRVG-CMD**
COMMAND NAME: **EDIT PRIVILEGE COMMAND**

PURPOSE

The ED-PRVG-CMD command is used to change the command access security level (CCAL – Command Community Authorization Level) and/or security group (CCFC – Command Community Functional Category) assigned to a TL1 command.

All commands are always assigned to security (CCFC) group Z. A command is not removed from security group Z even if a CCFC value is entered without a value of Z included.

The CANCEL-USER command is always assigned to all security (CCFC) groups. The CANCEL-USER cannot be removed from any security group.

Refer to Appendix H, User Command Privilege Defaults (CCAL & CCFC) for the system default CCAL and CCFC values for each command.

An ED-PRVG-CMD command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

ED-PRVG-CMD : [TID] : : [CTAG] : : CMD, [CCFC] , [CCAL] ;

INPUT PARAMETERS

TID	< 1–20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1–6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
CMD	<TL1 COMMAND CODE> Default: Entry Required Addressing: None Description: TL1 Command Code, specifies the TL1 command code for which the security group or security level is to be changed. The value for the CMD parameter can be any one of the TL1 command codes, in upper or lower case.
CCFC	<1 –26 VALID (A–Z) CCFC CHARACTERS> Default: <Previously Existing Value> Addressing: Order Independent, Non–Case Sensitive Description: Command Community Functional Category, specifies the security group(s) to which the specified TL1 command is to be assigned. CCFC is specified as a string of 1 to 26 non–case sensitive, order independent, alphabetic characters. All commands are always assigned to security group Z. A command is not removed from security group Z even if a CCFC value is entered without a value of Z included. Refer to Appendix H, User Command Privilege Defaults (CCAL & CCFC).
CCAL	{1–31} Default: <Previously Existing Value> Addressing: None Description: Command Community Authorization Level, specifies the command security level assigned to the specified TL1 command. Refer to Appendix H, User Command Privilege Defaults (CCAL & CCFC).

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
/* <CMD> <CCAL> <CCFC> */
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

CMD	<TL1 COMMAND CODE> Command, identifies the TL1 command code.
CCAL	{1–31} Command Community Authorization Level, indicates the security level for the command.
CCFC	<1 –26 VALID (A–Z) CCFC CHARACTERS> Command Community Functional Category, indicates the security groups the command is assigned to.

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Optional Suggested Action Text> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid
IPNV	Input, Parameter Not Valid /* User not found in USDB */ /* COMMAND length */ /* COMMAND */ /* LEVEL */ /* CCFC length */ /* CCFC */ /* Entry in CCFC group not valid, <cmd_group>*/ /* Cannot change security of this command */ /* Cannot change Alcatel level command */ /* Invalid Command */
SDBE	Status, internal Data Base Error /* Unable to update CSDB, status = <status number> */ /* Unable to write to CSDB, status = <status number> */

EXAMPLES

In the following example, ED-PRVG-CMD is used to edit the STOP-CID command and define its CCFC as ABCZ and CCAL as 12;

```
ED-PRVG-CMD:::::STOP-CID,ABCZ,12;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P0c032. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M   P0c032 COMPLD
/* STOP-CID 12 ABCZ */
/* ED-PRVG-CMD:::::STOP-CID,ABCZ,12 [P0c032] (1) */
;
```

RELATED COMMANDS

ED-GROUP-CMD
ED-PRVG-USER
ENT-USER
RTRV-PRVG-CMD
RTRV-PRVG-USER

COMMAND CODE: **ED-PRVG-USER**
COMMAND NAME: **EDIT PRIVILEGE USER**

PURPOSE

The ED-PRVG-USER command is used to edit the existing user profile entry, identified by UID, in the User Security Database.

Only the system administrator (UID of "system" or "SYSTEM" and UCAL of 31) can edit the UCFCI and UCAL parameters, add or delete the R (Report error(R) messages) option to a user's OSL value, associate a PARTNAM (Partition Name) with a UID, or change another user's user profile database entry. Any user can change the remaining parameter values for their own user profile database entries.

Changes to the provisioned values for RUSURE, OSL, UCAL, UCFCI, UCFCO, and UNAM take affect upon command completion. Changes to the provisioned values for DM, DSKBFIND, KAMINTVL, LNKTMR, LOTO, MIPINTVL, TYPE, and PARTNAM take affect after a non-printer (TYPE other than PRN) user logs-off and logs-on (via CANC-USER and ACT-USER), or after the CID is removed and restored (via RMV-CID and RST-CID) for a printer user.

A user's provisioned password (PID) cannot be edited with the ED-PRVG-USER command. Refer to the ED-PID command.

A user's OSTYPE (provisioned via ENT-USER) cannot be edited with the ED-PRVG-USER command. To change the value of OSTYPE, the user must be deleted via DLT-USER and re-created via ENT-USER.

A user facility partition name (PARTNAM) previously associated with a user (provisioned via ENT-USER) cannot be edited (changed or deleted) with the ED-PRVG-USER command. To change a partitioned user's provisioned value for PARTNAM, the partitioned user must be deleted via DLT-USER and re-created via ENT-USER. However, the ED-PRVG-USER command allows a non-partitioned user to be associated with a user facility partition (a non-partitioned user can be made a partitioned user).

An ED-PRVG-USER command is denied if:

- The specified UID does not exist.
- The specified UID is not the UID of the user executing the command, unless the UID is "system" or "SYSTEM".
- A UCFCI, UCAL, or PARTNAM value is entered and the UID of the user executing the command is not "system" or "SYSTEM".
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

```
ED-PRVG-USER: [TID] : : [CTAG] : : UID, [UCFCI] , [UCFCO] , [UCAL] , [OMODE] , [OSL] ,  
[UNAM] , [RUSURE] , [DSKBFIND] , [TYPE] , [DM] , [PARTNAM] , [LNKTMR] , [LOTO] ,  
[KAMINTVL] , [MIPINTVL] ;
```

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >
Default:	<SID>
Addressing:	None
Description:	Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS >
Default:	< System assigned CTAG value >
Addressing:	None
Description:	Correlation Tag, associates input command with its output responses.

UID	<p><5–12 VALID UID CHARACTERS></p> <p>Default: Entry Required</p> <p>Addressing: None</p> <p>Description: User Identifier, specifies the user ID whose user security database entry is to be changed. A user database entry cannot be created with ED–PRVG–USER (refer to ENT–USER).</p> <p>Restrictions: ED–PRVG–USER is denied if UID of {system, SYSTEM, sysprint} is entered and a PARTNAM value is entered. ED–PRVG–USER is denied if the specified UID is already associated with a PARTNAM and a PARTNAM value is entered.</p>
UCFCI	<p><1–26 VALID (A–Z) UCFCI CHARACTERS></p> <p>Default: <Previously Existing Value></p> <p>Addressing: None</p> <p>Description: User Command Functional Category, Input, specifies the command access input security CCFC group(s) for the user (defines the set of TL1 commands the user can execute). Each input security group contains one or more TL1 command. Up to 26 input security groups A–Z can be specified for the user. To execute a command, a user must belong to at least one input security group assigned to the TL1 command to be executed. UCFCI is specified as a string of up to 26 order–independent, non–case sensitive characters A–Z. If a character is entered more than once in the string the system accepts the string as if the character was only entered once. Changes to this parameter take effect immediately. Refer to Appendix H, User Command Privilege Defaults (CCAL & CCFC), for the default security groups.</p> <p>Restrictions: ED–PRVG–USER is denied if a UCFCI value is entered and the user executing the command does not have a UID of “system” or “SYSTEM” (the system administrator).</p>
UCFCO	<p><1–26 VALID (A–Z) UCFCO CHARACTERS></p> <p>Default: <Previously Existing Value></p> <p>Addressing: None</p> <p>Description: User Command Functional Category, Output, specifies the command access output security group(s) for the user (defines the TL1 command output responses a user receives because of commands executed by another user). UCFCO does not filter output responses for commands executed by the user, UCFCO only filters output responses for commands executed by another user. Each output security group contains one or more TL1 commands. Up to 26 output security groups A–Z can be specified for the user. To receive output responses from a command executed by another user, a user must belong to at least one output security group assigned to the TL1 command. If a user is assigned UCFCO of Z, the user receives output results from all TL1 commands executed by another user. UCFCO is specified as a string of up to 26 order–independent, non–case sensitive characters A–Z. If a character is entered more than once in the string the system accepts the string as if the character was only entered once. Changes to this parameter take effect immediately. Refer to Appendix H, User Command Privilege Defaults (CCAL & CCFC), for the default security groups.</p>

UCAL	{1–30}	
	Default:	<Previously Existing Value>
	Addressing:	None
	Description:	User Command Authorization Level, specifies the set of TL1 commands a user can execute based on the authorization level of the user and of the command. To execute a command, a user must have a UCAL greater than or equal to the CCAL (Command Community Authorization Level) security level assigned to the command. A user can be assigned a security level from 1 through 30. Level 31 is reserved for the system administrator. Level 32 is reserved for the Alcatel account. Changes to this parameter take effect immediately.
	Restrictions:	ED–PRVG–USER is denied if a UCAL value is entered and the user executing the command does not have a UID of “system” or “SYSTEM” (the system administrator).
OMODE	{C}	
	Default:	{ C}
	Addressing:	None
	Description:	Command Input Operational Mode, specifies the default command entry mode of operation for the user when the system initializes. The system always initializes to the Direct Command Input mode. A user can toggle between Direct Command Input mode and Command Input Menu mode by using the F7 function key on a VDT.
	C	Direct Command Input mode.
OSL	<String of characters composed of B, C, D, E, I, H, M, m, O, P, R, S, W>, A, Z}	
	Default:	< Previously existing value > (If no PARTNAM value is entered) or {O} (If a PARTNAM value is entered)
	Addressing:	None
	Description:	Output Subscription Level, specifies the unsolicited autonomous output response messages a user receives. The OSL value is a case-sensitive, order-independent character string composed of any or all of the characters in the OSL value set of {B, C, D, E, H, I, M, m, O, P, R, S, W} (e.g., CMmEDPSOWR), A or Z. If all OSL filters are to be off (no unsolicited messages reported), OSL can be set to Z. If all OSL filters in the set {B, C, D, E, H, I, M, m, O, P, S, W} are to be on, OSL can be set to A. It is suggested that users not subscribe to receive the Alcatel autonomous informational messages (do not subscribe to {R, S}). Changes to this parameter take effect immediately. Values are:
	A	All Autonomous Responses, except R. The system sets the OSL to CMmEDPOSWIB.
	B	Report Data(B)ase Change messages (via REPT^DBCHG).
	C	Report setting/clearing of (C)ritical alarms (via REPT^ALM) for equipment alarms and facility alarms.
	D	Report Con(D)ition messages. (Note. The REPT^COND autonomous message type is not currently implemented in the system.)
	E	Report (E)vent messages (via REPT^EVT^EQPT, REPT^EVT^T1 or REPT^EVT^T3). The E option does not disable the warning message generated at user login (via REPT^EVT^SESSION).
	H	Reserved for future use. This OSL value (currently) has no affect.
	I	Report (I)nitilization messages (via REPT^INITZN).
	M	Report setting/clearing of (M)ajor alarms (via REPT^ALM) for equipment alarms and facility alarms.
	m	Report setting/clearing of (m)inor alarms (via REPT^ALM) for

	equipment alarms and facility alarms.
O	Provide Command ech(O) output response line for all responses. Refer to the Introduction for a description of other non-parsable text lines in successful, unsuccessful, and acknowledgement response messages controlled by the O option.
P	Report scheduled daily (P)erformance monitoring (PM) (via REPT^PM). (Note. The P filter does not affect PM threshold crossing alert messages. These are REPT^EVT messages.)
R	Report erro(R) messages (via REPT^HWSW). (These are Alcatel autonomous informational messages. The R option can only be added to a user's OSL, by the system administrator or an Alcatel account user.)
S	Report (S)tatus messages (via REPT^INFORMATION or REPT^STAT). (These are Alcatel autonomous informational messages.)
W	Report (W)orld responses from all TL1 commands executed by any other user. A user subscribing to the W option receives all autonomous responses and the output responses for commands executed by another user according to the user's UCFCO value.
Z	Zero. Turns off all of OSL filters (user will not receive unsolicited responses).
Restrictions:	<p>ED-PRVG-USER is denied if OSL of Z is entered and any other OSL values are entered.</p> <p>ED-PRVG-USER is denied if OSL of {R} is entered and the user executing the command does not have a UID of "system", "SYSTEM".</p> <p>ED-PRVG-USER is denied if OSL of {A, C, D, E, I, M, m, P, R, S, W} (i.e., not {B, O, Z}) and OSTYPE of OPSINE was entered in ENT-USER.</p> <p>ED-PRVG-USER is denied if OSL of {A, B, O} and OSTYPE of NMA was entered in ENT-USER.</p> <p>ED-PRVG-USER is denied if OSL of {A, B, C, D, E, M, m, O, P, R, S, W} (i.e., not {I, Z}) and OSTYPE of TSC was entered in ENT-USER.</p> <p>ED-PRVG-USER is denied if any OSL value is entered and OSTYPE of BINARY was entered in ENT-USER.</p> <p>ED-PRVG-USER is denied if OSL of {W} is entered and a PARTNAM value was entered in ENT-USER.</p> <p>ED-PRVG-USER is denied if OSL of {S} and OSTYPE of {TSC, NMA or OPSINE} was entered in ENT-USER.</p>
UNAM	<1-18 VALID UNAM CHARACTERS>
Default:	<Previously Existing Value>
Addressing:	None
Description:	User Name, specifies additional identifying information pertaining to the user. UNAM can be the name of the party responsible for this account, a phone extension, a location, etc. It is not necessary for UNAM to be unique. Valid values for UNAM are a string of 1 through 18, case-sensitive alphanumeric characters where the first character must always be an alphabetic character. The following special characters are also accepted as valid characters and will be part of the UNAM: % (percent sign), + (plus sign), # (pound sign), and _ (under score). Changes to this parameter take effect immediately.

RUSURE	{NO, YES}	
	Default:	<Previously Existing Value>
	Addressing:	None
	Description:	Are You Sure Prompt, specifies whether the user is to receive an additional RUSURE prompt for the RESTORE-DB and DLT-PARTITN commands. The RUSURE prompt allows the user to cancel the execution of the command before any changes in the system are made. (Note. An OS user or a user on a SNIDER CID port should be provisioned with RUSURE of NO). Changes to this parameter take effect immediately. Values are:
	NO	No, the user will not receive an RUSURE prompt.
	YES	Yes, the user will receive an RUSURE prompt when the user enters a RESTORE-DB or DLT-PARTITN command.
DSKBFIND	{ALWAYS, NEVER}	
	Default:	<Previously Existing Value>
	Addressing:	None
	Description:	Disk Buffer Find Indicator, specifies whether a user receives all output messages the user is subscribed to receive (via the user's OSL and UCFCO values), that were generated while the user was logged off the system, when the user re-logs in to the system. If DSKBFIND is set to ALWAYS and the disk buffering storage capacity is exceeded, the oldest response messages are discarded and a warning message indicating messages have been discarded due to buffer wrap is generated when the user re-logs in. If DSKBFIND is set to ALWAYS, the user can "skip to the end" of the disk buffered messages by specifying SKIPTOEND of END in the ACT-USER command. Disk buffering of response messages are lost when the APS control system is initialized. Changes to DSKBFIND take affect after a non-printer (TYPE other than PRN) user logs-off and logs-in (via CANCEL-USER and ACT-USER), or after the CID is removed and restored (via RMV-CID and RST-CID) for a printer user. Values are:
	ALWAYS	Always, when the user logs in, the user receives all output messages the user is subscribed to receive that were generated while the user was logged off the system.
	NEVER	Never, when the user logs in, the user does not receive disk buffered response messages. The user only receives current response messages.
TYPE	{PRN, TTY, VDT}	
	Default:	<Previously Existing Value>
	Addressing:	None
	Description:	Terminal Type, specifies the terminal CPORT configuration for the user. Changes to TYPE take affect after a non-printer (TYPE other than PRN) user logs-off and logs-in (via CANCEL-USER and ACT-USER), or after the CID is removed and restored (via RMV-CID and RST-CID) for a printer user. Values are:
	PRN	Printer (output only) CPORT. (Note. The CPORT should be provisioned as an auto login port, i.e., AUTOIN of a UID value in the ENT-CID or ENT-CID-VC command.)
	TTY	Teletype Terminal, non-cursor addressable input/output terminal.
	VDT	Video Display Terminal, cursor addressable video display terminal.
	Restrictions:	ED-PRVG-USER is denied if TYPE of PRN and OSTYPE of TSC was entered in ENT-USER. ED-PRVG-USER is denied if TYPE of PRN is entered and a PARTNAM value is entered.

ED-PRVG-USER is denied if TYPE of TTY and DM of NA is entered.
ED-PRVG-USER is denied if TYPE other than TTY is entered and DM of {ECHO, NOECHO} is entered.

DM	<p>{ECHO, NA, NOECHO}</p> <p>Default: {ECHO} (if TYPE of TTY is entered) {NA} (If TYPE other than TTY is entered)</p> <p>Addressing: None</p> <p>Description: TTY Display Mode, specifies the display mode for a TTY terminal after a user is logged-in. Changes to DM take affect after a non-printer (TYPE other than PRN) user logs-off and logs-in (via CANC-USER and ACT-USER), or after the CID is removed and restored (via RMV-CID and RST-CID) for a printer user. Values are:</p> <p>ECHO Character Echo, input characters are echoed.</p> <p>NA Not Applicable, value used for DM when TYPE is not TTY.</p> <p>NOECHO Character Not Echo, input characters are not echoed.</p> <p>Restrictions: ED-PRVG-USER is denied if DM of NA and TYPE of TTY is entered. ED-PRVG-USER is denied if DM of {ECHO, NOECHO} is entered and TYPE other than TTY is entered.</p>
PARTNAM	<p><string of 1-20 VALID PARTITION NAME CHARACTERS></p> <p>Default: <Previously Existing Value></p> <p>Addressing: None</p> <p>Description: Partition Name, specifies the name of a valid user partition (refer to ENT-PARTITN). Valid values for PARTNAM are a string of 1 through 20, non-case sensitive alphanumeric characters where the first character must always be an alphabetic character. The PARTNAM value is automatically converted to an upper-case string of characters. The following special characters are also accepted as valid characters and will be part of the PARTNAM: % (percent sign), + (plus sign), # (pound sign), and _ (under score). It is necessary for the PARTNAM to be unique. PARTNAM cannot be specified as a string of characters resulting in a keyword ALL. If no value is entered for PARTNAM, the system will automatically assign a null (unpopulated) string as the default. Changes to PARTNAM take affect after a non-printer (TYPE other than PRN) user logs-off and logs-in (via CANC-USER and ACT-USER), or after the CID is removed and restored (via RMV-CID and RST-CID) for a printer user.</p> <p>Restrictions: ED-PRVG-USER is denied if PARTNAM of any combination of the upper or lower case word "ALL" is entered. ED-PRVG-USER is denied if the PARTNAM value entered does not exist (refer to ENT-PARTITN). ED-PRVG-USER is denied if a PARTNAM value is entered and TYPE of PRN is entered. ED-PRVG-USER is denied if a PARTNAM value is entered and UID of {system, SYSTEM, sysprint} is entered. ED-PRVG-USER is denied if a PARTNAM value is entered and the current user is a non-partitioned user with an OSL value of {W} currently provisioned or the OSL value of {W} is specified in the same command. ED-PRVG-USER is denied if a PARTNAM value is entered and the user executing the command does not have a UID of "system" or "SYSTEM" (the system administrator). ED-PRVG-USER is denied if a PARTNAM value is entered and a PARTNAM is already associated with the specified UID. ED-PRVG-USER is denied if the "User Partitioning" PFO is not enabled.</p>

LNKTMR	{0–3600 }	
	Default:	<Previously Existing Value>
	Addressing:	None
	Description:	CPORT Activity Link Timer, specifies the amount of time (in seconds) that the CPORT link is inactive before a link time-out occurs. LNKTMR is not triggered by a user login, but by CPORT link communication activity after the login occurs. The LOTO parameter determines whether the user is automatically logged out if a link time-out occurs. Changes to LNKTMR take affect after a non–printer (TYPE other than PRN) user logs–off and logs–in (via CANC–USER and ACT–USER), or after the CID is removed and restored (via RMV–CID and RST–CID) for a printer user. Values are:
	0	Disabled, no link time-out will occur.
	1–3600	Time in seconds, specifies the LNKTMR time interval. A link time-out occurs if the link is inactive for the time, in seconds, specified.
LOTO	{N, Y}	
	Default:	<Previously Existing Value>
	Addressing:	None
	Description:	Logout On Link Timer Time-out, specifies whether the user is logged off when the CPORT activity link timer (LNKTMR) times out. Changes to LOTO take affect after a non–printer (TYPE other than PRN) user logs–off and logs–in (via CANC–USER and ACT–USER), or after the CID is removed and restored (via RMV–CID and RST–CID) for a printer user. Values are:
	N	No, the user is not logged off if the link timer expires.
	Y	Yes, the user is logged off if the link timer expires.
KAMINTVL	{0, 20–300}	
	Default:	<Previously Existing Value>
	Addressing:	None
	Description:	Keep Alive Message Interval, specifies the amount of time (in seconds) that the user must be inactive before an autonomous Keep Alive Message (KAM) is sent to the user. The user is inactive if there is no TL1 input or output (command responses, acknowledgement responses, or autonomous responses) between the user and the system. When a user logs in, the user's KAM timer is started and increments until CPORT link activity occurs. The KAM timer is reset when link activity is detected. KAM timers are not incremented when the system is in Limited Command Entry mode. Changes to KAMINTVL take affect after a non–printer (TYPE other than PRN) user logs–off and logs–in (via CANC–USER and ACT–USER), or after the CID is removed and restored (via RMV–CID and RST–CID) for a printer user. Values are:
	0	Disabled, a KAM timer is not active and the user does not automatically receive any KAM autonomous messages.
	20–300	Time in seconds, specifies the KAM time interval. A KAM message is generated if the user's CPORT link is inactive for the time, in seconds, specified.

MIPINTVL	{0, 20–3500}	
Default:	<Previously Existing Value>	
Addressing:	None	
Description:	Multiple In Progress Message Interval, specifies the amount of time (in seconds) before an additional In Progress (IP) messages is generated. Any additional IP messages occur after the initial two second IP message is generated. An additional IP message for the ACT–USER, CANC–USER, ED–PID, STOP–OPS, START–OPS, or INIT–SYS commands is not generated, regardless of the MIPINTVL value. MIPINTVL timers are deactivated when the system is in Limited Command Entry mode. Changes to MIPINTVL take affect after a non–printer (TYPE other than PRN) user logs–off and logs–in (via CANC–USER and ACT–USER), or after the CID is removed and restored (via RMV–CID and RST–CID) for a printer user. Values are:	
	0	Disabled, the user will not receive any additional IP messages after the initial two–second IP message.
	20–3500	Time in seconds, indicates that an additional IP message is generated every n seconds (n=20 to 3500) until the entered command completes execution.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
/* <UID>, <UCFCI>, <UCFCO>, <UCAL> */
/* <OMODE>, [<OSL>], [<UNAM>], <RUSURE>, <DSKBFIND>, <TYPE>, <DM>, <OSTYPE>,
<LNKTMR>, <LOTO>, [<PARTNAM>], <KAMINTVL>, <MIPINTVL> */
[/* <Command Echo> [<CTAG>] (<CID [-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

UID	<5–12 VALID UID CHARACTERS> User Identifier, identifies the provisioned UID value.
UCFCI	<1–26 VALID UCFCI CHARACTERS> User Command Functional Category, Input, identifies the provisioned UCFCI value. (Also refer to the Introduction for a description of User Security and to Appendix H, User Command Privilege Defaults (CCAL & CCFC).)
UCFCO	<1–26 VALID UCFCI CHARACTERS> User Command Functional Category, Output, identifies the provisioned UCFCO value. (Also refer to the Introduction for a description of User Security and to Appendix H, User Command Privilege Defaults (CCAL & CCFC).)
UCAL	{1–30} User Command Authorization Level, identifies the provisioned UCAL value. (Also refer to the Introduction for a description of User Security and to Appendix H, User Command Privilege Defaults (CCAL & CCFC).)
OMODE	{C} Command Input Operational Mode, indicates the system initializes to the Direct Command Input mode.

OSL	<p>{<String of characters composed of {B, C, D, E, H, I, M, m, O, P, R, S, W}>, <NoVal>}</p> <p>Output Subscription Level, identifies the unsolicited output response messages a user receives. The OSL value reported is a case-sensitive, order-independent character string composed of any or all of the characters in the OSL value set of {B, C, D, E, H, I, M, m, O, P, R, S, W} (e.g., CMmEDPSOWR) or no value. If an OSL value of A was entered, the reported OSL value is BCDEHIMmOPSW. If an OSL value of Z was entered, no value is reported for OSL. Values are:</p> <table> <tr> <td>B</td><td>Report Data(B)ase Change messages (via REPT^DBCHG).</td></tr> <tr> <td>C</td><td>Report setting/clearing of (C)ritical alarms (via REPT^ALM) for equipment alarms and facility alarms.</td></tr> <tr> <td>D</td><td>Report Con(D)ition messages. (Note. The REPT^COND autonomous message type is not currently implemented in the system.)</td></tr> <tr> <td>E</td><td>Report (E)vent messages (via REPT^EVT^EQPT, REPT^EVT^T1, or REPT^EVT^T3). The E option does not disable the warning message generated at user login (via REPT^EVT^SESSION).</td></tr> <tr> <td>H</td><td>Reserved for future use. This OSL value (currently) has no affect.</td></tr> <tr> <td>I</td><td>Report (I)nitiaization messages (via REPT^INITZN).</td></tr> <tr> <td>M</td><td>Report setting/clearing of (M)ajor alarms (via REPT^ALM) for equipment alarms and facility alarms.</td></tr> <tr> <td>m</td><td>Report setting/clearing of (m)inor alarms (via REPT^ALM) for equipment alarms and facility alarms.</td></tr> <tr> <td>O</td><td>Provide Command ech(O) output response line for all responses. Refer to the Introduction for a description of other non-parsable text lines in successful, unsuccessful, and acknowledgement response messages controlled by the O option.</td></tr> <tr> <td>P</td><td>Report scheduled daily (P)erformance monitoring (PM) (via REPT^PM). (Note. The P filter does not affect PM threshold crossing alert messages. These are REPT^EVT messages.)</td></tr> <tr> <td>R</td><td>Report erro(R) messages (via REPT^HWSW). (These are Alcatel autonomous informational messages.)</td></tr> <tr> <td>S</td><td>Report (S)tatus messages (via REPT^INFORMATION or REPT^STAT). (These are Alcatel autonomous informational messages.)</td></tr> <tr> <td>W</td><td>Report (W)orld responses from all TL1 commands executed by any other user. A user subscribing to the W option receives all autonomous responses and the output responses for commands executed by another user according to the user's UCFCO value.</td></tr> <tr> <td><NoVal></td><td>No value is reported if no OSL values were provisioned (all OSL filters are off and the user will not receive unsolicited messages).</td></tr> </table>	B	Report Data(B)ase Change messages (via REPT^DBCHG).	C	Report setting/clearing of (C)ritical alarms (via REPT^ALM) for equipment alarms and facility alarms.	D	Report Con(D)ition messages. (Note. The REPT^COND autonomous message type is not currently implemented in the system.)	E	Report (E)vent messages (via REPT^EVT^EQPT, REPT^EVT^T1, or REPT^EVT^T3). The E option does not disable the warning message generated at user login (via REPT^EVT^SESSION).	H	Reserved for future use. This OSL value (currently) has no affect.	I	Report (I)nitiaization messages (via REPT^INITZN).	M	Report setting/clearing of (M)ajor alarms (via REPT^ALM) for equipment alarms and facility alarms.	m	Report setting/clearing of (m)inor alarms (via REPT^ALM) for equipment alarms and facility alarms.	O	Provide Command ech(O) output response line for all responses. Refer to the Introduction for a description of other non-parsable text lines in successful, unsuccessful, and acknowledgement response messages controlled by the O option.	P	Report scheduled daily (P)erformance monitoring (PM) (via REPT^PM). (Note. The P filter does not affect PM threshold crossing alert messages. These are REPT^EVT messages.)	R	Report erro(R) messages (via REPT^HWSW). (These are Alcatel autonomous informational messages.)	S	Report (S)tatus messages (via REPT^INFORMATION or REPT^STAT). (These are Alcatel autonomous informational messages.)	W	Report (W)orld responses from all TL1 commands executed by any other user. A user subscribing to the W option receives all autonomous responses and the output responses for commands executed by another user according to the user's UCFCO value.	<NoVal>	No value is reported if no OSL values were provisioned (all OSL filters are off and the user will not receive unsolicited messages).
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UNAM	<p>{1–18 VALID UNAM CHARACTERS, <NoVal>}</p> <p>User Name, identifies the provisioned UNAM value. Values are:</p> <table> <tr> <td><Provisioned UNAM value></td><td></td></tr> <tr> <td><NoVal></td><td>No value is reported if a UNAM value was not entered.</td></tr> </table>	<Provisioned UNAM value>		<NoVal>	No value is reported if a UNAM value was not entered.																								
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DSKBFIND	{ALWAYS, NEVER}	Disk Buffer Find Indicator, indicates whether a user receives all output messages the user is subscribed to receive (via the user's OSL and UCFCO values), that were generated while the user was logged off the system, when the user re-logs in to the system. Values are:
	ALWAYS	Always, when the user logs in, the user receives all output messages the user is subscribed to receive that were generated while the user was logged off the system.
	NEVER	Never, when the user logs in, the user does not receive disk buffered response messages. The user only receives current response messages.
TYPE	{PRN, TTY, VDT}	Terminal Type, indicates the terminal CPORT configuration for the user. Values are:
	PRN	Printer (output only) CPORT.
	TTY	Teletype Terminal, non-cursor addressable input/output terminal.
	VDT	Video Display Terminal, cursor addressable video display terminal.
DM	{ECHO, NA, NOECHO}	TTY Display Mode, indicates the display mode for a TTY terminal after a user is logged-in. Values are:
	ECHO	Character Echo, input characters are echoed.
	NA	Not Applicable, value used for DM when TYPE is not TTY.
	NOECHO	Character Not Echo, input characters are not echoed.
OSTYPE	{NMA, OPSINE, OTHER, TSC}	Operations System Type, identifies the provisioned OSTYPE value. Values are:
	NMA	Network Monitoring and Analysis OS.
	OPSINE	Operations System for Intelligent Network Elements OS.
	OTHER	Any OS type other than NMA, OPSINE, and TSC.
	TSC	Test Session Controller OS.
LNKTMR	{0-3600}	CPORT Activity Link Timer, identifies the amount of time (in seconds) that the CPORT link is inactive before a link time-out event occurs. LNKTMR is not triggered by a user login, but by CPORT link communication activity after the login occurs. The LOTO parameter determines whether the user is automatically logged out if a link time-out occurs. Values are:
	0	Disabled, no link time-out will occur.
	1-3600	Time in seconds, indicates the LNKTMR time interval. A link time-out occurs if the link is inactive for the time, in seconds, indicated.
LOTO	{LOGOUT, NOLOGOUT}	Logout On Link Timer Time-out, indicates whether the user is logged off when the CPORT activity link timer (LNKTMR) times out.
	LOGOUT	The user is logged off when the link timer expires.
	NOLOGOUT	The user is not logged off when the link timer expires.
PARTNAM	{<1-20 VALID PARTITION NAME CHARACTERS>, <NoVal>}	Partition Name, indicates the provisioned value for PARTNAM.
	<Provisioned PARTNAM value>	
	<NoVal>	No value is reported if a PARTNAM value was not entered.

KAMINTVL	{0, 20–300}	Keep Alive Message Interval, indicates the amount of time (in seconds) that the user must be inactive before a Keep Alive Message (KAM) is automatically sent to the user. The user is inactive if there is no TL1 input or output (command responses, acknowledgement responses, or autonomous responses) between the user and the system. When a user logs in, the user's KAM timer is started and increments until CPORT link activity occurs. The KAM timer is reset when link activity is detected. KAM timers are not incremented when the system is in Limited Command Entry mode. Values are:
	0	Disabled, a KAM timer is not active and the user does not automatically receive any KAM autonomous messages.
	20–300	Time in seconds, specifies the KAM time interval. A KAM message is generated if the user's CPORT link is inactive for the time, in seconds, specified.
MIPINTVL	{0, 20–3500}	Multiple In Progress Message Interval, indicates the amount of time (in seconds) before an additional In Progress (IP) messages is generated. Any additional IP messages occur after the initial two second IP message is generated. An additional IP message for the ACT–USER, CANC–USER, ED–PID, STOP–OPS, START–OPS, or INIT–SYS commands is not generated, regardless of the MIPINTVL value. MIPINTVL timers are deactivated when the system is in Limited Command Entry mode. Values are:
	0	Disabled, the user will not receive any additional IP messages after the initial two–second IP message.
	20–3500	Time in seconds, indicates that an additional IP message is generated every n seconds (n=20 to 3500) until the entered command completes execution.

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Optional Suggested Action Text> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

```

EFON      Equipage, Feature Option Not provided
          /* Non-Binary field(s) */
          /* Only ECHO or NOECHO are valid DM options for a TTY */
          /* Display mode for this type is not applicable */
          /* Cannot change Alcatel user type to printer */
          /* Cannot Change UCFCI of <uid> */
          /* Cannot change partition name. */
          /* Cannot change system user type to printer */
          /* TYPE */
```

IDNV	Input, Data Not Valid /* UID length */ /* UID */ /* PSWD length */ /* PSWD */ /* UNAM length */ /* UNAM */ /* UNAM must begin with a letter */ /* UCFCI length */ /* UCFCI */ /* UCFCO length */ /* UCFCO */ /* OSL length */ /* OSL */ /* CAL */ /* PARTNAM length */ /* PARTNAM */ /* DM */ /* The User Security Database is full. */ /* Invalid OSTYPE */ /* Illegal Input: PARTNAM */ /* No Other OSL Options Allowed With Z */ /* <uid> cannot be a partitioned user */ /* Entry in UCFCI group not valid, # */ /* Entry in UCFCO group not valid, # */ /* Unable to find requested partition name */ /* ALL cannot be used as a partition name */ /* Privilege: UNAUTHORIZED TO REQUEST THIS COMMAND */ /* System cannot be a partitioned user */ /* Alcatel cannot be a partitioned user */ /* Sysprint cannot be a partitioned user */ /* Privilege: UNAUTHORIZED ED-PRVG-USER REQUEST */
IIFM	Input, Invalid data ForMat /* Illegal Input: PARTNAM Length */
IPEX	Input, Parameter EXtra /* Illegal Input : OSL */ /* No Other OSL Options Allowed With Z */
IPNV	Input, Parameter Not Valid /* Only ECHO or NOECHO are valid DM options for a TTY */ /* Display mode for this type is not applicable */ /* Duplicate User information (UNAM field) */ /* Cannot change Alcatel user type to printer */ /* Cannot change system user type to printer */ /* Illegal Input: Unable to find requested user (UID) */ /* Illegal Input: Unable to update USDB – status = <status number> */ /* Illegal Input: [TYPE], [DM], [UNAM], [OMODE], [OSL], [CAL], [UCFCI], [UCFCO], [RUSURE], [DSKBFIND], [OSTYPE] */ /* Unable to find requested user (UID) */ /* Cannot Change UCFCI of alcatel */
SDBE	Status, internal Data Base Error /* Error accessing the PARTITION DB – status = <status number> */ /* Unable to update USDB – status = <status number> */ /* Unable to read USDB – status = <status number> */ /* Unable to read OSDB – status = <status number> */

SROF Status, Requested Operation Failed
 /* User not found in USDB */
 /* Privilege: Unauthorized to Request this command */

EXAMPLES

In the following example, ED-PRVG-USER is used to edit the user security database entry for user13.

```
ED-PRVG-USER:::::user13,A,A,10,,CM,user13_info,NO,NEVER,TTY,ECHO;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P0a057. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed. was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M P0a057 COMPLD  
/* user13,A,A,10 */  
/* C,CM,user13_info,NO,NEVER,TTY,ECHO,OTHER,0,NOLOGOUT,,0,0 */  
/* ED-PRVG-USER:::::user13,A,A,10,,CM,user13_info,NO,NEVER,TTY,ECHO  
[P0a057] (1) */  
;
```

In the following example, ED-PRVG-USER is used to edit the user security database entry for user21.

```
ED-PRVG-USER:::::user21,Z,Z,25,,Z,user_21_info,,ALWAYS,VDT,NA;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P0a061. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed. was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M P0a061 COMPLD  
/* user21,Z,Z,25 */  
/* C,,,YES,ALWAYS,VDT,NA,OTHER,0,NOLOGOUT,,0,20 */  
/* ED-PRVG-USER:::::user21,Z,Z,25,,Z,user_21_info,,ALWAYS,VDT,NA  
[P0a061] (1) */  
;
```

RELATED COMMANDS

ACT-USER
CANC-USER
DLT-USER
ED-CID
ED-PID
ENT-USER
ENT-PARTITN
RMV-CID
RST-CID
RTRV-PRVG-USER

RELATED AUTONOMOUS RESPONSES

KEEP^ALIVE^MESSAGE

COMMAND CODE: **ED-RIP-PRMTR**
COMMAND NAME: **EDIT RIP PARAMETERS**

PURPOSE

The ED-RIP-PRMTR command allows provisioning of the Routing Information Protocol (RIP) parameters of the Local Area Network (LAN) interface on the Intelligent Communication Module (ICM). This command allows provisioning of the network layer (Layer 3) parameters for RIP. The RIP dynamic router is initialized in passive listening ("silent") mode since it is not acting as a gateway in the network.

Changes to the name-defined parameters are stored in the database and take effect only when the stack is (re)initialized via the RST-CID command. All of the name-defined parameters survive a database backup and restore.

The ED-RIP-PRMTR command can be executed while in the Limited Command Execution mode (i.e., after execution of a STOP-OPS command) or the Normal Command Execution mode.

An ED-RIP-PRMTR command is denied if:

- The specified CID is not provisioned as a LAN port on the ICM (via ENT-CID with PROTOCOL of TCP).
- The specified CID is not configured as the LAN on the ICM.
- The specified CID is not configured with the RIP parameters being provisioned.
- An invalid parameter value is entered.

INPUT FORMAT

ED-RIP-PRMTR: [TID] : CPORT: [CTAG] : : : [RIPMODE=] [, RIPSTAT=] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CPORT	{3, 5, 7, 9, 11} Default: Entry Required Addressing: None Description: Control Port, identifies the CID which is configured as the LAN on the ICM module.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
RIPMODE=	{V1, V2, V1V2} Default: <Previously Existing Value> or {V1V2} (Factory Default) Addressing: None Addressing: None Description: Determines which RIP mode to configure in the system. Values are: V1 Version 1, allows system to receive RIP V1 broadcast updates. V2 Version 2, allows system to receive RIP V2 multicast and RIP V1 broadcast updates. V1V2 Version 1 and Version 2, allows system to receive RIP V1 broadcast and RIP V2 broadcast updates.

RIPSTAT= {DISABLE, ENABLE}
Default: <Previously Existing Value> or {DISABLE} (Factory Default)
Addressing: None
Description: Routing Information Protocol (RIP) Status, determines whether or not the RIP protocol is enabled on the router. Values are:
 DISABLE Specifies the RIP protocol is not enabled on the router.
 ENABLE Specifies the RIP protocol is enabled on the router.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV Input, Data Not Valid
 IIAC Input, Invalid ACcess identifier
 IPNV Input, Parameter Not Valid

EXAMPLES

In the following example, the RIP parameters pertaining to the LAN on the ICM are being provisioned.

```
ED-RIP-PRMTR::5:::RIPMODE=V1V2,RIPSTAT=DISABLE;
```

RELATED COMMANDS

```
RTRV-RIP-PRMTR
```

COMMAND CODE: **ED-RNG-OC12**
COMMAND NAME: **EDIT RING OC-12**

PURPOSE

The ED-RNG-OC12 command modifies the parameters associated with the ring protection group pair defined in a previously executed ENT-RNG-OC12 command. The ring protection pair consists of a preferred (protected) OC-12 and its corresponding alternate (protecting) OC-12.

An ED-RNG-OC12 command is denied if:

- The OC-12s specified in B1 and B2 parameters do not refer to preferred and alternate OC-12s, respectively.
- An invalid parameter value is entered.

INPUT FORMAT

ED-RNG-OC12 : [TID] : B1 , B2 : [CTAG] : : : [WTSDEL=] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
B1	OC12_AID: {OC12-{1-560}} (OC12-OC12#) Default: Entry Required Addressing: None Description: OC12 AID, identifies the preferred (protected) OC-12 port. Restrictions: ED-RNG-OC12 is denied if the OC-12 specified is not an odd-numbered OC-12.
B2	OC12_AID: {OC12-{1-560}} (OC12-OC12#) Default: Entry Required Addressing: None Description: OC12 AID, identifies the alternate (protecting) OC-12 port. Restrictions: ED-RNG-OC12 is denied if the OC-12 specified is not an even-numbered OC-12. ED-RNG-OC12 is denied if B2 is not equal to B1+1.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
WTSDEL=	{DELAY, IMMED} Default: {IMMED} Addressing: None Description: Wait to Switch Delay. Determines if the path switching on the paths within the OC-12 is to be delayed by a set amount determined by the hardware or if it is immediate. Values are: <div style="margin-left: 40px;"> DELAY The path switching is to be delayed by approximately 25 milliseconds after the fault is detected. IMMED The path switching is to occur immediately upon detection of the fault. </div>

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* <Free Form Informational Text> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid
IIAC	Input, Invalid ACcess identifier
SDBE	Status, internal Data Base Error
	/*TP Database Error: <ERROR-STRING> for <AID-STRING>*/
	/*RNG Database Error: <ERROR-STRING> for record number <RECORD-NUM- BER>*/
SNVS	Status, Not in Valid State

EXAMPLES

In the following example, a ring protection relationship is created for OC-12 ports OC12-14 (alternate line) and OC12-13 (preferred line).

```
ED-RNG-OC12::OC12-13,OC12-14:::WTSDEL=IMMED;
```

RELATED COMMANDS

```
DLT-RNG-OC12
ENT-RNG-OC12
RTRV-RNG-OC12
```


COMMAND CODE: **ED-RNG-OC3**
COMMAND NAME: **EDIT RING OC-3**

PURPOSE

The ED-RNG-OC3 command modifies the parameters associated with the ring protection group pair defined in a previously executed ENT-RNG-OC3 command. The ring protection pair consists of a preferred (protected) OC-3 and its corresponding alternate (protecting) OC-3.

An ED-RNG-OC3 command is denied if:

- The OC-3s specified in B1 and B2 parameters do not refer to preferred and alternate OC-3s, respectively.
- An invalid parameter value is entered.

INPUT FORMAT

ED-RNG-OC3 : [TID] : B1 , B2 : [CTAG] : : : [WTSDEL=] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
B1	OC3_AID: {OC3-{1-2240}} (OC3-OC3#) Default: Entry Required Addressing: None Description: OC3 AID, identifies the preferred (protected) OC-3 port. Restrictions: ED-RNG-OC3 is denied if the OC-3 specified is not an odd-numbered OC-3.
B2	OC3_AID: {OC3-{1-2240}} (OC3-OC3#) Default: Entry Required Addressing: None Description: OC3 AID, identifies the alternate (protecting) OC-3 port. Restrictions: ED-RNG-OC3 is denied if the OC-3 specified is not an even-numbered OC-3. ED-RNG-OC3 is denied if B2 is not equal to B1+1.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
WTSDEL=	{DELAY, IMMED} Default: <Previously Existing Value> Addressing: None Description: Wait to Switch Delay. Determines if the path switching on the paths within the OC-3 is to be delayed by a set amount determined by the hardware or if it is immediate. Values are: <div style="margin-left: 40px;"> DELAY The path switching is to be delayed by approximately 25 milliseconds after the fault is detected. IMMED The path switching is to occur immediately upon detection of the fault. </div>

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* <Free Form Informational Text> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid
IIAC	Input, Invalid ACcess identifier
SDBE	Status, internal Data Base Error
	/*TP Database Error: <ERROR-STRING> for <AID-STRING>*/
	/*RNG Database Error: <ERROR-STRING> for record number <RECORD-NUM- BER>*/
SNVS	Status, Not in Valid State

EXAMPLES

In the following example, a ring protection relationship is created for OC3-3 ports OC3-14 (alternate line) and OC3-13 (preferred line).

```
ED-RNG-OC3::OC3-13,OC3-14:::WTSDEL=IMMED;
```

RELATED COMMANDS

```
DLT-RNG-OC3
ENT-RNG-OC3
RTRV-RNG-OC3
```

COMMAND CODE: **ED-STS1**
COMMAND NAME: **EDIT STS-1**

PURPOSE

The ED-STS1 command modifies the specified STS-1 port parameter values previously provisioned using ENT-STS1.

Executing an ED-STS1 command causes the following primary state transitions for the specified STS-1. Secondary states associated with the STS-1 after the command is executed depend upon events detected by the system. Refer to Appendix G, State Transitions for additional information on state values and state transitions.

Entered PST Value	Next PST State if Current PST State is:			
	IS	OOS-AU	OOS-AUMA	OOS-MA
IS	Denied	Denied	OOS-AU	IS
OOS	OOS-MA	OOS-AUMA	Denied	Denied

Note: 1. No state change occurs if no value is entered for PST.

When an STS-1 is edited to an OOS-MA or OOS-AUMA state, a MAN condition type is set for the specified STS-1. The MAN condition type is cleared when the STS-1 is provisioned to an IS state.

When an STS-1 is in an OOS-MA, OOS-AUMA state, no STS-1 transmission condition types or performance monitoring threshold crossing alerts are autonomously reported for the STS-1, but STS-1 alarm conditions are monitored (retrievable with the RTRV-STS1 command) and performance monitoring data is collected (if provisioned for PM collection by the SET-PMODE-STS1 command) for the STS-1.

When an STS-1 with an SST of WRK (refer to ENT-RNG-OC3 or ENT-RNG-OC12) is edited to an OOS state and the STS-1 or its subordinate VT1.5s are path switched via 2WAYPR, the system selects the STS-1/VT1.5 from the redundant ring OC-3/OC-12 (if that path has an SST of STBYH) and that STS-1/VT1.5 enters an SST of WRK. If the redundant path is not in an SST of STBYH, no switching is attempted. When the STS-1 or its subordinate VT1.5s are in a pass through connection via 2WAY, the path AIS is sent in the pass through direction.

An ED-STS1 command is denied if:

- The specified STS-1 has not previously been provisioned with the ENT-STS1 command.
- The specified STS-1s supporting EC1, OC-3 or OC-12 have not been provisioned.
- The specified STS-1 is being edited from an IS or OOS-AU state to an IS state.
- The specified STS-1 is being edited from an OOS-MA or OOS-AUMA state to an OOS,<Null> state.
- The specified STS-1 is being edited to an IS state and the STS-1 is in a loopback (the STS-1 has an SST of LPBK).
- The specified STS-1 is being edited from an IS or OOS-AU state to OOS-MA or OOS-AUMA state and the STS-1 is connected (it has an SST of TRM, ACT or BUSY), unless CMDMDE=FRCD is used.
- The specified STS-1, which is embedded within a ring OC-3 or OC-12 (refer to ENT-RNG-OC3 or ENT-RNG-OC12), is being edited to an OOS,<Null> state and the embedded STS-1 or VT1.5s have an SST of WRK, unless CMDMDE=FRCD.
- CMDMDE=NORM is entered and the specified STS-1 has an SST of {ACT, BUSY, TRM}.
- CMDMDE=FRCD (or NORM) is entered with an attempt to alter the value of STSMAP and a mapping is currently in place (meaning that one or more embedded termination points (T3 or VT1) have been provisioned (SST of SDEE and/or TRM), or that a cross-connection is in place which connects to an embedded termination point regardless of whether or not it is provisioned (e.g., a T3 or VT1 level implied CRS), for examples).
- STSPTYEL=Y is specified.
- An invalid parameter value or combination of parameter values is entered.
- TACC=Y, and PST=IS.
- TAPPOOL is set to a valid value but TACC=N.

- TAPP AID is set to the last STS–1 value in the system, and AID+1 can not be provisioned as a FAD port.
- If the port specified by AID is involved in a redlined (RDL=Y) connection, and any parameter other than PST is specified. CMDMDE=FRCD will not override this restriction
- FADB is provisioned.

I/O protection switching is disabled if all three STS–1 ports supported by the EP3 or ES1 circuit pack are in an OOS–MA or OOS–AUMA state. I/O protection switching only occurs if at least one of the STS–1s on the supporting I/O circuit pack is provisioned to an IS or an OOS–AU state.

In order to be compatible with the older UPSRs which do not switch on the excessive BERs (EBERs) on the VT1.5, the system may insert AIS–V in all VT1.5 paths (through, drop terminated and drop non–terminated) contained in a terminated STS–1 (embedded in a ring OC–3 or OC–12) that is detected as having EBER. Whether or not to insert AIS in all VTs is provisionable via AUTOVTRINGAIS parameter.

INPUT FORMAT

```
ED–STS1 : [TID] : AID : [CTAG] : : : [AUTOVTRINGAIS=] [ , STSMAP=]
[ , STSPTYEL=] [ , CMDMDE=] [ , EXPTRC=] [ , TACC=] [ , TAP–
POOL=] [ , TRC=] [ , PDIINS=] : [PST] ;
```

INPUT PARAMETERS

TID	< 1–20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	STS1_AID: {EC1STS1–{1–3840}} (EC1STS1–EC1/STS1#) {OC3STS1–{1–2240}–{1–3}} (OC3STS1–OC3#–STS1#) {OC12STS1–{1–560}–{1–4}–{1–3}} (OC12STS1–OC12#–STM1#–STS1#) Default: Entry Required Addressing: &&–ranging and &–grouping Description: STS1 AID, identifies the STS–1 port or range of ports.
CTAG	< 1–6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
AUTOVTRINGAIS=	{3, 4, DISABLE} Default: <Previously Existing Value> Addressing: None Description: Automatic transmit VT path AIS, specifies the level of EBER on the addressed STS–1 (that is terminated) which causes Automatic transmit VT path AIS to be sent. This parameter only applies to a terminated STS–1 that is embedded within a ring OC–3 or OC–12. If the addressed STS–1 is embedded within a ring OC–3 or OC–12, the STS–1 in the redundant ring OC–3 or OC–12 is modified to the specified value. Valid values are: 3 On reaching a 10E–3 BER threshold, send AIS on all of its constituent VT1.5s. 4 On reaching a 10E–4 BER threshold, send AIS on all of its constituent VT1.5s. DISABLE Path AIS on all of the VT1.5s within the addressed STS–1 is not to be sent on EBER on STS–1.

STSMAP=	{ALL, ASYNC, VTFLOAT}	
	Default:	<Previously Existing Value>
	Addressing:	None
	Description:	STS payload Mapping. Determines the expected STS–1 payload type and the value of the expected path signal label (C2). Used for comparison for the Signal Label Mismatch function. Values are:
	ALL	Match ALL incoming signal labels, without creating a SLMF condition, and disallow mappings (i.e., terminating) at this STS–1. Only intact STS–1 connections are possible since ALL is intended for intermediate path monitoring only. Incoming idle (unequipped) signal labels will continue to produce IDLE condition types.
	ASYNC	Asynchronous mapping for DS3 (i.e., C2=04 hex). The system will accept only incoming signal labels of type ASYNC without creating a SLMF condition. Incoming idle (unequipped) signal labels will continue to produce IDLE condition types.
	VTFLOAT	Floating mode VTs (i.e., C2=02 hex).
	Restrictions:	If STSMAP=ASYNC, only ASYNC type mappings may be applied to the STS–1 (e.g., ENT–T3, ENT–CRS–T3, etc.). No visibility mappings can be made on an STS–1 (i.e., ENT–T3 is not possible even though STSMAP=ASYNC) if the STS–1 is provisioned on hardware that cannot directly support ASYNC mappings for intermediate path monitoring purposes (e.g., an ES1 card). ED–STS1 is denied if an attempt is made to alter the value of STSMAP and a mapping is currently in place.
STSPTYEL=	{N}	
	Default:	<Previously Existing Value>
	Addressing:	None
	Description:	STS path yellow behavior. Identifies whether STS path yellow or RDI is sent/received. Values are:
	N	No. RDI is not sent/received on appropriate defect states.
CMDMDE=	{FRCD, NORM}	
	Default:	{NORM}
	Addressing:	None
	Description:	Command Execution Mode. Values are:
	FRCD	Forced. The command is accepted and parameter values are modified even if the STS–1 is cross-connected.
	NORM	Normal. The command is denied if the STS–1 is in an IS state and is cross-connected (STS–1 has an SST of ACT or BUSY).
	Restrictions:	ED–STS1 is denied if an attempt is made to change STSMAP when a mapping is currently in place, even if CMDMDE=FRCD.

EXPTRC=	< 0–62 ASCII printable characters followed by CR and LF > Default: <Previously Existing Value> Addressing: None Description: Expected Path Trace message, specifies the expected path trace message. Value consists of 0–62 ASCII printable characters followed by a CR (carriage return) and LF (line feed). If less than 62 characters are entered, the EXPTRC message is filled with ASCII nulls followed by CR and LF. The EXPTRC value must be enclosed within double–quotes if a character other than an alphanumeric, underscore, plus, percent or pound is entered. If "" (i.e., no characters) is entered, the EXPTRC message is 62 ASCII nulls followed by a CR and LF. For locally generated STS–1s (i.e., not cross connected intact), the TRC value transmitted is the locally provisioned TRC value. For intact cross–connected STS1s, the TRC value transmitted is the TRC value received at the other end of the cross–connection.
TACC=	{N, Y} Default: <Previously Existing Value> Addressing: None Description: Test Access port AID, indicates that this STS1 port (specified by AID) and the AID+1 STS1 port are to be used as a Test Access Port Pairs (TAPP). The port specified by AID becomes FAD A and the port specified by AID+1 becomes FAD B. Values are: N No, the specified STS1 port is not a Test Access port. Y Yes, STS1 ports specified by AID and AID+1 are Test Access ports. Restrictions: If TACC=Y, the AID of an STS1 entity embedded in an OC12, OC3, or EC1, except the 3rd STS1 within an OC3 and the {4–3}th STS1 within an OC12. Refer to Appendix B, Access Identifiers (AIDs).
TAPPOOL=	{PRIVATE, PUBLIC, <NoVal>} Default: <NoVal> if TACC = N PRIVATE if TACC = Y Addressing: None Description: TAP port Pool, defines whether the TAP port that has been created (by means of TACC=Y) belongs to the pool that is private to the creator of the pool or belongs to a public pool. Values are: PRIVATE The TAP pair that has been created belongs to the private pool of the user that issued the ENT–STS1 command. It can only be accessed by the user that owns the pool. If any other user tries to use this TAP pair (by means of CONN–TACC–STS1), the command shall be denied. PUBLIC The TAP pair that has been created belongs to the public pool of the system. It can be accessed by any user with the privilege to use the Test Access commands. <NoVal> No Value (unpopulated), TAPPOOL does not apply if TACC=N.

TRC= < 0–62 ASCII printable characters followed by CR and LF >
Default: <Previously Existing Value>
Addressing: None
Description: Path Trace message, specifies the path trace message transmitted when the STS1 is terminated (i.e., it is not cross connected intact). Value consists of 0–62 ASCII printable characters followed by a CR (carriage return) and LF (line feed). If less than 62 characters are entered, the TRC message is filled with ASCII nulls followed by CR and LF. The TRC value must be enclosed within double-quotes if a character other than an alphanumeric, underscore, plus, percent or pound is entered. If "" (i.e., no characters) is entered, the TRC message is 62 ASCII nulls followed by a CR and LF.
 For intact cross connected STS1s, the TRC value transmitted is the TRC value received at the other end of the cross connection.

PDIINS= {N, Y}
Default: <Previously Existing Value>
Addressing: None
Description: Payload Defect Indication INsertion (Transmit/outgoing direction only). Controls whether PDI values will be inserted into the outgoing signal label (C2) bytes. If Fault Escalation is disabled on the STS–1 (default of FLTPRO=N via the ED–FLTPRO–STS1 command), PDI insertion is per GR–253. If Fault Escalation is enabled (FLTPRO=Y), PDI insertion is based on Alcatel's Fault Escalation type payload defects. Values are:

N	No, PDI values are not inserted into the outgoing signal label when payload defects exist.
Y	Yes, PDI values are inserted into the outgoing signal label when payload defects exist.

The interaction between PDIINS in this command and the FLTPRO in the ED–FLTPRO–STS1 command is defined in the following table.

PDIINS = in ED–STS1 command	FLTPRO = in ED–FLTPRO–STS1	
	Y	N
Y	Fault escalation is based on selected incoming faults as defined in the Fault Propagation feature and PDI=FC (also called APDI) is inserted in the outgoing C2 byte.	Fault escalation is based on conditions defined in GR–253 and PDI is inserted in the outgoing C2 byte
N	Fault escalation is based on selected incoming faults as defined in the Fault Propagation feature and AIS–P is inserted in the outgoing STS1.	No fault escalation (None of the PDI, APDI or AIS–P is generated)

PST {IS, OOS}
Default: < NO PST STATE CHANGE >
Addressing: None
Description: Primary State, specifies the primary state to provision the STS–1. Values are:

IS	In-Service
OOS	Out-Of-Service

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  /* <Free Form Informational Text> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent /* Invalid combination of TACC and TAPPOOL */ /* Invalid parameter change of a Red Lined connection */
IDNV	Input, Data Not Valid
IIAC	Input, Invalid ACcess identifier
IIFM	Input, Invalid data ForMat /* TRC and/or EXPTRC text strings too long */
PICC	Privilege, Invalid Command Code /* You are not the owner of the TAPP */ /* You do not have the privilege to make this change in TAPP */
SAIS	Status, Already In Service
SAOS	Status, Already Out of Service
SCAT	Status, Circuit Already connected to another Tap
SDBE	Status, internal Data Base Error /* TP Database Error: <ERROR-STRING> for <AID-STRING> */ /* Error updating supported entities */ /* STS1 Shelf info error, Error=<ERROR-STRING> */ /* Error disabling supported T3s, Error=<ERROR-STRING> */ /* Error disabling supported VT1s, Error=<ERROR-STRING> */ /* Error enabling supported T3s, Error=<ERROR-STRING> */ /* Error enabling supported VT1s, Error=<ERROR-STRING> */ /*CONN Database Error: <ERROR-STRING> for <AID-STRING>*/ /*GetSptgTps(<TP-TYPE>, <RECORD-NUMBER>): <ERROR-STRING>*/ /*GetSptdTPid(STS1, <RECORD-NUMBER>, T3): <ERROR-STRING>*/
SNVS	Status, Not in Valid State /* Cannot change STSMAP while supported entities exist */ /* Cannot change STSMAP while connected */ /*In-Service terminated or connected ports must be FRCD*/ /*The port or a VT1.5 is connected In-Service non-STBYH, must be FRCD*/
SROF	Status, Requested Operation Failed
SRQN	Status, invalid ReQuest /* Cannot create FAD if supporting entity is in a ring */ /* Cannot edit a port to be FAD if fault propagation is active */

SSRE Status, System Resources Exceeded
 /* No more TAPPs can be assigned*/

EXAMPLE

In the following example, STS-1 port OC3STS1-1-3 (an STS-1 embedded within an OC-3) provisioning is changed to STSPTYEL to send RDI instead of STS-1 path yellow and to place the STS-1 in the IS state. All other parameter values are unchanged.

```
ED-STS1::OC3STS1-1-3:::STSPTYEL=N:IS;
```

RELATED COMMANDS

DLT-STs1

ED-FLTPRO-STs1

ENT-STs1

RMV-STs1

RST-STs1

RTRV-CRS

RTRV-CRS-STs1

RTRV-FLTPRO-STs1

RTRV-RDL-ALL

RTRV-STs1

COMMAND CODE: **ED-STS3C**
COMMAND NAME: **EDIT STS-3C**

PURPOSE

The ED-STS3C command modifies the specified STS-3C port parameter values previously provisioned using ENT-STS3C.

Executing an ED-STS3C command causes the following primary state transitions for the specified STS-3C. Secondary states associated with the STS-3C after the command is executed depend upon events detected by the system. Refer to Appendix G, State Transitions for additional information on state values and state transitions.

Entered PST Value	Next PST State if Current PST State is:			
	IS	OOS-AU	OOS-AUMA	OOS-MA
IS	Denied	Denied	OOS-AU	IS
OOS	OOS-MA	OOS-AUMA	Denied	Denied

Note: 1. No state change occurs if no value is entered for PST.

When an STS-3C is edited to an OOS-MA or OOS-AUMA state, a MAN condition type is set for the specified STS-3C. The MAN condition type is cleared when the STS-3C is provisioned to an IS state.

When an STS-3C is in an OOS-MA, OOS-AUMA state, no STS-3C transmission condition types or performance monitoring threshold crossing alerts are autonomously reported for the STS-3C, but STS-3C alarm conditions are monitored (retrievable using the RTRV-STS3C command) and performance monitoring data is collected (if provisioned for PM collection by the SET-PMMODE-STS3C command) for the STS-3C.

An ED-STS3C command is denied if:

- The specified STS-3C has not previously been provisioned using the ENT-STS3C command (SST of UAS).
- The specified STS-3C is being edited from an IS or OOS-AU state to an IS state.
- The specified STS-3C is being edited from an OOS-MA or OOS-AUMA state to an OOS,<Null> state.
- CMDMDE=NORM is entered (or defaulted to) and the specified STS-3C has an SST of {ACT or BUSY}.
- The port identified by AID is involved in a redlined connection, and any parameter other than PST is entered. CMDMDE=FRCD will not override this denial.
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

ED-STS3C: [TID] :AID: [CTAG] : : : [CMDMDE=] [, EXPTRC=] [, STSMAP=] [, TRC=] : [PST] ;

INPUT PARAMETERS

TID	< 1–20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	STS3C_AID: {OC3STS3C–{1–2240}} (OC3STS3C–OC3#/STS3C#) {OC12STS3C–{1–560}–{1–4}} (OC12STS3C–OC12#–STM1/STS3C#) Default: Entry Required Addressing: &&–ranging and &–grouping Description: STS3C AID, identifies the STS–3C port or range of ports.
CTAG	< 1–6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
CMDMDE=	{FRCD, NORM} Default: {NORM} Addressing: None Description: Command Execution Mode. Values are: FRCD Forced. The command is accepted and parameter values are modified regardless of the state of the STS–3C. NORM Normal. The command is denied if the STS–3C is in an IS state and is cross–connected (STS–3C has an SST of ACT or BUSY).
EXPTRC=	< 0–62 ASCII printable characters followed by CR and LF > Default: <Previously Existing Value> Addressing: None Description: Expected Path Trace message. Specifies the expected path trace message. Value consists of 0–62 ASCII printable characters followed by a CR (carriage return) and LF (line feed). If less than 62 characters are entered, the EXPTRC message is filled with ASCII nulls followed by CR and LF. The EXPTRC value must be enclosed within double–quotes if a character other than an alphanumeric, underscore, plus, percent or pound is entered. If "" (i.e., no characters) is entered, the EXPTRC message is 62 ASCII nulls followed by a CR and LF.
STSMAP=	{ALL, ATM, DQDB, DS4NA, FDDI} Default: <Previously Existing Value> Addressing: None Description: STS payload Mapping. Specifies the expected STS–3C payload type and the value of the expected path Signal Label (C2). Used for comparison for the Signal Label Mismatch function. Values are: ALL Generic STS–3C format. Contains payload of any mapping format (C2=00 hex). Since this value will match ALL signal label values, mismatch alarms are never generated. ATM STS–3C contains ATM payload (provisioned (C2=13 hex)). DQDB STS–3C contains DQDB payload (provisioned (C2=14 hex)). DS4NA STS–3C contains DS4NA payload (provisioned (C2=12 hex)). FDDI STS–3C contains FDDI payload (provisioned (C2=15 hex)).

TRC=	< 0–62 ASCII printable characters followed by CR and LF > Default: <Previously Existing Value> Addressing: None Description: Path Trace message. Specifies the path trace message to be transmitted when the STS–3c is provisioned. Value consists of 0–62 ASCII printable characters followed by a CR (carriage return) and LF (line feed). If less than 62 characters are entered, the TRC message is filled with ASCII nulls followed by CR and LF. The TRC value must be enclosed within double–quotes if a character other than an alphanumeric, underscore, plus, percent or pound is entered. If "" (i.e., no characters) is entered, the TRC message is 62 ASCII nulls followed by a CR and LF. For locally generated STS–3Cs (i.e., not cross–connected intact), the TRC value transmitted is the locally provisioned TRC value. For intact cross–connected STS–3Cs, the TRC value transmitted is the TRC value received at the other end of the cross–connection.
PST	{IS, OOS} Default: < NO PST STATE CHANGE > Addressing: None Description: Primary State, specifies the primary state to provision the STS–3C. Values are: IS In-Service OOS Out-Of-Service. Out-of-service for management (OOS–MA) is assumed.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  /* <Free Form Informational Text> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non–Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent /* Invalid parameter change while Red Lined connected */
IDNV	Input, Data Not Valid
IIAC	Input, Invalid ACcess identifier
IIFM	Input, Invalid data ForMat /* TRC and/or EXPTRC text string is too long */
SAIS	Status, Already In Service
SAOS	Status, Already Out of Service
SDBE	Status, internal Data Base Error /* TP Database Error: <ERROR–STRING> for <AID–STRING> */

SNVS	Status, Not in Valid State
	/* To edit a non-idle in-service port, set CMDMDE = FRCD */
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, STS-3C port OC3STS3C-3 (an STS-3C embedded within an OC-3) provisioning is changed to STSMAP to match ATM payload type and to place the STS-3C in the IS state. All other parameter values are unchanged.

```
ED-ST3C::OC3STS3C-3:::STSMAP=ATM:IS;
```

RELATED COMMANDS

DLT-STS3C
ENT-STS3C
RMV-STS3C
RST-STS3C
RTRV-CRS
RTRV-CRS-STS3C
RTRV-RDL-ALL
RTRV-STS3C

COMMAND CODE: **ED-T1**
COMMAND NAME: **EDIT T1**

PURPOSE

The ED-T1 command modifies the specified DS1 port parameter values previously provisioned using ENT-T1. It also modifies the parameters pertaining to External DS1 Timing Reference Source (TMG).

The system establishes cross-connects to an Idle signal when a DS1 is not cross-connected to another DS1. The Idle signal used is determined by the DS1's provisioning of the IDLE parameter value. If AIS is specified as the Idle signal for a DS1 port, the AIS Idle signal is generated internally by the port hardware. If QRS (Framed or Unframed) is specified as the Idle signal for a port, an Idle Signal Source port is used to generate the Idle signal. Any DS1 port, except a DS1 contained in a VT1.5, may be provisioned as a QRSF or QRSU Idle Signal Source port. Only one DS1 in the system can be provisioned at a time as a QRSF (ESF or SF format) or QRSU Idle Signal Source port, but another port can be provisioned to replace one of these Idle Signal Source ports and the system automatically uses the replacement port as the specified Idles Signal Source. The format of an Idle Signal Source port must be specified as either SF or ESF if the Idle Signal Source port is to provide a QRSF Idle Signal. An Idle Signal Source port must be provisioned before any DS1 requiring its use is provisioned. An Idle Signal Source port provisioned as an Internal Source port (SRC of INTSRC) has both facility failure detection disabled (a facility failure condition cannot occur for an Internal Idle Signal Source port) and Performance Monitoring data collection disabled. Parameter values of an Idle Signal Source port cannot be changed (with an ED-T1 command) while in use. An Idle Signal Source port cannot be the target AID for a cross-connect.

Up to 256 electrical DS1 or DS1 embedded in an electrical DS3 port pairs in the system may be provisioned as a test access port at a time, but only to an OOS-MA or OOS-AUMA state. When this is done, the two ports identified by AID and AID+1 are both provisioned as a Test Access Port Pair (TAPP). A TAPP is always assigned as a sequential pair of ports (i.e., if port T3T1-3-5 is referenced in the command, then ports T3T1-3-5 and T3T1-3-6 are the TAPP). When using ED-T1 to provision a TAPP, AID+1 must be provisioned, AID+1 must not be a FAD of another TAPP, and both AID and AID+1 must have C-bit loopback disabled. When using ED-T1 to change the provisioning of a TAPP, either of the AIDs for FAD A or FAD B can be specified as the AID in the command and the provisioning changes are applied to both the FAD A and FAD B ports. If TAPPOOL is not specified or specified as PRIVATE, the TAPP will be associated with, or owned by, the user that provisioned the TAPP. No other user is allowed to use the TAPP for test access operations or change the TAPPs provisioning. If TAPPOOL is specified as PUBLIC, then that TAPP can be used by any user that has access to test access commands. If the TAPPs are embedded DS1s within a DS3, both DS1s of the TAPP must be embedded within the same DS3 and the supporting DS3 must be provisioned (with the ENT-T3 command) before the TAPP is provisioned. TAPPs may not be the target AID for a cross-connect.

Executing an ED-T1 command causes the following primary state transitions for the specified DS1. Secondary states associated with the DS1 after the command is executed depend upon events detected by the system. Refer to Appendix G, State Transitions for additional information on state values and state transitions.

Entered PST,SST Value	Next PST State if Current PST State is:				
	IS	OOS-AU	OOS-AU,AINS	OOS-AUMA	OOS-MA
IS,<NoVal>	Denied	Denied	Denied	OOS-AU	IS
OOS,<NoVal>	OOS-MA	OOS-AUMA	Denied	Denied	Denied
IS,AINS	OOS-AU,AINS	OOS-AU,AINS	Denied	OOS-AU,AINS	OOS-AU,AINS
IS,AINS-DEA	Denied	Denied	OOS-AU	Denied	Denied
OOS,AINS-DEA	Denied	Denied	OOS-AUMA	Denied	Denied

Note: 1. <NoVal> means no value is entered for the SST parameter.
2. No state change occurs if no value is entered for PST and SST.
3. ED-T1 is denied if SST of AINS-DEA is entered and the current DS3 state is not OOS-AU,AINS (an SST state of AINS).

When a DS1 is edited to an OOS–MA or OOS–AUMA state, a MAN condition type is set for the specified DS1, unless the specified DS1 is provisioned as a Test Access Port (a MAN condition is not set on TAPPs). The MAN condition type is cleared when the DS1 is provisioned to an IS state.

When a DS1 is in an OOS–MA, OOS–AU, AINS or OOS–AUMA state, no DS1 transmission condition types or performance monitoring threshold crossing alerts are autonomously reported for the DS1, but DS1 alarm conditions are monitored (retrievable with the RTRV–T1 command) and performance monitoring data is collected (if provisioned for PM collection by the SET–PMMODE–T1 command) for the DS1. A DS1 in an OOS–AU, AINS state transitions to an IS state when all DS1 near–end alarm conditions (LOS, LOF and AIS) for that DS1 have cleared.

An ED–T1 command is denied if:

- The specified DS1 has not previously been provisioned with the ENT–T1 command.
- The specified DS1 is contained in an STS–1 embedded in an OC–3 or OC–12 ring and SRC=EXTSRC or INTSRC.
- The specified DS1 is being edited from an IS or OOS–AU state to an IS state.
- The specified DS1 is being edited from an OOS–MA or OOS–AUMA state to an OOS,<Null> state.
- The specified DS1 is being edited from an OOS–MA or OOS–AUMA state to an IS state and the DS1 is in a loopback (the DS1 has an SST of LPBK).
- The specified DS1 is being edited in an IS or OOS–AU state and the DS1 is connected (it has an SST of ACT or BUSY), unless CMDMDE=FRCD is used.
- The specified DS1 is an Idle Signal Source port that is being used by another DS1.
- The specified DS1 is embedded in a VT1.5 and the DS1 is being edited to become an Idle Signal Source port.
- The specified DS1 is being edited to be provisioned as a Test Access port and PST of IS is entered, or AID+1 is not provisioned, or AID+1 is a FAD of another TAPP, or either AID or AID+1 has C–bit loopback enabled, or AID or AID+1 are embedded DS1s but not within the same DS3.
- The specified DS1 is a Test Access port being edited to a non–TACC port (TACC=N is entered) and the specified TAPP is owned by another user and the user entering the command does not have a CCAL of 31 or 32.
- TACC=Y or LINECDE is specified on a DS1 embedded within a VT formatted electrical STS–1 (EC1) or VT formatted STS–1 embedded within an OC–3 or OC–12, or the DS1 is the 28th DS1 embedded within an electrical DS3.
- TACC=Y is specified and the specified AID or AID+1 has fault propagation active, or if a supporting facility containing the DS1 has fault propagation active.
- The specified DS1 is being edited to change the Idle Signal to be transmitted while a Test Access session is currently established on the DS1.
- The specified DS1 is being edited from an OOS–MA or OOS–AUMA state to an IS or OOS–AU, AINS state and the specified DS1 is part of a test access port pair (i.e. assigned as a FADA or FADB).
- The specified DS1 is not an electrical (stand–alone) DS1 and is being edited into OOS–AU, AINS state.
- The specified object is not a timing reference (TMG) and a value for TMGREF is specified.
- The command is issued identifying both the timing reference sources as either Primary or Secondary.
- The specified object is a timing reference source and it is being edited to a OOS–AU, AINS state.
- A timing source that is being used as reference (its secondary state is BUSY) is being edited to NONE, unless the CMDMDE=FRCD is used.
- The specified DS1 is embedded within a DS3 or VT1.5 and the supporting DS3 or STS–1 is intact cross–connected (i.e., the supporting entity has an SST of {ACT, BUSY}) and FEMETHOD of ATTPOLL is entered.
- The DS1 has been previously assigned to an F3 and an attempt is being made to alter the DS1's framing format (FMT).
- The specified DS1 is embedded within a VT1.5 and FEMETHOD of {ATTPOLL} or FENDNTE of {ATT} is entered.
- An attempt to alter the value of SRC is on a connected port.
- An attempt to make or undo a connected port a FAD port.
- A TAPP is being assigned and the total number of DS1 TAPPs is already 256.
- CMDMDE=NORM and AID is a PRI or SEC timing source with an SST of BUSY.
- An invalid parameter value or combination of parameter values is entered.

- A DS3 is embedded within ECI or OCN , and AINS is specified.
- The port identified by AID is involved in a redlined connection or conference, and any parameter other than AINSTH, PST or SST is entered. CMDMDE=FRCD will not override this denial.

I/O protection switching is disabled if all the DS1 ports supported by the DSI I/O circuit pack are in an OOS-MA or OOS-AUMA state. I/O protection switching only occurs if at least one of the supporting DS1s on the supporting I/O circuit pack is provisioned to an IS or an OOS-AU state.

INPUT FORMAT

```
ED-T1 : [TID] : AID : [CTAG] : : [AINSTH=] [ , AISC=] [ , AISF=] [ , CIECRA=] [ , CMDMDE=]
[ , FEMETHOD=] [ , FENDNTE=] [ , FMT=] [ , IDLE=] [ , LINECDE=] [ , SRC=]
[ , SXECRA=] [ , SYNCMSG=] [ , TACC=] [ , TAPPOOL=] [ , TMGREF=] : [PST] [ , SST] ;
```

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >
	Default: <SID>
	Addressing: None
	Description: Target Identifier, specifies the network node TID for the command.
AID	DS1_AID:
	{T1-{1-59392}} (T1-DS1#)
	{T3T1-{1-4800}-{1-28}} (T3T1-DS3#-DS1#)
	{EC1T1-{1-3840}-{1-28}} (EC1T1-EC1/STS1/DS3#-DS1#)
	{EC1T1-{1-3840}-{1-7}-{1-4}} (EC1T1-EC1/STS1#-VTGrp#-VT1/DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-28}} (OC3T1-OC3#-STS1/DS3#-DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-7}-{1-4}} (OC3T1-OC3#-STS1#-VTGrp#-VT1/DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}} (OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}} (OC12T1-OC12#-STM1#-STS1#-VTGrp#-VT1/DS1#)
	TMG_AID:
	{TMG-{0, 1}}
	Default: Entry Required
	Addressing: &&-ranging and &-grouping
	Description: DS1 AID, identifies the DS1 port and TMG AID identifies the external timing resource.
	Restrictions: ED-T1 is denied if SRC={EXTSRC, INTSRC} and &&-ranging or &-grouping is used.
	ED-T1 is denied if FEMETHOD is a value other than {NONE} and AID={TMG-0, TMG-1}.
	ED-T1 is denied if FEMETHOD is a value other than {ANSI, NONE} and AID identifies a VT1.5 embedded T1.
	ED-T1 is denied if FENDNTE is a value other than {ANSI, ANSIATT, NONE} and AID identifies a VT1.5 embedded T1.
	ED-T1 is denied if SRC is a value other than {NONE} and AID identifies a VT1.5 embedded T1.
	ED-T1 is denied if TAPPOOL={PRIVATE, PUBLIC} and the AID specifies TMG-0 or TMG-1.
	ED-T1 is denied if SST of AINS is entered and the specified AID is not for a terminated electrical DS1.
	ED-T1 is denied if a value is entered for CIECRA, SXECRA, IDLE, or LINECDE and the AID identifies a VT1.5 embedded T1.
	ED-T1 is denied if the specified DS1 is contained in an STS-1 embedded in an OC-3 or OC-12 ring and SRC=EXTSRC or INTSRC.

CTAG	< 1–6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
AINSTH=	{HH–MM:{00–48} – {00–59} } Default: Previously existing value. Addressing: None Description: Automatic In–Service Threshold, specifies how long a customer signal must be present on the facility without a LOS, LOF, or AIS–L alarm condition before the system puts the facility into the In–Service state. The factory default is 8 hours. The valid value is: HH–MM Time, specifies the duration of an alarm–free signal where value HH indicates the time duration in hours and value MM indicates the time duration in minutes. The valid range of values is 00–48 and 00–59 (in increments of 1 minute), respectively. Restrictions: If 48 is specified in HH, then MM has to be 00. ED–T1 is denied if a value is entered for AINSTH and the AID specifies TMG–0 or TMG–1. ED–T1 is denied if SST=AINS and the AID specifies TMG–0 or TMG–1.
AISC=	{LOF, LOFLOS, LOS} Default: <Previously Existing Value> Addressing: None Description: Alarm Indication Signal insertion Criteria, specifies the condition necessary for insertion of AIS into a failed DS1 signal path. Any value for AISC can be entered if SRC=INTSRC. Values are: LOF Automatic AIS insertion on detection of LOF. LOFLOS Automatic AIS insertion on detection of LOF or LOS. LOS Automatic AIS insertion on detection of LOS. LOS only applies to a terminated electrical DS1.
AISF=	{N, Y} Default: <Previously Existing Value> Addressing: None Description: Alarm Indication Signal Failure substitution, specifies whether a failed upstream signal (as defined by the AISC parameter) should have AIS inserted in the downstream path. Any value for AISF can be entered if SRC=INTSRC. Values are: N No, AIS is not inserted in the downstream path of a failed signal, the failed signal passes through the system. Y Yes, AIS is inserted in the downstream path of a failed signal. Restrictions: ED–T1 is denied if a value is entered for AISF and the AID specifies TMG–0 or TMG–1.

CIECRA=	{A, B, Y, Z}	
	Default:	< Previously existing value >
	Addressing:	None
	Description:	Customer Installation Equipment Circuit Record Address. Used to identify the customer installation equipment relative to an AT&T TR-54016 facility data link protocol. This is significant only if the far end performance monitoring data collection is being performed via the ATPOLL method. Values are:
	A or Z	Used when requesting information from terminating equipment such as DSU/PBX/MUXs and NCTEs.
	B or Y	Used when requesting information from CSUs.
	Restrictions:	ED-T1 is denied if a value is entered for CIECRA and the AID specifies TMG-0 or TMG-1. ED-T1 is denied if a value is entered for CIECRA and the AID specifies a VT1.5 embedded T1.
CMDMDE=	{FRCD, NORM}	
	Default:	{NORM}
	Addressing:	None
	Description:	Command Execution Mode. Values are:
	FRCD	Forced. The command is accepted and parameter values are modified even if the DS1 is cross-connected.
	NORM	Normal. The command is denied if the DS1 is in an IS or OOS-AU state and is cross-connected (DS1 has an SST of ACT or BUSY).
FEMETHOD=	{ANSI, ATPOLL, NONE}	
	Default:	<Previously Existing Value>
	Addressing:	None
	Description:	Far-End PM data collection Method. (Note that FEMETHOD and FENDNTE determine the type of far end PM that is collected/supported via an ESF FDL channel.) Values are:
	ANSI	Basic ANSI T1.403 PM data storage.
	ATPOLL	Poll for PM data using AT&T 54016 protocol to poll the data and convert into ANSI format storage registers for reporting.
	NONE	None. Far end PM is not collected on this DS1.
	Restrictions:	ED-T1 is denied if FEMETHOD=ANSI and either FENDNTE={NONE, ATT} or FMT={SF, UNFR} is entered. ED-T1 is denied if FEMETHOD=ATPOLL and either FENDNTE={ANSI, NONE} or FMT={SF, UNFR} is entered. ED-T1 is denied if FEMETHOD is a value other than {NONE} and AID={TMG-0, TMG-1}. ED-T1 is denied if FEMETHOD is a value other than {ANSI, NONE} and the AID identifies a VT1.5 embedded T1.

FENDNTE=	{ANSI, ANSIATT, ATT, NONE}
Default:	<Previously Existing Value>
Addressing:	None
Description:	Far-End NTE performance monitoring terminal type, specifies whether the far end network terminal supports standard ANSI performance monitoring (PM) collection and reporting or AT&T TR-54016 polled PM reporting for ESF DS1 signal formats. (Note that FENDNTE and FEMETHOD determine the type of far end PM that is collected/supported via an ESF FDL channel.) Any value for FENDNTE can be entered if SRC=INTSRC. Values are:
ANSI	ANSI, the far-end NTE supports the ANSI PM standard.
ANSIATT	ANSI and AT&T, the far-end NTE supports the ANSI PM standard and the AT&T TR-54016 polled PM reporting standard.
ATT	AT&T TR-54016, the far-end NTE supports the AT&T TR-54016 polled PM reporting standard. (Refer to RTRV-FEDATA-T1)
NONE	None, the far-end NTE does not support either the ANSI PM standard or the AT&T TR-54016 standard.
Restrictions:	ED-T1 is denied if FENDNTE=NONE and FEMETHOD={ANSI, ATT-POLL}. ED-T1 is denied if FENDNTE=ANSI and FEMETHOD={ATTPOLL}. ED-T1 is denied if FENDNTE=ATT and FEMETHOD={ANSI}. ED-T1 is denied if a value is entered for FENDNTE and the AID specifies TMG-0 or TMG-1. ED-T1 is denied if FENDNTE is a value other than {ANSI, ANSIATT, NONE} and the AID identifies a VT1.5 embedded T1.
FMT=	{ESF, SF, UNFR}
Default:	<Previously Existing Value>
Addressing:	None
Description:	DS1 Format, specifies the DS1 signal format for this port. The DS1 FMT parameter determines the type of signal format used for performance monitoring data collection and transmission condition detection, or the format of the Idle Signal Source port if SRC=INTSRC. This parameter is only considered when the AID specifies a Timing Reference port (i.e.; the AID is either a TMG-0 or TMG-1). Values are:
ESF	Extended SuperFrame
SF	SuperFrame
UNFR	Unframed
Restrictions:	ED-T1 is denied if FMT={SF, UNFR} and FEMETHOD={ANSI, ATT-POLL}. ED-T1 is denied if FMT=UNFR and IDLE=QRSF. The value of FMT for an Idle Signal Source port cannot be changed if the Idle Signal Source port is being used by another DS1 port as its Idle signal source. ED-T1 is denied if FMT=UNFR, TMGREF=PRI or SEC and T1 specified is TMG-0 or TMG-1. ED-T1 is denied if the specified object is not timing reference (TMG) and a value for TMGREF is specified. ED-T1 is denied if the value given for FMT results in the previously existing value being changed and the T1 has been previously assigned to a F3 (Fractional T3).

IDLE=	<p>{AIS, QRSF, QRSU}</p> <p>Default: <Previously Existing Value></p> <p>Addressing: None</p> <p>Description: Idle signal transmit type, specifies the type of Idle signal to be transmitted by this port when it is disconnected, or determines the type of Idle signal of the Idle Signal Source port if SRC={EXTSRC, INTSRC}. Values are:</p> <table> <tr> <td>AIS</td><td>AIS (Alarm Indication Signal)</td></tr> <tr> <td>QRSF</td><td>Framed QRS (Quasi-Random Signal)</td></tr> <tr> <td>QRSU</td><td>Unframed QRS (Quasi-Random Signal)</td></tr> </table> <p>Restrictions: ED-T1 is denied if IDLE=QRSF and FMT=UNFR. ED-T1 is denied if IDLE=AIS and SRC={EXTSRC, INTSRC} (An AIS Idle Signal Source is available with each DS1 port). Only one Idle Signal Source port of each type is allowed in the system. The Idle Signal Source port must be provisioned before it can be specified to provide an Idle signal. The value of IDLE for an Idle Signal Source port cannot be changed if the Idle Signal Source port is being used by another DS1 port as its Idle signal source. ED-T1 is denied if a value is entered for IDLE and the AID specifies TMG-0 or TMG-1. ED-T1 is denied if a value is entered for IDLE and the AID specifies a VT1.5 embedded T1. ED-T1 is denied if the IDLE parameter is QRSU or QRSF and the T1 specified in the AID is within an OC3/OC12 ring.</p>	AIS	AIS (Alarm Indication Signal)	QRSF	Framed QRS (Quasi-Random Signal)	QRSU	Unframed QRS (Quasi-Random Signal)
AIS	AIS (Alarm Indication Signal)						
QRSF	Framed QRS (Quasi-Random Signal)						
QRSU	Unframed QRS (Quasi-Random Signal)						
LINECDE=	<p>{AMI, B8ZS}</p> <p>Default: <Previously Existing Value></p> <p>Addressing: None</p> <p>Description: DS1 Line Code, specifies the type of DS1 line code for an electrical DS1 or an external timing reference source. Values are:</p> <table> <tr> <td>AMI</td><td>Alternate Mark Inversion</td></tr> <tr> <td>B8ZS</td><td>Bipolar with Eight Zero Substitution</td></tr> </table> <p>Restrictions: ED-T1 is denied if a LINECDE value is entered and the specified DS1 is not an electrical (stand-alone) DS1 or an external timing reference source. ED-T1 is denied if a value is entered for LINECDE and the AID specifies a VT1.5 embedded T1.</p>	AMI	Alternate Mark Inversion	B8ZS	Bipolar with Eight Zero Substitution		
AMI	Alternate Mark Inversion						
B8ZS	Bipolar with Eight Zero Substitution						

SRC=	{EXTSRC, INTSRC, NONE}	
	Default:	<Previously Existing Value>
	Addressing:	None
	Description:	Idle Signal Source port, indicates whether this DS1 port is to be used as a QRSF or QRSU Idle signal source. Values are:
	EXTSRC	External Idle signal Source, indicates external equipment is connected to the Signal Source port for generating an Idle signal.
	INTSRC	Internal Idle signal source, indicates the Signal Source port is to use internal generators to provide a QRS signal (as provisioned by the IDLE parameter value).
	NONE	None, indicates the specified DS1 port is not an Idle Signal Source port.
	Restrictions:	ED-T1 is denied if SRC={EXTSRC, INTSRC} and TACC=Y. ED-T1 is denied if SRC={EXTSRC, INTSRC} and IDLE=AIS. (An AIS Idle Signal Source is available with each DS1 port). Only one Idle Signal Source port of each type is allowed in the system. The values of FMT or IDLE for an Idle Signal Source port cannot be changed if the Idle Signal Source port is being used by another DS1 port as its Idle signal source. ED-T1 is denied if a value is entered for SRC and the AID specifies TMG-0 or TMG-1. ED-T1 is denied if SRC is a value other than {NONE} and the AID identifies a VT1.5 embedded T1.
SXCRA=	{C-X}	
	Default:	<Previously Existing Value>
	Addressing:	None
	Description:	1631SX Equipment Circuit Record Address. Used to identify the T1 port relative to an AT&T TR-54016 facility data link protocol. This is significant mainly when the far end performance monitoring data collection is being performed via the ATTPOLL method. Values are:
	C to X	Local T1 port address.
	Restrictions:	ED-T1 is denied if a value is entered for SXCRA and the AID specifies TMG-0 or TMG-1. ED-T1 is denied if a value is entered for SXCRA and the AID specifies a VT1.5 embedded T1.
SYNMSG=	{N, Y}	
	Default:	<Previously Existing Value>
	Addressing:	None
	Description:	Synchronization Message, indicates if the addressed timing reference clock supports synch status messages. Values are:
	N	No, the addressed reference clock does not support synch status messages.
	Y	Yes, the addressed reference clock supports synch status messages.
	Restrictions:	ED-T1 is denied if a value for SYNMSG is entered and the AID does not specify TMG-0 or TMG-1. ED-T1 is denied if SYNMSG=Y for a TMG and the value of FMT is not ESF.

TACC=	{N, Y}	
	Default:	<Previously Existing Value>
	Addressing:	None
	Description:	Test Access port, indicates that this DS1 port (specified by AID) and the AID+1 DS1 port are to be used as a Test Access Port Pairs (TAPP). The port specified by AID becomes FAD A and the port specified by AID+1 becomes FAD B. Values are:
	N	No, the specified DS1 port is not a Test Access port
	Y	Yes, DS1 ports specified by AID and AID+1 are Test Access ports.
	Restrictions:	ED-T1 is denied if TACC=Y and SRC={EXTSRC, INTSRC}. ED-T1 is denied if TACC=Y and PST of IS is entered. ED-T1 is denied if TACC=N and TAPPOOL={PRIVATE, PUBLIC}. ED-T1 is denied if TACC=Y and AID+1 is not provisioned. ED-T1 is denied if TACC=Y and AID+1 is a FAD of another TAPP. ED-T1 is denied if TACC=Y and either AID or AID+1 have C-bit loop-back enabled. ED-T1 is denied if TACC=Y and the port specified by AID is an embedded DS1 port and AID+1 is not embedded within the same DS3. ED-T1 is denied if TACC=N and TAPPOOL={PRIVATE, PUBLIC}. ED-T1 is denied if a value is entered for TACC and the AID specifies TMG-0 or TMG-1.
TAPPOOL=	{PRIVATE, PUBLIC, <NoVal>}	
	Default:	<NoVal> if TACC=N. {PRIVATE} if TACC=Y.
	Addressing:	None
	Description:	TAP Pool, defines whether the TAP that has been created (by means of TACC=Y) belongs to the pool that is private to the creator of the pool or belongs to a public pool. Values are:
	PRIVATE	Private The TAP pair that has been created is private to the user who created the TAP pair. If any other user tries to use this TAP pair (by means of CONN-TACC-T1), the command will be denied.
	PUBLIC	The TAP pair belongs to the Public pool of the system. It can be accessed by any user that has access to the test access commands.
	<NoVal>	No Value (Unpopulated), TAPPOOL does not apply if TACC=N.
	Restrictions:	ED-T1 is denied if a value for TAPPOOL is entered and TACC=Y is not explicitly entered. ED-T1 is denied if a value for TAPPOOL is entered and the AID specifies TMG-0 or TMG-1.
TMGREF=	{PRI, SEC}	
	Default:	<Previously Existing Value>
	Addressing:	None
	Description:	Timing Reference, identifies whether the external reference source is primary or secondary. This parameter is only considered when the AID specifies a Timing Reference port (i.e, the AID is either a TMG-0 or TMG-1). Values are:
	PRI	Primary. The addressed external reference source is to be used as a primary source.
	SEC	Secondary. The addressed external reference source is to be used as a secondary source.
	Restrictions:	ED-T1 is denied if the AID is not a timing reference (TMG) and a value for TMGREF is specified.

PST	{IS, OOS}	
	Default:	< NO PST STATE CHANGE >
	Addressing:	None
	Description:	Primary State, specifies the primary state to provision the DS1. Values are:
	IS	In-Service
	OOS	Out-Of-Service
	Restrictions:	ED-T1 is denied if PST of IS and TACC=Y is entered. ED-T1 is denied if PST of OOS is entered when the addressed DS1 is the external timing reference.

SST	{AINS, AINS-DEA}
Default:	<Null> (Unpopulated)
Addressing:	None
Description:	Secondary State, specifies the secondary state to provision the DS1. Values are:
AINS	Automatic In-Service, if PST,SST of IS,AINS is entered the DS1 is provisioned to an OOS-AU,AINS state.
AINS-DEA	Automatic In-Service-Deactivate, the DS1 is not provisioned to an OOS-AU,AINS state. The DS1's SST value is entered as <Null> (unpopulated) and the SST state is determined by its provisioned PST value and system detected events.
Restrictions:	ED-T1 is denied if SST of AINS and PST of OOS is entered. ED-T1 is denied if SST of AINS-DEA is entered and the current DS1 state is not OOS-AU,AINS (an SST state of AINS). ED-T1 is denied if the specified AID is not an electrical (stand-alone) DS1. ED-T1 is denied if a value is entered for SST and the AID specifies TMG-0 or TMG-1.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  /* <Free Form Informational Text> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

EFON	Equipage, Feature Option Not provided
ENFE	Equipage, FEature Not provided
ENPM	Equipage, Not equipped for Performance Monitoring
ICNV	Input, Command Not Valid

/* Signal source port is in use by port <AID-STRING>. */

IDNC	Input, Data Not Consistent /* Invalid combination of TACC and TAPPOOL */ /* CIECRA, SXCRA, and IDLE invalid for T1 within VT1 */ /* Invalid combination for FMT and IDLE */ /* FEMETHOD or FENDNTE value invalid for T1 within VT1 */ /* Invalid combination for FMT and FEMETHOD */ /* Invalid combination of SRC and IDLE */ /* Invalid combination of SRC and TACC */ /*SYNMSG parameter only for TMG port*/ /*TMGREF parameter only for TMG port*/ /* Invalid combination of FENDNTE and FEMETHOD */ /* Invalid combination of TACC and FAD B SRC */ /* Invalid parameter change of a Red Lined connection */
IDNV	Input, Data Not Valid /* FMT of a DS1 assigned to a Fractional T3 cannot be edited */ /* FEMETHOD=ATTPOLL invalid inside an intact cross connection */ /* DRVDT1 and REFOC not in same IO shelf */
IIAC	Input, Invalid ACcess identifier
IPEX	Input, Parameter EXtra
IPMS	Input, Parameter MiSSing
IPNV	Input, Parameter Not Valid
PICC	Privilege, Invalid Command Code /* You are not the owner of the TAPP */
SAIS	Status, Already In Service
SAOS	Status, Already Out of Service
SARB	Status, All Resources Busy /* The command was rejected. */
SCAT	Status, Circuit Already connected to another Tap
SDBE	Status, internal Data Base Error /* TP Database Error: <ERROR-STRING> for <AID-STRING> */ /* TAPP Database Error: <ERROR-STRING> for record number <RECORD-NUMBER> */ /* QRS Database Error: <ERROR-STRING> */ /* T1 Shelf info error, Error=<ERROR-STRING> */ /* T1 FAD B shelf info error, Error=<ERROR-STRING> */ /* CONN Database Error: <ERROR-STRING> for <AID-STRING> */ /* Error getting bay/shelf, Error=<ERROR-STRING> */ /* DRVDT1/CDB card status error, Error=<ERROR-STRING> */ /* TPidToTbss (<TP-TYPE>, <RECORD-NUMBER>) Error: <ERROR-STRING> */
SDNC	Status, Data Not Consistent
SNVS	Status, Not in Valid State /* To edit a connected in-service port, set CMDMDE = FRCD */ /* Fad B port is not in proper state for editing */ /* Cannot change IDLE signal when in Test Access */ /* CDB is out of service */ /* TMG port is BUSY, set CMDMDE=FRCD */
SROF	Status, Requested Operation Failed /* Error accessing MCB database. */ /* Error accessing auxiliary EM data area for Master MCB. */

```
SRQN      Status, invalid ReQuest
          /* Ranging invalid when provisioning a signal source */
          /* Cannot create SRC port within a ring protection group*/
          /* Cannot create SRC port if supporting entity is connected */
          /* Cannot create SRC port if supporting entity under MATRIX loopback */
          /* No signal source is provisioned for IDLE type. */
          /* Cannot edit a port to be FAD if fault propagation is active */
          /* Cannot create FAD if supporting entity has fault propagation active */
          /* Cannot create FAD if supporting entity is connected */
          /* T1 IDLE must be AIS within a ring protection group */
SSRE      Status, System Resources Exceeded
          /* No more TAPPs may be provisioned */
```

EXAMPLES

In the following example, DS1 port T3T1-1-25 provisioning is changed to ESF format, AIS insertion on LOF detection, to the IS state. All other parameter values are unchanged.

```
ED-T1::T3T1-1-25:::FMT=ESF,AISC=LOF:IS;
```

In the following example, DS1 ports T3T1-6-4 and T3T1-6-5 are changed to be test access ports (TAPPs). The example assumes both AID and AID+1 are provisioned, embedded within the same DS3, and not in use for other purposes. Since TAPPs are always assigned as sequential port pairs, the command effect is to provision both ports T3T1-6-4 and T3T1-6-5 as a TAPP with the specified provisioning applied to both ports. The TAPPs are provisioned for ESF format, to transmit QRSU Idle signal when not involved in a test access operation, and no AIS insertion on detection of a failed input signal. The TAPPs are assigned to the public pool so that anyone who has access to test access commands can use this TAPP.

```
ED-T1::T3T1-6-4:::FMT=ESF, IDLE=QRSU, AISF=N, SRC=NONE, TACC=Y,
TAPPOOL=PUBLIC:OOS-MA;
```

In the following example, DS1 port T3T1-2-1 is assumed to be an Idle Signal Source port (SRC=EXTSRC and IDLE=QRSU) that is providing an Idle signal for other disconnected DS1 ports. The following ED-T1 command is executed to change port T3T1-2-1 to not be an Idle Signal Source port.

```
ED-T1::T3T1-2-1:::SRC=NONE:IS;
```

For this example, the command is denied because port 2-2-1 is currently providing an Idle signal for other disconnected DS1 ports. The output response shown assumes CID 4 was used to enter the command and a system generated CTAG value of Pfc518. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pfc518 DENY
SRQN
/* Status, invalid Request */
/* ED-T1::T3T1-2-1:::SRC=NONE:IS [Pfc518] (4) */
;
```

RELATED COMMANDS

DLT-T1

ED-CONF-T1

ED-F3

ED-FCPORT-T1

ENT-F3

ENT-T1

RMV-T1

RST-T1

RTRV-CRS

RTRV-CRS-T1

RTRV-RDL-ALL

RTRV-SYSTMSG-T1

RTRV-T1

COMMAND CODE: **ED-T3**
COMMAND NAME: **EDIT T3**

PURPOSE

The ED-T3 command modifies the specified DS3 port parameter values previously provisioned using ENT-T3.

Up to 256 DS3 port pairs in the system may be provisioned as a test access port at a time, but only to an OOS-MA or OOS-AUMA state. When this is done, the two ports identified by AID and AID+1 are both provisioned as a Test Access Port Pair (TAPP). A TAPP is always assigned as a sequential pair of ports (i.e., if port T3-3 is referenced in the command, then ports T3-3 and T3-4 are the TAPP). When using ED-T3 to provision a TAPP, AID+1 must be provisioned, AID+1 must not be a FAD of another TAPP. When using ED-T3 to change the provisioning of a TAPP, either of the AIDs for FAD A or FAD B can be specified as the AID in the command and the provisioning changes are applied to both the FAD A and FAD B ports. If TAPPOOL is not specified or specified as PRIVATE, the TAPP will be associated with, or owned by, the user that provisioned the TAPP. No other user is allowed to use the TAPP for test access operations or change the TAPPs provisioning. If TAPPOOL is specified as PUBLIC, then that TAPP can be used by any user that has access to test access commands. TAPPs may not be the target AID for a cross-connect. Unconnected TAPPs generate a DS3 IDLE signal.

Executing an ED-T3 command causes the following primary state transitions for the specified DS3. Secondary states associated with the DS3 after the command is executed depend upon events detected by the system. Refer to Appendix G, State Transitions for additional information on state values and state transitions.

Entered PST,SST Value	Next PST State if Current PST State is:				
	IS	OOS-AU	OOS-AU,AINS	OOS-AUMA	OOS-MA
IS,<NoVal>	Denied	Denied	Denied	OOS-AU	IS
OOS,<NoVal>	OOS-MA	OOS-AUMA	Denied	Denied	Denied
IS,AINS	OOS-AU,AINS	OOS-AU,AINS	Denied	OOS-AU,AINS	OOS-AU,AINS
IS,AINS-DEA	Denied	Denied	OOS-AU	Denied	Denied
OOS,AINS-DEA	Denied	Denied	OOS-AUMA	Denied	Denied

Note: 1. <NoVal> means no value is entered for the SST parameter.
2. No state change occurs if no value is entered for PST and SST.
3. ED-T3 is denied if SST of AINS-DEA is entered and the current DS3 state is not OOS-AU,AINS (an SST state of AINS).

When a DS3 is edited to an OOS-MA or OOS-AUMA state, a MAN condition type is set for the specified DS3, unless the specified DS3 is provisioned as a Test Access Port (a MAN condition is not set on TAPPs). The MAN condition type is cleared when the DS3 is provisioned to an OOS-AU or IS state.

When a DS3 is in an OOS-MA, OOS-AUMA, or OOS-AU,AINS state, no DS3 transmission condition types or performance monitoring threshold crossing alerts are autonomously reported for the DS3, but DS3 alarm conditions are monitored (retrievable with the RTRV-T3 command) and performance monitoring data is collected (if provisioned for PM collection by the SET-PMODE-T3 command) for the DS3. A DS3 in an OOS-AU,AINS state transitions to an IS state when all DS3 near-end alarm conditions for that DS3 have cleared.

An ED-T3 command is denied if:

- The specified DS3 has not previously been provisioned with the ENT-T3 command.
- The FMT is being changed from ASYNC to CBIT on a DS3 that resides on a module that is in an half shelf that is defined as EP3S48 or EP3S36.
- The specified DS3 is being edited from an OOS-AU state to an IS state.
- The specified DS3 is being edited from an OOS-MA or OOS-AUMA state to an OOS,<Null> state.
- The specified DS3 is being edited from an OOS-MA or OOS-AUMA state to an IS or OOS-AU,AINS state and the specified DS3 is in a loopback (the DS3 has an SST of LPBK).

- The specified DS3 is being edited in an IS or OOS–AU state and any of the DS3's embedded DS1s are cross–connected (the DS3 has an SST of TRM) or the DS3 is cross connected (the DS3 has an SST of ACT or BUSY), unless CMDMDE=FRCD is used.
- The specified DS3 is being edited to be provisioned as a Test Access port and PST of IS is entered, or AID+1 is not provisioned, or AID+1 is a FAD of another TAPP.
- The specified DS3 is being edited from an OOS–MA or OOS–AUMA state to an IS or OOS–AU, AINS state and the specified DS3 is part of a test access port pair (i.e., assigned as a FADA or FADB).
- The specified DS3 is not an electrical (stand–alone) DS3 and is being edited into OOS–AU, AINS state.
- AISPASS=N is specified on an embedded DS3.
- TACC=Y or LINECDE is specified on a DS3 embedded within an electrical STS–1 (EC1), OC–3, or OC–12.
- TACC=Y is specified on a DS3 embedded within an electrical STS–1 (EC1), OC–3, or OC–12.
- TACC=Y is specified and any of the DS1s embedded within the DS3 are already assigned.
- TACC=Y is specified on a connected port.
- TACC=Y is specified and AID or AID+1 has fault propagation active.
- TACC=N is specified on a DS3 TAP that belongs to a PRIVATE pool and the Command Code Authorization Level (CCAL) of the user issuing the ED–T3 command is ≤ 30 .
- TACC=N is specified on a DS3 TAP that is in BUSY secondary state.
- A TAPP is being assigned and the total number of DS1 and DS3 TAPP defined is already 256.
- An ED–T3 command is issued with FMT of FRCC, UNFR, or UNCBIT on a DS3 that has DS1s assigned.
- An invalid parameter value or combination of parameter values is entered.
- The port identified by AID is involved in a redlined connection, and any parameter other than PST is entered. CMDMDE=FRCD will not override this denial.

I/O protection switching is disabled if all three DS3 ports supported by the EP3 I/O circuit pack are provisioned to an OOS–MA or OOS–AUMA state. I/O protection switching only occurs if at least one of the supporting DS3s on the supporting EP3 I/O circuit pack is provisioned to an IS or an OOS–AU state.

INPUT FORMAT

```
ED-T3 : [TID] : AID : [CTAG] : : [AINSTH=] [, AISC=] [, AISPASS=] [, AIST=] [, CMDMDE=]
        [, DS3PTYEL=] [, FEAC=] [, FMT=] [, LINECDE=] [, PMMETHOD=] [, TACC=] [, TAP-
        POOL=] [, XBITRCV=] [, XPOL=] : [PST] , [SST] ;
```

INPUT PARAMETERS

TID	< 1–20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	DS3_AID: <div style="display: flex; justify-content: space-between;"> {T3–{1–4800}} (T3–DS3#) </div> <div style="display: flex; justify-content: space-between;"> {EC1T3–{1–3840}} (EC1T3–EC1/STS1/DS3#) </div> <div style="display: flex; justify-content: space-between;"> {OC3T3–{1–2240}–{1–3}} (OC3T3–OC3#–STS1/DS3#) </div> <div style="display: flex; justify-content: space-between;"> {OC12T3–{1–560}–{1–4}–{1–3}} (OC12T3–OC12#–STM1#–STS1/DS3#) </div> Default: Entry Required Addressing: &&–ranging and &–grouping Description: DS3 AID, identifies the DS3 port. Restrictions: ED–T3 is denied if the specified AID identifies a DS3 embedded within an STS–1 and AISPASS of N is entered.
CTAG	< 1–6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

AINSTH=	{HH-MM:{00-48} – {00-59} }	
	Default:	Previously existing value.
	Addressing:	None
	Description:	Automatic In-Service Threshold, specifies how long a customer signal must be present on the facility without a 7LOF, ISD, AICMISM, LOS, LOF, or AIS-L alarm condition before the system puts the facility into the In-Service state. The factory default is 8 hours. The valid value is:
	HH-MM	Time, specifies the duration of an alarm-free signal where value HH indicates the time duration in hours and value MM indicates the time duration in minutes. The valid range of values is 00-48 and 00-59 (in increments of 1 minute), respectively.
AISC=	{LOFLOS, LOS}	
	Default:	<Previously Existing Value>
	Addressing:	None
	Description:	Alarm Indication Signal insertion Criteria, specifies the condition at the input of a DS3 intact cross connect necessary for AIS insertion into the output of the DS3 intact cross connect. Values are:
	LOFLOS	Loss of Frame-Loss of Signal. Automatic AIS insertion upon detection of LOFLOS.
AISPASS=	{N, Y}	
	Default:	<Previously Existing Value>
	Addressing:	None
	Description:	Alarm Indication Signal Passed, specifies whether the AIS generated by the input port which is connected to the output port is passed through the output port, or whether AIS is generated by the output port itself. Values are:
	N	No, AIS is regenerated by the output port instead of being passed through the output port.
AIST=	{NAS, OAIS, ONES}	
	Default:	<Previously Existing Value>
	Addressing:	None
	Description:	Alarm Indication Signal Type, specifies the expected input AIS signal and generated output AIS signal for the DS3 port should a failure condition exist. Values are:
	NAS	North American Standard
	OAIS	Old AIS, the same sequence of information bits as North American Standard but with no regard to how the C-bits are set.
	ONES	Unframed All Ones (Nonstandard)

CMDMDE=	{FRCD, NORM}	
	Default:	{NORM}
	Addressing:	None
	Description:	Command Execution Mode. Values are:
	FRCD	Forced. The command is accepted and parameter values are modified even if a constituent DS1 is cross-connected (the DS3 has an SST of TRM).
	NORM	Normal. The command is denied if the DS3 is in an IS or OOS-AU state and any constituent DS1s are cross-connected (the DS3 has an SST of TRM).
DS3PTYEL=	{N, Y}	
	Default:	<Previously Existing Value>
	Addressing:	None
	Description:	DS3 Yellow behavior, identifies whether DS3 path yellow or RDI (remote defect indication) will be sent and detected. Values are:
	N	RDI will be sent/detected by the DS3.
	Y	DS3 path yellow will be sent/detected by the DS3.
FEAC=	{N, Y}	
	Default:	<Previously Existing Value>
	Addressing:	None
	Description:	Far End Alarm and Control, specifies the far end alarm and control enable setting for C-bit parity format. Values are:
	N	FEAC inhibited
	Y	FEAC enabled
	Restrictions:	ED-T3 is denied if FEAC=Y and FMT=ASYNCR.
FMT=	{ASYNCR, CBIT, FRCC, UNCBIT, UNFR}	
	Default:	<Previously Existing Value>
	Addressing:	None
	Description:	DS3 Format, specifies the DS3 signal format for this port. Values are:
	ASYNCR	Asynchronous (M23 format)
	CBIT	C-Bit parity format
	FRCC	Framed Clear Channel.
	UNCBIT	Unchannelized C-Bit parity
	UNFR	Unframed format
	Restrictions:	ED-T3 is denied if FMT=ASYNCR and FEAC=Y. ED-T3 is denied if FMT=ASYNCR and PMMETHOD=CP or NONE. ED-T3 is denied if FMT=FRCC, UNFR, or UNCBIT and the DS3 has embedded DS1s assigned. ED-T3 is denied if FMT=UNFR and PMMETHOD is any value other than NONE.
LINECDE=	{B3ZS}	
	Default:	{B3ZS}
	Addressing:	None
	Description:	DS3 Line Code, indicates the DS3 line coding type. Only B3ZS code is supported.
	B3ZS	Bipolar with Three Zero Substitution
	Restrictions:	ED-T3 is denied if the LINECDE parameter is entered and the specified AID identifies a DS3 embedded within a SONET signal.

PMMETHOD=	{CP, FM, FMA, NONE, P}
Default:	<Previously Existing Value>
Addressing:	None
Description:	Performance Monitoring Method, specifies the type of performance monitoring to be performed on the DS3. Values are:
	If FMT=ASYN (M13 format):
	FM F&M bit monitoring
	FMA F&M bit adjusted monitoring
	P P-bit monitoring
	If FMT=CBIT (C-Bit parity format):
	CP Only CP-bit monitoring
	FM F&M bit and CP-bit monitoring
	FMA F&M bit adjusted and CP-bit monitoring
	P P-bit and CP-bit monitoring
	If FMT=FRCC (Framed Clear Channel):
	FM F&M bit monitoring
	FMA F&M bit adjusted monitoring
	P P-bit monitoring
	If FMT=UNCBIT (Unchannelized C-Bit parity format)
	CP Only CP-bit monitoring
	FM F&M bit and CP-bit monitoring
	FMA F&M bit adjusted and CP-bit monitoring
	P P-bit and CP-bit monitoring
	If FMT=UNFR (Unframed):
	NONE Null value specified for PMMETHOD
Restrictions:	ED-T3 is denied if PMMETHOD=CP and FMT=ASYN, FRCC or UNFR. ED-T3 is denied if PMMETHOD=NONE and FMT=ASYN, CBIT, FRCC, or UNCBIT.
TACC=	{N, Y}
Default:	<Previously Existing Value>
Addressing:	None
Description:	Test Access port, indicates that this DS3 port (specified by AID) and the AID+1 DS3 port are to be used as a Test Access Port Pairs (TAPP). The port specified by AID becomes FAD A and the port specified by AID+1 becomes FAD B. Values are:
	N No, the specified DS3 port is not a Test Access port
	Y Yes, DS3 ports specified by AID and AID+1 are Test Access ports.
Restrictions:	ED-T3 is denied if TACC=Y and PST of IS is entered. ED-T3 is denied if TACC=Y and AID+1 is not provisioned. ED-T3 is denied if TACC=Y and AID+1 is a FAD of another TAPP. ED-T3 is denied if TACC=Y and the port specified by AID is a DS3 embedded within an EC1, OC-3, or OC-12. ED-T3 is denied if TACC=Y and any of the DS1s embedded within the DS3 are already assigned. ED-T3 is denied if TACC=N and TAPPOOL={PRIVATE, PUBLIC}.

TAPPOOL=	{PRIVATE, PUBLIC, <NoVal>}	
	Default:	<Previously Existing Value>
	Addressing:	None
	Description:	TAP Pool, defines whether the TAP that has been created (by means of TACC=Y) belongs to the pool that is private to the creator of the pool or belongs to a public pool.
	PRIVATE	Private, the TAP pair that has been created is private to the user who created the TAP pair. If any other user tries to use this TAP pair (by means of CONN-TACC-T3), the command will be denied.
XBITRCV=	PUBLIC	Public, the TAP pair belongs to the Public pool of the system. It can be accessed by any user that has access to the test access commands.
	<NoVal>	No Value (Unpopulated), TAPPOOL does not apply if TACC=N.
	Restrictions:	ED-T3 is denied if a value for TAPPPOOL is entered and TACC=Y is not explicitly entered.
	{ALM0, ALM1, IGNORE}	
	Default:	<Previously Existing Value>
XPOL=	Addressing:	None
	Description:	Receive X-Bit Translation, specifies how incoming DS3 and DS2 X-bits are translated. Values are:
	ALM0	Incoming X-bit of 0 indicates a remote alarm
	ALM1	Incoming X-bit of 1 indicates a remote alarm
	IGNORE	Ignore incoming X-bits
PST	{0, 1, ALM0, ALM1}	
	Default:	<Previously Existing Value>
	Addressing:	None
	Description:	Transmit X-bit Polarity, indicates the value to which outgoing DS3 and DS2 X-bits are set. Values are:
	0	Force outgoing X-bits to 0
	1	Force outgoing X-bits to 1
	ALM0	Set X-bits to 0 for indicating alarm
	ALM1	Set X-bits to 1 for indicating alarm
	{IS, OOS}	
	Default:	<PST VALUE DETERMINED BY THE CURRENT DS3 STATE> (A PST value of IS if the current state is IS or OOS-AU) (A PST value of OOS if the current state is OOS-AUMA or OOS-MA)
	Addressing:	None
	Description:	Primary State, specifies the primary state to provision the DS3. Values are:
	IS	In-Service, the DS3 is provisioned to an IS or OOS-AU state.
	OOS	Out-Of-Service, the DS3 is provisioned to an OOS-AUMA or OOS-MA state.
	Restrictions:	ED-T3 is denied if PST of OOS and SST of AINS is entered.

SST	{AINS, AINS-DEA}
Default:	<Null> (Unpopulated)
Addressing:	None
Description:	Secondary State, specifies the secondary state to provision the DS3. Values are:
AINS	Automatic In-Service, if PST,SST of IS,AINS is entered the DS3 is provisioned to an OOS-AU,AINS state.
AINS-DEA	Automatic In-Service-Deactivate, the DS3 is not provisioned to an OOS-AU,AINS state. The DS3's SST value is entered as <Null> (unpopulated) and the SST state is determined by its provisioned PST value and system detected events.
Restrictions:	ED-T3 is denied if SST of AINS and PST of OOS is entered. ED-T3 is denied if SST of AINS-DEA is entered and the current DS3 state is not OOS-AU,AINS (an SST state of AINS). ED-T3 is denied if the specified DS3 is not an electrical (stand-alone) DS3 and is being provisioned into OOS-AU,AINS state.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  /* <Free Form Informational Text> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

ICNV	Input, Command Not Valid
IDNC	Input, Data Not Consistent
	/* Invalid combination of TACC and TAPPOOL */
	/* Invalid combination of FMT and PMMETHOD */
	/* FMT=UNCBIT, UNFR, or FRCC invalid with embedded T1s provisioned */
	/* Invalid combination of FMT and FEAC */
	/* AISC and AISPASS invalid on HMU module*/
	/* AISPASS=N invalid for an embedded T3 */
	/* AINSTH invalid for an embedded T3 */
	/* Invalid parameter change of a Red Lined connection */
IDNV	Input, Data Not Valid
	/* FMT=UNCBIT, UNFR, or FRCC invalid on DS3 Quad */
IIAC	Input, Invalid ACcess identifier
IPEX	Input, Parameter EXtra
PICC	Privilege, Invalid Command Code
	/* You are not the owner of the TAPP */
	/* You do not have the privilege to make this change in TAPP */

SAIS	Status, Already In Service
SAOS	Status, Already Out of Service
SCAT	Status, Circuit Already connected to another Tap
SDBE	Status, internal Data Base Error
	/* TP Database Error: <ERROR-STRING> for <AID-STRING> */
	/* TAPP Database Error: <ERROR-STRING> for record number <RECORD-NUMBER> */
	/* T3 Shelf info error, Error=<ERROR-STRING> */
	/* Error updating supported T1s */
	/* Error updating supported F3s */
	/* Error enabling supported T1s, Error=<ERROR-STRING> */
	/* Error enabling supported F3s, Error=<ERROR-STRING> */
	/* Error disabling supported T1s, Error=<ERROR-STRING> */
	/* Error disabling supported F3s, Error=<ERROR-STRING> */
SDNC	Status, Data Not Consistent
	/* SST=AINS invalid for embedded T3*/
SNVS	Status, Not in Valid State
	/* To edit a non-idle in-service port, set CMDMDE=FRCD */
SROF	Status, Requested Operation Failed
SRQN	Status, invalid ReQuest
	/* Cannot edit a port to be FAD if fault propagation is active */
SSRE	Status, System Resources Exceeded
	/* No more TAPPs can be assigned */

EXAMPLES

In the following example, DS3 port T3-24 provisioning is changed to C-bit format with FEAC enabled and CP-bit performance monitoring to the OOS-AU,AINS state. All other parameter values are unchanged.

```
ED-T3::T3-24:::PMMETHOD=CP,FEAC=Y,FMT=CBIT:IS,AINS;
```

In the following example, DS3 ports T3-6 and T3-7 are changed to be test access ports (TAPPs). The example assumes both AID and AID+1 are provisioned, are electrical DS3, and not in use for other purposes. Since TAPPs are always assigned as sequential port pairs, the command effect is to provision both ports T3-6 and T3-7 as a TAPP with the specified provisioning applied to both ports. The TAPPs are assigned to the public pool so that anyone who has access to test access commands can use this TAPP.

```
ED-T3::T3-6:::FMT=ASYNC,TACC=Y,TAPPOOL=PUBLIC:OOS;
```

In the following example, DS3 port T3-24 and T3-26 have previously been provisioned, but T3-25 has not been provisioned, with the ENT-T3 command. An ED-T3 command is entered to change the provisioning of DS3 ports T3-24 through T3-26, using &&-ranging, to Async M13 format, FEAC specifically disabled, and P-bit and CP-bit performance monitoring to the OOS-MA state. All other parameter values are unchanged.

```
ED-T3::T3-24&&-26:::FMT=ASYNC,PMMETHOD=P,FEAC=N:OOS;
```

For this example, the output response shown assumes CID 1 was used to enter the command and a system generated CTAG value of Pfc518. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pfc518 PRTL
"T3-25:ERRCDE=SNVS"
/* Status, Not in Valid State */
/* ED-T3::T3-24&&-26:::FMT=ASYNC,PMMETHOD=P,FEAC=N:OOS [Pfc518] (1) */
;
```

In the following example, DS3 port T3-27 is provisioned for Async M13 format, but PMMETHOD is incorrectly specified with a value of CP. All other parameter values are unchanged.

```
ED-T3::T3-27::::PMMETHOD=CP,FMT=ASYNC;
```

For this example, the output response shown assumes CID 3, Virtual Channel 2, was used to enter the command and a system generated CTAG value of Pfc519. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M Pfc519 DENY  
IDNC  
/*Invalid combination of FMT and PMMETHOD */  
/*Input, Data Not Consistent */  
/*ENT-T3::T3-27::::PMMETHOD=CP,FMT=ASYNC [Pfc519] (3-2) */  
;
```

RELATED COMMANDS

```
DLT-T3  
ENT-T3  
RMV-T3  
RST-T3  
RTRV-CR  
RTRV-CRS-T3  
RTRV-RDL-ALL  
RTRV-T3
```


COMMAND CODE: ED-TARPADJ-DCC
COMMAND NAME: EDIT TARP ADJACENCY TABLE ENTRY OF DCC

PURPOSE

The ED-TARPADJ-DCC command allows modifying the manually provisioned TID Address Resolution Protocol (TARP) adjacency table entries on the Data Communication Channel (DCC).

The TARP Protocol Data Units (PDUs) are carried by Layer 3 (network layer) of the SONET DCC network.

An ED-TARPADJ-DCC command is denied if:

- DCCTYPE=BOTH and NSAP is specified.
- A value entered for the NSAP is not in the adjacency table of the specified OC-3/OC-12.
- The specified NSAP is less than 40 ASCII characters.
- The NSAP is not specified while the ISLEVEL is specified.
- An invalid parameter value is entered.

INPUT FORMAT

ED-TARPADJ-DCC: [TID] :AID: [CTAG] : : : [DCCTYPE=] [, ENABLE=] [, ISLEVEL=] [, NSAP=] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	OC3_AID: {OC3-{1-2240}} (OC3-OC3#) OC12_AID: {OC12-{1-560}} (OC12-OC12#) Default: Entry Required Addressing: None Description: Optical Carrier AID, identifies the OC-3/OC-12 whose DCC adjacency table entries are being modified.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
DCCTYPE=	{BOTH, LDCC, SDCC} Default: <Previously existing value> or {SDCC} {Factory default} Addressing: None Description: DCC Type, specifies which DCC type is modified in the adjacency table. Values are: BOTH Both, specifies both the SDCC and LDCC types are modified in the adjacency table. LDCC Line DCC, specifies the LDCC type is modified in the adjacency table. SDCC Section DCC, specifies the SDCC type is modified in the adjacency table. Restrictions: ED-TARPADJ-DCC is denied if DCCTYPE=BOTH and NSAP is specified.

ENABLE=	{N, Y}	
	Default:	<Previously existing value> or {Y} {Factory default}
	Addressing:	None
	Description:	Enable, determines if the TARP propagation to the NE specified by the NSAP parameter is enabled or disabled. Values are:
	N	No, specifies the TARP propagation to the NE in the NSAP parameter is disabled.
	Y	Yes, specifies the TARP propagation to the NE in the NSAP parameter is enabled.
ISLEVEL=	{1, 2, BOTH}	
	Default:	<Previously existing value>
	Addressing:	None
	Description:	Intermediate System Level, indicates the IS Level of the NSAP that is being addressed. If the IS Level is specified, the NSAP shall also be specified. Values are:
	1	NSAP is a level 1 adjacency.
	2	NSAP is a level 2 adjacency.
	BOTH	NSAP is both level 1 and level 2 adjacency.
NSAP=	<40 ASCII HEXADECIMAL VALUES>	
	Default:	<All existing values>
	Addressing:	None
	Description:	Network Service Access Point, specifies the Network Service Access Point (NSAP) address. Values are 20 octets long encoded as 40 ASCII hexadecimals. The user enters the values in either upper or lower case (i.e. case insensitive). If NSAP is not specified, all the NSAPs configured for the specified OC-3/OC-12 for the DCCTYPE is enabled/disabled and the ISLEVEL is modified to that specified in the ISLEVEL parameter.
	Restrictions:	ED-TARPADJ-DCC is denied if the specified NSAP is less than 40 ASCII characters. ED-TARPADJ-DCC is denied if the NSAP is specified and DCCTYPE=BOTH.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID [-VCNUM] >) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID [-VCNUM] >) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent
IDNV	Input, Data Not Valid
IIAC	Input, Invalid ACcess identifier
IPMS	Input, Parameter MiSsing
SDBE	Status, internal Data Base Error
	/*TP Database Error: <ERROR-STRING> for <AID-STRING>*/
	/*TPidToTarpD(): <ERROR-STRING>*/
	/*TPidToGlobTPid(): <ERROR-STRING>*/
	/*TARP_DCC Database Error: <ERROR-STRING> for record number <RECORD- NUMBER>*/
SNVS	Status, Not in Valid State
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, the TARP adjacency table entries of the network layer are modified.

```
ED-TARPADJ-DCC::OC3-2:::DCCTYPE=SDCC,ENABLE=Y,ISLEVEL=1,  
NSAP=39840F8000000000000000000000000000;
```

RELATED COMMANDS

DLT-TARPA DJ-DCC
ENT-TARPA DJ-DCC
RTRV-TARPA DJ-DCC

COMMAND CODE: ED-TARPADJ-LAN
COMMAND NAME: EDIT TARP ADJACENCY TABLE ENTRY OF LAN

PURPOSE

The ED-TARPADJ-LAN command allows modifying the manually provisioned TID Address Resolution Protocol (TARP) adjacency table entries for the DSB's LAN.

The TARP Protocol Data Units (PDUs) are carried by Layer 3 (network layer) of the SONET Local Area Network (LAN).

An ED-TARPADJ-LAN command is denied if:

- A value entered for the NSAP is not in the adjacency table of the specified DSB.
- The specified NSAP is less than 40 ASCII characters.
- The NSAP is not specified while the ISLEVEL is specified.
- An invalid parameter value is entered.

INPUT FORMAT

ED-TARPADJ-LAN: [TID] :AID: [CTAG] : : : [ENABLE=] [, ISLEVEL=] [, NSAP=] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	EQUIPMENT_AID: {DSB-{6-9, 12-15, 18-21, 24-43, 104-111 , 112-135, 136-141 }-{1, 3}-{1-2}} Default: Entry Required Addressing: None Description: DSB AID, identifies the DSB whose adjacency table entries are being modified.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
ENABLE=	{N, Y} Default: <Previously existing value> or {Y} {Factory default} Addressing: None Description: Enable, determines if the TARP propagation to the NE specified by the NSAP parameter is enabled or disabled. Values are: N No, specifies the TARP propagation to the NE in the NSAP parameter is disabled. Y Yes, specifies the TARP propagation to the NE in the NSAP parameter is enabled.
ISLEVEL=	{1, 2, BOTH} Default: <Previously existing value> Addressing: None Description: Intermediate System Level, indicates the IS Level of the NSAP that is being addressed. If the IS Level is specified, the NSAP shall also be specified. Values are: 1 NSAP is a level 1 adjacency. 2 NSAP is a level 2 adjacency. BOTH NSAP is both level 1 and level 2 adjacency.

NSAP= <40 ASCII HEXADECIMAL VALUES>
Default: <Previously existing value>
Addressing: None
Description: Network Service Access Point, specifies the Network Service Access Point (NSAP) address. Values are 20 octets long encoded as 40 ASCII hexadecimals. The user enters the values in either upper or lower case (i.e. case insensitive). If NSAP is not specified, all the NSAPs on the link specified by the DSB is enabled/disabled.
Restrictions: ED-TARPADJ-LAN is denied if the specified NSAP is less than 40 ASCII characters.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent /* Unable to read aux buffer for <AID> */
IDNV	Input, Data Not Valid /* Error reading input. */ /* Error reading input for NSAP */ /* Unable to read the value of ISLEVEL */ /* Invalid value for ISLEVEL */ /* Invalid parameter in the input command */ /* NSAP address must be 40 characters long. */ /* Unable to find the requested NSAP entry */
IIAC	Input, Invalid ACcess identifier /* Invalid or unassigned equipment identifier specified. */
IPMS	Input, Parameter MiSsing /* If ISLEVEL is specified, NSAP must be entered. */
SARB	Status, All Resources Busy /* Command already in progress on equipment. */ /* Automatic system configuration active on equipment. */ /* Automatic configuration (database download) of parent processor in progress. */ /* Level 2 processor software download in progress. Try again later. */ /* INIT-SYS command still active on shelf that equipment is on. */
SDBE	Status, internal Data Base Error /* Data base access failure. */ /* Unable to read the LANDCC database. */ /* Unable to update the LANDCC database. */

EXAMPLES

In the following example, Network Service Access Point is modified so that the IS level is set to both level 1 and 2 for DSB-6-1-1.

```
/* ED-TARPADJ-LAN::DSB-6-1-1:::ISLEVEL= BOTH,NSAP= 398406a00
000000000000000000000000000000 [P72011] (1) */

<SID> <YY-MM-DD> <HH:MM:SS>
M P72011 COMPLD
/* The ED-TARPADJ-LAN for DSB-6-1-1 was completed. */
/* ED-TARPADJ-LAN::DSB-6-1-1:::ISLEVEL= BOTH,NSAP= 398406a00
000000000000000000000000000000 [P72011] (1) */
```

RELATED COMMANDS

DLT-TARPADJ-LAN
ED-TARPADJ-LAN
RTRV-TARPADJ-LAN

COMMAND CODE: ED-ULCOMPMPR
COMMAND NAME: EDIT UPPER LAYER COMMON
PARAMETERS

PURPOSE

The ED-ULCOMPMPR command allows provisioning of the Layer 3 (network layer) parameters of the SONET Data Communication Channel (DCC) network. This command allows provisioning of all the OSI upper layer stack (Layer 3) parameters common to both DCC and LAN.

Changes to the name-defined parameters are stored in the database and take effect immediately or when the OSI stack is (re)initialized. In each description of each input parameter for ED-ULCOMPMPR, a change made to the parameter will take effect immediately unless the description states explicitly that it will not take effect until the OSI stack is (re)initialized. This is accomplished by performing a RST-EQPT of the DSB or by editing the DSB into an IS state from an OOS state via ED-EQPT command. All of the name-defined parameters are saved during a database backup and restore. If a parameter is not specified, it defaults to the previous existing value.

An ED-ULCOMPMPR command is denied if:

- The specified DSB is not provisioned, i.e., the DSB is in a UAS secondary state.
- The specified DSB is not in a OOS-MA or OOS-AUMA primary state.
- An invalid parameter value is entered.

INPUT FORMAT

```
ED-ULCOMPMPR: [TID]:AID:[CTAG]:: [ALLDFLT=] [,L3CSNPINTTMR=] [,L3DRISISHT=]
[,L3ER=] [,L3IS1LSPBS=] [,L3IS2LSPBS=] [,L3ISLEVEL=] [,L3ISPRTREP=]
[,L3LC=] [,L3MAXLSPGENINT=] [,L3MINBLSPXMTINT=] [,L3MINLSPXMTINT=]
[,L3POLLESHRT=] [,L3PSNPINTTMR=] [,L3WAITTM=] [,TARPLDBFLSHTMR=]
[,TARPLDBENTTMR=] ;
```

INPUT PARAMETERS

TID	<1-20 VALID TID CHARACTERS> Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	EQUIPMENT_AID: {DSB-{6-9, 12-15, 18-21, 24-43, 104-111 , 112-135, 136-141 }-{1, 3}-{1-2}} Default: Entry Required Addressing: None Description: DSB AID, identifies the DSB whose common stack parameters are being modified.
CTAG	<1-6 VALID CTAG CHARACTERS> Default: <System Assigned CTAG Value> Addressing: None Description: Correlation Tag, associates input command with its output responses.
ALLDFLT=	{N, Y} Default: {N} Addressing: None Description: All Default, specifies whether or not all the parameters are set to the factory default. If ED-ULCOMPMPR is issued with ALLDFLT=Y, all parameters are set to the factory default and all other specified parameters are ignored. If ED-ULCOMPMPR is issued with ALLDFLT=N, all specified parameters will be changed and all other non-specified parameters will remain the previous existing value. Values are: N No, specifies all parameters are not set to the factory default. Y Yes, specifies all parameters are set to the factory default.

L3CSNPINTTMR=	{1–600, DFLT}
Default:	<Previously existing value> or {10} {Factory default}
Addressing:	None
Description:	Layer 3 Complete SNP Interval Timer, specifies the complete SNP Interval Timer in seconds. Name–defined values are:
DFLT	Default, specifies the parameter is set to the factory default.
L3DRISISHT=	{1–665535, DFLT}
Default:	<Previously existing value> or {1} {Factory default}
Addressing:	None
Description:	Layer 3 drlSIS Hello Timer, specifies the drlSIS Hello Timer in seconds. Name–defined values are:
DFLT	Default, specifies the parameter is set to the factory default.
L3ER=	{N, Y, DFLT}
Default:	<Previously existing value> or {N} {Factory default}
Addressing:	None
Description:	Layer 3 Error Report, specifies whether an Error Report PDU is generated when a Data PDU is discarded. Values are:
DFLT	Default, specifies the parameter is set to the factory default.
N	No, specifies an Error Report PDU is not generated when a Data PDU is discarded.
Y	Yes, specifies an Error Report PDU is generated when a Data PDU is discarded.
L3IS1LSPBS=	{512–1492, DFLT}
Default:	<Previously existing value> or {512}{Factory default}
Addressing:	None
Description:	Layer 3 Intermediate System Level 1 LSP Buffer Size, specifies originating IS Level 1 LSP Buffer Size in octets. Changes to this parameter take effect only when the OSI protocol stack is (re)initialized. Name–defined values are:
DFLT	Default, specifies the parameter is set to the factory default.
L3IS2LSPBS=	{512–1492, DFLT}
Default:	<Previously existing value> or {512} {Factory default}
Addressing:	None
Description:	Layer 3 Intermediate System Level 2 LSP Buffer Size, specifies originating IS Level 2 LSP Buffer Size in octets. Changes to this parameter take effect only when the OSI protocol stack is (re)initialized. Name–defined values are:
DFLT	Default, specifies the parameter is set to the factory default.
L3ISLEVEL=	{1, 2, DFLT}
Default:	<Previously existing value> or {2} {Factory default}
Addressing:	None
Description:	Layer 3 Intermediate System Level, specifies the IS Level Provisioning. Changes to this parameter take effect only when the OSI protocol stack is (re)initialized.
DFLT	Default, specifies the parameter is set to the factory default.

L3ISPRTEP=	{N, Y, DFLT}
Default:	<Previously existing value> or {Y} {Factory default}
Addressing:	None
Description:	Layer 3 Intermediate System Partition Repair, indicates if the IS Partition Repair function is supported. Changes to this parameter take effect only when the OSI protocol stack is (re)initialized. Values are:
	DFLT Default, specifies the parameter is set to the factory default.
	N No, specifies the IS Partition Repair is not supported.
	Y Yes, specifies the IS Partition Repair is supported.
L3LC=	{1–255, DFLT}
Default:	<Previously existing value> or {20} {Factory default}
Addressing:	None
Description:	Layer 3 Lifetime Control, sets the Layer 3 Lifetime Control time in units of 500 milliseconds. Name–defined values are:
	DFLT Default, specifies the parameter is set to the factory default.
L3MAXLSPGENINT=	{1–65535, DFLT}
Default:	<Previously existing value> or {900} {Factory default}
Addressing:	None
Description:	Layer 3 Maximum LSP Transmission Interval, specifies the maximum LSP Transmission Interval in hundredths of seconds. Name–defined values are:
	DFLT Default, specifies the parameter is set to the factory default.
L3MINBLSPXMTINT=	{1–65535, DFLT}
Default:	<Previously existing value> or {33} {Factory default}
Addressing:	None
Description:	Layer 3 Minimum Broadcast LSP Transmission Interval, specifies the minimum broadcast LSP Transmission Interval in seconds. Name–defined values are:
	DFLT Default, specifies the parameter is set to the factory default.
L3MINLSPXMTINT=	{1–255, DFLT}
Default:	<Previously existing value> or {5} {Factory default}
Addressing:	None
Description:	Layer 3 Minimum LSP Transmission Interval, specifies the minimum LSP Transmission Interval in seconds. Name–defined values are:
	DFLT Default, specifies the parameter is set to the factory default.
L3POLLESHRT=	{1–65535, DFLT}
Default:	<Previously existing value> or {50} {Factory default}
Addressing:	None
Description:	Layer 3 Poll ESH Rate, specifies the Poll ESH rate in seconds. Name–defined values are:
	DFLT Default, specifies the parameter is set to the factory default.

L3PSNPINTTMR=	{1–65535, DFLT}
Default:	<Previously existing value> or {2} {Factory default}
Addressing:	None
Description:	Layer 3 Partial SNP Timer Interval, specifies the partial SNP Interval Timer in seconds. Name–defined values are:
DFLT	Default, specifies the parameter is set to the factory default.
L3WAITTM=	{1–65535, DFLT}
Default:	<Previously existing value> or {60} {Factory default}
Addressing:	None
Description:	Layer 3 Waiting Time, specifies the Waiting Time in seconds. Name–defined values are:
DFLT	Default, specifies the parameter is set to the factory default.
TARPLDBFLSHTMR=	{0–1440, DFLT}
Default:	<Previously existing value> or {5} {Factory default}
Addressing:	None
Description:	TID Address Resolution Protocol (TARP) LDB Flush Timer, specifies the TARP LDB Flush Timer in minutes. Name–defined values are:
DFLT	Default, specifies the parameter is set to the factory default.
TARPLDBENTTMR=	{1–10, DFLT}
Default:	<Previously existing value> or {5} {Factory default}
Addressing:	None
Description:	TID Address Resolution Protocol (TARP) LDB Entry Timer, specifies the TARP LDB Entry Timer in minutes. Name–defined values are:
DFLT	Default, specifies the parameter is set to the factory default.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non–Parser Error Codes used with this command are:

```

IDNC      Input, Data Not Consistent
          /* Unable to read aux buffer for <AID> */
```

IDNV	Input, Data Not Valid /* Error reading input for ALLDFLT */ /* Valid values for ALLDFLT are Y and N */ /* Error reading input for L3CSNPINTTMR */ /* Error reading input for L3DRISISHT */ /* Error reading input for L3ER */ /* Error reading input for L3IS1LSPBS */ /* Error reading input for L3IS2LSPBS */ /* Error reading input for L3ISPRTREP */ /* Error reading input for L3LC */ /* Error reading input for L3MAXLSPGENINT */ /* Error reading input for L3MINBLSPXMTINT */ /* Error reading input for L3MINLSPXMTINT */ /* Error reading input for L3POLLESHRT */ /* Error reading input for L3PSNPINTTMR */ /* Error reading input for L3ISLEVEL */ /* Error reading input for L3WAITTM */ /* Error reading input for TARPLDBFLSHTMR */ /* Error reading input for TARPLDBENTTMR */
IIAC	Input, Invalid ACcess identifier /* Invalid or unassigned equipment identifier specified. */
SARB	Status, All Resources Busy /* Command already in progress on equipment. */ /* Automatic system configuration active on equipment. */ /* Automatic configuration (database download) of parent processor in progress. */ /* Level 2 processor software download in progress. Try again later. */ /* INIT–SYS command still active on shelf that equipment is on. */
SDBE	Status, internal Data Base Error /* Data base access failure. */ /* Unable to read the LANDCC database. */ /* Unable to update the LANDCC database */
SNVS	Status, Not in Valid State /* DSB is not in a Maintenance state*/

EXAMPLES

In the following example, the upper layer parameters common to both the LAN or DCC for DSB are being set to the factory defaults.

```
ED-ULCOMPMR::DSB-9-1-1:::ALLDFLT= Y;
```

RELATED COMMANDS

```
RTRV-ULCOMPMR
```


COMMAND CODE: **ED-ULLAN**
COMMAND NAME: **EDIT UPPER LAYER LAN PARAMETERS**

PURPOSE

The ED-ULLAN command allows provisioning of the Layer 3 (network layer) parameters of the SONET Data Communication Channel (DCC) network. This command allows provisioning of the OSI upper layer stack (Layer 3) parameters pertaining to the LAN.

Changes to the name-defined parameters take effect immediately when the OSI stack is active. All of the name-defined parameters survive a database backup and restore. If a parameter is not specified, it defaults to the previous existing value.

An ED-ULLAN command is denied if:

- The specified DSB is not provisioned, i.e., the DSB is in a UAS secondary state.
- An invalid parameter value is entered.

INPUT FORMAT

```
ED-ULLAN: [TID] :AID: [CTAG] :: [ALLDFLT=] [, L3DL1ISP=] [, L3DL2ISP=] [, L3ESCTMR=]
[, L3ESISHTMR=] [, L3ISCTMR=] [, L3ISISHTMR=] [, L3RDTMR=] ;
```

INPUT PARAMETERS

TID	<1–20 VALID TID CHARACTERS> Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	EQUIPMENT_AID: {DSB–{6–9, 12–15, 18–21, 24–43, 104–111 , 112–135, 136–141 }–{1, 3}–{1–2}} Default: Entry Required Addressing: None Description: DSB AID, identifies the DSB on the LAN whose upper layer parameters are being modified.
CTAG	<1–6 VALID CTAG CHARACTERS> Default: <System Assigned CTAG Value> Addressing: None Description: Correlation Tag, associates input command with its output responses.
ALLDFLT=	{N, Y} Default: {N} Addressing: None Description: All Default, specifies whether or not all the parameters are set to the factory default. If ED-ULLAN is issued with ALLDFLT=Y, all parameters are set to the factory default and all other specified parameters are ignored. If ED-ULLAN is issued with ALLDFLT=N, all specified parameters will be changed and all other non-specified parameters will remain the previous existing value. Values are: N No, specifies all parameters are not set to the factory default. Y Yes, specifies all parameters are set to the factory default.
L3DL1ISP=	{1–127, DFLT} Default: <Previously existing value> or {64} {Factory default} Addressing: None Description: Layer 3 Designated Level 1 Intermediate System Priority, specifies Designated Level 1 IS Priority. Name-defined values are: DFLT Default, specifies the parameter is set to the factory default.

L3DL2ISP=	{1–127, DFLT}	Default:	<Previously existing value> or {64} {Factory default}
		Addressing:	None
		Description:	Layer 3 Designated Level 2 Intermediate System Priority, specifies Designated Level 2 IS Priority. Name–defined values are: DFLT Default, specifies the parameter is set to the factory default.
L3ESCTMR=	{1–200, DFLT}	Default:	<Previously existing value> or {50} {Factory default}
		Addressing:	None
		Description:	Layer 3 End System Configuration Timer, specifies ISO 9542 Suggested ES Configuration Timer (ESCT) in seconds. Name–defined values are: DFLT Default, specifies the parameter is set to the factory default.
L3ESISHTMR=	{2–63, DFLT}	Default:	<Previously existing value> or {3} {Factory default}
		Addressing:	None
		Description:	Layer 3 End System/Intermediate System Holding Time Multiplier, is used to specify ISO 9542 Holding Time. The value of L3ESISHTMR entered is multiplied by the ISO 9542 IS Configuration Timer, L3ISCTMR, to specify the ISO 9542 Holding Time. (i.e., The L3ESISHTMR factory default of 3 multiplied by the L3ISCTMR factory default of 10 yields a holding time of 30 seconds). Name–defined values are: DFLT Default, specifies the parameter is set to the factory default.
L3ISCTMR=	{1–200, DFLT}	Default:	<Previously existing value> or {10} {Factory default}
		Addressing:	None
		Description:	Layer 3 Intermediate System Configuration Timer, specifies ISO 9542 IS Configuration Timer in seconds. Name–defined values are: DFLT Default, specifies the parameter is set to the factory default.
L3ISISHTMR=	{1–65535, DFLT}	Default:	<Previously existing value> or {3} {Factory default}
		Addressing:	None
		Description:	Layer 3 Intermediate System/Intermediate System Hello Timer, specifies IS–IS Hello Timer in seconds. Name–defined values are: DFLT Default, specifies the parameter is set to the factory default.
L3RDTMR=	{1–500, DFLT}	Default:	<Previously existing value> or {180} {Factory default}
		Addressing:	None
		Description:	Layer 3 Redirect Timer, specifies ISO 9542 Redirect Timer in seconds. Name–defined values are: DFLT Default, specifies the parameter is set to the factory default.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```


UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent /* Unable to read aux buffer for <AID> */
IDNV	Input, Data Not Valid /* Error reading input for ALLDFLT */ /* Valid values for ALLDFLT are Y and N */ /* Error reading input for L3DL1ISP */ /* Error reading input for L3DL2ISP */ /* Error reading input for L3ESCTMR */ /* Error reading input for L3ESISHTMR */ /* Error reading input for L3ISCTMR */ /* Error reading input for L3ISISHTMR */ /* Error reading input for L3RDTMR */
IIAC	Input, Invalid ACcess identifier /* Invalid or unassigned equipment identifier specified. */
SARB	Status, All Resources Busy /* Invalid or unassigned equipment identifier specified. */ /* Automatic system configuration active on equipment. */ /* Automatic configuration (database download) of parent processor in progress. */ /* Level 2 processor software download in progress. Try again later. */ /* INIT-SYS command still active on shelf that equipment is on. */
SDBE	Status, internal Data Base Error /* Data base access failure. */ /* Unable to read the LANDCC database. */ /* Unable to update the LANDCC database */

EXAMPLES

In the following example, the Layer 3 Designated Level 2 Intermediate System Priority is set to 120 for DSB-6-1-1.

```

ED-ULLAN::DSB-6-1-1:::L3DL2ISP= 120;

<SID> <YY-MM-DD> <HH:MM:SS>
M P72015 COMPLD
  /* The ED-ULLAN for DSB-6-1-1 was completed. */
  /* ED-ULLAN::DSB-6-1-1:::L3DL2ISP= 120 [P72015] (1) */

```

RELATED COMMANDS

RTRV-ULLAN

COMMAND CODE: **ED-ULLDCC**
COMMAND NAME: **EDIT UPPER LAYER LINE DCC**

PURPOSE

The ED-ULLDCC command allows provisioning of the Layer 3 (network layer) parameters of the SONET Data Communication Channel (DCC) network. This command allows provisioning of the OSI upper layer stack (Layer 3) parameters pertaining to the Line DCC.

If ENT-FFP-OCn (where n= 3 or 12) has been issued on the addressed OC-3/OC-12, the AID will be the working (odd-numbered) OC-3/OC-12. If a protection (even-numbered) OC-3/OC-12 is specified, then ED-ULLDCC will be denied. If ENT-FFP-OCn has not been issued on the addressed OC-3/OC-12 or if ENT-RNG-OCn has been issued on the addressed OC-3/OC-12, then ED-ULLDCC will allow both odd numbered and even numbered OC-3s/OC-12s to be addressed.

Changes to the name-defined parameters take effect immediately when the OSI stack is active. All of the name-defined parameters survive a database backup and restore. If a parameter is not specified, it defaults to the previous existing value.

An ED-ULLDCC command is denied if:

- The specified OC-3/OC-12 is not provisioned, i.e., the OC-3/OC-12 is in a UAS secondary state.
- The specified AID is a protection OC-3/OC-12.
- An invalid parameter value is entered.

INPUT FORMAT

```
ED-ULLDCC: [TID] :AID: [CTAG] : : [ALLDFLT=] [ , L3ESCTMR=] [ , L3ESISHTMR=]
[ , L3ISCTMR=] [ , L3ISISHTMR=] ;
```

INPUT PARAMETERS

TID	<1-20 VALID TID CHARACTERS> Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	OC3_AID: {OC3-{1-2240}} (OC3-OC3#) OC12_AID: {OC12-{1-560}} (OC12-OC12#) Default: Entry Required Addressing: None Description: Optical Carrier AID, identifies the OC-3/OC-12 whose Line DCC parameters are being modified.
CTAG	<1-6 VALID CTAG CHARACTERS> Default: <System Assigned CTAG Value> Addressing: None Description: Correlation Tag, associates input command with its output responses.
ALLDFLT=	{N, Y} Default: {N} Addressing: None Description: All Default, specifies whether or not all the parameters are set to the factory default. If ED-ULLDCC is issued with ALLDFLT=Y, all parameters are set to the factory default and all other specified parameters are ignored. If ED-ULLDCC is issued with ALLDFLT=N, all specified parameters will be changed and all other non-specified parameters will remain the previous existing value. Values are: N No, specifies all parameters are not set to the factory default. Y Yes, specifies all parameters are set to the factory default.

L3ESCTMR=	{1–200, DFLT}	
Default:	<Previously existing value> or {50} {Factory default}	
Addressing:	None	
Description:	Layer 3 End System Configuration Timer, specifies ISO 9542 Suggested ES Configuration Timer (ESCT) in seconds. Name-defined values are:	
	DFLT	Default, specifies the parameter is set to the factory default.
L3ESISHTMR=	{2–63, DFLT}	
Default:	<Previously existing value> or {3} {Factory default}	
Addressing:	None	
Description:	Layer 3 End System/Intermediate System Holding Time Multiplier, is used to specify ISO 9542 Holding Time. The value of L3ESISHTMR entered is multiplied by the ISO 9542 IS Configuration Timer, L3ISCTMR, to specify the ISO 9542 Holding Time. (i.e., The L3ESISHTMR factory default of 3 multiplied by the L3ISCTMR factory default of 10 yields a holding time of 30 seconds). Name-defined values are:	
	DFLT	Default, specifies the parameter is set to the factory default.
L3ISCTMR=	{1–200, DFLT}	
Default:	<Previously existing value> or {10} {Factory default}	
Addressing:	None	
Description:	Layer 3 Intermediate System Configuration Timer, specifies ISO 9542 IS Configuration Timer in seconds. Name-defined values are:	
	DFLT	Default, specifies the parameter is set to the factory default.
L3ISISHTMR=	{1–65535, DFLT}	
Default:	<Previously existing value> or {3} {Factory default}	
Addressing:	None	
Description:	Layer 3 Intermediate System/Intermediate System Hello Timer, specifies IS–IS Hello Timer in seconds. Name-defined values are:	
	DFLT	Default, specifies the parameter is set to the factory default.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid
IIAC	Input, Invalid ACcess identifier
SDBE	Status, internal Data Base Error /*TP Database Error: <ERROR-STRING> for <AID-STRING>*/ /*DCC Database Error: <ERROR-STRING> for <AID-STRING>*/
SNVS	Status, Not in Valid State
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, the upper layer parameters pertaining to the Line DCC for OC-3 port OC3-14 are being set to the factory defaults.

```
ED-ULLDCC::OC3-14:::ALLDFLT=Y;
```

RELATED COMMANDS

```
RTRV-ULLDCC
```


COMMAND CODE: **ED-ULSDCC**
COMMAND NAME: **EDIT UPPER LAYER SECTION DCC**

PURPOSE

The ED-ULSDCC command allows provisioning of the Layer 3 (network layer) parameters of the SONET Data Communication Channel (DCC) network. This command allows provisioning of the OSI upper layer stack (Layer 3) parameters pertaining to the Section DCC.

If ENT-FFP-OCn (where n=3 or 12) has been issued on the addressed OC-3/OC-12, the AID will be the working (odd-numbered) OC-3/OC-12. If a protection (even-numbered) OC-3/OC-12 is specified, then ED-ULSDCC will be denied. If ENT-FFP-OCn has not been issued on the addressed OC-3/OC-12, or if ENT-RNG-OCn has been issued on the addressed OC-3/OC-12, then ED-ULSDCC will allow both odd numbered and even numbered OC-3s/OC-12s to be addressed.

Changes to the name-defined parameters take effect immediately, when the OSI stack is active. All of the name-defined parameters survive a database backup and restore. If a parameter is not specified, it defaults to the previous existing value.

An ED-ULSDCC command is denied if:

- The specified OC-3/OC-12 is not provisioned, i.e., the OC-3/OC-12 is in a UAS secondary state.
- The specified AID is a protection OC-3/OC-12.
- An invalid parameter value is entered.

INPUT FORMAT

```
ED-ULSDCC: [TID] :AID: [CTAG] : : [ALLDFLT=] [, L3ESCTMR=] [, L3ESISHTMR=]
[, L3ISCTMR=] [, L3ISISHTMR=] ;
```

INPUT PARAMETERS

TID	<1-20 VALID TID CHARACTERS> Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	OC3_AID: {OC3-{1-2240}} (OC3-OC3#) OC12_AID: {OC12-{1-560}} (OC12-OC12#) Default: Entry Required Addressing: None Description: Optical Carrier AID, identifies the OC-3/OC-12 whose Section DCC parameters are being modified.
CTAG	<1-6 VALID CTAG CHARACTERS> Default: <System Assigned CTAG Value> Addressing: None Description: Correlation Tag, associates input command with its output responses.
ALLDFLT=	{N, Y} Default: {N} Addressing: None Description: All Default, specifies whether or not all the parameters are set to the factory default. If ED-ULSDCC is issued with ALLDFLT=Y, all parameters are set to the factory default and all other specified parameters are ignored. If ED-ULSDCC is issued with ALLDFLT=N, all specified parameters will be changed and all other non-specified parameters will remain the previous existing value. Values are: N No, specifies all parameters are not set to the factory default. Y Yes, specifies all parameters are set to the factory default.

L3ESCTMR=	{1–200, DFLT}	
Default:	<Previously existing value> or {50} {Factory default}	
Addressing:	None	
Description:	Layer 3 End System Configuration Timer, specifies ISO 9542 Suggested ES Configuration Timer (ESCT) in seconds. Name-defined values are:	
	DFLT	Default, specifies the parameter is set to the factory default.
L3ESISHTMR=	{2–63, DFLT}	
Default:	<Previously existing value> or {3} {Factory default}	
Addressing:	None	
Description:	Layer 3 End System/Intermediate System Holding Time Multiplier, is used to specify ISO 9542 Holding Time. The value of L3ESISHTMR entered is multiplied by the ISO 9542 IS Configuration Timer, L3ISCTMR, to specify the ISO 9542 Holding Time. (i.e., The L3ESISHTMR factory default of 3 multiplied by the L3ISCTMR factory default of 10 yields a holding time of 30 seconds). Name-defined values are:	
	DFLT	Default, specifies the parameter is set to the factory default.
L3ISCTMR=	{1–200, DFLT}	
Default:	<Previously existing value> or {10} {Factory default}	
Addressing:	None	
Description:	Layer 3 Intermediate System Configuration Timer, specifies ISO 9542 IS Configuration Timer in seconds. Name-defined values are:	
	DFLT	Default, specifies the parameter is set to the factory default.
L3ISISHTMR=	{1–65535, DFLT}	
Default:	<Previously existing value> or {3} {Factory default}	
Addressing:	None	
Description:	Layer 3 Intermediate System/Intermediate System Hello Timer, specifies IS–IS Hello Timer in seconds. Name-defined values are:	
	DFLT	Default, specifies the parameter is set to the factory default.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid
IIAC	Input, Invalid ACcess identifier
SDBE	Status, internal Data Base Error /*TP Database Error: <ERROR-STRING> for <AID-STRING>*/ /*DCC Database Error: <ERROR-STRING> for <AID-STRING>*/
SNVS	Status, Not in Valid State
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, the upper layer parameters pertaining to the Line DCC for OC-3 port OC3-14 are being set to the factory defaults.

```
ED-ULSDCC::OC3-14:::ALLDFLT=Y;
```

RELATED COMMANDS

```
RTRV-ULSDCC
```


COMMAND CODE: **ED-VT1**
COMMAND NAME: **EDIT VT1**

PURPOSE

The ED-VT1 command modifies the specified VT1.5 port parameter values previously provisioned using ENT-VT1.

Executing an ED-VT1 command causes the following primary state transitions for the specified VT1.5. Secondary states associated with the VT1.5 after the command is executed depend upon events detected by the system. Refer to Appendix G, State Transitions for additional information on state values and state transitions.

Entered PST Value	Next PST State if Current PST State is:			
	IS	OOS-AU	OOS-AUMA	OOS-MA
IS	Denied	Denied	OOS-AU	IS
OOS	OOS-MA	OOS-AUMA	Denied	Denied

Note: 1. No state change occurs if no value is entered for PST.

When a VT1.5 is edited to an OOS-MA or OOS-AUMA state, a MAN condition type is set for the specified VT1.5. The MAN condition type is cleared when the VT1.5 is provisioned to an IS state.

When a VT1.5 is in an OOS-MA or OOS-AUMA state, no VT1.5 transmission condition types or performance monitoring threshold crossing alerts are autonomously reported for the VT1.5, but VT1.5 alarm conditions are monitored (retrievable with the RTRV-VT1 command) and performance monitoring data is collected (if provisioned for PM collection by the SET-PMODE-VT1 command) for the VT1.5.

When an VT1.5 with an SST of WRK (refer to ENT-RNG-OC3 or ENT-RNG-OC12) is edited to an OOS state and the VT1.5 is path switched using 2WAYPR, the system selects the VT1.5 from the redundant ring OC-3/OC-12 (if that path has an SST of STBYH) and that VT1.5 enters an SST of WRK. If the redundant path is in a PST of OOS, no switching is attempted. When the VT1.5 is in a pass through connection using 2WAY, the path AIS is sent in the pass-through direction.

An ED-VT1 command is denied if:

- An invalid parameter value or combination of parameter values is entered.
- The specified VT1.5s supporting EC1, OC-3 or OC-12 have not been provisioned.
- The specified VT1.5 has not previously been provisioned with the ENT-VT1 command.
- The specified VT1.5 is being edited from an IS or OOS-AU state to an IS state.
- The specified VT1.5 is being edited from an OOS-MA or OOS-AUMA state to an OOS,<Null> state.
- The specified VT1.5, which is embedded within a ring OC-3/OC-12 (refer to ENT-RNG-OC3 or ENT-RNG-OC12), is being edited to an OOS,<Null> state and the embedded VT1.5 has an SST of WRK, unless CMDMDE=FRCD.
- CMDMDE=FRCD (or NORM) is entered with an attempt to alter the value of VTMAP and a mapping is currently in place (meaning that an embedded termination point (T1) has been provisioned (a VT1.5 SST of SDEE), or that a cross-connection is in place which connects to an embedded termination point regardless of whether or not it is provisioned (e.g., a T1 level implied CRS), for examples).
- The specified VT1.5 is being edited from an OOS-MA or OOS-AUMA state to an IS state and the VT1.5 is in a loopback (the VT1.5 has an SST of LPBK).
- The specified VT1.5 is being edited in an IS or OOS-AU state and the VT1.5 is connected (it has an SST of ACT or BUSY), unless CMDMDE=FRCD is used.
- VTPTYEL=Y is specified.
- TACC=Y, and PST=IS.
- TAPPOOL is set to a valid value but TACC=N.
- TAPP AID is set to the last VT1.5 value in the system, and AID+1 can not be provisioned as a FAD port.
- FADB is provisioned.
- The port identified by AID is involved in a redlined connection or conference, and any parameter other than PST is entered. CMDMDE=FRCD will not override this denial.

INPUT FORMAT

ED-VT1: [TID]:AID: [CTAG]::: [CMDMDE=] [, TACC=] [, TAPPOOL=]
[, VTMAP=] [, VTPTYEL=]: [PST];

INPUT PARAMETERS

TID	< 1–20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	VT1_AID: {EC1VT1–{1–3840}–{1–7}–{1–4}} (EC1VT1–EC1/STS1#–VTGrp#–VT1.5#) {OC3VT1–{1–2240}–{1–3}–{1–7}–{1–4}} (OC3VT1–OC3#–STS1#–VTGrp#–VT1.5#) {OC12VT1–{1–560}–{1–4}–{1–3}–{1–7}–{1–4}} (OC12VT1–OC12#–STM1#–STS1#–VTGrp#–VT1.5#) Default: Entry Required Addressing: &&–ranging and &–grouping Description: VT1 AID, identifies the VT1.5 port or a range of VT1.5 ports.
CTAG	< 1–6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
CMDMDE=	{FRCD, NORM} Default: {NORM} Addressing: None Description: Command Execution Mode. Values are: FRCD Forced. The command is accepted and parameter values are modified even if the VT1.5 is cross-connected. NORM Normal. The command is denied if the VT1.5 is in an IS state and is cross-connected (VT1.5 has an SST of ACT or BUSY). Restrictions: ED–VT1 will be denied if this command is issued with CMDMDE=NORM on a VT1.5 that has TRM, ACT or BUSY secondary state.
TACC=	{N, Y} Default: <Previously Existing Value> Addressing: None Description: Test Access port AID, indicates that this VT1 port (specified by AID) and the AID+1 VT1 port are to be used as a Test Access Port Pairs (TAPP). The port specified by AID becomes FAD A and the port specified by AID+1 becomes FAD B. Values are: N No, the specified VT1 port is not a Test Access port. Y Yes, VT1 ports specified by AID and AID+1 are Test Access ports.

TAPPOOL=		{PRIVATE, PUBLIC, <NoVal>}
	Default:	<NoVal> if TACC = N PRIVATE if TACC = Y
	Addressing:	None
	Description:	TAP port Pool, defines whether the TAP port that has been created (by means of TACC=Y) belongs to the pool that is private to the creator of the pool or belongs to a public pool. Values are:
	PRIVATE	The TAP pair that has been created belongs to the private pool of the user that issued the ENT–VT1 command. It can only be accessed by the user that owns the pool. If any other user tries to use this TAP pair (by means of CONN–TACC–VT1), the command shall be denied.
	PUBLIC	The TAP pair that has been created belongs to the public pool of the system. It can be accessed by any user with the privilege to use the Test Access commands.
	<NoVal>	No Value (unpopulated), TAPPOOL does not apply if TACC=N.
VTMAP=		{ALL, ASYNC, VTBYTE}
	Default:	<Previously Existing Value>
	Addressing:	None
	Description:	VT1.5 payload type. Determines the expected VT1.5 payload type and the value of the expected path signal label. Used for comparison for the Signal Label Mismatch function. Values are:
	ALL	ALL incoming signal labels are accepted by the system, without creating a SLMF condition. ALL is intended for intermediate path monitoring only, so no mappings (i.e., terminating) of the VT1 are allowed for ALL (only intact VT1 connections are possible). Incoming idle (unequipped) signal labels will continue to produce IDLE condition types.
	ASYNC	VT Asynchronous mapping – VTFLOAT mode. (L1–L3 = 010 bin). The system will accept only incoming signal labels of type ASYNC without creating a SLMF condition. Incoming idle (unequipped) signal labels will continue to produce IDLE condition types.
	VTBYTE	VT byte synchronous mapping, applicable for DS0s being mapped into VT SPE – VTFLOAT mode (L1–L3 = 100 hex). The system will accept only incoming signal labels of type VTBYTE without creating a SLMF condition. Incoming idle (unequipped) signal labels will continue to produce IDLE condition types.
	Restrictions:	If VTMAP=ASYNC, only ASYNC type mappings may be applied to the VT1 (e.g., ENT–T1, ENT–CRS–T1, etc.). No visibility mappings can be made on a VT1 (i.e., ENT–T1 is not possible even though VTMAP=ASYNC) if the VT1 being provisioned is on hardware that cannot directly support ASYNC mappings for intermediate path monitoring purposes (e.g. an ES1 card). If VTMAP=VTBYTE, only VTBYTE type mappings may be applied to the VT1. Because VTBYTE type mappings are not supported by any of the current 1631 HW, no mappings can be made on that VT1 for VTMAP=VTBYTE (only intact VT1 connections are possible). ED–VT1 is denied if an attempt is made to alter the value of VTMAP and a mapping is currently in place.

VTPTYEL=	{N}	
	Default:	<Previously Existing Value>
	Addressing:	None
	Description:	VT1.5 path yellow behavior. Identifies whether VT path yellow or RDI will be sent/received. Values are:
	N	No. RDI will be sent/received on appropriate defect state.
	Restrictions:	ED-VT1 is denied if VTPTYEL=Y.
PST	{IS, OOS}	
	Default:	< NO PST STATE CHANGE >
	Addressing:	None
	Description:	Primary State, specifies the primary state to provision the VT1.5. Values are:
	IS	In-Service
	OOS	Out-Of-Service
	Restrictions:	ED-VT1 is denied if PST of IS is entered when the addressed VT1.5 is in loopback; i.e. it has a LPBK secondary state.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  /* <Free Form Informational Text> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent
	/* Invalid combination of TACC and TAPPOOL */
	/* Invalid parameter change of a Red Lined connection */
IDNV	Input, Data Not Valid
IIAC	Input, Invalid ACcess identifier
PICC	Privilege, Invalid Command Code
	/* You are not the owner of the TAPP */
SAIS	Status, Already In Service
SAOS	Status, Already Out of Service
SCAT	Status, Circuit Already connected to another Tap

SDBE	Status, internal Data Base Error /* TP Database Error: <ERROR-STRING> for <AID-STRING> */ /* Error updating supported T1s */ /* VT1 Shelf info error, Error=<ERROR-STRING> */ /* Error disabling supported T1, Error=<ERROR-STRING> */ /* Error enabling supported T1, Error=<ERROR-STRING> */ /*CONN Database Error: <ERROR-STRING> for <AID-STRING>*/ /*GetSptgTps(<TP-TYPE>, <RECORD-NUMBER>): <ERROR-STRING>*/ /* GetSptdTPid(VT1, <RECORD-NUMBER>, T1): <ERROR-STRING> */ /* Error updating supported entities */
SNVS	Status, Not in Valid State /* Cannot change VTMAP while supported entity exists */ /* Cannot change VTMAP while connected */ /*In-Service terminated or connected ports must be FRCD*/ /*The port is connected In-Service non-STBYH, must be FRCD*/ /*Fad B port is not in proper state for editing*/
SROF	Status, Requested Operation Failed
SRQN	Status, invalid ReQuest /*Cannot create FAD if supporting entity has fault propagation active*/ /*Cannot create FAD if supporting entity is connected*/
SSRE	Status, System Resources Exceeded /*No more TAPPs may be provisioned*/

EXAMPLES

In the following example, VT1.5 port EC1VT1-1-7-4 provisioning is changed to VTPTYEL to send RDI instead of VT path yellow and to the IS state. All other parameter values are unchanged.

```
ED-VT1::EC1VT1-1-7-4:::VTPTYEL=N:IS;
```

RELATED COMMANDS

```
DLT-VT1  
ENT-VT1  
RMV-VT1  
RST-VT1  
RTRV-CRS  
RTRV-CRS-VT1  
RTRV-RDL-ALL
```


COMMAND CODE: **ENT-CID**
COMMAND NAME: **ENTER COMMUNICATION INTERFACE
DEVICE**

PURPOSE

The ENT-CID command creates an entry for the specified CPORT (Control Port) in the system's CID (Communications Interface Device) configuration database. The CPORT is configured with the specified provisioning for the type of interface protocol, the interface baud rate, whether a UID is automatically logged-in (for non-X.25 CPORTs), and whether input characters for the ACT-USER command are echoed, by executing a RST-CID command for the specified CPORT.

An ENT-CID command is denied if:

- The specified CPORT is already provisioned (via ENT-CID).
- A UID specified for AUTOIN has not previously been provisioned (via the ENT-USER command).
- An invalid parameter value or combination of parameter values is entered.

When the system is in the Limited Command Entry Mode of operation (refer to the STOP-OPS command), the system administrator (UID of "system") is automatically logged-in on CPORT 1 and the system printer (UID of "sysprint") is automatically logged-in on CPORT 6.

CPORT 1 is not allowed to be configured for automatic UID login. Therefore, a normal login sequence (via ACT-USER) is required from CPORT 1 when the system is in the normal command entry mode (Direct Input Command Entry or Menu Mode).

If a CPORT is configured as an X.25 communication port, then:

- The ED-CID-OSPORT command is used to configure the common X.25 protocol parameters (such as packet size, range of PVC and SVC channel numbers, and the X.25 called address) for the CPORT. These parameters are applicable to all PVCs or SVCs within the CPORT.
- The ENT-CID-VC command is used to configure the CPORT for up to eight X.25 PVC or SVC channels, or combination of both. The command is also used to configure the Logical Channel Number for a PVC, and any associated automatic UID login for a PVC or outgoing SVC.
- The ENT-OSADDR-SITE and ED-OSADDR-SITE commands are used to create a database of allowable X.25 calling addresses, and any associated automatic UID login for each calling address for incoming SVCs.

If a CPORT is configured as a TCP communication port, then:

- The ED-IP-PRMTR command is used to provision the IP Layer parameters of the LAN interface on the ICM.

User login security is removed by provisioning a CPORT, or an X.25 PVC or SVC, with automatic UID login since anyone with access to the communication interface has the same command privileges as the UID provisioned in the AUTOIN parameter.

A CPORT connected to a printer terminal (refer to the TYPE parameter in the ENT-USER command) should be configured for automatic UID login. If the CPORT is configured for a normal login sequence (AUTOIN of %), the system waits for an ACT-USER command (indefinitely if an output-only printer terminal is connected).

INPUT FORMAT

ENT-CID: [TID] : CPORT: [CTAG] : : [PROTOCOL] , [BAUD] , [AUTOIN] , [ACTUSERDM] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >
Default:	<SID>
Addressing:	None
Description:	Target Identifier, specifies the network node TID for the command.

CPORT {1–12}
Default: Entry Required
Addressing: None
Description: Control Port, specifies the physical communication port number on the APS control system.
Restrictions: ENT–CID is denied if an invalid combination of values for PROTOCOL and CPORT is entered. Valid value combinations are shown below:

Valid Value Combinations for:	
PROTOCOL	CPORT
SNIDER	{2–12} (Up to 11 CPORTs)
TCP	{3,5,7,9,11} (Up to 3 CPORTs)
X25	{2–5, 7–12} (Up to 4 CPORTs)
XON	{1–12} (Up to 12 CPORTs)

ENT–CID is denied if CPORT of {1} and AUTOIN of {<UID>} is entered.

CTAG < 1–6 VALID CTAG CHARACTERS >
Default: < System assigned CTAG value >
Addressing: None
Description: Correlation Tag, associates input command with its output responses.

PROTOCOL {SNIDER, TCP, X25, XON}
Default: {XON}
Addressing: None
Description: Protocol, specifies the communication protocol used for the control port. Values are:
 SNIDER AT&T's SNIDER protocol.
 TCP TCP/IP protocol, implies the selected CPORT is running the TCP/IP over the Local Area Network (LAN).
 X25 X.25 protocol. The X.25 port parameters are applied to all PVCs and SVCs within the CPORT. (Refer to the ED–CID–OSPORT and ENT–CID–VC commands.)
 XON XON/XOFF protocol, specifies the asynchronous XON/XOFF (flow control) protocol.
Restrictions: ENT–CID is denied if an invalid combination of values of PROTOCOL with CPORT, BAUD, AUTOIN, and ACTUSERDM is entered.

BAUD {1200, 2400, 4800, 9600, 19200, 38400, 10}

Default: {2400} for PROTOCOL of SNIDER,
{9600} for PROTOCOL of XON,
{10} for PROTOCOL of TCP
<External DCE timing reference> for PROTOCOL of X25.

Addressing: None

Description: Baud Rate, specifies the baud rate of the control port. For CPORTs with PROTOCOL set to X25, any entered BAUD parameter value is ignored and the system automatically selects the external timing reference provided by the DCE (Data Communication Equipment). For CPORTs with PROTOCOL set to TCP, the BAUD parameter value is 10 megabit/second.

Restrictions: ENT-CID is denied if an invalid combination of values for PROTOCOL and BAUD is entered. Valid value combinations are shown below:

Valid Value Combinations for:	
PROTOCOL	BAUD
SNIDER	{1200, 2400, 4800, 9600, 19200}
TCP	{10}
X25	{1200, 2400, 4800, 9600, 19200}
XON	{1200, 2400, 4800, 9600, 19200}

AUTOIN {%, <UID>}

Default: {%} for PROTOCOL of SNIDER, X25, or XON

Addressing: None

Description: Automatic Login, specifies whether a User ID is automatically logged-in on the control port. Values are:

% No Automatic Login, a normal log-on sequence (via ACT-USER) is required to access the system, or UID Auto Login for X.25 virtual channels is specified by ENT-CID-VC for PVCs and outgoing SVCs or by ENT-OSADDR-SITE for incoming SVCs.

<UID> UID Automatically Logged-on, the entered User ID (UID) is automatically logged-on whenever the CPORT is in service.

Restrictions: ENT-CID is denied if an invalid combination of values for PROTOCOL and AUTOIN is entered. Valid value combinations are shown below:

Valid Value Combinations for:	
PROTOCOL	AUTOIN
SNIDER	{%, <UID>}
TCP	{%}
X25	{%}
XON	{%, <UID>}

ENT-CID is denied if AUTOIN of {<UID>} and CPORT of {1} is entered.
ENT-CID is denied if AUTOIN of {SYSTEM, system} is entered.

ACTUSERDM {AUECHO, AUNOECHO, <NoVal>}

Default: {AUECHO} for PROTOCOL of SNIDER, X25, XON,
{AUNOECHO} for PROTOCOL of TCP.

Addressing: None

Description: ACT–USER Display Mode, specifies whether the input characters (key-strokes) for an ACT–USER command entered over the specified CPORT, or entered over any provisioned X.25 PVCs or incoming SVCs within the CPORT, are echoed by the system. Values are:

AUECHO Character Echo, ACT–USER input characters are echoed.

AUNOECHO Character Not Echo, ACT–USER input characters are not echoed.

Restrictions: ENT–CID is denied if an invalid combination of values for PROTOCOL and ACTUSERDM is entered. Valid value combinations are shown below:

Valid Value Combinations for:	
PROTOCOL	ACTUSERDM
SNIDER	{AUECHO, AUNOECHO, <NoVal>}
TCP	{AUNOECHO, <NoVal>}
X25	{AUECHO, AUNOECHO, <NoVal>}
XON	{AUECHO, AUNOECHO, <NoVal>}

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
/* <CPORT>, <PROTOCOL>, <BAUD>, <AUTOIN>, <ACTUSERDM> */
[/* <MODEM>, <SIZE>, <L3WIN>, <KWIN>, <HIPVC>, <LISVC>, <HISVC>,
<LTSVC>, <HTSVC>, <LOSVC>, <HOSVC>, <ADDR> */]
[/* <Command Echo> [<CTAG>] (<CID [-VCNUM] >) */]
;

```

OUTPUT PARAMETERS

CPORT {1–12}
Control Port, identifies the physical control port number.

PROTOCOL {SNIDER, TCP, X25, XON}
Protocol, identifies the communication protocol used with the control port. Values are:

SNIDER SNIDER protocol.

TCP TCP/IP protocol, implies the selected CPORT is running the IP over the Local Area Network (LAN).

X25 X.25 protocol.

XON XON/XOFF protocol, indicates the asynchronous XON/XOFF (flow control) protocol.

BAUD {1200, 2400, 4800, 9600, 19200, 38400, 10}
Baud Rate, identifies the baud rate of the control port. (Note. The system automatically selects the external timing reference provided by the DCE (Data Communication Equipment) if PROTOCOL is X25, regardless of the value returned for BAUD.) For CPORTs with PROTOCOL set to TCP, the BAUD parameter value is 10 megabit/second.

AUTOIN	{%, <UID> Automatic Login, indicates whether a User ID is automatically logged-in on the control port. Values are: % No Automatic Login, a normal log-on sequence (via ACT-USER) is required to access the system, or UID Auto Login for X.25 virtual channels is specified by ENT-CID-VC for PVCs and outgoing SVCs or by ENT-OSADDR-SITE for incoming SVCs. <UID> UID Automatically Logged-on, the entered User ID (UID) is automatically logged-on whenever the CPORT is in service.
ACTUSERDM	{AUECHO, AUNOECHO} ACT-USER Display Mode, indicates whether the input characters (keystrokes) for an ACT-USER command entered over the indicated CPORT, or entered over any provisioned X.25 PVCs or incoming SVCs within the CPORT, are echoed by the system. Values are: AUECHO Character Echo, ACT-USER input characters are echoed. AUNOECHO Character Not Echo, ACT-USER input characters are not echoed.
MODEM	{NO, YES} Modem Controls, indicates whether the X.25 control port is provisioned (via ED-CID-OS-PORT) to use RTS (Request To Send) and CTS (Clear To Send) modem control signals. The output line for MODEM is only returned if PROTOCOL is X25.
SIZE	{128, 256} Packet Size, indicates the provisioned value (via ED-CID-OSPORT) for the X.25 maximum packet size. The output line for SIZE is only returned if PROTOCOL is X25.
L3WIN	{1-7} Level 3 Window Size, indicates the provisioned value (via ED-CID-OSPORT) for the X.25 level 3 window size. The output line for L3WIN is only returned if PROTOCOL is X25.
KWIN	{1-7} Level 2 Window Size, indicates the provisioned value (via ED-CID-OSPORT) for the X.25 level 2 window size (in number of frames). The output line for KWIN is only returned if PROTOCOL is X25.
HIPVC	{0-8} Highest Incoming PVC Channel Number, indicates the provisioned value (via ED-CID-OSPORT) for the X.25 HIPVC number. The output line for HIPVC is only returned if PROTOCOL is X25.
LISVC	{0-4095} Lowest Incoming SVC Channel Number, indicates the provisioned value (via ED-CID-OSPORT) for the X.25 LISVC number. The output line for LISVC is only returned if PROTOCOL is X25.
HISVC	{0-4095} Highest Incoming SVC Channel Number, indicates the provisioned value (via ED-CID-OSPORT) for the X.25 HISVC number. The output line for HISVC is only returned if PROTOCOL is X25.
LTSVC	{0-4095} Lowest Two-way (Incoming or Outgoing) SVC Channel Number, indicates the provisioned value (via ED-CID-OSPORT) for the X.25 LTSVC number. The output line for LTSVC is only returned if PROTOCOL is X25.
HTSVC	{0-4095} Highest Two-way (Incoming or Outgoing) SVC Channel Number, indicates the provisioned value (via ED-CID-OSPORT) for the X.25 HTSVC number. The output line for HTSVC is only returned if PROTOCOL is X25.

LOSVC	{0–4095} Lowest Outgoing SVC Channel Number, indicates the provisioned value (via ED–CID–OSPORT) for the X.25 LOSVC number. The output line for LOSVC is only returned if PROTOCOL is X25.
HOSVC	{0–4095} Highest Outgoing SVC Channel Number, indicates the provisioned value (via ED–CID–OSPORT) for the X.25 HOSVC number. The output line for HOSVC is only returned if PROTOCOL is X25.
ADDR	<1–15 INTEGER X.25_CALLED_ADDRESS> X.25 Called Address, indicates the provisioned value (via ED–CID–OSPORT) for the X.25 Called Address (the X.25 address for the system). The output line for ADDR is only returned if PROTOCOL is X25.

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Optional Suggested Action Text> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non–Parser Error Codes used with this command are:

```

IDNV      Input, Data Not Valid
          /* Illegal Input: OS error */
          /* X.25 not allowed on CID <cid> */
          /* SNIDER not allowed on CID <cid> */
          /* Maximum of <cid> CID ports already configured for X.25 */
          /* AUTO LOGIN Illegal on CID 1 */
          /* AUTO LOGIN invalid with X25 port */
          /* AUTO LOGIN (Illegal AUTOIN) */
          /* AUTO LOGIN (Duplicate AUTOIN in OSADDR) */
          /* AUTO LOGIN (Duplicate AUTOIN in OSDB) */
          /* AUTO LOGIN (Non–Existent AUTOIN) */
          /* Illegal Input: AUTOIN */
          /* Invalid CID (CPORT) entered */
          /* CID (CPORT) already exists */
SDBE      Status, internal Data Base Error
          /* Unable to write to OSDB – status = <status number> */

```

EXAMPLES

In the following example, CPORT 2 is configured to auto–login with a UID of SMITH, with a protocol of XON and a baud rate of 9600.

```
ENT-CID::2::,SMITH;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71061. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P71061 COMPLD
/* 2,XON,9600,SMITH,AUECHO */
/* ENT-CID::2::,,SMITH [P71061] (1) */
;
```

In the following example, CPORT 3 is configured as an X.25 control port.

```
ENT-CID::3::X25;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71062. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P71062 COMPLD
/* 3,X25,9600,%,AUECHO */
/* YES,128,2,7,0,0,0,0,0,0,0,0 */
/* ENT-CID::3::X25 [P71062] (1) */
;
```

RELATED COMMANDS

DLT-CID
DLT-CID-VC
DLT-OSADDR-SITE
ED-CID
ED-CID-OSPORT
ED-CID-VC
ED-OSADDR-SITE
ED-PRMTR-SITE
ENT-CID-VC
ENT-EQPT
ENT-OSADDR-SITE
RMV-CID
RST-CID
RTRV-CID
RTRV-EQPT
RTRV-OSADDR-SITE
RTRV-PRMTR-SITE
START-CID
STOP-CID
STOP-OPS

COMMAND CODE: **ENT-CID-VC**
COMMAND NAME: **ENTER COMMUNICATIONS INTERFACE
DEVICE VIRTUAL CHANNEL**

PURPOSE

The ENT-CID-VC command creates a virtual channel entry for the specified X.25 CPORT (Control Port) and VCNUM (Virtual Channel Number) in the system's CID (Communication Interface Device) configuration database. The command defines the virtual channel number as a SVC (Switched Virtual Circuit) or a PVC (Permanent Virtual Circuit). For PVC channels, the PVC's LCN (Logical Channel Number) is assigned along with any UID automatic login for the PVC. For outgoing SVC channels, the X.25 Call Out Address and Autonomous Message Inactivity Timer is assigned along with the UID automatic login for the outgoing SVC. The virtual channel is configured with the specified provisioning by executing a RST-CID command for the specified CPORT.

Each CPORT provisioned as an X.25 port can be configured with up to eight PVCs, incoming or outgoing SVCs, or a combination of both.

An ENT-CID-VC command is denied if:

- The specified CPORT is not provisioned as an X.25 port (via ENT-CID with PROTOCOL of X25).
- A VCTYPE of PVC is entered and the specified LCN value is greater-than the HIPVC value in ED-CID-OSPORT.
- An invalid parameter value or combination of parameter values is entered.

User login security is removed by provisioning an X.25 PVC with automatic UID login since anyone with access to the communication interface has the same command privileges as the UID provisioned in the AUTOIN parameter.

A virtual channel connected to a printer terminal (refer to the TYPE parameter in the ENT-USER command) should be configured for automatic UID login. If the virtual channel is configured for a normal login sequence (AUTOIN of %), the system waits for an ACT-USER command (indefinitely if an output-only printer terminal is connected).

INPUT FORMAT

ENT-CID-VC: [TID] : CPORT, VCNUM: [CTAG] : : VCTYPE, [LCN] , [AUTOIN] , [X25COA] ,
[AMSGITMR] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CPORT	{2-5, 7-12} Default: Entry Required Addressing: None Description: Control Port, specifies the physical communication port number on the APS control system.
VCNUM	{1-8} Default: Entry Required Addressing: None Description: Virtual Channel Number, specifies the X.25 virtual channel within the specified CPORT.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

VCTYPE	{PVC, SVC}	
	Default:	Entry Required
	Addressing:	None
	Description:	Virtual Circuit Type, specifies the type of virtual circuit for the indicated X.25 virtual channel. Values are:
	PVC	Permanent Virtual Circuit.
	SVC	Switched Virtual Circuit (incoming SVC if AUTOIN of %, outgoing SVC if AUTOIN of <UID>).
	Restrictions:	ENT-CID-VC is denied if VCTYPE of PVC is entered and an X25COA value or AMSGITMR value is entered. ENT-CID-VC is denied if VCTYPE of SVC and an LCN value is entered. ENT-CID-VC is denied if VCTYPE of SVC and AUTOIN of <UID> is entered and the TYPE parameter in ENT-USER is <i>not</i> PRN for the specified <UID>. ENT-CID-VC is denied if VCTYPE of SVC and AUTOIN of % is entered and an X25COA value or AMSGITMR value is entered.
LCN	{1-8, <NoVal>}	
	Default:	Entry required (for VCTYPE of PVC) <NoVal> (for VCTYPE of SVC)
	Addressing:	None
	Description:	Logical Channel Number, specifies the logical channel number for an X.25 PVC. Values are:
	1-8	Logical Channel Number 1 through 8 for VCTYPE of PVC.
	<NoVal>	No Value, LCN must be unpopulated if VCTYPE of SVC is entered.
	Restrictions:	ENT-CID-VC is denied if an LCN value greater-than the HIPVC value in ED-CID-OSPORT is entered. ENT-CID-VC is denied if an LCN value and VCTYPE of SVC is entered.
AUTOIN	{%, <UID>}	
	Default:	{%}
	Addressing:	None
	Description:	Automatic Login, specifies whether a User ID is automatically logged-in on the specified PVC or outgoing SVC channel. Values are:
	%	No Automatic Login, a normal log-on sequence (via ACT-USER) is required to access the system, or UID Auto Login for X.25 incoming SVCs is specified by ENT-OSADDR-SITE.
	<UID>	UID Automatically Logged-on, the entered User ID (UID) is automatically logged-on when the outgoing SVC or PVC channel is in service.
	Restrictions:	ENT-CID-VC is denied if AUTOIN of <UID> and VCTYPE of SVC is entered and the TYPE parameter in ENT-USER is <i>not</i> PRN for the specified <UID>. ENT-CID-VC is denied if AUTOIN of % and VCTYPE of SVC is entered and an X25COA value or AMSGITMR value is entered.

X25COA	{<1–15 INTEGER X.25_CALL_OUT_ADDRESS>, <NoVal>}
Default:	Entry required (for VCTYPE of SVC and AUTOIN of <UID>) <NoVal> (for VCTYPE of PVC, or VCTYPE of SVC and AUTOIN of %)
Addressing:	None
Description:	X.25 Call Out Address, specifies the X.25 Call Out Address of the called DTE for outgoing SVCs. Leading zeros are not truncated. Values are: <CALL_OUT_ADDRESS> 1–15 Integer X.25 Call Out Address. <NoVal> No Value, X25COA must be unpopulated for VCTYPE of PVC, or VCTYPE of SVC and AUTOIN of %.
Restrictions:	ENT–CID–VC is denied if an X25COA value is entered and VCTYPE of PVC, or VCTYPE of SVC and AUTOIN of % is entered.
AMSGITMR	{15–3600, <NoVal>}
Default:	{15} (for VCTYPE of SVC and AUTOIN of <UID>) <NoVal> (for VCTYPE of PVC, or VCTYPE of SVC and AUTOIN of %)
Addressing:	None
Description:	Autonomous (X.25 Call Out) Message Inactivity Timer, specifies the number of seconds the system waits for another autonomous message before terminating the X.25 outgoing SVC session. Expiration of the AMSGITMR indicates that no autonomous messages in the output message queue remain to be transmitted. Values are: 15–3600 15 to 3600 seconds. <NoVal> No Value, AMSGITMR must be unpopulated for VCTYPE of PVC, or VCTYPE of SVC and AUTOIN of %.
Restrictions:	ENT–CID–VC is denied if an AMSGITMR value is entered and VCTYPE of PVC, or VCTYPE of SVC and AUTOIN of % is entered.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
/* <CPORT>, <VCNUM>, <VCTYPE>, [<LCN>], <AUTOIN>[, <X25COA>, <AMSGITMR>] */
/* Warning: REMOVE and RESTORE (RMV-CID/RST-CID) to use OS parameters */
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

OUTPUT PARAMETERS

CPORT	{2–5, 7–12} Control Port, identifies the physical control port number.
VCNUM	{1–8} Virtual Channel Number, identifies the X.25 virtual channel within the specified X.25 CPORT.
VCTYPE	{PVC, SVC} Virtual Circuit Type, identifies the type of virtual circuit for the indicated X.25 virtual channel. Values are: PVC Permanent Virtual Circuit. SVC Switched Virtual Circuit (incoming SVC if AUTOIN of %, outgoing SVC if AUTOIN of <UID>).
LCN	{1–8, <NoVal>} Logical Channel Number, identifies the logical channel number for the X.25 PVC. A value for LCN is only returned if VCTYPE is PVC.

AUTOIN	{%, <UID>}
	Automatic Login, indicates whether a User ID is automatically logged-in on the PVC or outgoing SVC virtual channel. Values are:
	% No Automatic Login, a normal log-on sequence (via ACT-USER) is required to access the system, or UID Auto Login for X.25 incoming SVCs is specified by ENT-OSADDR-SITE.
	<UID> UID Automatically Logged-in, the entered User ID (UID) is automatically logged-in whenever the PVC or outgoing SVC is in service.
X25COA	{<1-15 INTEGER X.25_CALL_OUT_ADDRESS>, <NoVal>}
	X.25 Call Out Address, indicates the X.25 Call Out Address of the called DTE for outgoing SVCs. A value for X25COA is only returned if VCTYPE is SVC and AUTOIN is <UID>.
AMSGITMR	{15-3600, <NoVal>}
	Autonomous (X.25 Call Out) Message Inactivity Timer, indicates the number of seconds the system waits for another autonomous message before terminating the X.25 outgoing SVC session. Expiration of the AMSGITMR indicates that no autonomous messages in the output message queue remain to be transmitted. A value for AMSGITMR is only returned if VCTYPE is SVC and AUTOIN is <UID>.

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Optional Suggested Action Text> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV Input, Data Not Valid

IPNV Input, Parameter Not Valid
 /* Illegal Input: LCN */
 /* AUTO LOGIN (Illegal AUTOIN) */
 /* AUTO LOGIN (Duplicate AUTOIN in OSADDR) */
 /* AUTO LOGIN (Duplicate AUTOIN in OSDB) */
 /* AUTO LOGIN (Non-Existent AUTOIN) */
 /* AUTO LOGIN (TABS user on non-TABS CID) */
 /* AUTO LOGIN (NON-TABS user on TABS CID) */
 /* Too many Incoming and Two-Way SVCs specified */
 /* LCN matches an existing PVC's LCN */
 /* LCN cannot be larger than HIPVC */
 /* Auto Login cannot be assigned to SVCs with this command */
 /* Invalid CID <CPORT> entered */
 /* CID <CPORT> does not exist */
 /* X25 vc <VCNUM> does not exist */
 /* This CID is pending removal */
 /* This CID <CPORT> is not an X.25 vc */
 /* The user on this CID is in the process of logging out */
 /* X25 vc <VCNUM> already exists */
 /* This CID (CPORT) is not configured for X.25 */
 SDBE Status, internal Data Base Error
 /* Unable to write to OSDB – status = <status number> */

EXAMPLES

In the following example, CPORT 2, virtual channel 1 is provisioned as an incoming SVC.

```
ENT-CID-VC::2,1::SVC;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P17022. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P17022 COMPLD
/* 2,1,SVC,,% */
/* Warning: REMOVE and RESTORE (RMV-CID/RST-CID) to use OS parameters */
/* ENT-CID-VC::2,1::SVC [P17022] (1) */
;
```

In the following example, CPORT 2, virtual channel 3 is provisioned as a PVC channel on logical channel 1 with no UID auto-login.

```
ENT-CID-VC::2,3::PVC,1;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P17025. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P17025 COMPLD
/* 2,3,PVC,1,% */
/* Warning: REMOVE and RESTORE (RMV-CID/RST-CID) to use OS parameters */
/* ENT-CID-VC::2,3::PVC,1 [P17025] (1) */
;
```

In the following example, CPORT 2, virtual channel 5 is provisioned as an outgoing SVC with an auto-login UID of AUTO_MSG_OUT and an X25COA of 9085551234.

```
ENT-CID-VC::2,5:::SVC,,AUTO_MSG_OUT,9085551234;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P17029. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P17029 COMPLD
/* 2,5,SVC,,AUTO_MSG_OUT,9085551234,15 */
/* Warning: REMOVE and RESTORE (RMV-CID/RST-CID) to use OS parameters */
/* ENT-CID-VC::2,5:::SVC,,AUTO_MSG_OUT,9085551234 [P17029] (1) */
;
```

RELATED COMMANDS

DLT-CID
DLT-CID-VC
DLT-OSADDR-SITE
ED-CID
ED-CID-OSPORT
ED-CID-VC
ED-OSADDR-SITE
ED-PRMTR-SITE
ENT-CID
ENT-OSADDR-SITE
RMV-CID
RST-CID
RTRV-CID
RTRV-OSADDR-SITE
RTRV-PRMTR-SITE
START-CID
STOP-CID

COMMAND CODE: **ENT-CONF-T1**
COMMAND NAME: **ENTER CONFERENCE T1**

PURPOSE

The ENT-CONF-T1 command creates and establishes a one-way DS1 cross-connection from the DS1 or VT1.5 port specified as the conference MASTER (the receive side, from the network, head of the broadcast conference connection) to the specified DS1 or VT1.5 TO (transmit side, to the network, tail of the broadcast conference connection) port. However both the MASTER and TO cannot be the address of a VT1.5, in which case ENT-CONF-VT1 should be used.

If a conference cross-connection already exists, ENT-CONF-T1 adds a new one-way connection from the specified conference head (MASTER) to the specified TO port.

Each conference head (MASTER) port can have a maximum of 56 one-way cross-connection conference tails. A single one-way cross-connection can be established between any conference tail to the conference head with the ENT-CRS-T1 command. Twenty-eight conference heads (MASTERS) can exist simultaneously.

Executing an ENT-CONF-T1 causes a primary state transition for the created cross-connect entity from

- Non-Existent to IS
- Non-Existent to OOS-AU

Executing an ENT-CONF-T1 causes a secondary state transition for the ports involved in the cross-connection as follows:

- A secondary state of BUSY is applied to the MASTER when all 56 legs are connected and one leg is connected back to the MASTER, otherwise an SST of ACT is applied to the MASTER.
- A secondary state of ACT is applied to the TO port (the leg) when it's connected.

(Refer to Appendix G, State Transitions for additional information on state values and state transitions.)

Whether a VT1.5 leg to a DS1 head or DS1 leg to a VT1.5 head is allowed depends on the port provisioning as indicated below:

MASTER Port Type	MASTER Port STSMAP	MASTER Port VTMAP	TO Port Type	TO Port STSMAP	TO Port VTMAP	ENT-CONF-T1
VT1	VTFLOAT	Any Value	VT1	VTFLOAT	Any Value	Denied ¹
VT1	VTFLOAT	ALL, VTBYTE	T3T1 or T1	N/A	N/A	Denied
VT1	VTFLOAT	ALL, VTBYTE	EC1T1	ASYNC	N/A	Denied
VT1	VTFLOAT	ALL, VTBYTE	OC3T1 or OC12T1	ASYNC	N/A	Denied
VT1	VTFLOAT	ASYNC	T3T1 or T1	N/A	N/A	Allowed
VT1	VTFLOAT	ASYNC	EC1T1	ASYNC	N/A	Allowed
VT1	VTFLOAT	ASYNC	OC3T1 or OC12T1	ASYNC	N/A	Allowed
T3T1 or T1	N/A	N/A	T3T1 or T1	N/A	N/A	Allowed
T3T1 or T1	N/A	N/A	EC1T1	ASYNC	N/A	Allowed
T3T1 or T1	N/A	N/A	OC3T1 or OC12T1	ASYNC	N/A	Allowed
T3T1 or T1	N/A	N/A	VT1	VTFLOAT	ASYNC	Allowed

MASTER Port Type	MASTER Port STSMAP	MASTER Port VTMAP	TO Port Type	TO Port STSMAP	TO Port VTMAP	ENT-CONF-T1
T3T1 or T1	N/A	N/A	VT1	VTFLOAT	ALL, VTBYTE	Denied
EC1T1, OC3T1, or OC12T1	ASYN	N/A	T3T1 or T1	N/A	N/A	Allowed
EC1T1, OC3T1, or OC12T1	ASYN	N/A	EC1T1	ASYN	N/A	Allowed
EC1T1, OC3T1, or OC12T1	ASYN	N/A	OC3T1 or OC12T1	ASYN	N/A	Allowed
EC1T1, OC3T1, or OC12T1	ASYN	N/A	VT1	VTFLOAT	ASYN	Allowed
EC1T1, OC3T1, or OC12T1	ASYN	N/A	VT1	VTFLOAT	ALL, VTBYTE	Denied

Note: N/A= Not Applicable. 1 = Use ENT-CONF-VT1 command.

ENT-CONF-T1 is denied if:

- The MASTER and TO port are not provisioned in a valid combination per the table above.
- Either of the specified MASTER or TO DS1 ports are not provisioned (using ENT-T1).
- Either of the specified MASTER or TO DS1 ports are previously one-way or two-way cross-connected.
- The specified MASTER and TO values are identical (the same DS1 port).
- Both the specified MASTER and TO refer to VT1.5.
- The specified MASTER port is a conference tail of another conference connection.
- The specified TO port is a conference head or tail of another conference connection.
- Either of the specified MASTER or TO ports are in a loopback (an SST of LPBK), are in a test access operation (an SST of TS), are in a roll operation (an SST of ROLL), or have C-bit loopback enabled or established (a DS1 Condition Type of ALWCBLPBK or RVCBLPBK).
- The specified MASTER or TO port is an embedded DS1 and the supporting DS3 is in a loopback (a DS3 SST of LPBK) or cross-connected (a DS3 SST of ACT or BUSY)..
- The specified MASTER or TO port is an embedded VT1.5 and the supporting STS1/OC3/OC12 is in loopback (an SST of LPBK)..
- Either of the specified MASTER or TO DS1 ports are provisioned as an Idle Signal Source port or as part of a Test Access Port Pair (FAD A or FAD B).
- The specified conference connection requires a first-stage matrix bridge connection and the first-stage matrix time slots reserved for broadcast connections are all in use (refer to RTRV-POOL).
- Either the specified MASTER or TO port is defined as part of an OC-3/OC-12 ring (using ENT-RNG-OC3/OC12).
- An invalid parameter value is entered.
- The conference head already has 56 tails.
- There are already 28 conference heads in the system.
- If RDL=Y is specified, and either the MASTER or TO port is a T1 with an ALWCBLPBK condition set.

INPUT FORMAT

ENT-CONF-T1 : [TID] : MASTER, TO : [CTAG] : : : [CKTID=] [, RDL=] ;

INPUT PARAMETERS

TID	<p>< 1-20 VALID TID CHARACTERS ></p> <p>Default: <SID></p> <p>Addressing: None</p> <p>Description: Target Identifier, specifies the network node TID for the command.</p>
MASTER	<p>DS1_AID:</p> <p>{T1-{1-59392}} (T1-DS1#)</p> <p>{T3T1-{1-4800}-{1-28}} (T3T1-DS3#-DS1#)</p> <p>{EC1T1-{1-3840}-{1-28}} (EC1T1-EC1/STS1/DS3#-DS1#)</p> <p>{OC3T1-{1-2240}-{1-3}-{1-28}} (OC3T1-OC3#-STS1/DS3#-DS1#)</p> <p>{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}} (OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)</p> <p>VT1_AID:</p> <p>{EC1VT1-{1-3840}-{1-7}-{1-4}} (EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)</p> <p>{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}} (OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)</p> <p>{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}} (OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)</p> <p>Default: Entry Required</p> <p>Addressing: None</p> <p>Description: DS1 or VT1 AID. Identifies the head (receive side from the network) of a broadcast conference connection. A one-way cross-connection is established from the conference head to the conference tail.</p>
TO	<p>DS1_AID:</p> <p>{T1-{1-59392}} (T1-DS1#)</p> <p>{T3T1-{1-4800}-{1-28}} (T3T1-DS3#-DS1#)</p> <p>{EC1T1-{1-3840}-{1-28}} (EC1T1-EC1/STS1/DS3#-DS1#)</p> <p>{OC3T1-{1-2240}-{1-3}-{1-28}} (OC3T1-OC3#-STS1/DS3#-DS1#)</p> <p>{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}} (OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)</p> <p>VT1_AID:</p> <p>{EC1VT1-{1-3840}-{1-7}-{1-4}} (EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)</p> <p>{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}} (OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)</p> <p>{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}} (OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)</p> <p>Default: Entry Required</p> <p>Addressing: &&-ranging and &-grouping</p> <p>Description: DS1 or VT1 AID. Identifies the tail (transmit side to the network) of a broadcast conference connection. A one-way cross-connection is established from the conference head to the conference tail.</p>
CTAG	<p>< 1-6 VALID CTAG CHARACTERS ></p> <p>Default: < System assigned CTAG value ></p> <p>Addressing: None</p> <p>Description: Correlation Tag, associates input command with its output responses.</p>
CKTID=	<p>< 0-45 VALID TID CHARACTERS ></p> <p>Default: <No Entry></p> <p>Addressing: None</p> <p>Description: MASTER and TO Circuit ID. 0 to 45 ASCII characters within enclosing double quotes. Semicolon, asterisk, greater-than, less-than, double quote, and backslash characters are prohibited. Empty double quotes (ie "") indicate a NULL string.</p>
RDL=	<p>{N, Y}</p> <p>Default: {N}</p> <p>Addressing: None</p> <p>Description: N = connection is not redlined, Y = connection is redlined.</p>

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid
IIAC	Input, Invalid ACcess identifier
	/* CONF not allowed on Synchronous VTs */
SAIS	Status, Already In Service
SARB	Status, All Resources Busy
SDBE	Status, internal Data Base Error
	/* Failed to get supporting entity records for TP */
	/* Failed to Update Sptg Tps */
SDNC	Status, Data Not Consistent
SNVS	Status, Not in Valid State
	/* CONF not allowed on fast channel ports */
	/* Cannot conference with supporting TP connected */
	/* Cannot conference with supporting TP in loopback */
	/* Cannot conference with supporting TP in an OC ring */
SROF	Status, Requested Operation Failed
SRQN	Status, invalid ReQuest
SSRE	Status, System Resources Exceeded

EXAMPLES

In the following example, a one-way broadcast conference connection is established between port T3T1-1-25 (MASTER) and each of the ports T3T1-12-8, T3T1-12-9, T3T1-12-10, and T3T1-15-28.

```
ENT-CONF-T1::T3T1-1-25,T3T1-12-8&&-10&T3T1-15-28;
```

In the following example, a one-way cross-connection is added as a new tail to the conference connection in the above example from the existing conference head port T3T1-1-25 (MASTER) to port T3T1-13-2 (TO). This cross-connection is assigned the circuit ID of TESTCKT1.

```
ENT-CONF-T1::T3T1-1-25,T3T1-13-2:::CKTID="TESTCKT1"
```

RELATED COMMANDS

DLT-CONF-T1
DLT-CONF-VT1
DLT-CRS-T1
DLT-CRS-VT1
ED-CONF-VT1
ENT-CONF-VT1
ENT-CRS-T1
ENT-CRS-VT1
ENT-T1
ENT-VT1
RTRV-CKTID
RTRV-CONF-T1
RTRV-CONF-VT1
RTRV-CRS
RTRV-CRS-T1
RTRV-CRS-VT1
RTRV-POOL
RTRV-RDL-ALL
RTRV-T1
RTRV-VT1

COMMAND CODE: **ENT-CONF-VT1**
COMMAND NAME: **ENTER CONFERENCE VT1**

PURPOSE

The ENT-CONF-VT1 command creates and establishes a one-way VT1.5 cross-connection from the VT1.5 port specified as the conference MASTER (the receive side, from the network, head of the broadcast conference connection) to the specified VT1.5 TO (transmit side, to the network, tail of the broadcast conference connection) port.

If a conference cross-connection already exists, ENT-CONF-VT1 adds a new one-way connection from the specified conference head (MASTER) to the specified TO port.

Each conference head (MASTER) port can have a maximum of 56 one-way cross-connection conference tails. A single one-way cross-connection can be established between any conference tail to the conference head with the ENT-CRS-VT1 command. Twenty-eight conference heads (MASTERS) can exist simultaneously.

Executing an ENT-CONF-VT1 causes a primary state transition for the created cross-connect entity from

- Non-Existent to IS
- Non-Existent to OOS-AU

Executing an ENT-CONF-VT1 causes a secondary state transition for the ports involved in the cross-connection as follows:

- A secondary state of BUSY is applied to the MASTER when all 56 legs are connected and one leg is connected back to the MASTER, otherwise an SST of ACT is applied to the MASTER.
- A secondary state of ACT is applied to the TO port (the leg) when it's connected.

(Refer to Appendix G, State Transitions for additional information on state values and state transitions.)

Whether a VT1.5 to VT1.5 connection is allowed depends on the port provisioning as indicated below:

MASTER Port Type	MASTER Port STSMAP	MASTER Port VTMAP	TO Port Type	TO Port STSMAP	TO Port VTMAP	ENT-CONF-VT1
VT1	VTFLOAT	Any Value	VT1	VTFLOAT	Any Value	Allowed
VT1	VTFLOAT	ALL, VTBYTE	T3T1 or T1	N/A	N/A	Denied
VT1	VTFLOAT	ALL, VTBYTE	EC1T1	ASYNC	N/A	Denied
VT1	VTFLOAT	ALL, VTBYTE	OC3T1 or OC12T1	ASYNC	N/A	Denied
VT1	VTFLOAT	ASYNC	T3T1 or T1	N/A	N/A	Denied ¹
VT1	VTFLOAT	ASYNC	EC1T1	ASYNC	N/A	Denied ¹
VT1	VTFLOAT	ASYNC	OC3T1 or OC12T1	ASYNC	N/A	Denied ¹

Note: N/A= Not Applicable. 1 = Use ENT-CONF-T1 command.

ENT-CONF-VT1 is denied if:

- The MASTER and TO port are not provisioned in a valid combination per the table above.
- Either of the specified MASTER or TO VT1.5 ports are not provisioned (using ENT-VT1).
- Either of the specified MASTER or TO VT1.5 ports are previously one-way or two-way cross-connected.
- The specified MASTER and TO values are identical (the same VT1.5 port).

- The specified MASTER and TO do not refer to VT1.5.
- The specified MASTER port is a conference tail of another conference connection.
- The specified TO port is a conference head or tail of another conference connection.
- Either of the specified MASTER or TO ports are in a loopback (an SST of LPBK), are in a test access operation (an SST of TS).
- The supporting STS-1/OC-3/OC-12 of the MASTER or TO port is in a loopback (an SST of LPBK).
- The supporting STS-1 of the MASTER or TO port is intact cross-connected (an STS-1 SST of ACT or BUSY).
- The specified conference connection requires a first-stage matrix bridge connection and the first-stage matrix time slots reserved for broadcast connections are all in use (refer to RTRV-POOL).
- Either the specified MASTER or TO port is defined as part of an OC-3/OC-12 ring (using ENT-RNG-OC3 or ENT-RNG-OC12).
- An invalid parameter value is entered.
- The conference head already has 56 tails.
- There are already 28 conference heads in the system.

INPUT FORMAT

ENT-CONF-VT1 : [TID] : MASTER, TO : [CTAG] : : : [CKTID=] [, RDL=] ;

INPUT PARAMETERS

TID	<p>< 1-20 VALID TID CHARACTERS ></p> <p>Default: <SID></p> <p>Addressing: None</p> <p>Description: Target Identifier, specifies the network node TID for the command.</p>
MASTER	<p>VT1_AID:</p> <p>{EC1VT1-{1-3840}-{1-7}-{1-4}} (EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)</p> <p>{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}} (OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)</p> <p>{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}} (OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)</p> <p>Default: Entry Required</p> <p>Addressing: None</p> <p>Description: VT1 AID. Identifies the head (receive side from the network) of a broadcast conference connection. A one-way cross-connection is established from the conference head to the conference tail.</p>
TO	<p>VT1_AID:</p> <p>{EC1VT1-{1-3840}-{1-7}-{1-4}} (EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)</p> <p>{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}} (OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)</p> <p>{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}} (OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)</p> <p>Default: Entry Required</p> <p>Addressing: &&-ranging and &-grouping</p> <p>Description: VT1 AID. Identifies the tail (transmit side to the network) of a broadcast conference connection. A one-way cross-connection is established from the conference head to the conference tail.</p>
CTAG	<p>< 1-6 VALID CTAG CHARACTERS ></p> <p>Default: < System assigned CTAG value ></p> <p>Addressing: None</p> <p>Description: Correlation Tag, associates input command with its output responses.</p>

CKTID= < 0–45 VALID CKTID CHARACTERS >
Default: < No Entry >
Addressing: None
Description: MASTER and TO Circuit ID. 0 to 45 ASCII characters within enclosing double quotes. Semicolon, asterisk, greater-than, less-than, double quote, and backslash characters are prohibited. Empty double quotes (ie "") indicate a NULL string.

RDL= {N, Y}
Default: {N}
Addressing: None
Description: N = connection is not redlined, Y = connection is redlined.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid
IIAC	Input, Invalid ACcess identifier
SAIS	Status, Already In Service
SARB	Status, All Resources Busy
SDBE	Status, internal Data Base Error
	/* Failed to get supporting entity records for TP */
	/* Failed to Update Sptg Tps */
SDNC	Status, Data Not Consistent
SNVS	Status, Not in Valid State
	/* Cannot conference with supporting TP in loopback */
	/* Cannot conference with supporting TP in an OC ring */
SROF	Status, Requested Operation Failed
SRQN	Status, invalid ReQuest
SSRE	Status, System Resources Exceeded

EXAMPLES

In the following example, a one-way broadcast conference connection is established between port EC1VT1-1-7-4 (MASTER) and each of the ports EC1VT1-12-3-1, EC1VT1-12-3-2, EC1VT1-12-3-3, and EC1VT1-15-1-2.

```
ENT-CONF-VT1::EC1VT1-1-7-4,EC1VT1-12-3-1&&-3&EC1VT1-15-1-2;
```

In the following example, a one-way cross-connection is added as a new tail to the conference connection in the above example from the existing conference head port EC1VT1-1-7-4, a VT1.5 embedded within an EC1 (MASTER) to port OC3VT1-13-3-7-4, a VT1.5 embedded within an OC-3 (TO). This added cross-connection is redlined and assigned a circuit ID of TESTCKT7.

```
ENT-CONF-VT1::EC1VT1-1-7-4,OC3VT1-13-3-7-4:::CKTID="TESTCKT7",RDL=Y;
```

RELATED COMMANDS

```
DLT-CONF-T1
DLT-CONF-VT1
DLT-CRS-T1
DLT-CRS-VT1
ENT-CONF-T1
ENT-CONF-VT1
ENT-CRS-T1
ENT-CRS-VT1
ENT-T1
ENT-VT1
RTRV-CKTID
RTRV-CONF-T1
RTRV-CONF-VT1
RTRV-CRS
RTRV-CRS-T1
RTRV-CRS-VT1
RTRV-POOL
RTRV-RDL-ALL
RTRV-T1
RTRV-VT1
```


COMMAND CODE: **ENT-CRS-STs1**
COMMAND NAME: **ENTER CROSS-CONNECTION STs1**

PURPOSE

The ENT-CRS-STs1 command creates a cross-connection entity and establishes a one-way, two-way, two-way path ring or two-way drop and continue cross-connection between the specified STs1 ports.

If CCT of 1WAY is specified, a one-way cross-connect is established between the receive side (from the network) of the FROM port and the transmit side (to the network) of the TO port. A one-way cross-connect can be established between the receive and transmit side of the same port (FROM and TO are identical thereby establishing a loopback through the system's cross-connect matrix).

If CCT of 2WAY is specified, a two-way cross-connect is established between the FROM and TO ports. A pass-through cross-connect can be established between the FROM and TO ports if both STs1s belong to the same OC3 or OC12 ring pair (refer to ENT-RNG-OC3 or ENT-RNG-OC12) and are both in the same time-slot. An unprotected cross-connect can be established between the FROM and TO ports if one STs1 is embedded within a ring OC3/OC12 and the other STs1 is embedded within a non-ring (linear) OC3, OC12, or EC1, or another ring OC3/OC12.

If CCT of 2WAYPR is specified, a two-way path ring cross-connect is established between the FROM and TO ports. A two-way path ring cross-connect can be established as a nonterminated cross-connect if one STs1 is embedded within a ring OC3/OC12, and the other STs1 is embedded in an EC1, odd non-ring OC3/OC12, or ring OC3/OC12.

The system will allow a 2WAYPR connection even when the addressed path or its mate is involved in a matrix loopback connection.

If CCT of 2WAYDC is specified, a two-way drop and continue cross-connect is established between the FROM and TO ports. A two-way drop and continue cross-connect can be established as a nonterminated cross-connect between an STs1 embedded within a ring OC3/OC12 and an STs1 embedded in an EC1, odd non-ring OC3/OC12, or ring OC3/OC12.

Executing an ENT-CRS-STs1 causes a state transition for the created cross-connect entity from

- Non-Existent to IS
- Non-Existent to OOS-AU

Executing an ENT-CRS-STs1 causes following state transition for the ports involved in the cross connect.

- If this command creates a one-way cross connect, the port will carry an ACT secondary state.
- If this command creates a two-way cross connection or a one-way cross connection to itself, the ports will carry BUSY secondary state.
- The containing port (EC1, OC3, or OC12) in which this STs1 is contained will have TRM secondary state.
- If this command creates a two-way path or a two-way drop and continue ring cross connection, a non-revertive switching STs1 FFP will be created. The STs1 specified in the command shall be the preferred path and the ring mate STs1 shall be the alternate path.

(Refer to Appendix G, State Transitions for additional information on state values and state transitions.)

If CCT of 1WAY and RDL=Y are specified while there is an existing TO-FROM 1WAY connection with RDL=N status, the 2WAY connection that results will have RDL=Y (redlined) status.

If CCT of 1WAY is specified but RDL status is not specified while there is an existing TO-FROM 1WAY connection with RDL=Y status, both connections will have RDL=Y (redlined) status.

If a CKTID or CKTIDTF parameter is specified for only one side (TO-FROM or FROM-TO) of a 2WAY cross-connection, both sides shall inherit this ID parameter.

If ampersand ranging (&&) is used for an AID specifying CKTID or CKTIDTF, the same CKTID or CKTIDTF value shall be applied to each connection within the AID range.

If ampersand ranging (&&) is used for an AID specifying an RDL value, the same RDL value shall be applied to each connection within the AID range.

Although STS1s with different STSMAP are allowed to be cross connected, the system does not perform any mapping conversion. The system just allows what comes in on the input port to go out of the output port.

ENT-CRS-STs1 is denied if:

- Either of the specified FROM or TO STS1 ports are not provisioned (using ENT-STs1).
- The STS1 has VT1.5 assigned under it, i.e. STS1 has SDEE secondary state.
- The STS1 is in a TRM secondary state, because its subordinate objects are cross connected.
- The specified cross-connection already exists.
- The specified FROM and TO values are identical (the same STS1 port) and CCT of 2WAY is specified.
- The mate STS1 of the specified FROM or TO STS1 port within the ring OC3/OC12 is not provisioned and CCT of 2WAYPR or 2WAYDC is specified.
- The specified STS1 embedded within a ring OC3/OC12 is even and CCT of 2WAY is specified.
- Either of the specified FROM or TO port has all cross-connect capacity utilized (an SST of BUSY), or is in a test access operation (an SST of TS).
- The specified FROM or TO port is an embedded STS1 and the supporting EC1, OC3, or OC12 is in a loopback (an SST of LPBK).
- The specified FROM or TO port has subordinated VT1.5/DS1 objects in a loopback (an SST of LPBK) or in a test access operation (an SST of TS).
- The specified FROM or TO port has DS1 objects embedded within DS3 provisioned objects and that DS1 has C-bit loopback enabled or established (a DS1 Condition Type of ALWCBLPBK or RCVCLPBK).
- A one-way bridge connection is specified.
- Both the FROM and TO do not specify STS1 AID.
- The specified FROM and TO values are identical (the same STS1 port) and an ENT-RNG-OC3 or ENT-RNG-OC12 has been completed for that supporting OC3 or OC12, respectively.
- An invalid parameter value or combination of parameter values is entered.
- The system will not allow a 2WAYDC connection when the addressed path or its mate is involved in a matrix loopback connection.
- CCT=2WAYPR, the odd STS1 of the ring OCn is in a matrix loopback, and the odd+1 is not OOS-MA or OOS-AUMA.

INPUT FORMAT

ENT-CRS-STs1: [TID] : **FROM,TO** : [CTAG] : : [CCT] : [CKTID=] [,CKTIDTF=] [,RDL=] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >		
	Default:	<SID>	
	Addressing:	None	
	Description:	Target Identifier, specifies the network node TID for the command.	
FROM	STS1_AID;		
	{EC1STS1-{1-3840}}	(EC1STS1-EC1/STS1#)	
	{OC3STS1-{1-2240}-{1-3}}	(OC3STS1-OC3#-STS1#)	
	{OC12STS1-{1-560}-{1-4}-{1-3}}	(OC12STS1-OC12#-STM1#-STS1#)	
	Default:	Entry Required	
	Addressing:	&&-ranging and &-grouping	
	Description:	STS1 AID. If CCT=1WAY, FROM identifies the receive side (from the network) of the cross-connection specified by the FROM,TO AID pair. If CCT=2WAY, 2WAYPR or 2WAYDC then either AID of the cross-connection may be used as the FROM AID.	
	Restrictions:	ENT-CRS-STS1 is denied if FROM and TO are identical and CCT of 2WAY is entered. ENT-CRS-STS1 is denied if FROM and TO both are not STS1. ENT-CRS-STS1 is denied if FROM or TO is not a ring OCnSTS1 and CCT of 2WAYPR/2WAYDC is entered. ENT-CRS-STS1 is denied if FROM or TO is part of a ring OC3/OC12 and CCT of 1WAY is entered.	

Value combinations are verified whether the value is determined from a default value or explicitly entered in the command.

TO	<p>STS1_AID:</p> <p>{EC1STS1-{1-3840}} (EC1STS1-EC1/STS1#)</p> <p>{OC3STS1-{1-2240}-{1-3}} (OC3STS1-OC3#-STS1#)</p> <p>{OC12STS1-{1-560}-{1-4}-{1-3}} (OC12STS1-OC12#-STM1#-STS1#)</p> <p>Default: Entry Required</p> <p>Addressing: &&-ranging and &-grouping</p> <p>Description: STS1 AID. If CCT=1WAY, TO identifies the transmit side (to the network) of the cross-connection specified by the FROM,TO AID pair. If CCT=2WAY, 2WAYPR or 2WAYDC then either AID of the cross-connection may be used as the TO AID.</p> <p>Restrictions: ENT-CRS-STs1 is denied if FROM and TO are identical and CCT of 2WAY is entered. ENT-CRS-STs1 is denied if FROM and TO both are not STS1. ENT-CRS-STs1 is denied if FROM or TO is not a ring OCnSTS1 and CCT of 2WAYPR/2WAYDC is entered. ENT-CRS-STs1 is denied if FROM or TO is part of a ring OC3/OC12 and CCT of 1WAY is entered. Value combinations are verified whether the value is determined from a default value or explicitly entered in the command.</p>								
CTAG	<p>< 1-6 VALID CTAG CHARACTERS ></p> <p>Default: < System assigned CTAG value ></p> <p>Addressing: None</p> <p>Description: Correlation Tag, associates input command with its output responses.</p>								
CCT	<p>{1WAY, 2WAY, 2WAYPR, 2WAYDC}</p> <p>Default: {2WAY}</p> <p>Addressing: None</p> <p>Description: Cross-Connect Type. Values are:</p> <table> <tr> <td>1WAY</td><td>One-Way (through matrix) non-ring connection</td></tr> <tr> <td>2WAY</td><td>Two-Way drop (through matrix) ring or non-ring connection or two-way pass-through ring connection</td></tr> <tr> <td>2WAYPR</td><td>Two-Way Path Protected Ring connection</td></tr> <tr> <td>2WAYDC</td><td>Two-Way Drop and Continue connection</td></tr> </table> <p>Restrictions: ENT-CRS-STs1 is denied if CCT of 2WAY is entered and FROM and TO are identical. ENT-CRS-STs1 is denied if CCT of 1WAY is entered and FROM or TO is part of a ring OC3/OC12. Value combinations are verified whether the value is determined from a default value or explicitly entered in the command.</p>	1WAY	One-Way (through matrix) non-ring connection	2WAY	Two-Way drop (through matrix) ring or non-ring connection or two-way pass-through ring connection	2WAYPR	Two-Way Path Protected Ring connection	2WAYDC	Two-Way Drop and Continue connection
1WAY	One-Way (through matrix) non-ring connection								
2WAY	Two-Way drop (through matrix) ring or non-ring connection or two-way pass-through ring connection								
2WAYPR	Two-Way Path Protected Ring connection								
2WAYDC	Two-Way Drop and Continue connection								
CKTID=	<p>< 0-45 VALID TID CHARACTERS ></p> <p>Default: < No Entry ></p> <p>Addressing: None</p> <p>Description: FROM and TO Circuit ID. 0 to 45 ASCII characters within enclosing double quotes. Semicolon, asterisk, greater-than, less-than, double quote, and backslash characters are prohibited. Empty double quotes (ie "") indicate a NULL string.</p>								

CKTIDTF=	< 0–45 VALID CKTIDTF CHARACTERS >
Default:	< No Entry >
Addressing:	None
Description:	To and FROM Circuit ID. 0 to 45 ASCII characters within enclosing double quotes. Semicolon, asterisk, greater-than, less-than, double quote, and backslash characters are prohibited. Empty double quotes (ie "") indicate a NULL string.
Restrictions:	ENT–CRS–STS1 is denied if a CKTIDTF is specified, no CKTID is specified, and CCT=2WAY/2WAYPR/2WAYDC. ENT–CRS–STS1 is denied if a CKTIDTF and CCT=1WAY are specified.
RDL=	{N, Y}
Default:	{N}
Addressing:	None
Description:	N = connection is not redlined, Y = connection is redlined.
Restrictions:	ENT–CRS–STS1 is denied if RDL=Y is specified while either FROM or TWO is under LPBK (loopback). ENT–CRS–STS1 is denied if a CCT of 1Way and RDL=N is specified for a FROM–TO connection while there is an existing 1WAY TO–FROM RDL=Y connection. ENT–CRS–STS1 is denied if RDL=Y is specified with CCT=2WAYDC for a continue path ring connection.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent
IDNV	Input, Data Not Valid
	/* Cannot connect a port that has FEMETHOD=ATTPOLL. */
IIAC	Input, Invalid ACcess identifier
SAIS	Status, Already In Service
SARB	Status, All Resources Busy
SDBE	Status, internal Data Base Error
	/*CONN Database Error: <ERROR-STRING> for <AID>*/
	/*Failed to Update Sptg Tps: Status=<ERROR-CODE>*/
	/*Failed to put B2 TP database record <RECORD-NUMBER> for status <ERROR-CODE>*/
	/*Failed to put CONN database record <RECORD-NUMBER> for status <ERROR-CODE>*/
	/*Failed to put TP database record <RECORD-NUMBER> for status <ERROR-CODE>*/
	/*RPP Database Error: <ERROR-STRING> for <AID>*/
	/*TP Database Error: <ERROR-STRING> for <AID>*/
SDNC	Status, Data Not Consistent
SNVS	Status, Not in Valid State
	/*Cannot connect a port that has embedded facilities in TS or LPBK states.*/
SROF	Status, Requested Operation Failed
SRQN	Status, invalid ReQuest
	/*Cannot connect a port that has embedded SRC ports.*/
	/*Cannot connect a port that has embedded TAPs.*/
	/*Cannot connect two ports in MTRX loopback*/
	/*One Ring Port in MTRX LPBK, The Other In-Service*/
	/* Ring 2 Port is in MTRX loopback */
SSRE	Status, System Resources Exceeded

EXAMPLES

In the following example, a one-way STS1 cross-connection is established between ports OC3STS1-1-3, an STS1 embedded within an OC3 (FROM) and EC1STS1-6, an STS1 embedded within an EC1 (TO).

```
ENT-CRS-STs1:OC3STS1-1-3,EC1STS1-6:::1WAY;
```

In the following example, a two-way STS1 cross-connection is established between ports OC3STS1-25-1 and EC1STS1-12. The connection is redlined and assigned a circuit ID of TSTCRKT7.

```
ENT-CRS-STs1:EC1STS1-12,OC3STS1-25-1:::CKTID="TSTCRKT7",RDL=Y;
```

In the following example, a two-way STS1 cross-connection is established between ports OC3STS1-25-1 and EC1STS1-12. The cross-connection is redlined. The FROM-TO side of the cross-connection is assigned a circuit ID of TSTCRKT7, and the TO-FROM side of the cross-connection is assigned a separate circuit ID of TSTCRKT7A.

```
ENT-CRS-STs1:EC1STS1-12,OC3STS1-25-1:::CKTID="TSTCRKT7",
CKTIDTF="TSTCRKT7A",RDL=Y;
```

In the following example, a two-way cross-connection is established between ports EC1STS1-1 and EC1STS1-6, between ports EC1STS1-2 and EC1STS1-12, and between ports EC1STS1-3 and EC1STS1-50, by using ranging.

```
ENT-CRS-STs1:EC1STS1-1&&-3,EC1STS1-6&-12&-50;
```

RELATED COMMANDS

DLT-CRS-STs1

ED-CRS-STs1

ED-FFP-STs1

ENT-CRS-T3

DLT-CRS-T3

ENT-STs1

RTRV-CKTID

RTRV-CRS

RTRV-CRS-ALL

RTRV-CRS-STs1

RTRV-CRS-T3

RTRV-RDL-ALL

RTRV-STs1

COMMAND CODE: **ENT-CRS-ST3C**
COMMAND NAME: **ENTER CROSS-CONNECTION STS-3C**

PURPOSE

The ENT-CRS-ST3C command creates a cross-connect entity and establishes a one-way or two-way cross-connection between the specified STS-3C ports.

If CCT of 1WAY is specified, a one-way cross-connect is established between the receive side (from the network) of the FROM port and the transmit side (to the network) of the TO port. A one-way cross-connect can be established between the receive and transmit side of the same port (FROM and TO are identical thereby establishing a loopback through the system's cross-connect matrix).

If CCT of 2WAY is specified, a two-way cross-connect is established between the FROM and TO ports.

Executing an ENT-CRS-ST3C causes a state transition for the created cross-connect entity from

- Non-Existent to IS
- Non-Existent to OOS-AU

Executing an ENT-CRS-ST3C causes following state transition for the ports involved in the cross connect.

- If this command creates a one-way cross connect, the port will carry an ACT secondary state.
- If this command creates a two-way cross connection or a one-way cross connection to itself, the ports will carry BUSY secondary state.
- The containing port (OC-3 or OC-12) in which this STS-3C is contained will have TRM secondary state.

(Refer to Appendix G, State Transitions for additional information on state values and state transitions.)

If CCT of 1WAY and RDL=Y are specified while there is an existing TO-FROM 1WAY connection with RDL=N status, the 2WAY connection that results will have RDL=Y (redlined) status.

If CCT of 1WAY is specified but RDL status is not specified while there is an existing TO-FROM 1WAY connection with RDL=Y status, both connections will have RDL=Y (redlined) status.

If ampersand ranging (&) is used for an AID specifying CKTID or CKTIDTF, the same CKTID or CKTIDTF value shall be applied to each connection within the AID range.

If ampersand ranging (&) is used for an AID specifying an RDL value, the same RDL value shall be applied to each connection within the AID range.

ENT-CRS-ST3C is denied if:

- Either of the specified FROM or TO STS-3C ports are not provisioned (using ENT-ST3C).
- The specified cross-connection already exists.
- The specified FROM and TO values are identical (the same STS-3C port) and CCT of 2WAY is specified.
- Either of the specified FROM or TO port has all cross-connect capacity utilized (an SST of BUSY).
- Both the FROM and TO do not specify an ST3C AID.
- If one of the FROM or TO specifies an STS-3C embedded within a protection OC-3 or OC-12.
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

ENT-CRS-ST3C: [TID] : **FROM, TO** : [CTAG] : : [CCT] : [CKTID=] [,CKTIDTF=] [,RDL=] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >
Default:	<SID>
Addressing:	None
Description:	Target Identifier, specifies the network node TID for the command.

FROM	<p>STS3C_AID; {OC3STS3C-{1-2240}} (OC3STS3C-OC3#/STS3C#) {OC12STS3C-{1-560}-{1-4}} (OC12STS3C-OC12#-STM1/STS3C#)</p> <p>Default: Entry Required</p> <p>Addressing: &&-ranging and &-grouping</p> <p>Description: STS3C AID. If CCT=1WAY, FROM identifies the receive side (from the network) of the cross-connection specified by the FROM,TO AID pair. If CCT=2WAY then either AID of the cross-connection may be used as the FROM AID.</p> <p>Restrictions: ENT-CRS-ST3C is denied if FROM and TO are identical and CCT of 2WAY is entered. ENT-CRS-ST3C is denied if FROM and TO both are not STS-3C. Value combinations are verified whether the value is determined from a default value or explicitly entered in the command.</p>
TO	<p>STS3C_AID; {OC3STS3C-{1-2240}} (OC3STS3C-OC3#/STS3C#) {OC12STS3C-{1-560}-{1-4}} (OC12STS3C-OC12#-STM1/STS3C#)</p> <p>Default: Entry Required</p> <p>Addressing: &&-ranging and &-grouping</p> <p>Description: STS3C AID. If CCT=1WAY, TO identifies the transmit side (to the network) of the cross-connection specified by the FROM,TO AID pair. If CCT=2WAY then either AID of the cross-connection may be used as the TO AID.</p> <p>Restrictions: ENT-CRS-ST3C is denied if FROM and TO are identical and CCT of 2WAY is entered. ENT-CRS-ST3C is denied if FROM and TO both are not STS-3C. Value combinations are verified whether the value is determined from a default value or explicitly entered in the command.</p>
CTAG	<p>< 1-6 VALID CTAG CHARACTERS ></p> <p>Default: < System assigned CTAG value ></p> <p>Addressing: None</p> <p>Description: Correlation Tag, associates input command with its output responses.</p>
CCT	<p>{1WAY, 2WAY}</p> <p>Default: {2WAY}</p> <p>Addressing: None</p> <p>Description: Cross-Connect Type. Values are: 1WAY One-Way. Establish a one-way cross-connection between the FROM and TO STS-3C ports. 2WAY Two-Way. Establish a two-way cross-connection between the FROM and TO STS-3C ports.</p> <p>Restrictions: ENT-CRS-ST3C is denied if CCT of 2WAY is entered and FROM and TO are identical. Value combinations are verified whether the value is determined from a default value or explicitly entered in the command.</p>
CKTID=	<p>< 0-45 VALID TID CHARACTERS ></p> <p>Default: < No Entry ></p> <p>Addressing: None</p> <p>Description: FROM and TO Circuit ID. 0 to 45 ASCII characters within enclosing double quotes. Semicolon, asterisk, greater-than, less-than, double quote, and backslash characters are prohibited. Empty double quotes (ie "") indicate a NULL string.</p>

CKTIDTF=	< 0–45 VALID CKTIDTF CHARACTERS >
Default:	< No Entry >
Addressing:	None
Description:	To and FROM Circuit ID. 0 to 45 ASCII characters within enclosing double quotes. Semicolon, asterisk, greater-than, less-than, double quote, and backslash characters are prohibited. Empty double quotes (ie "") indicate a NULL string.
Restrictions:	ENT–CRS–STS1 is denied if a CKTIDTF is specified, no CKTID is specified, and CCT=2WAY/2WAYPR/2WAYDC. ENT–CRS–STS1 is denied if a CKTIDTF and CCT=1WAY are specified.
RDL=	{N, Y}
Default:	{N}
Addressing:	None
Description:	N = connection is not redlined, Y = connection is redlined.
Restrictions:	ENT–CRS–STS3C is denied if RDL=Y is specified while either the FROM or TO STS3C is under LPBK (loopback). ENT–CRS–STS3C is denied if CCT=1Way and RDL=N is specified for a FROM–TO connection while there is an existing 1WAY TO–FROM RDL=Y connection.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent
IDNV	Input, Data Not Valid
IIAC	Input, Invalid ACcess identifier
SAIS	Status, Already In Service
SARB	Status, All Resources Busy
SDBE	Status, internal Data Base Error /*CONN Database Error: <ERROR-STRING> for <AID>*/ /*Failed to Update Sptg Tps: Status=<ERROR-CODE>*/ /*Failed to put B2 TP database record <RECORD-NUMBER> for status <ERROR-CODE>*/ /*Failed to put CONN database record <RECORD-NUMBER> for status <ERROR-CODE>*/ /*Failed to put TP database record <RECORD-NUMBER> for status <ERROR-CODE>*/ /*RPP Database Error: <ERROR-STRING> for <AID>*/ /*TP Database Error: <ERROR-STRING> for <AID>*/
SDNC	Status, Data Not Consistent
SNVS	Status, Not in Valid State /*Cannot connect STS3C ports in MTRX loopback*/
SROF	Status, Requested Operation Failed
SRQN	Status, invalid ReQuest /*One Ring Port in MTRX LPBK, The Other In-Service*/ /*Ring 2 Port is in MTRX loopback*/
SSRE	Status, System Resources Exceeded

EXAMPLES

In the following example, a one-way STS-3C cross-connection is established between ports OC3STS3C-3, an STS-3C embedded within an OC-3 (FROM) and OC3STS3C-7, an STS-3C embedded within an OC-3 (TO).

```
ENT-CRS-ST3C::OC3STS3C-3,OC3STS3C-7::1WAY;
```

In the following example, a two-way STS-3C cross-connection is established between ports OC3STS3C-1 and OC3STS3C-13. The cross-connection is redlined and assigned the circuit ID TSTCKT02.

```
ENT-CRS-ST3C::OC3STS3C-13,OC3STS3C-1:::CKTID="TSTCKT02",RDL=Y;
```

In the following example, a one-way STS-3C cross-connection is established between ports OC3STS3C-1 and OC3STS3C-13. The cross-connection is assigned the circuit ID of TSTCKT03.

```
ENT-CRS-ST3C::OC3STS3C-13,OC3STS3C-1:::1WAY:CKTID="TSTCKT03";
```

RELATED COMMANDS

```
ED-CRS-ST3C
DLT-CRS-ST3C
ENT-ST3C
RTRV-CKTID
RTRV-CRS
RTRV-CRS-ALL
RTRV-RDL-ALL
RTRV-ST3C
```

COMMAND CODE: **ENT-CRS-T1**
COMMAND NAME: **ENTER CROSS-CONNECT T1**

PURPOSE

The ENT-CRS-T1 command creates a cross-connect entity and establishes a one-way, two-way, two-way path or two-way drop and continue ring cross-connection between the specified DS1 ports or between the specified DS1 and VT1.5 ports. (Use ENT-CRS-VT1 if both the FROM and TO ports are VT1.5 ports.)

If CCT of 1WAY is specified, a one-way cross-connect is established between the receive side (from the network) of the FROM port and the transmit side (to the network) of the TO port. A one-way cross-connect can be established between the receive and transmit side of the same port (FROM and TO are identical thereby establishing a loopback through the system's cross-connect matrix), can be added as a bridge to an existing one-way or two-way cross-connect, or can be added from a Conference tail to the Conference head (Master) port (refer to ENT-CONF-T1). A drop T1/VT1.5 that is involved in a two-way path or a two-way drop and continue ring cross-connect can be connected to another non-ring (linear) T1/VT1.5 to establish a one-way bridge.

If CCT of 2WAY is specified, a two-way cross-connect is established between the FROM and TO ports. If the FROM or TO port is a VT1.5 embedded within a ring OC3 or OC12 (refer to ENT-RNG-OC3 or ENT-RNG-OC12), a two-way cross-connect can be established between that VT1.5 and another non-ring (linear) DS1 port.

If CCT of 2WAYPR is specified, a two-way path ring cross-connect is established between the FROM and TO ports. A two-way path ring cross-connect can be established as a drop-terminated cross-connect between the FROM and TO ports if one port is a VT1.5 embedded within a ring OC3/OC12 and the other port is a linear drop T1.

If CCT of 2WAYDC is specified, a two-way drop and continue cross-connect is established between the FROM and TO ports. A two-way drop and continue cross-connect can be established as a drop-terminated cross-connect between the FROM and TO ports if one port is a VT1.5 embedded within a ring OC3/OC12 and the other port is a linear T1.

Executing an ENT-CRS-T1 causes a state transition for the created cross-connect entity from

- Non-Existent to IS
- Non-Existent to OOS-AU

Executing an ENT-CRS-T1 causes following state transition for the ports involved in the cross connect.

- If this command creates a one-way or two-way cross connect, the port will carry an ACT secondary state.
- If this command creates a one-way bridge connection on a port that is already two-way cross connected, then it will carry BUSY secondary state.
- If this command creates a one-way bridge connection on a port that is already two-way path or two-way drop and continue ring cross connected, then the drop port will carry BUSY secondary state.
- The containing port in which this DS1 or VT1.5 is contained will have TRM secondary state.
- If this command establishes a two-way cross connect or a one-way cross connect from a VT1.5 to DS1, then the VT1.5 will have TRM secondary state.
- If this command creates a two-way path or a two-way drop and continue ring cross connection, a non-revertive switching VT1.5 FFP will be created. The VT1.5 specified in the command shall be the preferred path and the ring mate VT1.5 shall be the alternate path.

(Refer to Appendix G, State Transitions for additional information on state values and state transitions.)

If CCT of 1WAY and RDL=Y are specified while there is an existing TO-FROM 1WAY connection with RDL=N status, the 2WAY connection that results will have RDL=Y (redlined) status.

If CCT of 1WAY is specified but RDL status is not specified while there is an existing TO-FROM 1WAY connection with RDL=Y status, both connections will have RDL=Y (redlined) status.

If a CKTID or CKTIDTF parameter is specified for only one side (TO-FROM or FROM-TO) of a 2WAY cross-connection, both sides shall inherit this ID parameter.

If ampersand ranging (&) is used for an AID specifying CKTID or CKTIDTF, the same CKTID or CKTIDTF value shall be applied to each connection within the AID range.

If ampersand ranging (&) is used for an AID specifying an RDL value, the same RDL value shall be applied to each connection within the AID range.

Whether a VT1.5 to a DS1 cross-connection or a DS1 to a VT1.5 cross-connection is allowed depends on the port provisioning as indicated below (the FROM and TO ports can be interchanged in the table below):

FROM Port Type	FROM Port STSMAP	FROM Port VTMAP	TO Port Type	TO Port STSMAP	TO Port VTMAP	ENT-CRS-T1
VT1	VTFLOAT	Any Value	VT1	VTFLOAT	Any Value	Denied ¹
VT1	VTFLOAT	ALL, VTBYTE	T3T1 or T1	N/A	N/A	Denied
VT1	VTFLOAT	ALL, VTBYTE	EC1T1	ASYNC	N/A	Denied
VT1	VTFLOAT	ALL, VTBYTE	OC3T1 or OC12T1	ASYNC	N/A	Denied
VT1	VTFLOAT	ASYNC	T3T1 or T1	N/A	N/A	Allowed
VT1	VTFLOAT	ASYNC	EC1T1	ASYNC	N/A	Allowed
VT1	VTFLOAT	ASYNC	OC3T1 or OC12T1	ASYNC	N/A	Allowed
T3T1 or T1	N/A	N/A	T3T1 or T1	N/A	N/A	Allowed
T3T1 or T1	N/A	N/A	EC1T1	ASYNC	N/A	Allowed
T3T1 or T1	N/A	N/A	OC3T1 or OC12T1	ASYNC	N/A	Allowed
EC1T1, OC3T1, or OC12T1	ASYNC	N/A	EC1T1	ASYNC	N/A	Allowed
EC1T1, OC3T1, or OC12T1	ASYNC	N/A	OC3T1 or OC12T1	ASYNC	N/A	Allowed
Note: N/A= Not Applicable. 1 = Use ENT-CRS-VT1 command.						

Whether a VT1.5 to a DS1 two-way path /two-way drop and continue ring cross-connection or a DS1 to a VT1.5 two-way path/two-way drop and continue ring cross-connection is allowed depends on the port provisioning as indicated below (the FROM and TO ports can be interchanged in the table below):

Ring Port Type	Ring Port STSMAP	Ring Port VTMAP	Drop Port Type	Drop Port STSMAP	Drop Port VTMAP	ENT-CRS-T1
VT1	VTFLOAT	ASYNC	T3T1 or T1	N/A	N/A	Allowed
VT1	VTFLOAT	ASYNC	EC1T1	ASYNC	N/A	Allowed
VT1	VTFLOAT	ASYNC	OC3T1 or OC12T1	ASYNC	N/A	Allowed

ENT-CRS-T1 is denied if:

- The FROM and TO port are not provisioned in a valid combination per the tables above.
- Either of the specified FROM or TO DS1 ports are not provisioned (via ENT-T1).
- The specified cross-connection already exists.
- The specified FROM and TO values are identical (the same DS1 port) and CCT of 2WAY is specified.
- The specified FROM or TO VT1.5 port within the redundant ring OC3/OC12 is not provisioned and CCT of 2WAYPR or 2WAYDC is specified.
- The specified FROM port is the head (MASTER) of a broadcast conference connection, or the specified FROM port is a tail of a conference connection and the TO port is not the head of the conference connection.
- Either of the specified FROM or TO port has all cross-connect capacity utilized (an SST of BUSY), or is in a test access operation (an SST of TS).
- The specified FROM or TO port is an embedded DS1 and the supporting DS3 is in a loopback (a DS3 SST of LPBK).
- The specified FROM or TO port is an embedded VT1.5 and the supporting EC1, OC3, or OC12 is in a loopback (an SST of LPBK).
- The specified FROM or TO port is an embedded VT1.5 and the supporting STS1 is intact cross connected (an SST of ACT or BUSY).
- Either of the specified FROM or TO DS1 port is provisioned as an Idle Signal Source port or as part of a Test Access Port Pair (FAD A or FAD B).
- A one-way bridge connection is specified that requires a first-stage matrix bridge connection and the first-stage matrix time slots reserved for broadcast connections are all in use (refer to RTRV-POOL).
- An invalid parameter value or combination of parameter values is entered.
- CCT=2WAYPR, the odd VT1 of the ring OCn is in a matrix loopback, and the odd+1 is not OOS-MA or OOS-AUMA.

INPUT FORMAT

ENT-CRS-T1 : [TID] : **FROM, TO** : [CTAG] : : [CCT] : [CKTID=] [, CKTIDTF=] [, RDL=] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >		
	Default:	<SID>	
	Addressing:	None	
	Description:	Target Identifier, specifies the network node TID for the command.	
FROM	DS1_AID:		
	{T1-{1-59392}}		(T1-DS1#)
	{T3T1-{1-4800}-{1-28}}		(T3T1-DS3#-DS1#)
	{EC1T1-{1-3840}-{1-28}}		(EC1T1-EC1/STS1/DS3#-DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-28}}		(OC3T1-OC3#-STS1/DS3#-DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}		(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)
	VT1_AID:		
	{EC1VT1-{1-3840}-{1-7}-{1-4}}		(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)
	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}		(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)
	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}		
	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)		
	Default:	Entry Required	
	Addressing:	&&-ranging and &-grouping	
	Description:	DS1 or VT1 AID. If CCT=1WAY, FROM identifies the receive side (from the network) of the cross-connection specified by the FROM,TO AID pair. If CCT=2WAY, 2WAYPR or 2WAYDC then either AID of the cross-connection may be used as the FROM AID.	
	Restrictions:	ENT-CRS-T1 is denied if FROM and TO are identical and CCT of 2WAY is entered.	

ENT-CRS-T1 is denied if FROM and TO are both VT1.5.
ENT-CRS-T1 is denied if FROM or TO is part of a ring OC3/OC12 and CCT of 1WAY is entered.

TO	DS1_AID:	
	{T1-{1-59392}}	(T1-DS1#)
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)
	{EC1T1-{1-3840}-{1-28}}	(EC1T1-EC1/STS1/DS3#-DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-28}}	(OC3T1-OC3#-STS1/DS3#-DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}	(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)
	VT1_AID:	
	{EC1VT1-{1-3840}-{1-7}-{1-4}}	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)
	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)
	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	
	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)	
	Default:	Entry Required
	Addressing:	&&-ranging and &-grouping
	Description:	DS1 or VT1 AID. If CCT=1WAY, TO identifies the transmit side (to the network) of the cross-connection specified by the FROM,TO AID pair. If CCT=2WAY, 2WAYPR or 2WAYDC then either AID of the cross-connection may be used as the TO AID.
	Restrictions:	ENT-CRS-T1 is denied if FROM and TO are identical and CCT of 2WAY is entered. ENT-CRS-T1 is denied if FROM and TO are both VT1.5. ENT-CRS-T1 is denied if FROM or TO is part of a ring OC3/OC12 and CCT of 1WAY is entered.
CTAG	<1-6 VALID CTAG CHARACTERS>	
	Default:	<System Assigned CTAG Value>
	Addressing:	None
	Description:	Correlation Tag, associates input command with its output responses.
CCT	{1WAY, 2WAY, 2WAYPR, 2WAYDC}	
	Default:	{2WAY}
	Addressing:	None
	Description:	Cross-Connect Type. Values are:
	1WAY	One-Way (through matrix) non-ring connection
	2WAY	Two-Way (through matrix) ring or non-ring connection
	2WAYPR	Two-Way Path Protected Ring connection
	2WAYDC	Two-Way Drop and Continue connection
	Restrictions:	ENT-CRS-T1 is denied if CCT of 2WAY is entered and FROM and TO are identical. ENT-CRS-T1 is denied if CCT of 1WAY is entered and FROM or TO is a part of a ring OC3/OC12. Value combinations are verified whether the value is determined from a default value or explicitly entered in the command.
CKTID=	< 0-45 VALID TID CHARACTERS >	
	Default:	< No Entry >
	Addressing:	None
	Description:	FROM and TO Circuit ID. 0 to 45 ASCII characters within enclosing double quotes. Semicolon, asterisk, greater-than, less-than, double quote, and backslash characters are prohibited. Empty double quotes (ie "") indicate a NULL string.

CKTIDTF=	< 0–45 VALID CKTIDTF CHARACTERS >
Default:	< No Entry >
Addressing:	None
Description:	To and FROM Circuit ID. 0 to 45 ASCII characters within enclosing double quotes. Semicolon, asterisk, greater-than, less-than, double quote, and backslash characters are prohibited. Empty double quotes (ie "") indicate a NULL string.
Restrictions:	ENT–CRS–T1 is denied if a CKTIDTF parameter is entered for a 1WAY cross-connection. This parameter is valid only for command entries with a CCT of 2WAY, 2WAYPR, or 2WAYDC.
RDL=	{ N, Y}
Default:	{N}
Addressing:	None
Description:	N = connection is not redlined, Y = connection is redlined.
Restrictions:	ENT–CRS–T1 is denied if RDL=Y is specified while either FROM or TO is under LPBK (loopback). ENT–CRS–T1 is denied if a CCT of 1Way and RDL=N is specified for a FROM–TO connection while there is an existing 1WAY TO–FROM RDL=Y connection.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent
IDNV	Input, Data Not Valid
IIAC	Input, Invalid ACcess identifier
SAIS	Status, Already In Service
SARB	Status, All Resources Busy

SDBE	Status, internal Data Base Error /*CONF Database Error: <ERROR-STRING> for record <RECORD-NUMBER>*/ /*CONN Database Error: <ERROR-STRING> for <AID>*/ /*Failed to Update Sptg Tps: Status=<ERROR-CODE>*/ /*Failed to put B2 TP database record <RECORD-NUMBER> for status <ERROR-CODE>*/ /*Failed to put CONN database record <RECORD-NUMBER> for status <ERROR-CODE>*/ /*Failed to put TP database record <RECORD-NUMBER> for status <ERROR-CODE>*/ /*RPP Database Error: <ERROR-STRING> for <AID>*/ /*TP Database Error: <ERROR-STRING> for <AID>*/
SDNC	Status, Data Not Consistent
SNVS	Status, Not in Valid State /*Can't bridge a port connected to a port in MTRX lpbk.*/ /*Can't bridge a port in MTRX lpbk.*/
SROF	Status, Requested Operation Failed
SRQN	Status, invalid ReQuest /*Cannot connect two ports in MTRX loopback*/ /*One Ring Port in MTRX LPBK, The Other In-Service*/ /*Ring 2 Port is in MTRX loopback*/
SSRE	Status, System Resources Exceeded

EXAMPLES

In the following example, a one-way DS1 cross-connection is established between ports T3T1-1-15 (FROM) and T3T1-6-4 (TO).

```
ENT-CRS-T1::T3T1-1-15,T3T1-6-4:::1WAY;
```

In the following example, a two-way DS1 cross-connection is established between ports T3T1-1-10 and T3T1-12-8. The connection is redlined and assigned a circuit ID of TSTCRKT8.

```
ENT-CRS-T1::T3T1-12-8,T3T1-1-10:::CKTID="TSTCRKT8",RDL=Y;
```

In the following example, a two-way DS1 cross-connection is established between ports T3T1-1-10 and T3T1-12-8. The FROM-TO side of the cross-connect is assigned a circuit ID of TSTCRKT8, and the TO-FROM side is assigned a separate circuit ID of TSTCRKT8A.

```
ENT-CRS-T1::T3T1-12-8,T3T1-1-10:::CKTID="TSTCRKT8",CKTIDTF="TSTCRKT8A";
```

In the following example, a two-way DS1 cross-connection is established between a DS1 port T3T1-1-10 and VT1.5 port EC1VT1-12-7-4 whose VTMAP is defined as ASYNC.

```
ENT-CRS-T1::EC1VT1-12-7-4,T3T1-1-10;
```

In the following example, a two-way cross-connection is established between ports T3T1-1-15 and T3T1-6-4, between ports T3T1-1-16 and T3T1-12-9, and between ports T3T1-1-17 and EC1T1-5-28, by using ranging.

```
ENT-CRS-T1::T3T1-1-15&&-17,T3T1-6-4&T3T1-12-9&EC1T1-5-28;
```

In the following example, a two-way DS1 cross-connection is first established between ports T3T1-5-7 and T3T1-2-18, and then a bridge (one-way cross-connection) is added between ports T3T1-5-7 and T3T1-16-24 (port T3T1-5-7 is the head of the bridge).

```
ENT-CRS-T1::T3T1-5-7,T3T1-2-18;
```

```
ENT-CRS-T1::T3T1-5-7,T3T1-16-24:::1WAY;
```

RELATED COMMANDS

DLT-CONF-T1
DLT-CRS-T1
DLT-CRS-VT1
ED-CONF-T1
ED-CRS-T1
ED-FFP-VT1
ENT-CONF-T1
ENT-CRS-VT1
ENT-ROLL-T1
ENT-T1
RTRV-CKTID
RTRV-CONF-T1
RTRV-CRS
RTRV-CRS-ALL
RTRV-CRS-T1
RTRV-CRS-VT1
RTRV-RDL-ALL
RTRV-T1
RTRV-POOL

COMMAND CODE: **ENT-CRS-T3**
COMMAND NAME: **ENTER CROSS-CONNECT T3**

PURPOSE

The ENT-CRS-T3 command creates a cross-connect entity and establishes a one-way, two-way, two-way path or two-way drop and continue ring cross-connection between the specified DS3 ports or between the specified DS3 and STS-1 ports. (Use ENT-CRS-ST51 if both the FROM and TO ports are STS1 ports.)

If CCT of 1WAY is specified, a one-way cross-connect is established between the receive side (from the network) of the FROM port and the transmit side (to the network) of the TO port. A one-way cross-connect can be established between the receive and transmit side of the same port (FROM and TO are identical thereby establishing a loopback through the system's cross-connect matrix).

If CCT of 2WAY is specified, a two-way cross-connect is established between the FROM and TO ports. If the FROM or TO port is an STS-1 embedded within a ring OC-3 or OC-12 (refer to ENT-RNG-OC3 or ENT-RNG-OC12), a two-way cross-connect can be established between that STS-1 and another non-ring (linear) DS3 port.

If CCT of 2WAYPR is specified, a two-way path ring cross-connect is established between the FROM and TO ports. A two-way path ring cross-connect can be established as a drop-terminated cross-connect between the FROM and TO ports if one port is an STS-1 embedded within a ring OC-3/OC-12 and the other port is a non-ring (linear) drop T3.

If CCT of 2WAYDC is specified, a two-way drop and continue cross-connect is established between the FROM and TO ports. A two-way drop and continue cross-connect can be established as a drop-terminated cross-connect between the FROM and TO ports if one port is an STS-1 embedded within a ring OC-3/OC-12 and the other port is a non-ring (linear) drop T3.

Executing an ENT-CRS-T3 causes a state transition for the created cross-connect entity from

- Non-Existent to IS
- Non-Existent to OOS-AU

Executing an ENT-CRS-T3 causes following state transition for the ports involved in the cross connect.

- If this command creates a one-way, the port will carry an ACT secondary state.
- If this command creates a two-way cross connection, the port will carry BUSY secondary state.
- The containing port (EC1, OC-3, or OC-12) in which this DS3 or STS-1 is contained will have TRM secondary state.
- If this command establishes a two-way cross connect or a one-way cross connect from an STS-1 to DS3, then the STS-1 will have TRM secondary state.
- If this command creates a two-way path or a two-way drop and continue ring cross connection, a non-revertive switching STS1 FFP will be created. The STS1 specified in the command shall be the preferred path and the ring mate STS1 shall be the alternate path.

(Refer to Appendix G, State Transitions for additional information on state values and state transitions.)

If CCT of 1WAY and RDL=Y are specified while there is an existing TO-FROM 1WAY connection with RDL=N status, the 2WAY connection that results will have RDL=Y (redlined) status.

If CCT of 1WAY is specified but RDL status is not specified while there is an existing TO-FROM 1WAY connection with RDL=Y status, both connections will have RDL=Y (redlined) status.

If a CKTID or CKTIDTF parameter is specified for only one side (TO-FROM or FROM-TO) of a 2WAY cross-connection, both sides shall inherit this ID parameter.

If ampersand ranging (&) is used for an AID specifying CKTID or CKTIDTF, the same CKTID or CKTIDTF value shall be applied to each connection within the AID range.

If ampersand ranging (&) is used for an AID specifying an RDL value, the same RDL value shall be applied to each connection within the AID range.

Executing an ENT-CRS-T3 causes the DS3 involved to stop transmitting the fault conditions on its FEAC channel (the FEAC channel will be transmitted from input to output without any alterations).

Whether an STS-1 to a DS3 two-way path/two-way drop and continue ring cross-connection or a DS3 to an STS-1 two-way path/two-way drop and continue ring cross-connection is allowed depends on the port provisioning as indicated below (the FROM and TO ports can be interchanged in the table below):

Ring Port Type	Ring Port STSMAP	Drop Port Type	Drop Port STSMAP	ENT-CRS-T3
OC3STS1	ASYN	T3	N/A	Allowed
OC12STS1	ASYN	T3	N/A	Allowed

ENT-CRS-T3 is denied if:

- Either of the specified FROM or TO DS3 ports are not provisioned (via ENT-T3).
- The specified cross-connection already exists or the transmit side of the TO port is already connected.
- The specified FROM and TO values are identical (the same DS3 port) and CCT of 2WAY is specified.
- The mate STS1 of the specified FROM or TO STS-1 port within the ring OC-3/OC-12 is not provisioned and CCT of 2WAYPR or 2WAYDC is specified.
- Either of the specified FROM or TO port has all cross-connect capacity utilized (an SST of BUSY), or is in a test access operation (an SST of TS).
- Either of the specified FROM and TO ports have subordinated objects cross connected, i.e., DS3 or STS-1 has TRM secondary state.
- The specified FROM or TO port is an STS-1 and the supporting EC1, OC-3, or OC-12 is in a loopback (an SST of LPBK).
- The specified FROM or TO port has subordinated DS1 objects in a loopback (an SST of LPBK) or in a test access operation (an SST of TS).
- The specified FROM or TO port has DS1 objects embedded within the DS3 object and a DS1 object has C-bit loopback established (a DS1 Condition Type of RVCBLPBK).
- If an attempt is made to uni-directionally connect C to A while a uni-directional connection already exists between B to A.
- The command is used to cross connect a DS3 to STS-1 and the STS-1 has VT1.5s assigned (an SST of SDEE).
- The command is used to cross connect a DS3 embedded within an STS-1 (i.e., the FROM or TO parameter is an STS1 AID) and ASYN mapping is not supported by the STS-1 (i.e., the STS-1's STSMAP is not ASYN).
- The command is used to cross-connect a DS3 or STS-1 and one or more supported DS1s are provisioned with FEMETHOD of ATPOLL.
- The command is used to cross connect a DS3 that resides on a DS3 quad (i.e., on a HMU) or in a half shelf that is defined as EP3S48 and EP3S36.
- An invalid parameter value or combination of parameter values is entered.
- CCT=2WAYPR, the odd STS1 of the ring OCn is in a matrix loopback, and the odd+1 is not OOS-MA or OOS-AUMA.

INPUT FORMAT

ENT-CRS-T3 : [TID] : **FROM, TO** : [CTAG] : : [CCT] : [CKTID=] [,CKTIDTF=] [,RDL=] ;

INPUT PARAMETERS

TID < 1-20 VALID TID CHARACTERS >
Default: <SID>
Addressing: None
Description: Target Identifier, specifies the network node TID for the command.

FROM

DS3_AID:
{T3-{1-4800}} (T3-DS3#)

STS1_AID:
{EC1STS1-{1-3840}} (EC1STS1-EC1/STS1#)
{OC3STS1-{1-2240}-{1-3}} (OC3STS1-OC3#-STS1#)
{OC12STS1-{1-560}-{1-4}-{1-3}} (OC12STS1-OC12#-STM1#-STS1#)

Default: Entry Required

Addressing: &&-ranging and &-grouping

Description: DS3 or STS1 AID. If CCT=1WAY, FROM identifies the receive side (from the network) of the cross-connection specified by the FROM,TO AID pair. If CCT=2WAY, 2WAYPR or 2WAYDC then either AID of the cross-connection may be used as the FROM AID.

Restrictions: ENT-CRS-T3 is denied if FROM and TO are identical and CCT of 2WAY is entered.
ENT-CRS-T3 is denied if FROM or TO specifies a T3 embedded within EC1, OC-3, or OC-12.
ENT-CRS-T3 is denied if FROM and TO are both STS-1.
ENT-CRS-T3 is denied if FROM or TO is EC1STS1 and CCT of 2WAYPR/2WAYDC is entered.
ENT-CRS-T3 is denied if FROM or TO is part of a ring OC-3/OC-12 and CCT of 1WAY is entered.
Value combinations are verified whether the value is determined from a default value or explicitly entered in the command.

TO

DS3_AID:
{T3-{1-4800}} (T3-DS3#)

STS1_AID:
{EC1STS1-{1-3840}} (EC1STS1-EC1/STS1#)
{OC3STS1-{1-2240}-{1-3}} (OC3STS1-OC3#-STS1#)
{OC12STS1-{1-560}-{1-4}-{1-3}} (OC12STS1-OC12#-STM1#-STS1#)

Default: Entry Required

Addressing: &&-ranging and &-grouping

Description: DS3 or STS1 AID. If CCT=1WAY, TO identifies the transmit side (to the network) of the cross-connection specified by the FROM,TO AID pair. If CCT=2WAY, 2WAYPR or 2WAYDC then either AID of the cross-connection may be used as the TO AID.

Restrictions: ENT-CRS-T3 is denied if FROM and TO are identical and CCT of 2WAY is entered.
ENT-CRS-T3 is denied if FROM or TO specifies a T3 embedded within EC1, OC-3, or OC-12.
ENT-CRS-T3 is denied if FROM and TO are both STS-1.
ENT-CRS-T3 is denied if FROM or TO is part of a ring OC-3/OC-12 and CCT of 1WAY is entered.
Value combinations are verified whether the value is determined from a default value or explicitly entered in the command.

CTAG

< 1-6 VALID CTAG CHARACTERS >

Default: < System assigned CTAG value >

Addressing: None

Description: Correlation Tag, associates input command with its output responses.

CCT	{1WAY, 2WAY, 2WAYPR, 2WAYDC}
Default:	{2WAY}
Addressing:	None
Description:	Cross-Connect Type. Values are:
1WAY	One-Way (through matrix) non-ring connection. FROM identifies the receive side (from the network) of the cross-connection.
2WAY	Two-Way (through matrix) ring or non-ring connection. Either AID of the cross-connection may be used as the FROM AID.
2WAYPR	Two-Way Path Protected Ring connection. Either AID of the cross-connection may be used as the FROM AID.
2WAYDC	Two-Way Drop and Continue connection. Either AID of the cross-connection may be used as the FROM AID.
Restrictions:	ENT-CRS-T3 is denied if CCT of 2WAY is entered and FROM and TO are identical. ENT-CRS-T3 is denied if CCT of 1WAY is entered and FROM or TO is a part of a ring OC-3/OC-12. Value combinations are verified whether the value is determined from a default value or explicitly entered in the command.
CKTID=	< 0-45 VALID TID CHARACTERS >
Default:	< No Entry >
Addressing:	None
Description:	FROM and TO Circuit ID. 0 to 45 ASCII characters within enclosing double quotes. Semicolon, asterisk, greater-than, less-than, double quote, and backslash characters are prohibited. Empty double quotes (ie "") indicate a NULL string.
CKTIDTF=	< 0-45 VALID CKTIDTF CHARACTERS >
Default:	< No Entry >
Addressing:	None
Description:	TO and FROM Circuit ID. 0 to 45 ASCII characters within enclosing double quotes. Semicolon, asterisk, greater-than, less-than, double quote, and backslash characters are prohibited. Empty double quotes (ie "") indicate a NULL string.
Restrictions:	ENT-CRS-T3 is denied if a CKTIDTF parameter is entered for a 1WAY cross-connection. This parameter is valid only for command entries with a CCT of 2WAY, 2WAYPR, or 2WAYDC.
RDL=	{N, Y}
Default:	{N}
Addressing:	None
Description:	N = connection is not redlined, Y = connection is redlined.
Restrictions:	ENT-CRS-T3 is denied if RDL=Y is specified while either FROM or TWO is under LPBK (loopback). ENT-CRS-T3 is denied if CCT=1Way and RDL=N is specified for a FROM-TO connection while there is an existing 1WAY TO-FROM RDL=Y connection.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```

    <SID> <YY-MM-DD> <HH:MM:SS>
M  <CTAG> DENY
    <ERROR CODE>
    [/* <Informational Error Description Text> */]
    [/* <Expanded Error Code Description> */]
    [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent
IDNV	Input, Data Not Valid
	/* Cannot connect a port that has FEMETHOD=ATTPOLL. */
IIAC	Input, Invalid ACcess identifier
SAIS	Status, Already In Service
SARB	Status, All Resources Busy
SDBE	Status, internal Data Base Error
	/*CONN Database Error: <ERROR-STRING> for <AID>*/
	/*Failed to Update Sptg Tps: Status=<ERROR-CODE>*/
	/*Failed to put B2 TP database record <RECORD-NUMBER> for status <ERROR-CODE>*/
	/*Failed to put CONN database record <RECORD-NUMBER> for status <ERROR-CODE>*/
	/*Failed to put TP database record <RECORD-NUMBER> for status <ERROR-CODE>*/
	/*RPP Database Error: <ERROR-STRING> for <AID>*/
	/*TP Database Error: <ERROR-STRING> for <AID>*/
SDNC	Status, Data Not Consistent
SNVS	Status, Not in Valid State
	/*Cannot connect a port that has embedded facilities in TS or LPBK states.*/
SROF	Status, Requested Operation Failed
SRQN	Status, invalid ReQuest
	/*Cannot connect a port that has embedded SRC ports.*/
	/*Cannot connect a port that has embedded TAPs.*/
	/*Cannot connect two ports in MTRX loopback*/
	/*One Ring Port in MTRX LPBK, The Other In-Service*/
	/*Ring 2 Port is in MTRX loopback*/
SSRE	Status, System Resources Exceeded

EXAMPLES

In the following example, a two-way DS3 cross-connection is established between ports T3-2 and T3-12 .

```
ENT-CRS-T3::T3-12,T3-2;
```

In the following example, a one-way DS3 cross-connection is established between ports T3-1 (FROM) and T3-6 (TO). The cross-connection is redlined and assigned a circuit ID of TSTCRKT9.

```
ENT-CRS-T3::T3-1,T3-6:::1WAY:CKTID="TSTCRKT9",RDL=Y;
```

In the following example, a two-way DS3 cross-connection is established between ports T3-1 (FROM) and T3-6 (TO). The FROM-TO side of the connection is assigned a circuit ID of TSTCRKT9, and the TO-FROM side is assigned a circuit ID of TSTCRKT9A.

```
ENT-CRS-T3::T3-1,T3-6:::2WAY:CKTID="TSTCRKT9",CKTIDTF="TSTCRKT9A";
```

In the following example, a two-way DS3 cross-connection is established between a DS3 port T3-1 and STS-1 port OC3STS1-1-3 (STS-1 embedded within an OC-3) for which VTMAP is defined as ASYNC.

```
ENT-CRS-T3::OC3STS1-1-3,T3-1;
```

In the following example, a two-way cross-connection is established between ports T3-15 and T3-24, between ports T3-16 and T3-9, and between ports T3-17 and T3-28, by using ranging.

```
ENT-CRS-T3::T3-15&&-17,T3-24&-9&-28;
```

RELATED COMMANDS

```
DLT-CRS-T3  
ED-CRS-T3  
ED-FFP-STs1  
ED-T3  
ENT-CRS-T3  
ENT-T3  
RTRV-CKTID  
RTRV-CRS  
RTRV-CRS-ALL  
RTRV-CRS  
RTRV-RDL-ALL  
RTRV-T3
```


COMMAND CODE: **ENT-CRS-VT1**
COMMAND NAME: **ENTER CROSS-CONNECT VT1**

PURPOSE

The ENT-CRS-VT1 command creates a cross-connect entity and establishes a one-way, two-way, two-way path ring or two-way drop and continue cross-connection between the specified VT1.5 ports. (Use ENT-CRS-T1 if both the FROM and TO ports are not VT1.5 ports.)

If CCT of 1WAY is specified, a one-way cross-connect is established between the receive side (from the network) of the FROM port and the transmit side (to the network) of the TO port. A one-way cross-connect can be established between the receive and transmit side of the same port (FROM and TO are identical thereby establishing a loopback through the system's cross-connect matrix), can be added as a bridge to an existing one-way or two-way cross-connect, or can be added from a Conference tail to the Conference head (Master) port (refer to ENT-CONF-VT1).

If CCT of 2WAY is specified, a two-way cross-connect is established between the FROM and TO ports. A pass-through cross-connect can be established between the FROM and TO ports if both VT1.5s belong to the same OC3/OC12 ring pair (refer to ENT-RNG-OC3 or ENT-RNG-OC12) and are both in the same timeslot. An unprotected cross-connect can be established between the FROM and TO ports if one VT1.5 is embedded within a ring OC3/OC12 and the other VT1.5 is embedded within an EC1, odd non-ring (linear) OC3, OC12 or EC1, or another ring OC3/OC12.

If CCT of 2WAYPR is specified, a two-way path ring cross-connect is established between the FROM and TO ports. A two-way path ring cross-connect can be established as a nonterminated cross-connect between the FROM and TO ports if one VT1.5 is embedded within a ring OC3/OC12 and the other VT1.5 is embedded in an EC1, odd non-ring OC3/OC12, or ring OC3/OC12.

The system will allow a 2WAYPR connection even when the addressed path or its mate is involved in a matrix loopback connection.

If CCT of 2WAYDC is specified, a two-way drop and continue cross-connect is established between the FROM and TO ports. A two-way drop and continue cross-connect can be established as a nonterminated cross-connect between the FROM and TO ports if one VT1.5 is embedded within a ring OC3/OC12 and the other VT1.5 is embedded in an EC1, odd non-ring OC3/OC12, or ring OC3/OC12.

Executing an ENT-CRS-VT1 causes a state transition for the created cross-connect entity from

- Non-Existent to IS
- Non-Existent to OOS-AU

Executing an ENT-CRS-VT1 causes following state transition for the ports involved in the cross-connect.

- If this command creates a one-way or a two-way cross-connect, the port will carry an ACT secondary state. If a two-way cross-connect is created which involves a ring OC-3/OC-12, both VT1.5 ports will carry a BUSY secondary state.
- If this command creates a one-way bridge connection on a port that is already two-way cross-connected, then it will carry a BUSY secondary state.
- The containing port (EC1, OC-3, OC-12, and/or STS1) in which this VT1.5 is contained will have TRM secondary state.
- If this command creates a two-way path or a two-way drop and continue ring cross connection, a non-revertive switching VT1 FFP will be created. The VT1 specified in the command shall be the preferred path and the ring mate VT1 shall be the alternate path.

(Refer to Appendix G, State Transitions for additional information on state values and state transitions.)

If CCT of 1WAY and RDL=Y are specified while there is an existing TO-FROM 1WAY connection with RDL=N status, the 2WAY connection that results will have RDL=Y (redlined) status.

If CCT of 1WAY is specified but RDL status is not specified while there is an existing TO-FROM 1WAY connection with RDL=Y status, both connections will have RDL=Y (redlined) status.

If a CKTID or CKTIDTF parameter is specified for only one side (TO-FROM or FROM-TO) of a 2WAY cross-connection, both sides shall inherit this ID parameter.

If ampersand ranging (&) is used for an AID specifying CKTID or CKTIDTF, the same CKTID or CKTIDTF value shall be applied to each connection within the AID range.

If ampersand ranging (&) is used for an AID specifying an RDL value, the same RDL value shall be applied to each connection within the AID range.

Whether a VT1.5 to VT1.5 cross-connection is allowed depends on the port provisioning as indicated below (the FROM and TO ports can be interchanged in the table below):

FROM Port Type	FROM Port STSMAP	FROM Port VTMAP	TO Port Type	TO Port STSMAP	TO Port VTMAP	ENT-CRS-VT1
VT1	VTFLOAT	Any Value	VT1	VTFLOAT	Any Value	Allowed
VT1	VTFLOAT	ALL, VTBYTE	T3T1 or T1	N/A	N/A	Denied
VT1	VTFLOAT	ALL, VTBYTE	EC1T1	ASYNC	N/A	Denied
VT1	VTFLOAT	ALL, VTBYTE	OC3T1 or OC12T1	ASYNC	N/A	Denied
VT1	VTFLOAT	ASYNC	T3T1 or T1	N/A	N/A	Denied ¹
VT1	VTFLOAT	ASYNC	EC1T1	ASYNC	N/A	Denied ¹
VT1	VTFLOAT	ASYNC	OC3T1 or OC12T1	ASYNC	N/A	Denied ¹
T3T1 or T1	N/A	N/A	T3T1 or T1	N/A	N/A	Denied ¹
T3T1 or T1	N/A	N/A	EC1T1	ASYNC	N/A	Denied ¹
T3T1 or T1	N/A	N/A	OC3T1 or OC12T1	ASYNC	N/A	Denied ¹
EC1T1, OC3T1, or OC12T1	ASYNC	N/A	EC1T1	ASYNC	N/A	Denied ¹
EC1T1, OC3T1, or OC12T1	ASYNC	N/A	OC3T1 or OC12T1	ASYNC	N/A	Denied ¹

Notes: N/A= Not Applicable. 1 = Use ENT-CRS-T1 command.

Though VT1s with different VTMAP are allowed to be cross-connected, the system does not perform any mapping conversion. The system just allows what comes in on the input port to go out the output port.

ENT-CRS-VT1 is denied if:

- The FROM and TO port are not provisioned in a valid combination per the table above.
- Either of the specified FROM or TO VT1.5 ports are not provisioned (using ENT-VT1).
- The specified cross-connection already exists.
- The specified FROM and TO values are identical (the same VT1.5 port) and CCT of 2WAY is specified.
- The mate VT1.5 of the specified FROM or TO VT1.5 port within the ring OC-3/OC-12 is not provisioned and CCT of 2WAYPR or 2WAYDC is specified.
- The specified FROM or its mate and TO ports are involved in a matrix loopback and CCT of 2WAY is specified.
- Either of the specified FROM or TO port has all cross-connect capacity utilized (an SST of BUSY), is in a test access operation (an SST of TS), or is in a roll operation (an SST of ROLL).

- The specified FROM or TO port is an embedded VT1.5 and the supporting STS-1, EC1, OC-3, or OC-12 is in a loopback (an SST of LPBK), or the supporting STS-1 is intact cross-connected (an SST of ACT or BUSY).
- A one-way bridge connection is specified that requires a first-stage matrix bridge connection and the first-stage matrix time slots reserved for broadcast connections are all in use (refer to RTRV-POOL).
- An invalid parameter value or combination of parameter values is entered.
- The system will not allow a 2WAYDC connection when the addressed path or its mate is involved in a matrix loopback connection.
- CCT=2WAYPR, the odd VT1 of the ring OCn is in a matrix loopback, and the odd+1 is not OOS-MA or OOS-AUMA.
- CCT=2WAY and the even side of a ring port is specified.
- RDL=Y is specified while either FROM or TO is under LPBK (loopback).
- A CCT of 1Way and RDL=N is specified for a FROM-TO connection while there is an existing 1WAY TO-FROM RDL=Y connection.

INPUT FORMAT

ENT-CRS-VT1 : [TID] : **FROM,TO** : [CTAG] : : [CCT] : [CKTID=] [,CKTIDTF=] [,RDL=] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
FROM	VT1_AID; {EC1VT1-{1-3840}-{1-7}-{1-4}} (EC1VT1-EC1/STS1#-VTGrp#-VT1.5#) {OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}} (OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#) {OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}} (OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: VT1 AID. If CCT=1WAY, FROM identifies the receive side (from the network) of the cross-connection specified by the FROM,TO AID pair. If CCT=2WAY, 2WAYPR or 2WAYDC then either AID of the cross-connection may be used as the FROM AID. Restrictions: ENT-CRS-VT1 is denied if FROM and TO are identical and CCT of 2WAY is entered. ENT-CRS-VT1 is denied if FROM and TO both are not VT1.5. ENT-CRS-VT1 is denied if FROM or TO is part of a ring OC-3/OC-12 and CCT of 1WAY is entered.
TO	VT1_AID; {EC1VT1-{1-3840}-{1-7}-{1-4}} (EC1VT1-EC1/STS1#-VTGrp#-VT1.5#) {OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}} (OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#) {OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}} (OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: VT1 AID. If CCT=1WAY, TO identifies the transmit side (to the network) of the cross-connection specified by the FROM,TO AID pair. If CCT=2WAY, 2WAYPR or 2WAYDC then either AID of the cross-connection may be used as the TO AID. Restrictions: ENT-CRS-VT1 is denied if FROM and TO are identical and CCT of 2WAY is entered.

ENT-CRS-VT1 is denied if FROM and TO both are not VT1.5.
ENT-CRS-VT1 is denied if FROM or TO is part of a ring OC-3/OC-12 and CCT of 1WAY is entered.

CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
CCT	{1WAY, 2WAY, 2WAYPR, 2WAYDC} Default: {2WAY} Addressing: None Description: Cross-Connect Type. Values are: 1WAY One-Way (through matrix) non-ring connection 2WAY Two-Way drop (through matrix) ring or non-ring connection or two-way pass-through ring connection 2WAYPR Two-Way Path Protected Ring connection 2WAYDC Two-Way Drop and Continue connection Restrictions: ENT-CRS-VT1 is denied if CCT of 2WAY is entered and FROM and TO are identical. ENT-CRS-VT1 is denied if CCT of 1WAY is entered and FROM or TO is a part of a ring OC-3/OC-12.
CKTID=	< 0-45 VALID TID CHARACTERS > Default: < No Entry > Addressing: None Description: FROM and TO Circuit ID. 0 to 45 ASCII characters within enclosing double quotes. Semicolon, asterisk, greater-than, less-than, double quote, and backslash characters are prohibited. Empty double quotes (ie "") indicate a NULL string.
CKTIDTF=	< 0-45 VALID CKTIDTF CHARACTERS > Default: < No Entry > Addressing: None Description: To and FROM Circuit ID. 0 to 45 ASCII characters within enclosing double quotes. Semicolon, asterisk, greater-than, less-than, double quote, and backslash characters are prohibited. Empty double quotes (ie "") indicate a NULL string. Restrictions: ENT-CRS-VT1 is denied if a CKTIDTF parameter is entered for a 1WAY cross-connection. This parameter is valid only for command entries with a CCT of 2WAY, 2WAYPR, or 2WAYDC.
RDL=	{N, Y} Default: {N} Addressing: None Description: N = connection is not redlined, Y = connection is redlined. Restrictions: ENT-CRS-VT1 is denied if RDL=Y is specified while either FROM or TO is under LPBK (loopback). ENT-CRS-VT1 is denied if a CCT of 1Way and RDL=N is specified for a FROM-TO connection while there is an existing 1WAY TO-FROM RDL=Y connection.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID [-VCNUM]>) */]
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

    <SID> <YY-MM-DD> <HH:MM:SS>
M  <CTAG> DENY
    <ERROR CODE>
    [/* <Informational Error Description Text> */]
    [/* <Expanded Error Code Description> */]
    [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent
IDNV	Input, Data Not Valid
IIAC	Input, Invalid ACcess identifier
SAIS	Status, Already In Service
SARB	Status, All Resources Busy
SDBE	Status, internal Data Base Error
	/*CONN Database Error: <ERROR-STRING> for <AID>*/
	/*Failed to Update Sptg Tps: Status=<ERROR-CODE>*/
	/*Failed to put B2 TP database record <RECORD-NUMBER> for status <ERROR-CODE>*/
	/*Failed to put CONN database record <RECORD-NUMBER> for status <ERROR-CODE>*/
	/*Failed to put TP database record <RECORD-NUMBER> for status <ERROR-CODE>*/
	/*RPP Database Error: <ERROR-STRING> for <AID>*/
	/*TP Database Error: <ERROR-STRING> for <AID>*/
SDNC	Status, Data Not Consistent
SNVS	Status, Not in Valid State
	/*Can't bridge a port connected to a port in MTRX lpbk.*/
	/*Can't bridge a port in MTRX lpbk.*/
SROF	Status, Requested Operation Failed
SRQN	Status, invalid ReQuest
	/*Cannot connect two ports in MTRX loopback*/
	/*One Ring Port in MTRX LPBK, The Other In-Service*/
	/*Ring 2 Port is in MTRX loopback*/
SSRE	Status, System Resources Exceeded

EXAMPLES

In the following example, a one-way VT1.5 cross-connection is established between ports EC1VT1-1-3-3, a VT1.5 embedded within an EC1 (FROM) and OC3VT1-5-3-7-4, a VT1.5 embedded within an OC-3. (TO).

```
ENT-CRS-VT1::EC1VT1-1-3-3,OC3VT1-5-3-7-4:::1WAY;
```

In the following example, a two-way VT1.5 cross-connection is established between ports EC1VT1-1-1-4 and EC1VT1-12-3-4. The cross-connection is redlined and assigned a circuit ID of TSTCKT01

```
ENT-CRS-VT1::EC1VT1-12-3-4,EC1VT1-1-1-4:::CKTID="TSTCKT01",RDL=Y;
```

In the following example, a two-way VT1.5 cross-connection is established between ports EC1VT1-1-1-4 and EC1VT1-12-3-4. The FROM-TO side of the cross-connection is assigned a circuit ID of TSTCKT01, and the TO-FROM side is assigned a circuit ID of TSTCKT01A

```
ENT-CRS-VT1::EC1VT1-12-3-4,EC1VT1-1-1-4:::CKTID="TSTCKT01",  
CKTID="TSTCKT01A;
```

In the following example, a two-way cross-connection is established between ports EC1VT1-48-7-1 and OC3VT1-5-3-7-4, between ports EC1VT1-48-7-2 and EC1VT1-12-3-3, and between ports EC1VT1-48-7-3 and EC1VT1-5-7-2, by using ranging.

```
ENT-CRS-VT1::EC1VT1-48-7-1&&-3,OC3VT1-5-3-7-4&EC1VT1-12-3-3&EC1VT1-5-7-2;
```

RELATED COMMANDS

```
DLT-CRS-VT1  
ED-CONF-VT1  
ED-CRS-VT1  
ED-FFP-VT1  
ENT-CRS-VT1  
ENT-VT1  
RTRV-CKTID  
RTRV-CRS  
RTRV-CRS-ALL  
RTRV-CRS-VT1  
RTRV-RDL-ALL  
RTRV-VT1
```

COMMAND CODE: **ENT-EC1**
COMMAND NAME: **ENTER EC1**

PURPOSE

The ENT-EC1 command creates (assigns and provisions) an STSX-1 section and line object entity (AID).

The default values for the PST parameter and keyword parameters can be modified with the SET-DFLT-EC1 command. The current default values can be retrieved using the RTRV-DFLT-EC1 command.

An EC1 that has not been provisioned has a PST,SST of OOS-MA,UAS or OOS-AUMA,UAS&DSBLD (OOS-AUMA if the supporting equipment EP3 is not provisioned). Executing an ENT-EC1 command causes the following primary state transitions for the specified EC1. Secondary states associated with the EC1 before and after the command is executed depend upon events detected by the system. Refer to Appendix G State Transitions, for additional information on state values and state transitions.

Entered PST,SST Value	Next PST State if Present Default Database Value is:		
	OOS	IS	IS, AINS
<NoVal>, <NoVal>	OOS-MA	IS	OOS-AU, AINS
IS, <NoVal>	IS	IS	OOS-AU, AINS
IS,AINS	OOS-AU, AINS	OOS-AU, AINS	OOS-AU, AINS
OOS,<NoVal>	OOS-MA	OOS-MA	Denied
OOS,AINS	Denied	Denied	Denied
<NoVal>,AINS	Denied	OOS-AU, AINS	OOS-AU, AINS
<NoVal>,AINS-DEA	Denied	Denied	IS
IS,AINS-DEA	Denied	Denied	IS
OOS,AINS-DEA	Denied	Denied	OOS-MA

Note: 1. <NoVal> means no value is entered for that parameter.

When the ENT-EC1 command is successfully executed on an EP3 module, the electrical DS3 corresponding to this EC1 and the remaining two electrical DS3s on the EP3 module on which this EC1 resides will enter OOS-AUMA, UAS, DSBLD states. This means that the other two ports on the module on which the provisioned EC1 resides cannot be provisioned as electrical DS3s; they have to be provisioned as EC1s.

When an EC1 is provisioned to an OOS-MA state, a MAN condition type is set for the specified EC1. The MAN condition type is cleared when the EC1 is provisioned to an IS state.

When an EC1 is in an OOS-MA, OOS-AUMA, or OOS-AU,AINS state, no EC1 transmission condition types or performance monitoring threshold crossing alerts are autonomously reported for the EC1, but EC1 alarm conditions are monitored (retrievable with the RTRV-EC1 command) and performance monitoring data is collected (if provisioned for PM collection by the SET-PMODE-EC1 command) for the EC1. An EC1 in an OOS-AU,AINS state transitions to an IS state when all EC1 near-end alarm conditions for that EC1 have cleared.

An ENT-EC1 command is denied if:

- The specified EC1's supporting object, the EP3 I/O module, is not provisioned (i.e., EC1 has an SST of DSBLD).
- The specified EC1 resides on a module which itself resides in a half shelf that is defined as EP3S48, EP3E48, EP3S36, or EP3E36 (See ENT-EQPT).
- The specified EC1 is already provisioned.
- An invalid parameter value or combination of parameter values is entered.

When an ENT-EC1 command is executed, the default values for the following items are automatically provisioned for the specified EC1, and all PM data collection registers for the EC1 are automatically reset to zero. These default values cannot be changed, except for PM attributes, unless the specified EC1 has first been provisioned by an ENT-EC1 command.

- Condition type attributes (refer to Appendix C, Condition Types and SET-ATTR-EC1)
- Performance monitoring (PM) attributes (refer to SET-PMATTR-ALL)
- PM mode (refer to SET-PMMODE-EC1)
- PM threshold levels (refer to SET-TH-EC1)
- PM reports (refer to ALW-PMREPT-EC1)

I/O protection switching is disabled if all three EC1 ports supported by the EP3 I/O circuit pack are provisioned to an OOS-MA or OOS-AUMA state. I/O protection switching only occurs if at least one of the supporting EC1s on the supporting EP3 I/O circuit pack is provisioned to an IS or an OOS-AU state.

INPUT FORMAT

ENT-EC1 : [TID] : AID : [CTAG] : : [AINSTH=] : [PST] [, SST] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	EC1_AID: {EC1-{1-3840} } (EC1-EC1/STS1#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: EC1 AID, identifies the EC1 port or range of ports.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
AINSTH=	{HH-MM:{00-48} - {00-59} } Default: System start-up value. Factory Default = 8 hours. Addressing: None Description: Automatic In-Service Threshold, specifies how long a customer signal must be present on the facility without a LOS, LOF, or AIS-L alarm condition before the system puts the facility into the In-Service state. The factory default is 8 hours. The valid value is: HH-MM Time, specifies the duration of an alarm-free signal where value HH indicates the time duration in hours and value MM indicates the time duration in minutes. The valid range of values is 00-48 and 00-59 (in increments of 1 minute), respectively. Restrictions: If 48 is specified in HH, then MM has to be 00.
PST	{IS, OOS} Default: <Value retrieved with RTRV-DFLT-EC1 command> Addressing: None Description: Primary State, specifies the desired primary state of the EC1 entity when provisioned. Values are: IS In-Service, the EC1 is provisioned to an IS or OOS-AU state. OOS Out-Of-Service, the EC1 is provisioned to an OOS-AUMA or OOS-MA state. Restrictions: ENT-EC1 is denied if PST of OOS and SST of AINS is entered.

SST {AINS, AINS-DEA}

Default: <Value retrieved with RTRV-DFLT-EC1 command>

Addressing: None

Description: Secondary State, specifies the secondary state to provision the EC1.
Values are:

AINS Automatic In-Service, if PST,SST of IS,AINS is entered the EC1 is provisioned to an OOS-AU,AINS state.

AINS-DEA Automatic In-Service-Deactivate, the EC1 is not provisioned to an OOS-AU,AINS state. The EC1's SST value is entered as <Null> (unpopulated), and the SST state is determined by its provisioned PST value and system detected events.

Restrictions: ENT-EC1 is denied if SST of AINS and PST of OOS is entered.
ENT-EC1 is denied if SST of AINS-DEA is entered and the current EC1 state is not OOS-AU,AINS (a SST state of AINS).

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  /* <Free Form Informational Text> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent
IDNV	Input, Data Not Valid
IIAC	Input, Invalid ACcess identifier
SDBE	Status, internal Data Base Error /* TP Database Error: <ERROR-STRING> for <AID-STRING> */ /* DFLT Database Error: <ERROR-STRING> */ /* EC1 Shelf info error, Error=<ERROR-STRING> */ /* Error disabling corresponding T3s, Error=<ERROR-STRING> */ /* Error enabling supported STS1, Error=<ERROR-STRING> */
SNVS	Status, Not in Valid State
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, EC1 port EC1-24 provisioning is changed to the OOS-AU,AINS state.

```
ENT-EC1::EC1-24:::::IS,AINS;
```

In the following example, EC1 port EC1-24, EC1-25 and EC1-26 are being provisioned using &&-ranging, to the OOS-MA state, but the port EC1-25 is already provisioned.

```
ENT-EC1::EC1-24&&-26:::::OOS;
```

For this example, the output response shown assumes CID 1 was used to enter the command and a system generated CTAG value of Pfc518. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pfc518 PRTL
  "EC1-25:ERRCDE=SNVS"
  /* Status, Not in Valid State */
/* ENT-EC1::EC1-24&&-26:::::OOS [Pfc518] (1) */
;
```

RELATED COMMANDS

```
DLT-EC1
ED-EC1
RMV-EC1
RST-EC1
RTRV-DFLT-EC1
RTRV-EC1
SET-DFLT-EC1
```

COMMAND CODE: **ENT-EQPT**
COMMAND NAME: **ENTER EQUIPMENT**

PURPOSE

The ENT-EQPT command assigns an equipment object entity (AID) and provisions the specified equipment, regardless of whether the equipment is installed in the system.

If the specified equipment is being entered to the IS state, any off-line diagnostic test is executed and any applicable firmware (except for an MCB), software, and provisioning data are downloaded before the equipment is placed in-service. If CMDMDE=NORM is entered and the diagnostic test or the download fails, the ENT-EQPT command is denied. If CMDMDE=FRCD is entered and the diagnostic test or the download fails, the command is completed and an equipment-specific condition type is set for the failed equipment entity.

If an AID of SHELF-2-1-1 or SHELF-3-1-1 to provision a CS SHELF and PST of IS is entered, all modules in the SHELF (i.e., M40, CDB, P56, and SPB) are provisioned. If the modules provisioned are present in the slot, power-on-diagnostics is run on the modules before they are placed in-service.

If an AID of I/O SHELF and PST of IS is entered, all modules in the I/O SHELF (i.e., EP3, ES1, O1B, O4M, S3M, IPB, CDB, SPB, P39, P56, and RPB), and all modules in the ES (i.e., M16s and M32s depending on the MTXSTYPE, CDA, CDB, P56, and SPB if not already provisioned, and cabling between I/O dual subrack and the ES) are provisioned. If the modules provisioned are present in their slots, power-on-diagnostics are run on the modules before they are placed in-service.

If an AID of SI48-O4M I/O SHELF with PST of OOS-MA and SST of MT is entered, all working O4M and S3M modules in the shelf are provisioned in OOS-MA,MT state. All protect O4M and S3M modules in the shelf are provisioned in IS,STBYH state. If provisioned modules are present in their slots, power-on-diagnostics are run on the modules before they are placed in-service.

If an AID of I/O SHELF and PST of OOS is entered, all modules in the I/O SHELF *except* EP3, ES1, O1B, O4M and S3M (i.e., IPB, RPB, CDB, SPB, P39, and P56), and all modules in the ES (i.e., M16 and M32 depending on the MTXSTYPE, CDA, CDB, P56, and SPB if not already provisioned, and cabling between I/O dual subrack and the ES) are provisioned. If the modules provisioned are present in the slot, power-on-diagnostics are run on the modules before they are placed in-service. The EP3, ES1, O1B, O4M, and S3M modules remain in an OOS-MA, UAS or OOS-AUMA, UAS state (whichever was present before ENT-EQPT was issued).

If an AID specifies a working O4M module with OOS-MA,MT state, the working O4M is provisioned in OOS-MA,MT state. If an AID specifies a working S3M module, the working S3M is provisioned in OOS-MA, MT state. If provisioned modules are present in their slots, power-on-diagnostics are run on the modules before they are placed in-service.

NOTE: Although the ON parameter value can be an integer from 0 to 999999, the user should limit the number of delayed activation commands at any given time to 500.

An equipment entity that has not been provisioned has a PST,SST of OOS-AUMA,UEQ&UAS or OOS-MA,UAS (depending on whether the equipment is installed in the system). Executing an ENT-EQPT command causes the following primary state transitions for the specified equipment entity. Secondary states associated with the equipment entity before and after the command is executed depend upon events detected by the system. Refer to Appendix G, State Transitions for additional information on state values and state transitions for each type of equipment entity.

Current PST,SST	Next PST State if ENT-EQPT Entered with PST,SST Value of:		
	IS,<NoVal>	OOS,<NoVal>	OOS,MT
For EP3, ES1, M16, M32, M40, O1B, O4M, and S3M Equipment Entities:			
OOS-AUMA,UEQ&UAS	OOS-AU	OOS-AUMA	OOS-AUMA
OOS-MA,UAS	IS (if eqpt functional) IS-ANR (diags fail but downloads) OOS-AU (download fails)	OOS-AUMA (if wrong eqpt) OOS-MA (otherwise)	OOS-AUMA (if wrong eqpt) OOS-MA (otherwise)
For DSI, HMU, and LMU Equipment Entities:			
OOS-AUMA,UEQ&UAS	OOS-AU	OOS-AUMA	OOS-AUMA
OOS-MA,UAS	IS (if eqpt functional) IS-ANR (diags fail but downloads) OOS-AU (if wrong eqpt.)	OOS-AUMA (if wrong eqpt) OOS-MA (otherwise)	OOS-AUMA (if wrong eqpt) OOS-MA (otherwise)
For CDA, CDB, EOB, IOB, IPB, P39, P56, OXB, and RPB Equipment Entities:			
OOS-AUMA,UEQ&UAS	OOS-AU	OOS-AUMA	Denied
OOS-MA,UAS	IS (if eqpt functional) IS-ANR (diags fail but provisions) OOS-AU (provisioning fails)	OOS-AUMA (if wrong eqpt) OOS-MA (otherwise)	Denied
For ACM, CIM, CPU, DSB, ICM, IPU, SIO, and SPB Equipment Entities:			
OOS-AUMA,UEQ&UAS	OOS-AU	OOS-AUMA	Denied
OOS-MA,UAS	IS (if eqpt functional) OOS-AU (provisioning fails)	OOS-MA	Denied
For LT1, LT2, LT4, LT5, LT8, RDU, PDU, and SBT Equipment Entities:			
OOS-AUMA,UEQ&UAS	OOS-AU	Denied	Denied
OOS-MA,UAS	IS	Denied	Denied
For PSF Equipment Entities:			
OOS-AUMA,UEQ&UAS	OOS-AU	OOS-AUMA	Denied
OOS-MA,UAS	IS (if eqpt functional) OOS-AU (Pwr-Lock Off)	OOS-MA	Denied
For PST Equipment Entities:			
OOS-AUMA,UEQ&UAS	OOS-AU	Denied	Denied
OOS-MA,UAS	IS (if eqpt functional) OOS-AU (Pwr-Lock Off)	Denied	Denied
For DSK Equipment Entities:			
OOS-MA,UAS	IS (if disk equalizes) OOS-AU (disk equalization fails)	OOS-MA	Denied
For OPD Equipment Entities:			
OOS-MA,UAS	IS	Denied	Denied
For RSP Equipment Entities:			
OOS-AUMA,UEQ&UAS	OOS-AU	Denied	Denied

Current PST,SST	Next PST State if ENT-EQPT Entered with PST,SST Value of:		
	IS,<NoVal>	OOS,<NoVal>	OOS,MT
OOS-MA,UAS	IS (if eqpt functional) OOS-AU (if provisioning fails)	Denied	Denied
For ACL Equipment Entities:			
OOS-MA,UAS	IS (if supporting CIM is IS) OOS-AU (if CIM is not IS)	Denied	Denied
OOS-MA,UAS	IS (if supporting CIM is IS) OOS-AU (if CIM is OOS-AU) Denied otherwise	OOS-MA/OOS-AUMA (if supporting CIM is OOS-MA/OOS-AUMA) Denied otherwise	Denied
For IO SHELF and QUAD Equipment Entities:			
OOS-MA,UAS	IS	IS	IS
For CS and ES SHELF Equipment Entities :			
OOS-MA,UAS	IS	IS	Denied
For PRT and SWI Equipment Entities:			
OOS-AUMA,UEQ&UAS	OOS-AU	Denied	Denied
OOS-MA,UAS	IS	Denied	Denied

A MAN condition type is set for the specified equipment entity if ENT-EQPT with PST of OOS and SST of <No-Val> is entered (provisioned to an OOS-MA or OOS-AUMA state).

A TSA condition type is set for the specified DSI, EP3, ES1, HMU, LMU, M16, M32, O1B, O4M, or S3M circuit pack if ENT-EQPT with PST of OOS and SST of MT is entered (the specified DSI, EP3, ES1, HMU, LMU, M16, M32, O1B, O4M, or S3M circuit pack is provisioned to an OOS-MA,MT or OOS-AUMA,MT state).

An IMPROPRMVL condition type is set for the specified equipment entity if the specified equipment is not installed in the system and ENT-EQPT with PST of IS is entered (provisioned to an OOS-AU state).

A BPMISM condition type and SST of MEA are set for the specified SHELF if LHSTYPE or UHSTYPE does not match the type of shelf equipped in the system (i.e., if LHSTYPE and/or UHSTYPE specify a SI36 shelf and the actual equipped shelf type is a SI48 shelf).

When an ENT-EQPT command is successfully executed with a PST of IS, PBTYPE of RPB, while an IPB module is physically located in the RPB slot, the IPB module transits to an OOS-AU,MEA state and a PRCDRERR condition is set.

When an ENT-EQPT command is successfully executed with a PST of IS, PBTYPE of IPB, while an RPB module is physically located in the IPB slot, the RPB module transits to an OOS-AU,MEA state and a PRCDRERR condition is set.

An equipment specific condition type is set for the specified equipment entity if the equipment is partially or totally failed and ENT-EQPT with PST of IS is entered (provisioned to an OOS-AU or IS-ANR state). Refer to Appendix C, Condition Types for a list and definition of condition types.

The provisioning of supporting equipment must be performed prior to the provisioning of some types of equipment entities. The supporting equipment provisioning dependencies are:

- For DSK and OPD equipment: the associated PST equipment entity must be provisioned first.
- For ACL equipment: the associated ACM, CIM, LT4, and LT8 equipment entities must be provisioned first.
- For P39 and P56 equipment: the associated SHELF equipment entity must be provisioned first.
- For SPB equipment: the associated ACL, P56, and SHELF equipment entities must be provisioned first.
- For CDB, DSB, EP3, ES1, IPB, O1B, O4M, RPB, and S3M equipment, the associated SHELF equipment entity must be provisioned first.

- For O4M equipment: all three associated S3M equipment entities must be provisioned first.
- For EP3 equipment other than the EP3 located in the left-most card slot of an SI48 half-shelf: the EP3 equipment entity physically located to the left of the specified EP3 must be provisioned first.
- For ES1 equipment other than the ES1 located in the left-most card slot of an SI48 half-shelf: the ES1 equipment entity physically located to the left of the specified ES1 must be provisioned first.
- For DSI, PRT, and SWI equipment: the associated DS1 QUAD equipment entity must be provisioned first.
- For HMU equipment: the associated DS3 QUAD equipment entity must be provisioned first.
- For M16, M32 or M40 equipment, the associated Matrix SHELF equipment entity must be provisioned first.
- For AID=SHELF, both LHSTYPE and UHSTYPE do not refer to the same half shelf type (i.e., O1Bxx48, O4Mxx48 or {EP3/ES1}x48, {EP3/ES1}x36 half shelf type)

When the shelf 1 in Center Stage rack 2 and rack 3 is provisioned, the default cards will be M40s.

If an AID of SHELF or QUAD (identifies an I/O shelf or I/O quad) is specified in an ENT-EQPT command, the SHELF/QUAD entity transitions to a PST of IS, regardless of whether a PST of IS or OOS is entered.

If an AID of SHELF and a PST of IS is entered in an ENT-EQPT command, all of the associated equipment in the shelf, *including* the I/O circuit packs and the supporting equipment for the shelf (i.e., the EP3, ES1, O1B or O4M I/O circuit packs, the supporting S3M, CDB, IOB, IPB, RPB, P39, P56, EOB, and SPB circuit packs for the shelf, the associated End Stage CDA, CDB, M16, M32, P56, and SPB circuit packs if not previously provisioned, the associated ACL, ACM, CIM, LT4, and LT8 if not previously provisioned, the associated CDB, EOB, IOB, P56, and SPB circuit packs and the cables between the I/O shelf and the EOC shelf if not already provisioned, and any P56 and SPB circuit packs in other I/O shelves required to maintain SPB presence detection) are automatically provisioned as if an ENT-EQPT command was executed with a PST of IS for each equipment entity. If the specified SHELF is the first shelf in the rack/bay, the associated PDU is also automatically provisioned to an IS state.

If an AID of SHELF and a PST of OOS,<NoVal> is entered in an ENT-EQPT command, all of the associated equipment in the shelf (*excluding* the I/O circuit packs and the S3Ms) and the supporting equipment for the shelf are automatically provisioned as if an ENT-EQPT command was executed with a PST of IS for each equipment entity. If the specified SHELF is the first shelf in the rack/bay, the associated PDU is also automatically provisioned to an IS state.

If an AID of SHELF and a PST,SST of OOS,MT is entered in an ENT-EQPT command, all of the associated equipment in the shelf and the supporting equipment for the shelf, (*except* the I/O circuit packs, S3Ms and the supporting End Stage M16 or M32 circuit packs), are automatically provisioned as if an ENT-EQPT command was executed with a PST of IS for each equipment entity. In addition, the associated EP3, ES1, O1B, O4M, or S3M I/O circuit packs and the End Stage M16 or M32 circuit packs (if not previously provisioned) are automatically provisioned as if an ENT-EQPT command was executed with a PST,SST of OOS,MT for each EP3, ES1, M16, M32, O1B, O4M, and S3M equipment entity.

If an AID of QUAD and a PST of IS is entered in an ENT-EQPT command, all of the associated equipment in the quad, *including* the I/O circuit packs, and the supporting equipment for the quad (i.e., the DSI or LMU and HMU I/O circuit packs, the supporting IPU, OXB, PRT, PSF, and SWI if not previously provisioned, the associated End Stage CDA, CDB, M16, M32, P56, and SPB circuit packs if not previously provisioned, the associated ACL, ACM, CIM, LT4, and LT8 if not previously provisioned, the associated CDB, EOB, P56, and SPB circuit packs and the cables between the I/O quad and the EOC shelf if not already provisioned, and any IPU and PSF circuit packs in other I/O quads required to maintain IPU presence detection) are automatically provisioned as if an ENT-EQPT command was executed with a PST of IS for each equipment entity. If the specified QUAD is the first quad in the rack/bay, the associated RDU is also automatically provisioned to an IS state.

If an AID of QUAD and a PST of OOS,<NoVal> is entered in an ENT-EQPT command, all of the associated equipment in the shelf, *excluding* the I/O circuit packs, and the supporting equipment for the quad are automatically provisioned as if an ENT-EQPT command was executed with a PST of IS for each equipment entity. If the specified QUAD is the first quad in the rack/bay, the associated RDU is also automatically provisioned to an IS state.

If an AID of QUAD and a PST,SST of OOS,MT is entered in an ENT-EQPT command, all of the associated equipment in the shelf and the supporting equipment for the shelf, *except* the I/O circuit packs, and the supporting End Stage M16 or M32 circuit packs, are automatically provisioned as if an ENT-EQPT command was executed with a PST of IS for each equipment entity. In addition, the associated DSI or HMU and LMU I/O circuit packs and the End Stage M16 or M32 circuit packs (if not previously provisioned) are automatically provisioned as if an ENT-EQPT command was executed with a PST,SST of OOS,MT for each DSI, HMU, LMU, and M16, M32 equipment entity.

If an AID of SHELF is entered in an ENT-EQPT command, the system does *not* automatically provision the DSB module. When the DSB is successfully provisioned with the ENT-EQPT and a PST of IS, all of the upper layer parameters and specific lower layer parameters are initialized.

An ENT-EQPT command can be scheduled for delayed activation. However, command parsing and parameter validation is not performed until the command is executed (at the delay activated scheduled date and time).

An ENT-EQPT command is denied if:

- The specified equipment entity does not have an SST of UAS.
- A SHELF or QUAD equipment entity is specified and the SHELF or QUAD is already IS.
- A supporting equipment entity is not provisioned prior to provisioning a dependent equipment entity. (Refer to the paragraph, above, on supporting equipment provisioning dependencies.)
- The command is issued to provision a DSB module in a half-shelf that is not defined as carrying O1B, O4M, or S3M modules.
- The command is issued to provision an IPB in a shelf that is defined to carry an RPB (i.e., PBTYP=RPB).
- The command is issued to provision an RPB in a shelf that is defined to carry an IPB (i.e., PBTYP=IPB).
- The command is issued to provision LT8s in an ACL slot and if one or more LTxs in the other ACL slots is already provisioned as LT4s.
- The command is issued to provision LT4s in an ACL slot and if one or more LTxs in the other ACL slots is already provisioned as LT8s.
- The command is issued to provision an I/O SHELF above the current system size.
- An end stage SHELF and ESTYPE of M32 is entered and the specified end stage is not a high density backplane.
- The PBTYP parameter has been entered, but AID has not been set to an I/O SHELF. IPBs can be specified for I/O shelves containing EP3, ES1, or O1B modules. RPBs can be specified only in I/O shelves containing O1B or O4M modules.
- The command is issued to provision a working O4M module with OOS-MA,MT state and any of its associated working S3M modules are not in OOS-MA,MT state.
- The command is issued to provision a protection O4M module or any protection S3M module with OOS-MA,MT state.
- The command is issued with the AID of a working O4M module with no SST specified and any of the supporting S3Ms has MT secondary state.
- An invalid parameter value or combination of parameter values is entered.
- The command is issued to provision an expansion shelf that is not upgraded to LT8.
- If the LHSTYP and the UHSTYP both do not refer to O1B half shelf type or O4M half shelf type.
- The command is entered on a 240-, 2688-, or 3360-port system, and a value other than M32 is specified for ESTYPE.
- The command is entered on a 240-port system, and QTYPE=DS3 or LHSTYP/UHSTYP=EP3F36, EP3E36, EP3S36 or ES136.
- The command is entered on a 240-port system, and an LT8 AID is specified along with GRTHSTYP=LT4.
- The command is entered on a 240-port system, and MTXINTF=ELECT. 240-port system shelves can only be optically connected.
- The command is entered on a 240-port system, and an AID of CIM or LT4 is entered.
- The system size is 3360 ports, AID=SHELF, the shelf is located in the fifth clover, and MTXINTF has a value other than OPTCL.
- The system size is 3360 ports, LHSTYP/UHSTYP=EP3F36, EP3E36, EP3S36, or ES136, and the AID to be provisioned resides in leaf 5.

- The system size is 2688 ports, LHSTYPE/UHSTYPE=EP3F36, EP3E36, EP3S36, or ES136, and the AID to be provisioned resides in an expansion shelf.

INPUT FORMAT

```
ENT-EQPT: [TID]:AID:[CTAG]:[ON][,DATE][,TIME][,FLAG]::[CBLLENGTH=][,CMDMDE=]
[,DFLTSG=][,DIST=][,ESTYPE=][,LBO1=][,LBO2=][,LBO3=][,LHSTYPE=]
[,MTXINTF=][,PBTYP=][,QTYPE=][,RPLSHELF=][,UHSTYPE=]:
[PST][,SST];
```

INPUT PARAMETERS

TID	<p><1-20 VALID TID CHARACTERS></p> <p>Default: <SID></p> <p>Addressing: None</p> <p>Description: Target Identifier, specifies the network node TID for the command.</p>
AID	<p>EQUIPMENT_AID:</p> <p>{ACL-1-2-{9-28, 37-56, 65-84, 93-112}}</p> <p>{ACM-1-2-{3-7, 10-14}}</p> <p>{CDA-{4, 5, 10, 11, 16, 17, 22, 23, 102, 103}-3-1}</p> <p>{SI36: CDB-{6-9, 12-15, 18-21, 24-43}-{1, 3}-{1-2},</p> <p>{SI48: CDB-{2-43,104-111,112-135,136-141}-{1, 3}-{1, 2}</p> <p>{CIM-1-2-{3-7, 10-14}}</p> <p>{CPU-1-2-{1-2}}</p> <p>{DSB-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{1-2}}</p> <p>{DSI-{44-63}-{1-4}-{1-32}}</p> <p>{DSK-1-3-1,</p> <p style="padding-left: 40px;">DSK-1-4-2}</p> <p>{EOB-{5}-{1, 3}-{1-5}}</p> <p>{SI48: EOB-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{1-2},</p> <p style="padding-left: 40px;">EOC: EOB-{4-5, 10-11, 16-17, 22-23, 102, 103}-1-{1-7, 9-15}}</p> <p>{SI48: EP3-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42,</p> <p style="padding-left: 40px;">104-106,108-110, 136-141}-{1, 3}-{1-18},</p> <p style="padding-left: 40px;">EP3-{9, 21, 35, 43, 107}-3-{1-18},</p> <p style="padding-left: 40px;">EP3-{15, 27, 31, 39, 111}-1-{1-18}}</p> <p>{SI36: EP3-{6-8, 12-14}-{1, 3}-{1-14},</p> <p style="padding-left: 40px;">EP3-9-3-{1-14},</p> <p style="padding-left: 40px;">EP3-15-1-{1-14}}</p> <p>{SI48: ES1-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42,</p> <p style="padding-left: 40px;">104-106,108-110,136-141}-{1, 3}-{1-18},</p> <p style="padding-left: 40px;">ES1-{9, 21, 35, 43,107}-3-{1-18},</p> <p style="padding-left: 40px;">ES1-{15, 27, 31, 39,111}-1-{1-18}}</p> <p>{SI36: ES1-{6-8, 12-14}-{1, 3}-{1-14},</p> <p style="padding-left: 40px;">ES1-9-3-{1-14},</p> <p style="padding-left: 40px;">ES1-15-1-{1-14}}</p> <p>{HMU-{44-53}-{1-4}-{1-8}}</p> <p>{ICM-1-2-{1, 2, 8, 9}}</p> <p>{IOB-{6-8, 12-14}-{1, 3}-{1, 3, 5, 7},</p> <p style="padding-left: 40px;">IOB-9-3-{1, 3, 5, 7},</p> <p style="padding-left: 40px;">IOB-15-1-{1, 3, 5, 7}}</p> <p>{IPB-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{1-2}}</p> <p>{IPU-{44-63}-{1-4}-{1-8}}</p> <p>{LMU-{44-53}-{1-4}-{1-32}}</p>

{LT1-1-1-{1-6}}
 {LT2-1-1-{1-6}}
 {LT4-1-1-{7-16}}
 {LT5-1-1-{2-6}}
 {LT8-1-1-{7-16}}
 {M16-{2-5, 10-11, 16-17, 22-23}-3-{1-16}}
 {M32-{4-5, 10-11, 16-17, 22-23, **102, 103**}-3-{1-16},
 M32-{5}-{1, 3}-{1-3, 6-8}}
 {M40-{2-3}-{1, 3}-{1-16}}
 {O1B-{6-9, 12-15, 18-21, 24-43, **104-111, 112-135, 136-141**}-{1, 3}-{2-9, 11-18}}
 {O4M-{6-9, 12-15, 18-21, 24-43, **104-111, 112-135, 136-141**}-{1, 3}-{2-3, 11-12}}
 {OPD-1-3-1,
 OPD-1-4-2}
 {OXB-{44-63}-{1-4}-{1-2}}
 {P39-{6-9, 12-15, 18-21, 24-43, **104-111, 112-135, 136-141**}-{1, 3}-{1-3},
 P39-{4, 5, 10, 11, 16, 17, 22, 23, **102, 103**}-1-{1-3},
 P39-{4, 5, 10, 11, 16, 17, 22, 23, **102, 103**}-3-{1-4},
 P39-{5}-{1, 3}-{1-4}}
 {P56-{6-9, 12-15, 18-21, 24-43, **104-111, 112-135, 136-141**}-{1, 3}-{1-5},
 P56-{2-3}-{1, 3}-{1-4},
 P56-{4, 5, 10, 11, 16, 17, 22, 23, **102, 103**}-1,3-{1-5},
 P56-{5}-{1, 3}-{1-4}}
 {PDU-{2-43, **102-111, 112-135, 136-141**}-0-1}
 {PRT-{44-63}-{1-4}-{8, 16, 24, 32}}
 {PSF-1-{3, 4}-{1, 2},
 PSF-{44-63}-{1-4}-{1-2}}
 {PST-1-{3, 4}-{1-2}}
 {QUAD-{44-63}-{1-4}-{1-4}}
 {RDU-{44-63}-0-1}
 {RPB-{6-9, 12-15, 18-21, 24-43, **104-111, 112-135, 136-141**}-{1, 3}-{1-2}}
 {RSP-{1, 101}-0-1}
 {S3M-{6-9, 12-15, 18-21, 24-43, **104-111, 112-135, 136-141**}-{1, 3}-{4-9, 13-18}}
 {SBT-1-2-{1-4}}
 {SHELF-{4-43, 102-141}-{1, 3}-1}
 {SIO-1-2-{1-2, 8-9}}
 {SPB-{2-43, **102-111, 112-135, 136-141**}-{1, 3}-{1-2}}
 {SWI-{44-63}-{1-4}-{1-7, 9-15, 17-23, 25-31}}

Default: Entry Required
Addressing: None
Description: Equipment AID, identifies the equipment entity. Refer to Appendix B Access Identifiers (AIDs) for a definition of equipment mnemonics.
Restrictions: ENT-EQPT is denied if the specified AID does not identify an EP3 or ES1 circuit pack and a LBO1, LBO2, or LBO3 value is entered.
 ENT-EQPT is denied if a value for DFLTSIG is entered and the specified AID does not identify an EP3 circuit pack and the corresponding LHSTYPE or UHSTYPE is not provisioned as {EP3F36, EP3F48}.
 ENT-EQPT is denied if the specified AID does not identify a SHELF equipment entity and an LHSTYPE or UHSTYPE value is entered.
 ENT-EQPT is denied if the specified AID does not identify a SHELF or QUAD equipment entity and a value for MTXINTF is entered.
 ENT-EQPT is denied if the specified AID does not identify a main/working EP3, ES1, O1B, O4M, S3M entity or an M16, M32, SHELF, or QUAD entity and an SST of MT is entered.

ENT-EQPT is denied if the specified AID identifies a protection O1B, O4M, or S3M entity and an SST of MT is entered.

ENT-EQPT is denied if the specified AID identifies an ACL, LT1, LT2, LT4, LT5, LT8, OPD, PST, RSP, or SBT equipment entity and a PST value of OOS is entered.

ENT-EQPT is denied if the specified AID identifies an EP3 circuit pack and the corresponding Shelf LHSTYPE or UHSTYPE is not provisioned with {EP3E36, EP3E48, EP3F36, EP3F48, EP3S36, EP3S48}.

ENT-EQPT is denied if the specified AID identifies an ES1 circuit pack and the corresponding Shelf LHSTYPE or UHSTYPE is not provisioned with {ES136, ES148}.

ENT-EQPT is denied if the specified AID of SHELF is entered and the provisioning of LHSTYPE or UHSTYPE results in a mixture of SI36 and SI48 half-shelves or shelves specified within the same rack.

ENT-EQPT is denied if the specified AID identifies an EOB in a SI48 half-shelf which is not defined as a Remote I/O shelf (i.e., MTXINTF is not OPTCL).

ENT-EQPT is denied if the specified AID identifies a DSB module in a half-shelf that is not defined as carrying O1B or O4M modules.

ENT-EQPT is denied if the specified AID identifies an M16 module in an ES SHELF that is defined with ESTYPE of M32.

ENT-EQPT is denied if the specified AID identifies a SHELF-2-1-1 or SHELF-3-1-1 to provision a CS SHELF and PST of OOS is entered.

ENT-EQPT is denied when an AID of {SHELF-{9, 21, 35, 43}-1-1}, {SHELF-{15, 27, 31, 39}-3-1}, or a remote companion SHELF {SHELF-{112-135}-{1,3}-1} is entered and the LHSTYPE/UHSTYPE do not match the shelf type of O1B or O4M (OC3 or OC12, respectively) or the LHSTYPE/UHSTYPE specifies an OC3/OC12 mix in the same shelf.

ENT-EQPT is denied when an AID of {SHELF-{9, 21, 35, 43}-1-1}, {SHELF-{15, 27, 31, 39}-3-1}, or a remote companion SHELF {SHELF-{112-135}-{1,3}-1} is entered and its associated OCn companion shelf is already provisioned as an SI48-ES1, SI48-EP3, SI36, or DS_n shelf.

ENT-EQPT is denied when a main shelf is entered to provision an SI48-ES1, SI48-EP3, SI36, or DS_n shelf and the associated companion shelf is already provisioned as an OC_n companion shelf.

ENT-EQPT is denied when an AID for a remote companion SHELF {SHELF-{112-135}-{1,3}-1} is entered, but the ACL link assigned to the companion shelf is currently used by an ASYNC rack/bay.

When an ENT-EQPT command with an AID for a companion SHELF is entered, the provisioning of the ASYNC shelves which are assigned the same ACL link is denied.

CTAG	<p><1–6 VALID CTAG CHARACTERS></p> <p>Default: <System Assigned CTAG Value></p> <p>Addressing: None</p> <p>Description: Correlation Tag, associates input command with its output responses.</p>				
ON	<p>{ON_AID:0–999999, <NoVal>}</p> <p>Default: <NoVal></p> <p>Addressing: None</p> <p>Description: Order Number, unique user–assigned integer number (up to six digits) used to identify scheduled (delay activated) commands. Values are:</p> <table> <tr> <td>{0–999999}</td><td>User–assigned Order Number. The command is scheduled to be executed as specified by DATE and TIME. If no value is entered for DATE or TIME, the command is scheduled for delayed manual activation (the command is entered in the delayed activation table and manually scheduled by using the ACT–DA command).</td></tr> <tr> <td><NoVal></td><td>No Value, the command is executed immediately. (No value is entered for ON (Order Number), DATE, and TIME if ENT–EQPT is to be executed immediately – not delay activated.)</td></tr> </table> <p>Restrictions: ENT–EQPT is denied if no value is entered for ON (Order Number) and a value is entered for either DATE, TIME, or FLAG.</p>	{0–999999}	User–assigned Order Number. The command is scheduled to be executed as specified by DATE and TIME. If no value is entered for DATE or TIME, the command is scheduled for delayed manual activation (the command is entered in the delayed activation table and manually scheduled by using the ACT–DA command).	<NoVal>	No Value, the command is executed immediately. (No value is entered for ON (Order Number), DATE, and TIME if ENT–EQPT is to be executed immediately – not delay activated.)
{0–999999}	User–assigned Order Number. The command is scheduled to be executed as specified by DATE and TIME. If no value is entered for DATE or TIME, the command is scheduled for delayed manual activation (the command is entered in the delayed activation table and manually scheduled by using the ACT–DA command).				
<NoVal>	No Value, the command is executed immediately. (No value is entered for ON (Order Number), DATE, and TIME if ENT–EQPT is to be executed immediately – not delay activated.)				

DATE	{YY-MM-DD:{00-37,70-99} – {1-12, ALL} – {1-31, ALL}, {DAY:{SUN, MON, TUE, WED, THU, FRI, SAT, EVEN, ODD, ALL} }, <NoVal>}
Default:	<NoVal>
Addressing:	None
Description:	<p>Date, specifies the date the command is scheduled to be executed. A specific date is specified by the value format <YY> – <MM> – <DD> where <YY> is the year, <MM> is the month, <DD> is the day. Values for <YY> from 70 through 99 are interpreted as the year 1970 through the year 1999 and 00 through 37 are interpreted as the year 2000 through the year 2037. Values are:</p> <p><YY> – <MM> – <DD> Command is scheduled to be executed on the specified year, month, and day.</p> <p><YY> – <MM> – ALL Command is scheduled to be executed every day on the specified year and month.</p> <p><YY> –ALL– <DD> Command is scheduled to be executed every month on the specified year and day.</p> <p><YY> –ALL–ALL Command is scheduled to be executed every day of every month of the specified year.</p> <p>ALL– <MM> – <DD> Command is scheduled to be executed every year on the specified month and day.</p> <p>ALL– <MM> –ALL Command is scheduled to be executed every day of every year on the specified month.</p> <p>ALL–ALL– <DD> Command is scheduled to be executed every month of every year on the specified day.</p> <p>SUN Command is scheduled to be executed every Sunday.</p> <p>MON Command is scheduled to be executed every Monday.</p> <p>TUE Command is scheduled to be executed every Tuesday.</p> <p>WED Command is scheduled to be executed every Wednesday.</p> <p>THU Command is scheduled to be executed every Thursday.</p> <p>FRI Command is scheduled to be executed every Friday.</p> <p>SAT Command is scheduled to be executed every Saturday.</p> <p>EVEN Command is scheduled to be executed every even day (from January 1, 1970).</p> <p>ODD Command is scheduled to be executed every odd day (from January 1, 1970).</p> <p>ALL Command is scheduled to be executed every day.</p> <p><NoVal> No Value, the command is executed immediately if no value is entered for ON (Order Number), DATE, and TIME (not delay activated), or the command is scheduled to be executed at the next occurrence of the time specified by TIME.</p>
Restrictions:	ENT–EQPT is denied if a value is entered for DATE and no value is entered for ON (Order Number).

TIME	{HH-MM-SS:{0-23, ALL} – {0-59} – {0-59, HLF, QTR}, <NoVal>}
	Default: <NoVal>
	Addressing: None
	Description: Time, specifies the time the command is scheduled to be executed. A specific time is specified by the value format <HH> – <MM> – <SS> where <HH> is the hour, <MM> is the minute, and <SS> is the second. A value for <SS> must be entered, but the system uses a value of 0 when an integer value is entered. Values are:
	<HH> – <MM> – <SS> The command is scheduled to be executed at the specified hour and minute.
	ALL– <MM> – <SS> The command is scheduled to be executed every hour at the specified minute.
	<HH> – <MM> –HLF Two commands are scheduled to be executed, one command at the hour and minute specified by <HH> and <MM> and one command a half-hour (30 minutes) later. (<MM> must be less than 30.)
	<HH> – <MM> –QTR Four commands are scheduled to be executed, one command at the hour and minute specified by <HH> and <MM> and one command each quarter-hour (15 minutes) later. (<MM> must be less than 15.)
	ALL– <MM> –HLF Two commands are scheduled to be executed every hour, one command at the minute specified by <MM> and one command a half-hour (30 minutes) later. (<MM> must be less than 30.)
	ALL– <MM> –QTR Four commands are scheduled to be executed every hour, one command at the minute specified by <MM> and one command each quarter-hour (15 minutes) later. (<MM> must be less than 15.)
	<NoVal> No Value, the command is executed immediately if no value is entered for ON (Order Number), DATE, and TIME (not delay activated), or the command is scheduled to be executed at the current time on the date specified by DATE.
	Restrictions: ENT-EQPT is denied if a value is entered for TIME and no value is entered for ON (Order Number). ENT-EQPT is denied if <SS> of HLF or QTR is entered and <MM> is not less than 30 or 15, respectively.
FLAG	{0, <NoVal>}
	Default: <NoVal>
	Addressing: None
	Description: Flag. The value for FLAG is verified, but not processed by the system.
	Restrictions: ENT-EQPT is denied if a value is entered for FLAG and no value is entered for ON (Order Number).

CBLENGTH=	{<Integers in 5 meter increments from 5 through 500 meters>, <NoVal>}
Default:	Entry required if AID for QUAD entered and provisioning the first Quad in a DS1/DS3 Quad shelf, or if AID of QUAD or SHELF is entered and MTXINTF is specified as OPTCL. <NoVal> otherwise
Addressing:	None
Description:	Optical Cable Length (in meters), specifies the cable length (in meters) of the optical cable between a DS1/DS3 Quad shelf or SI36/SI48 shelves and the EOC shelf. Non-numeric values are: <NoVal> CBLENGTH is not applicable if AID does not identify a QUAD or SHELF.
Restrictions:	<p>ENT-EQPT is denied if a value for CBLENGTH is entered and the specified AID does not identify an SI36/SI48 SHELF or QUAD equipment entity.</p> <p>ENT-EQPT is denied if a value for CBLENGTH is entered and the value specified for MTXINTF is not OPTCL.</p> <p>ENT-EQPT is denied if a value for CBLENGTH is entered and all the EOBs, IOBs, or OXBs in the shelf are not in an OOS-MA or OOS-AUMA state.</p> <p>ENT-EQPT is denied if a value for CBLENGTH is not an increment of 5.</p> <p>ENT-EQPT is denied if AID=SHELF or AID=QUAD and CBLENGTH greater than 500 is entered.</p> <p>ENT-EQPT is denied if AID of a S136 SHELF and CBLENGTH greater than 350 are specified.</p> <p>ENT-EQPT is denied if CBLENGTH is greater than 350 meters, and the supporting ES shelf has been or is being grown as M16.</p>

CMDMDE=	{FRCD, NORM}
Default:	{NORM}
Addressing:	None
Description:	Command Execution Mode. ENT–EQPT is completed regardless of the value of CMDMDE.
DFLTSIG=	{ASYNC, CBIT, STS1, <NoVal>}
Default:	{ASYNC} (if specified AID identifies an EP3 circuit pack and the corresponding LHSTYPE or UHSTYPE is EP3F36 or EP3F48) <NoVal> (if specified AID does not identify an EP3 circuit pack)
Addressing:	None
Description:	Default Signal, specifies the type of (default) signal transmitted by an EP3 circuit pack (in a FlexPoint Half–Shelf), after the EP3 has powered–on and data–base down–loaded, for each of the supported un–provisioned facilities (the signal transmitted for provisioned facilities is based on the facility provisioning). Values are:
ASYNC	Asynchronous DS3, the default transmitted signal for un–provisioned ports on the specified EP3 (in a FlexPoint Half–Shelf) is M13 formatted DS3 with DS1 AIS on all embedded DS1s.
CBIT	C–Bit DS3, the default transmitted signal for un–provisioned ports on the specified EP3 (in a FlexPoint Half–Shelf) is C–Bit formatted DS3 with DS1 AIS on all embedded DS1s.
STS1	Unequipped STS–1, the default transmitted signal for un–provisioned ports on the specified EP3 (in a FlexPoint Half–Shelf) is Unequipped STS–1.
<NoVal>	DFLTSIG is not applicable if AID does not identify an EP3 circuit pack.
Restrictions:	ENT–EQPT is denied if a value for DFLTSIG is entered and the specified AID does not identify an EP3 circuit pack and the corresponding LHSTYPE or UHSTYPE is not provisioned as {EP3F36, EP3F48}.
DIST=	{LONG, MAX, MED, SHORT, <NoVal>}
Default:	{SHORT} (if specified AID identifies an DSI circuit pack) <NoVal> (if specified AID does not identify an DSI circuit pack)
Addressing:	None
Description:	Distance, specifies the cable length of the DS1 cable connected to the DSI equipment identified by AID. Values are:
LONG	DIST configured for 440–550 feet of cable.
MAX	DIST configured for 550 feet or longer of cable.
MED	DIST configured for 220–440 feet of cable.
SHORT	DIST configured for 0–220 feet of cable.
<NoVal>	DIST is not applicable if AID does not identify an DSI circuit pack.
Restrictions:	ENT–EQPT is denied if a value for DIST is entered and the specified AID does not identify an DS1 circuit pack.

ESTYPE=	{M16, M32}	
Default:	M16 (for 672– and 1344–port systems), M32 (for 240–, 2688–, and 3360–port systems)	
Addressing:	None	
Description:	Matrix shelf type, specifies the type of matrix circuit packs used in the end stage shelf. Values are:	
	M16	M16, specifies that the Standard Density end stage shelf consists of all M16 modules or that the High Density end stage shelf consists of any mix of M16 and/or M32 modules with each M32 functioning at half the capacity.
	M32	M32, specifies that the High Density end stage shelf consists of all M32 modules each functioning at full capacity.
Restrictions:	ENT–EQPT is denied if a value for end stage shelf type is entered and the specified AID does not identify an end stage shelf, I/O shelf, or I/O quad equipment entity.	
LBO1=	{LONG, SHORT, <NoVal>}	
Default:	{SHORT} (if specified AID identifies an EP3 or ES1 circuit pack) <NoVal> (if specified AID does not identify an EP3 or ES1 circuit pack)	
Addressing:	None	
Description:	Line Build Out 1, specifies the line build out for the lowest numbered DS3 on the EP3 circuit pack identified by AID. Values are:	
	LONG	LBO configured for 226–450 feet of cable.
	SHORT	LBO configured for 0–225 feet of cable.
	<NoVal>	LBO1 is not applicable if AID does not identify an EP3 circuit pack.
Restrictions:	ENT–EQPT is denied if a value for LBO1 is entered and the specified AID does not identify an EP3 or ES1 circuit pack.	
LBO2=	{LONG, SHORT, <NoVal>}	
Default:	{SHORT} (if specified AID identifies an EP3 or ES1 circuit pack) <NoVal> (if specified AID does not identify an EP3 or ES1 circuit pack)	
Addressing:	None	
Description:	Line Build Out 2, specifies the line build out for the middle numbered DS3 on the EP3 circuit pack identified by AID. Values are:	
	LONG	LBO configured for 226–450 feet of cable.
	SHORT	LBO configured for 0–225 feet of cable.
	<NoVal>	LBO2 is not applicable if AID does not identify an EP3 circuit pack.
Restrictions:	ENT–EQPT is denied if a value for LBO3 is entered and the specified AID does not identify an EP3 or ES1 circuit pack.	
LBO3=	{LONG, SHORT, <NoVal>}	
Default:	{SHORT} (if specified AID identifies an EP3 or ES1 circuit pack) <NoVal> (if specified AID does not identify an EP3 or ES1 circuit pack)	
Addressing:	None	
Description:	Line Build Out 3, specifies the line build out for the highest numbered DS3 on the EP3 circuit pack identified by AID. Values are:	
	LONG	LBO configured for 226–450 feet of cable.
	SHORT	LBO configured for 0–225 feet of cable.
	<NoVal>	LBO3 is not applicable if AID does not identify an EP3 circuit pack.
Restrictions:	ENT–EQPT is denied if a value for LBO3 is entered and the specified AID does not identify an EP3 or ES1 circuit pack.	

LHSTYPE=	{EP3E36, EP3E48, EP3F36, EP3F48, EP3S36, EP3S48, ES136, ES148, O1BFH48, O1BSH48, O4MSH48, O4MFH48, <NoVal>}
Default:	{EP3S48} (if specified AID identifies a SHELF equipment entity) <NoVal> (if specified AID does not identify a SHELF equipment entity)
Addressing:	None
Description:	Lower Half Shelf Type, specifies the type of I/O shelf if a SHELF AID is specified. Values are:
EP3E36	High Density DS3 Shelf with 36 DS3s per shelf containing EP3s that have Enhanced capability.
EP3E48	High Density DS3 Shelf with 48 DS3s per shelf containing EP3s that have Enhanced capability.
EP3F36	High Density DS3/STS Shelf with 36 DS3s/STS1s per shelf containing EP3s that have FlexPoint (STS1/DS3) capability.
EP3F48	High Density DS3/STS1 Shelf with 48 DS3s/STS1s per shelf containing EP3s that have FlexPoint (STS1/DS3) capability.
EP3S36	High Density DS3 Shelf with 36 DS3s per shelf containing EP3s that have Standard capability.
EP3S48	High Density DS3 Shelf with 48 DS3s per shelf containing EP3s that have Standard capability.
ES136	High Density STS Shelf with 36 STSs per shelf containing ES1 circuit packs.
ES148	High Density STS Shelf with 48 STS1s per shelf containing ES1 circuit packs.
O1BFH48	O1B (OC3) Shelf with 48 DS3s/STS1s per shelf, FlexPoint capability, and Half-bandwidth to the matrix.
O1BSH48	O1B (OC3) Shelf with 48 STS1s per shelf, SONET capability, and Half-bandwidth to the matrix.
O4MSH48	O4M (OC12) Standard module in Half Density SI48–O4M shelf, and Half-bandwidth to the matrix.
O4MFH48	O4M (OC12) FlexPoint module in Half Density SI48–O4M shelf, and Half-bandwidth to the matrix.
<NoVal>	LHSTYPE is not applicable if AID does not identify a SHELF.
Restrictions:	<p>ENT–EQPT is denied if a value for LHSTYPE is entered and the specified AID does not identify a SHELF equipment entity.</p> <p>ENT–EQPT is denied if either LHSTYPE or UHSTYPE are provisioned as {O1BFH48, O1BSH48} and both LHSTYPE or UHSTYPE are not provisioned as {O1BFH48, O1BSH48}.</p> <p>ENT–EQPT is denied if either LHSTYPE or UHSTYPE are provisioned as {O4MSH48, O4MFH48} and both LHSTYPE or UHSTYPE are not provisioned as {O4MSH48, O4MFH48}.</p> <p>ENT–EQPT is denied if the specified AID identifies an EP3 circuit pack and the corresponding shelf parameter LHSTYPE or UHSTYPE is not provisioned with {EP3E36, EP3E48, EP3F36, EP3F48, EP3S36, EP3S48}.</p> <p>ENT–EQPT is denied if the specified AID identifies an ES1 circuit pack and the corresponding shelf parameter LHSTYPE or UHSTYPE is not provisioned with {ES136, ES148}.</p> <p>ENT–EQPT is denied if the specified AID of SHELF is entered and the provisioning of LHSTYPE or UHSTYPE results in a mixture of SI36 and SI48 half-shelves or shelves specified within the same rack.</p> <p>ENT–EQPT is denied if the specified AID of {SHELF–9–1–1, SHELF–15–3–1, SHELF–21–1–1, or SHELF–27–3–1} is entered and the LHSTYPE or UHSTYPE does not specify {O1BFH48, O1BSH48} or O4MFH48, O4MSH48}.</p>

ENT-EQPT is denied if the specified AID of {SHELF-9-1-1, SHELF-15-3-1, SHELF-21-1-1, or SHELF-27-3-1} is entered and the other shelf in the SI48 rack (e.g., {SHELF-9-3-1, SHELF-15-1-1, SHELF-21-3-1, SHELF-27-1-1}, respectively) is not provisioned, or is provisioned but *not* as an OC3 or OC12 shelf (i.e., LHSTYPE and UHSTYPE of {O1BFH48, O1BSH48} or {O4MFH48, O4MSH48}).
ENT-EQPT is denied if EP3E36, EP3F36, EP3S36, ES136 is entered, and the shelf AID is 104-111 or 136-141-{1,3}-1.

MTXINTF=	{ELECT, OPTCL, <NoVal>}
Default:	{ELECT} (if specified AID identifies an SI48 I/O SHELF equipment entity and the matrix size is greater than 240) {OPTCL} (if specified AID identifies an SI36 SHELF, QUAD Shelf, or remote companion SHELF equipment entity, or identifies an SI48 I/O SHELF but the matrix size is 240) <NoVal> (if specified AID does not identify an I/O SHELF or QUAD Shelf equipment entity)
Addressing:	None
Description:	Matrix Interface, specifies the type of interface used between the I/O Shelf or QUAD Shelf and the End Stage matrix. Values are: ELECT Electrical interface between SI48 SHELF and End Stage matrix. OPTCL Optical interface between the SI48 SHELF or SI36 SHELF or DS3/DS1 QUAD and the End Stage matrix. <NoVal> MTXINTF is not applicable if AID does not identify a SHELF or QUAD.
Restrictions:	ENT-EQPT is denied if a value for MTXINTF is entered and the specified AID does not identify an IO SHELF or QUAD equipment entity. ENT-EQPT is denied if MTXINTF is specified as ELECT and the AID identifies a QUAD or a SI36 SHELF. ENT-EQPT is denied if MTXINTF is specified as ELECT and the AID identifies a remote companion SHELF {SHELF-{112-135}-{1,3}-1}. ENT-EQPT is denied if a value of ELECT is entered for one SHELF and the companion SHELF is already OPTCL, or vice versa. ENT-EQPT is denied if system size is 3360, AID=SHELF, and ES- TYPE=M16 .
PBTYPE=	{IPB, RPB}
Default:	{IPB} For all shelf types except OC12 {RPB} For OC12 shelves
Addressing:	None
Description:	Protection Board Type, specifies the type of protection board the SHELF supports. Values are: IPB Internal Protection Board circuit pack. RPB Ring Protection Board circuit pack.
Restrictions:	For shelf containing OC12 modules, only RPB modules are valid .
QTYPE=	{DS1, DS3, <NoVal>}
Default:	<NoVal>
Addressing:	None
Description:	QUAD Type, specifies the quadrant type for the DS1 or DS3 I/O QUAD identified by AID. Values are: DS1 QTYPE configured for DS1 Quad. DS3 QTYPE configured for DS3 Quad. <NoVal> QTYPE is not applicable if AID does not identify an DS1 Quad.
Restrictions:	ENT-EQPT is denied if a value for QTYPE is entered and the specified AID does not identify a QUAD equipment entity.

RPLSHELF=	SI48_Shelf_AID: {SHELF-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42, 104-106,108-110,136-141 }-{1, 3}-1, SHELF-{9, 21, 35, 43}-3-1, SHELF-{15, 27, 31, 39, 107,111 }-1-1}}
	<NoVal>
Default:	Entry required if AID of QUAD entered <i>and</i> provisioning the first Quad in a DS1 Quad Rack. <NoVal> otherwise.
Addressing:	None
Description:	Replacement Shelf, specifies a SI48 shelf that is to be replaced by a DS1, DS3 QUAD. Non-AID values are: <NoVal> RPLSHELF is not applicable if AID does not identify a QUAD.
Restrictions:	ENT-EQPT is denied if a value for RPLSHELF is entered and the specified AID does not identify a QUAD equipment entity.
UHSTYPE=	{EP3E36, EP3E48, EP3F36, EP3F48, EP3S36, EP3S48, ES136, ES148, O1BFH48, O1BSH48, O4MSH48, O4MFH48, <NoVal>
Default:	{EP3S48} (if specified AID identifies a SHELF equipment entity) <NoVal> (if specified AID does not identify a SHELF equipment entity)
Addressing:	None
Description:	Upper Half Shelf Type, specifies the type of I/O shelf if a SHELF AID is specified. Values are:
EP3E36	High Density DS3 Shelf with 36 DS3s per shelf containing EP3s that have Enhanced capability.
EP3E48	High Density DS3/STS Shelf with 48 DS3s per shelf containing EP3s that have Enhanced capability.
EP3F36	High Density DS3/STS Shelf with 36 DS3s/STS1s per shelf containing EP3s that have FlexPoint (STS1/DS3) capability.
EP3F48	High Density DS3/STS Shelf with 48 DS3s/STS1s per shelf containing EP3s that have FlexPoint (STS1/DS3) capability.
EP3S36	High Density DS3 Shelf with 36 DS3s per shelf containing EP3s that have Standard capability.
EP3S48	High Density DS3/STS Shelf with 48 DS3s per shelf containing EP3s that have Standard capability.
ES136	High Density STS Shelf with 36 STSs per shelf containing ES1 circuit packs.
ES148	High Density DS3/STS Shelf with 48 STSs per shelf containing ES1 circuit packs.
O1BFH48	O1B (OC-3) Shelf with 48 DS3/STS1s per shelf, FlexPoint capability, and Half-bandwidth to the matrix.
O1BSH48	O1B (OC-3) Shelf with 48 STS1s per shelf, SONET capability, and Half-bandwidth to the matrix.
O4MSH48	O4M (OC-12) Standard module in Half Density SI48-O4M shelf, and Half-bandwidth to the matrix.
O4MFH48	O4M (OC-12) FlexPoint module in Half Density SI48-O4M shelf, and Half-bandwidth to the matrix.
<NoVal>	UHSTYPE is not applicable if AID does not identify a SHELF.
Restrictions:	ENT-EQPT is denied if UHSTYPE is entered and the specified AID does not identify a SHELF equipment entity. ENT-EQPT is denied if either LHSTYPE or UHSTYPE are provisioned as {O1BFH48, O1BSH48} and both LHSTYPE or UHSTYPE are not provisioned as {O1BFH48, O1BSH48}.

ENT-EQPT is denied if either LHSTYPE or UHSTYPE are provisioned as {O4MSH48, O4MFH48} and both LHSTYPE or UHSTYPE are not provisioned as {O4MSH48, O4MFH48}.

ENT-EQPT is denied if the specified AID identifies an EP3 circuit pack and the corresponding Shelf LHSTYPE or UHSTYPE is not provisioned with {EP3E36, EP3E48, EP3F36, EP3F48, EP3S36, EP3S48}.

ENT-EQPT is denied if the specified AID identifies an ES1 circuit pack and the corresponding Shelf LHSTYPE or UHSTYPE is not provisioned with {ES136, ES148}.

ENT-EQPT is denied if the specified AID of SHELF is entered and the provisioning of LHSTYPE or UHSTYPE results in a mixture of SI36 and SI48 half-shelves or shelves specified within the same rack.

ENT-EQPT is denied if the specified AID of {SHELF-9-1-1, SHELF-15-3-1, SHELF-21-1-1, or SHELF-27-3-1} is entered and the LHSTYPE or UHSTYPE does not specify {O1BFH48, O1BSH48} or {O4MFH48, O4MSH48}.

ENT-EQPT is denied if the specified AID of {SHELF-9-1-1, SHELF-15-3-1, SHELF-21-1-1, or SHELF-27-3-1} is entered and the other shelf in the SI48 rack (e.g., {SHELF-9-3-1, SHELF-15-1-1, SHELF-21-3-1, SHELF-27-1-1}, respectively) is not provisioned, or is provisioned but *not* as an OC3 or OC12 shelf (i.e., LHSTYPE and UHSTYPE of {O1BFH48, O1BSH48} or {O4MFH48, O4MSH48}).

ENT-EQPT is denied if EP3E36, EP3F36, EP3S36, ES136 is entered, and the shelf AID is 104-111 or 136-141-{1,3}-1.

PST	{IS, OOS}	
	Default:	{IS}
	Addressing:	None
	Description:	Primary State, specifies the primary state to provision the specified equipment entity. Values are:
	IS	In-Service
	OOS	Out-Of-Service
	Restrictions:	ENT-EQPT is denied if PST of IS and SST of MT is entered. ENT-EQPT is denied if PST of OOS is entered and the specified AID identifies an LT1, LT2, LT4, LT5, LT8, OPD, PST, RSP, or SBT equipment entity. ENT-EQPT is denied if PST of OOS is entered and an AID of SHELF-2-1-1 or SHELF-3-1-1 to provision a CS SHELF is specified.
SST	{MT, <NoVal>}	
	Default:	<NoVal>
	Addressing:	None
	Description:	Secondary State, specifies the secondary state to provision the specified equipment entity. Values are:
	MT	Maintenance
	<NoVal>	No Value is provisioned for the SST.
	Restrictions:	ENT-EQPT is denied if SST of MT and PST of IS is entered. ENT-EQPT is denied if SST of MT is entered and the specified AID does not identify a main/working EP3, ES1, M16, M32, O1B, O4M, QUAD, S3M, or SHELF entity. ENT-EQPT is denied if an SST of MT is entered and the specified AID identifies a protection O1B, O4M, S3M equipment entity.

SUCCESSFUL RESPONSE FORMAT

The following successful response format is provided when the ENT-EQPT command is executed. If the command is executed as a scheduled (delay activated) command, the delay activation Order Number is provided in the command echo line.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * The ENT-EQPT for <AID> was completed. */]
  [/ * <Command Echo> [<CTAG>] ({<CID[-VCNUM]>, CRON:<Order_Number>}) */]
;
```

The following output response format is provided if the ENT-EQPT command is scheduled for delayed activation (values for ON (Order Number), DATE, and TIME were entered).

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DELAY
  [/ * Command has been scheduled */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

AID	<p>EQUIPMENT_AID:</p> <p>{ACL-1-2-{9-28, 37-56, 65-84, 93-112}}</p> <p>{ACM-1-2-{3-7, 10-14}}</p> <p>{CDA-{4, 5, 10, 11, 16, 17, 22, 23, 102, 103}-3-1}</p> <p>{SI36: CDB-{6-9, 12-15, 18-21, 24-43}-{1, 3}-{1-2},</p> <p style="padding-left: 40px;">{SI48: CDB-{2-43,104-111,112-135,136-141}-{1, 3}-{1, 2}}</p> <p>{CIM-1-2-{3-7, 10-14}}</p> <p>{CPU-1-2-{1-2}}</p> <p>{DSB-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{1-2}}</p> <p>{DSI-{44-63}-{1-4}-{1-32}}</p> <p>{DSK-1-3-1,</p> <p style="padding-left: 40px;">DSK-1-4-2}</p> <p>{EOB-{5}-{1, 3}-{1-5}}</p> <p>{SI48: EOB-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{1-2},</p> <p style="padding-left: 40px;">EOC: EOB-{4-5, 10-11, 16-17, 22-23, 102, 103}-1-{1-7, 9-15}}</p> <p>{SI48: EP3-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42,</p> <p style="padding-left: 40px;">104-106,108-110, 136-141}-{1, 3}-{1-18},</p> <p style="padding-left: 40px;">EP3-{9, 21, 35, 43, 107}-3-{1-18},</p> <p style="padding-left: 40px;">EP3-{15, 27, 31, 39, 111}-1-{1-18}}</p> <p>{SI36: EP3-{6-8, 12-14}-{1, 3}-{1-14},</p> <p style="padding-left: 40px;">EP3-9-3-{1-14},</p> <p style="padding-left: 40px;">EP3-15-1-{1-14}}</p> <p>{SI48: ES1-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42,</p> <p style="padding-left: 40px;">104-106,108-110,136-141}-{1, 3}-{1-18},</p> <p style="padding-left: 40px;">ES1-{9, 21, 35, 43,107}-3-{1-18},</p> <p style="padding-left: 40px;">ES1-{15, 27, 31, 39,111}-1-{1-18}}</p> <p>{HMU-{44-53}-{1-4}-{1-8}}</p> <p>{ICM-1-2-{1, 2, 8, 9}}</p> <p>{IOB-{6-8, 12-14}-{1, 3}-{1, 3, 5, 7},</p> <p style="padding-left: 40px;">IOB-9-3-{1, 3, 5, 7},</p> <p style="padding-left: 40px;">IOB-15-1-{1, 3, 5, 7}}</p> <p>{IPB-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{1-2}}</p> <p>{IPU-{44-63}-{1-4}-{1-8}}</p> <p>{LMU-{44-53}-{1-4}-{1-32}}</p> <p>{LT1-1-1-{1-6}}</p> <p>{LT2-1-1-{1-6}}</p> <p>{LT4-1-1-{7-16}}</p> <p>{LT5-1-1-{2-6}}</p> <p>{LT8-1-1-{7-16}}</p> <p>{M16-{2-5, 10-11, 16-17, 22-23}-3-{1-16}}</p> <p>{M32-{4-5, 10-11, 16-17, 22-23, 102, 103}-3-{1-16},</p> <p style="padding-left: 40px;">M32-{5}-{1, 3}-{1-3, 6-8}}</p> <p>{M40-{2-3}-{1, 3}-{1-16}}</p> <p>{O1B-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{2-9, 11-18}}</p> <p>{O4M-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{2-3, 11-12}}</p> <p>{OPD-1-3-1,</p> <p style="padding-left: 40px;">OPD-1-4-2}</p> <p>{OXB-{44-63}-{1-4}-{1-2}}</p> <p>{P39-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{1-3},</p> <p style="padding-left: 40px;">P39-{4, 5, 10, 11, 16, 17, 22, 23, 102, 103}-1-{1-3},</p> <p style="padding-left: 40px;">P39-{4, 5, 10, 11, 16, 17, 22, 23, 102, 103}-3-{1-4},</p> <p style="padding-left: 40px;">P39-{5}-{1, 3}-{1-4}}</p>
-----	---

{P56 – {6–9, 12–15, 18–21, 24–43, **104–111**, 112–135, **136–141**} – {1, 3} – {1–5},
P56 – {2–3} – {1, 3} – {1–4},
P56 – {4, 5, 10, 11, 16, 17, 22, 23, **102**, **103**} – 1,3 – {1–5},
P56 – {5} – {1, 3} – {1–4}}
{PDU – {2–43, **102–111**, 112–135, **136–141**} – 0–1}
{PRT – {44–63} – {1–4} – {8, 16, 24, 32}}
{PSF – 1 – {3, 4} – {1, 2},
PSF – {44–63} – {1–4} – {1–2}}
{PST – 1 – {3, 4} – {1–2}}
{QUAD – {44–63} – {1–4} – {1–4}}
{RDU – {44–63} – 0–1}
{RPB – {6–9, 12–15, 18–21, 24–43, **104–111**, 112–135, **136–141**} – {1, 3} – {1–2}}
{RSP – {1, 101} – 0–1}
{S3M – {6–9, 12–15, 18–21, 24–43, **104–111**, 112–135, **136–141**} – {1, 3} – {4–9, 13–18}}
{SBT – 1 – 2 – {1–4}}
{SHELF – {4–43, 102–141} – {1, 3} – 1}
{SIO – 1 – 2 – {1–2, 8–9}}
{SPB – {2–43, **102–111**, 112–135, **136–141**} – {1, 3} – {1–2}}
{SWI – {44–63} – {1–4} – {1–7, 9–15, 17–23, 25–31}}
Equipment AID, identifies the equipment entity. Refer to Appendix B, Access Identifiers (AIDs) for a definition of equipment mnemonics.

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```


ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

ENEQ	Equipage, Not EQuipped /*The P39s that power <AID> must be provisioned first */
EQWT	Equipage, Not EQuipped /*<AID> is defined to carry <MTX_CARD_TYPE> */
IDNC	Input, Data Not Consistent /*Protect card not valid with SST=MT/* /*Invalid or unassigned equipment identifier specified/* /*<AID> is defined to carry <RPB/IPB>/* /*DLFTSIG is not supported for standard or enhanced subracks */ /*Unable to read aux buffer for <AID>*/ /*QTYPE parameter must be DS1 for this specific quad */ /*Entering CLENGTH is only allowed in first Quad */ /*Invalid replacement I/O shelf specified */ /*Companion shelf must be a half-bandwidth OCn shelf */ /*OCn shelves in a mixed rack must have the same matrix interface */ /*RPB only allowed on a OC3 shelf */ /*Matrix connection type of SI36 shelf must be OPTICAL */ /*Cable length parameter only valid with optical interface */ /*Parameter ESTYPE does not match existing ES shelf type */ /*ESTYPE M16 is not compatible for current system size */ /*ESTYPE of M16 is not valid during an MTX_UPGRADE_2688 */ /*ES of type M32 can not be provisioned IS with a CS M16 Type */ /*QTYPE parameter must be DS1 in a 240 port system.*/ /*IO Racks in a 240 port system must be optically connected to matrix.*/
IDNV	Input, Data Not Valid /* Invalid combination of PST and SST parameters. */ /* Invalid UHSTYPE parameter specified in command. */ /* Invalid LHSTYPE parameter specified in command. */ /* Invalid MTXINTF parameter specified in command. */ /* Invalid parameter or option specified in command. */ /* Both half shelf types must be of same type for OC3. */ /* QTYPE parameter not specified in command */ /* CS can only be provisioned IS. */ /*Invalid PBTYPe parameter specified in command */ /*Invalid CLENGTH parameter entered */ /*Invalid ESTYPE parameter specified in command */ /* Improper replacement shelf information entered. */ /* Unable to retrieve input data parameter. */ /*36 port shelf not allowed in a 240 port system.*/ /*Invalid ESTYPE parameter M16 specified for a 240 port system.*/ /*Invalid QTYPE parameter specified in command.*/

IIAC	Input, Invalid ACcess identifier /* Invalid or unassigned equipment identifier specified. */ /* Command not supported for this equipment. */ /* Unsupported card type for this command. */ /* An invalid module type specified in request. */ /* Invalid I/O <AID> specified. */ /* Invalid I/O quad specified. */ /* Invalid replacement I/O shelf specified. */ /* Invalid QUAD number <QUAD> specified. */ /* EOB's cannot be provisioned on a Subrack. */ /* Invalid rack type for <AID>. */ /* Invalid AID for the given slot. */ /*Matrix card <AID> must be provisioned */ /* Specified <AID> not allowed to be provisioned by command. */ /* SHELF has been provisioned the PBTYPe as <CARD_TYPE>. */
IPEX	Input, Parameter EXtra /* DIST parameter can't be entered on Protect card */ /* RPLSHELF parameter not valid for this command. */
IPMS	Input, Parameter MiSSing /*Parameter was not entered/* /*QTYPE parameter not specified in command/* /*CBLNGTH parameter was not entered /* /*Must enter RPLSHELF parameter/*
IPNV	Input, Parameter Not Valid /* Must specify PST of IS to enter <AID>. */ /* Invalid PST parameter specified in command. */ /* Error retrieving PST parameter. */ /* Error retrieving SST parameter. */ /* Invalid SST parameter specified in command. */ /* Error retrieving UHSTYPE parameter */ /* Error retrieving LHSTYPE parameter */ /* Error retrieving MTXINTF parameter */ /* Error retrieving RPLSHELF parameter */ /* Invalid CBLNGTH parameter entered. */ /* Error retrieving CBLNGTH parameter. */ /*Cannot specify SST of MT to enter <AID> */ /* Error retrieving QTYPE parameter */ /* Error retrieving PBTYPe parameter */ /* Error retrieving ESTYPE parameter */
SARB	Status, All Resources Busy /* Command already in progress on equipment. */ /* Automatic system configuration active on equipment. */ /* INIT–SYS command still active on shelf that equipment is on. */ /* Level 2 processor download in progress. Try again later. */ /* Automatic configuration (database download) of parent processor in progress */
SATF	Status, Automatic Test Failed /* The module failed diagnostic testing */ /* Unexpected diag response message for <AID> */ /* Warning: Did not receive a response from Diagnostics. */ /* The module failed software loading */ /* The module failed due to a firmware mismatch */
SCSN	Status, invalid Command SequeNce

```

/* <AID> must be provisioned first */
SDBE      Status, internal Data Base Error
/* Unable to read system configuration file. */
/* Error reading reference table for <AID>. */
/* Error updating reference table for <AID>. */
/* Error reading shelf database record for <AID>. */
/* Error initializing shelf database record for <AID>. */
/* Error updating shelf database record for <AID>. */
/* Error reading system configuration database for <AID>. */
/* Error obtaining auxiliary buffer for <AID>. */
/* Error provisioning matrix data cables for <AID>. */
/* Error determining equipment for <AID>. */
/* Error initializing database for <AID>. */
/* Error updating system size in database. */
/* <AID> database read error. */
/* Error updating database for <AID>. */
/* <AID> database update error. */
/* Error reading shared memory for <AID>. */
/* Error updating shared memory for <AID>. */
/* Error reading database for <AID>. */
/* Error reading database for card <AID>. */
/* Error accessing auxiliary buffer for card <AID>. */
/* Error updating database for card <AID>. */
/* Invalid or unassigned equipment identifier specified. */
/* Error accessing auxiliary EM data area. */
/* Error reading quad database record for <AID>. */
/* Improper optical cable length entered. */
/* Error reading shelf database for <AID>. */
/* Error initializing database record for <AID>. */
/* Error initializing quad database record for <AID>. */
/* Error updating quad database record for <AID>. */
/* Error reading distribution reference table for <AID>. */
/* Error updating distribution reference table for <AID>. */
/* Error reading matrix reference table for <AID>. */
/* Error updating matrix reference table for <AID>. */
/* <CARD_TYPE> data base access failure. */
/* Init table read error for <AID> */
/* Database read error for mate <AID> */
/* Database update error for mate <AID> */
/* Unable to read the LAN database for <AID> */
/* Unable to update the LAN database for <AID> */
/* Error reading shelf copy selection database for <AID> */
/* Error updating copy selection database for <AID> */
/* Error reading eoc reference table for <AID> */
/* Error updating eoc reference table for <AID> */
/* L2P database read error for STD ID <AID>. */
/* Init table read error for <AID>. */
/* Error determining OCn associate shelf of <AID>. */
/* Error determining optical companion shelf of <AID>. */
/* Error reading acluse database for <AID>. */
/* Error updating acluse database for <AID>. */
/* Too many shelf entries in acluse database for ACM slot <#>, port <#>. */

```

SDNC	<p>Status, Data Not Consistent</p> <ul style="list-style-type: none"> /*Invalid I/O <AID> specified for matrix type size */ /*Not allow mixture of SI48 and SI36 half-shelves */ /*Not allow mixture of SI48 and SI36 shelves in a rack */ /*SI36 is only supported in the first two clovers */
SNVS	<p>Status, Not in Valid State</p> <ul style="list-style-type: none"> /* Shelf already provisioned. */ /* Equipment already provisioned. */ /* <AID> needs to be provisioned. */ /* Command not valid for current state of equipment. */ /* Unexpected message from APU Diagnostics. */ /* Shelf already being used as a replacement shelf. */ /* Quad already provisioned. */ /* <AID> must be provisioned first. */ /* Replacement shelf <AID> already used for a different I/O rack. */ /* Replacement shelf <AID> already provisioned. */ /* <AID> is not provisioned as a DS3 quad. */ /* No shelves provisioned on the rack for <AID>. */ /*Cannot provision <AID> in <system size> port system */ /*Matrix must be manually unlocked first*/ /*End stage shelves in clover 1 must be provisioned first */ /*CS shelf 1 can only be provisioned IS during an MTX_UPGRADE_2688.*/ /*Not allowed to grow <AID> when both ES shelves have different ESTYPES */ /*ACL link that <AID> uses is already being used by a <CARD_TYPE>. */ /*Unable to provision Optical Companion Shelf. */ /*Associate shelf <AID> is defined as a replacement shelf. */ /*Associate shelf <AID> is not defined as OCn. */ /*Shelf must be provisioned as OCn because companion shelf <AID> is already provisioned. */ /*<AID> cannot be used as a replacement because companion shelf <AID> is already provisioned. */ /*<AID> must be provisioned in MT state first */ /*<AID> must be taken out of maintenance state first */
SROF	<p>Status, Requested Operation Failed</p> <ul style="list-style-type: none"> /* No provisioned DS1 QUADs assigned to <AID>. */ /* Warning: Did not receive a response from SPB card */ /* Invalid module type present. */ /* Did not receive a response from parent processor card */ /* The module failed software loading */ /* Error updating L2P restart message. */ /* Matrix card <AID> must be provisioned. */ /* <AID> not added to restart message. List is full! */ /* Parent L2P ID not found for <AID>. */ /* L2P restart list full. */ /* Auto system action caused override. */ /* Equipment check failure for <AID>. */ /* Unable to allocate memory.*/ /* Unable to read database.*/ /* Inconsistent configuration for <AID>. Both CIMs and ACMs provisioned. */ /* Inconsistent configuration for <AID>. Both LT4s and LT8s provisioned. */ /* Incorrect configuration for extended ACL links */
SSRE	<p>Status, System Resources Exceeded</p> <ul style="list-style-type: none"> /* Unable to allocate USI response buffer. */ /* Error accessing auxiliary buffer for card <AID>. */

EXAMPLES

In the following example, I/O shelf SHELF-6-1-1 and all the supporting equipment are provisioned to an IS state (assuming the circuit packs are installed in the system and functional). The I/O modules are provisioned in OOS state.

```
ENT-EQPT::SHELF-6-1-1::::OOS;
```

In the following example, EP3-6-1-12 is provisioned to an IS state (assuming the circuit pack is installed in the system and functional) with LBO1, LBO2, and LBO3 settings of LONG, SHORT (defaulted), and LONG, respectively.

```
ENT-EQPT::EP3-6-1-12::::LBO1=LONG,LBO3=LONG:IS;
```

RELATED COMMANDS

```
ACT-DA  
CANC-DA  
DLT-DA  
DLT-EQPT  
ED-EQPT  
RMV-EQPT  
RST-EQPT  
RTRV-DA  
RTRV-EQPT  
RTRV-STATE-EQPT
```

COMMAND CODE: **ENT-F3**
COMMAND NAME: **ENTER F3**

PURPOSE

The ENT-F3 command creates (assigns and provisions) an F3 entity.

An F3 entity is a Fractional DS3 entity that consists of a set of up to 7 DS1 entities, all of which reside within a given electrical DS3. An F3 entity is intended to be used for providing Performance Monitoring data summaries for all of the DS1s assigned to it. The ENT-F3 command allows the F3 entity to be provisioned and have a set of DS1s assigned to it. For a description of the special summary PM parameters and how they are derived from the individual DS1 PM parameters, see Appendix F, Monitored PM Parameters.

An F3 that has not been provisioned has a PST,SST of OOS-MA, UAS or OOS-AUMA,UAS&DSBLD. An F3 must be in the OOS-MA, UAS state or the ENT-F3 command will be denied (i.e., the containing T3 must first be provisioned).

An ENT-F3 command is denied if:

- The containing DS3 has not yet been provisioned.
- The containing DS3 is not an electrical DS3 located on an SI48 shelf.
- Any of the DS1 AIDs being assigned to the F3 have not been previously provisioned.
- Any of the DS1 AIDs being assigned to the F3 are not constituents of the DS3 containing the F3.
- Any of the DS1 AIDs being assigned to the F3 are defined as having framing formats different from that of the F3.
- Any of the DS1 AIDs being assigned to the F3 have already been assigned to some other F3.
- The specified F3 is already provisioned.
- The DS1 is multiply assigned.
- An invalid parameter value is entered.

INPUT FORMAT

```
ENT-F3 : [TID] : AID : [CTAG] : : [FMT=] [ , T1N1=] [ , T1N2=] [ , T1N3=] [ , T1N4=] [ , T1N5=]  
[ , T1N6=] [ , T1N7=] : [PST] ;
```

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	F3_AID: {T3F3-{1-4800}-{1-14}} (T3F3-DS3#-Fractional_DS3#) Default: Entry Required Addressing: &-ranging and &-grouping Description: DS1 AID, identifies the DS1 port. Restrictions: The AID must indicate an F3 AID that is located in an electrical DS3 located on a SI48 shelf or the command will be denied.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

FMT=	<p>{ESF, SF}</p> <p>Default: {SF}</p> <p>Addressing: None</p> <p>Description: Framing Format, identifies the framing format of all the DS1s assigned to the F3. Values are:</p> <p>ESF Extended SuperFrame. DS1s all are ESF formatted.</p> <p>SF SuperFrame. DS1s all are normal SuperFrame formatted.</p> <p>Restrictions: The command will be denied if the value given for FMT is not matched by the provisioned formats of all the DS1s identified in parameters T1N1 to T1N7.</p>
T1N1=	<p>DS1_AID: {T3T1-{1-4800}-{1-28}} (T3T1-DS3#-DS1#)</p> <p>Default: <Position Not Used></p> <p>Addressing: None</p> <p>Description: DS1 Number 1, identifies one of the potential seven DS1s that are assigned to the F3</p> <p>Restrictions: The command will be denied if the value given for T1N1 is not a DS1 within the same DS3 as the F3 identified in the AID parameter, or has not been provisioned. It will also be denied if T1N1 identifies a DS1 that is provisioned to have a framing format different than that given in FMT.</p>
T1N2=	<p>DS1_AID: {T3T1-{1-4800}-{1-28}} (T3T1-DS3#-DS1#)</p> <p>Default: <Position Not Used></p> <p>Addressing: None</p> <p>Description: DS1 Number 2, identifies one of the potential seven DS1s that are assigned to the F3</p> <p>Restrictions: The command will be denied if the value given for T1N2 is not a DS1 within the same DS3 as the F3 identified in the AID parameter, or has not been provisioned. It will also be denied if T1N2 identifies a DS1 that is provisioned to have a framing format different than that given in FMT.</p>
T1N3=	<p>DS1_AID: {T3T1-{1-4800}-{1-28}} (T3T1-DS3#-DS1#)</p> <p>Default: <Position Not Used></p> <p>Addressing: None</p> <p>Description: DS1 Number 3, identifies one of the potential seven DS1s that are assigned to the F3</p> <p>Restrictions: The command will be denied if the value given for T1N3 is not a DS1 within the same DS3 as the F3 identified in the AID parameter, or has not been provisioned. It will also be denied if T1N3 identifies a DS1 that is provisioned to have a framing format different than that given in FMT.</p>
T1N4=	<p>DS1_AID: {T3T1-{1-4800}-{1-28}} (T3T1-DS3#-DS1#)</p> <p>Default: <Position Not Used></p> <p>Addressing: None</p> <p>Description: DS1 Number 4, identifies one of the potential seven DS1s that are assigned to the F3</p> <p>Restrictions: The command will be denied if the value given for T1N4 is not a DS1 within the same DS3 as the F3 identified in the AID parameter, or has not been provisioned. It will also be denied if T1N4 identifies a DS1 that is provisioned to have a framing format different than that given in FMT.</p>

T1N5=	DS1_AID:	
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)
	Default:	<Position Not Used>
	Addressing:	None
	Description:	DS1 Number 5, identifies one of the potential seven DS1s that are assigned to the F3
T1N6=	Restrictions:	The command will be denied if the value given for T1N5 is not a DS1 within the same DS3 as the F3 identified in the AID parameter, or has not been provisioned. It will also be denied if T1N5 identifies a DS1 that is provisioned to have a framing format different than that given in FMT.
	DS1_AID:	
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)
	Default:	<Position Not Used>
	Addressing:	None
T1N7=	Description:	DS1 Number 6, identifies one of the potential seven DS1s that are assigned to the F3
	Restrictions:	The command will be denied if the value given for T1N6 is not a DS1 within the same DS3 as the F3 identified in the AID parameter, or has not been provisioned. It will also be denied if T1N6 identifies a DS1 that is provisioned to have a framing format different than that given in FMT.
	DS1_AID:	
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)
	Default:	<Position Not Used>
PST	Addressing:	None
	Description:	DS1 Number 7, identifies one of the potential seven DS1s that are assigned to the F3
	Restrictions:	The command will be denied if the value given for T1N7 is not a DS1 within the same DS3 as the F3 identified in the AID parameter, or has not been provisioned. It will also be denied if T1N7 identifies a DS1 that is provisioned to have a framing format different than that given in FMT.
	{IS}	
	Default:	{IS}
	Addressing:	None
	Description:	Primary State. Indicates the current primary state of the DS3. Refer to Appendix G, State Transitions. Values are:
	IS	In-Service

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID [-VCNUM] >) */]
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID [-VCNUM] >) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid /* T1 is not in partition for this user. */
IIAC	Input, Invalid ACcess identifier
SDBE	Status, internal Data Base Error /* TP Database Error: <ERROR-STRING> for <AID-STRING> */ /* T3 Shelf info error, Error=<ERROR-STRING> */ /* Error updating supporting entity, Error=<ERROR-STRING> */
SNVS	Status, Not in Valid State
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, F3 #1 is created in electrical DS3 T3-5. Three DS1 constituents of DS3 T3-5 are assigned to the F3 in the F3's T1 slot numbers 1, 2, and 5. The F3's T1 slot numbers 3, 4, 6, and 7 are unused. Since the default FMT value of SF is set, the 3 given DS1s must all use SuperFrame format.

```
ENT-F3::T3F3-5-1:::T1N1=T3T1-5-3,T1N2=T3T1-5-7,T1N5=T3T1-5-8;
```

The output response, shown below, assumes CID 3 was used to enter the command and a system generated CTAG value of Pfc519. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pfc519 COMPLD
/* ENT-F3::T3F3-5-1:::T1N1=T3T1-5-3,T1N2=T3T1-5-7,T1N5=T3T1-5-8
[Pfc519] (3) */
;
```

RELATED COMMANDS

DLT-F3
DLT-T1
DLT-T3
ED-F3
ED-PARTITN-F3
ED-T1
ED-T3
ENT-T1
ENT-T3
INIT-REG-F3
RTRV-F3
RTRV-PM-F3
RTRV-PMODE-F3
RTRV-T1
SET-PMODE-F3

COMMAND CODE: **ENT-FFP-OC12**
COMMAND NAME: **ENTER FAST FACILITY PROTECTION
OC-12**

PURPOSE

The ENT-FFP-OC12 command creates (assigns) a facility protection group for OC-12. It associates a protecting (alternate) OC-12 with a protected (main/preferred) OC-12. It also provides for entering attributes of the facility protection group.

On successful completion of ENT-FFP-OC12, the Section and Line DCC parameters (if provisioned on the working OC-12) are copied to the Section and Line DCC parameters of the protection OC-12.

An ENT-FFP-OC12 command is denied if:

- The OC-12 specified in B1 and B2 parameters do not refer to working and protection OC-12 respectively.
- The OC-12 specified in B1 and/or B2 is not provisioned (i.e., it is in UAS secondary state).
- An ENT-RNG-OC12 command has previously been completed for the specified OC-12 group.
- The section and/or line DCC of the even-numbered OC12 (identified by B1 or B2) is in-service and exists in the TARPADJ-DCC table.
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

```
ENT-FFP-OC12 : [TID] : B1 , B2 : [CTAG] : : : [BDCST=] [ , K2GEN=] [ , PSDIRN=] [ , RVRTV=]  
[ , WTRTIME=] ;
```

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
B1	OC12_AID: {OC12-{1-560}} (OC12-OC12#) Default: Entry Required Addressing: None Description: OC12 AID, identifies the protected (working) OC-12 port. Restrictions: ENT-FFP-OC12 is denied if the OC-12 specified is not provisioned or is not an odd-numbered OC-12. ENT-FFP-OC12 is denied if B2 is not equal to B1+1.
B2	OC12_AID: {OC12-{1-560}} (OC12-OC12#) Default: Entry Required Addressing: None Description: OC12 AID, identifies the protecting (protection) OC-12 port. Restrictions: ENT-FFP-OC12 is denied if the OC-12 specified is not provisioned or is not an even-numbered OC-12. ENT-FFP-OC12 is denied if B2 is not equal to B1+1.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

BDCST=	{Y}	
	Default:	{Y}
	Addressing:	None
	Description:	Broadcast. Indicates whether the payload is sent over the working and protection channels simultaneously or not. Values are:
	Y	Yes: applies only to 1+1 protection switch.
K2GEN=	{PROP, STAN}	
	Default:	{STAN}
	Addressing:	None
	Description:	K2 bits 1–4 Generation. Defines how the K2 bits 1 through 4 are generated. Values are:
	PROP	Proprietary non–standard way. This value is valid only if PSDIRN is UNI and RVRTV is N. In this case the outgoing K2 bits 1–4 is set to equal the outgoing K1 bits 5 thru 8.
	STAN	Standard way. The K2 bits 1–4 will be generated according to Bell-core standards.
	Restrictions:	ENT–FFP–OC12 is denied if K2GEN is specified as PROP with any other values than N for RVRTV and UNI for PSDIRN respectively.
PSDIRN=	{UNI}	
	Default:	{UNI}
	Addressing:	None
	Description:	Direction of Protection Switching. Indicates the direction of the protection switch operation for OC–12. Values are:
	UNI	Unidirectional protection switching.
RVRTV=	{N, Y}	
	Default:	{N}
	Addressing:	None
	Description:	Revertive or non–revertive protection switching. Indicates whether the OC–12 protection switching is revertive or not. Values are:
	N	No. Indicates the protection switching is non–revertive.
	Y	Yes. Protection switching is revertive.
WTRTIME=	{5–12}	
	Default:	{5}
	Addressing:	None
	Description:	Wait to Restore Time. Determines the wait to restore time that is used by the revertive line protection switching group. Values are:
	5–12	An integer value in minutes between 5 and 12.
	Restrictions:	ENT–FFP–OC12 is denied if a value is entered for WTRTIME and RVRTV is specified (or defaulted) as N.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Free Form Informational Text> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

```
SARB      Status, All Resources Busy
          /*Protected IO3 card has download activity in progress*/
          /*Protecting IO3 card has download activity in progress*/
SDBE      Status, internal Data Base Error
          /*TP Database Error: <ERROR-STRING> for <AID-STRING>*/
          /*FFP Database Error: <ERROR-STRING>*/
          /*DCC Database Error: <ERROR-STRING> for record number <RECORD-
            NUMBER>*/
          /*TPidToTarpD (<RECORD-NUMBER>) : <ERROR-STRING>*/
          /*TPidToGlobTPid (<RECORD-NUMBER>) : <ERROR-STRING>*/
          /*TARP_DCC Database Error: <ERROR-STRING> for record number <RECORD-
            NUMBER>*/
SNVS      Status, Not in Valid State
          /*B2 Section and/or Line DCC In-Service*/
          /*B2 in TARPADJ-DCC table*/
```

EXAMPLES

In the following example, OC-12 port OC12-14 is provisioned to be the protection line for the working line OC12-13. All the other parameters are defaulted.

```
ENT-FFP-OC12::OC12-13,OC12-14;
```

RELATED COMMANDS

```
DLT-FFP-OC12
DLT-OC12
ED-FFP-OC12
ENT-OC12
RTRV-FFP-OC12
```


COMMAND CODE: **ENT-FFP-OC3**
COMMAND NAME: **ENTER FAST FACILITY PROTECTION
OC-3**

PURPOSE

The ENT-FFP-OC3 command creates (assigns) a facility protection group for OC-3. It associates a protecting (alternate) OC-3 with a protected (main/preferred) OC-3. It also provides for entering attributes of the facility protection group.

On successful completion of ENT-FFP-OC3, the Section and Line DCC parameters (if provisioned on the working OC-3) are copied to the Section and Line DCC parameters of the protection OC-3.

An ENT-FFP-OC3 command is denied if:

- The OC-3 specified in B1 and B2 parameters do not refer to working and protection OC-3 respectively.
- The OC-3 specified in B1 and/or B2 is not provisioned (i.e., it is in UAS secondary state).
- An ENT-RNG-OC3 command has previously been completed for the specified OC-3 group.
- The section and/or line DCC of the even-numbered OC3 (identified by B1 or B2) is in-service and exists in the TARPADJ-DCC table.
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

ENT-FFP-OC3 : [TID] : B1 , B2 : [CTAG] : : : [BDCST=] [, K2GEN=] [, PSDIRN=] [, RVRTV=
[, WTRTIME=] ;

INPUT PARAMETERS

TID	<p>< 1-20 VALID TID CHARACTERS ></p> <p>Default: <SID></p> <p>Addressing: None</p> <p>Description: Target Identifier, specifies the network node TID for the command.</p>
B1	<p>OC3_AID: {OC3-{1-2240}} (OC3-OC3#)</p> <p>Default: Entry Required</p> <p>Addressing: None</p> <p>Description: OC3 AID, identifies the protected (working) OC-3 port.</p> <p>Restrictions: ENT-FFP-OC3 is denied if the OC-3 specified is not provisioned or is not an odd-numbered OC-3. ENT-FFP-OC3 is denied if B2 is not equal to B1+1.</p>
B2	<p>OC3_AID: {OC3-{1-2240}} (OC3-OC3#)</p> <p>Default: Entry Required</p> <p>Addressing: None</p> <p>Description: OC3 AID, identifies the protecting (protection) OC-3 port.</p> <p>Restrictions: ENT-FFP-OC3 is denied if the OC-3 specified is not provisioned or is not an even-numbered OC-3. ENT-FFP-OC3 is denied if B2 is not equal to B1+1.</p>
CTAG	<p>< 1-6 VALID CTAG CHARACTERS ></p> <p>Default: < System assigned CTAG value ></p> <p>Addressing: None</p> <p>Description: Correlation Tag, associates input command with its output responses.</p>

BDCST=	{Y}	
	Default:	{Y}
	Addressing:	None
	Description:	Broadcast. Indicates whether the payload is sent over the working and protection channels simultaneously or not. Values are:
	Y	Yes: applies only to 1+1 protection switch.
K2GEN=	{PROP, STAN}	
	Default:	{STAN}
	Addressing:	None
	Description:	K2 bits 1–4 Generation. Defines how the K2 bits 1 through 4 are generated. Values are:
	PROP	Proprietary non–standard way. This value is valid only if PSDIRN is UNI and RVRTV is N. In this case the outgoing K2 bits 1–4 is set to equal the outgoing K1 bits 5 thru 8.
	STAN	Standard way. The K2 bits 1–4 will be generated according to Bell-core standards.
	Restrictions:	ENT–FFP–OC3 is denied if K2GEN is specified as PROP with any other values than N for RVRTV and UNI for PSDIRN respectively.
PSDIRN=	{UNI}	
	Default:	{UNI}
	Addressing:	None
	Description:	Direction of Protection Switching. Indicates the direction of the protection switch operation for OC–3. Values are:
	UNI	Unidirectional protection switching.
RVRTV=	{N, Y}	
	Default:	{N}
	Addressing:	None
	Description:	Revertive or non–revertive protection switching. Indicates whether the OC–3 protection switching is revertive or not. Values are:
	N	No. Indicates the protection switching is non–revertive.
	Y	Yes. Protection switching is revertive.
WTRTIME=	{5–12}	
	Default:	{5}
	Addressing:	None
	Description:	Wait to Restore Time. Determines the wait to restore time that is used by the revertive line protection switching group. Values are:
	5–12	An integer value in minutes between 5 and 12.
	Restrictions:	ENT–FFP–OC3 is denied if a value is entered for WTRTIME and RVRTV is specified (or defaulted) as N.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Free Form Informational Text> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

    <SID> <YY-MM-DD> <HH:MM:SS>
M  <CTAG> DENY
    <ERROR CODE>
    [/* <Informational Error Description Text> */]
    [/* <Expanded Error Code Description> */]
    [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

SARB	Status, All Resources Busy /*Protected IO3 card has download activity in progress*/ /*Protecting IO3 card has download activity in progress*/
SDBE	Status, internal Data Base Error /*TP Database Error: <ERROR-STRING> for <AID-STRING>*/ /*FFP Database Error: <ERROR-STRING>*/ /*DCC Database Error: <ERROR-STRING> for record number <RECORD-NUMBER>*/ /*TPidToTarpD (<RECORD-NUMBER>) : <ERROR-STRING>*/ /*TPidToGlobTPid (<RECORD-NUMBER>) : <ERROR-STRING>*/ /*TARP_DCC Database Error: <ERROR-STRING> for record number <RECORD-NUMBER>*/
SNVS	Status, Not in Valid State /*B2 Section and/or Line DCC In-Service*/ /*B2 in TARPADJ-DCC table*/

EXAMPLES

In the following example, OC-3 port OC3-14 is provisioned to be the protection line for the working line OC3-13. All the other parameters are defaulted.

```
ENT-FFP-OC3 : OC3-13, OC3-14 ;
```

RELATED COMMANDS

```

DLT-FFP-OC3
DLT-OC3
ED-FFP-OC3
ENT-OC3
RTRV-FFP-OC3

```


COMMAND CODE: **ENT-FTP-USER**
COMMAND NAME: **ENTER FTP USER**

PURPOSE

The ENT-FTP-USER command is used to create a new user profile in the FTP (File Transfer Protocol) User Security Database.

A user profile consists of:

- the FTP user identifier (FTPUID),
- the FTP user's password identification (FTPPID),
- the FTP user's access type (ACCTYPE).

An ENT-FTP-USER command is denied if:

- A new FTP user is entered and the maximum number of FTP users has already been defined.
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

ENT-FTP-USER: [TID] : : [CTAG] : : FTPPID, FTPUID, ACCTYPE;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
FTPPID	<6-12 VALID FTPPID CHARACTERS> Default: Entry Required Addressing: None Description: FTP Password Identifier, specifies the FTP user's login password. Valid values for FTPPID are a string of 6 through 12 case-sensitive alphanumeric characters. The FTPPID must contain at least 2 alphabetic characters and at least 1 numeric character. The following special characters are also accepted as valid characters and can be part of the FTPPID: % (percent sign), + (plus sign), # (pound sign), and _ (under score). The first character of the FTPPID can be an alphabetic, numeric, or a valid special character. (Note that the dash (-) character is also accepted by the system, but only characters prior to the dash become part of the FTPPID. The dash (-) and characters after that are ignored by the system.) Restrictions: ENT-FTP-USER is denied if the specified FTP password identifier (FTPPID value) is the same as the specified FTP user identifier (FTPUID value), the reverse of the FTPUID value, a circular shift of the FTPUID value, or a circular shift of the reverse of the FTPUID value.

FTPUID	<5–12 VALID FTPUID CHARACTERS>	
	Default:	Entry Required
	Addressing:	None
	Description:	FTP User Identifier, specifies a unique user ID. Valid values for FTPUID are 5 to 12, case-sensitive alphanumeric characters where the first character must always be an alphabetic character. The following special characters are also accepted as valid characters and will be part of the FTPUID: % (percent sign), + (plus sign), # (pound sign), and _ (under score). (Note that the dash (–) character is also accepted by the system, but only characters prior to the dash become part of the FTPUID. The dash (–) and characters after that are ignored by the system.)
	Restrictions:	ENT–FTP–USER is denied if the specified FTPUID already exists.
ACCTYPE	{BPM, DB, ISU}	
	Default:	Entry Required
	Addressing:	None
	Description:	Access Type, specifies the type of access the FTP user is given. Values are:
	BPM	Binary PM, specifies the FTP user is given access to the Binary PM data.
	DB	Database, specifies that the FTP user is given access to upload/download database backup files.
	ISU	In–Service Upgrade, specifies that the FTP user is given access to upload generic files.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
/* <FTPUID>, <ACCTYPE> */
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

OUTPUT PARAMETERS

FTPUID	<5–12 VALID FTPUID CHARACTERS> FTP User Identifier, identifies the provisioned UID value.
ACCTYPE	{BPM, DB, ISU} Access Type, identifies the type of access the FTP user is given.

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Optional Suggested Action Text> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid
IPMS	Input, Parameter MiSsing
SARB	Status, All Resources Busy

EXAMPLES

In the following example, ENT-FTP-USER is used to create a new user profile in the FTP user security database with a FTPUID of "new_user".

```
ENT-FTP-USER:::::user_ftppid,new_user;
```

RELATED COMMANDS

DLT-FTP-USER
ED-FTP-USER
RTRV-FTP-USER

COMMAND CODE: **ENT-IP-FILTER**
COMMAND NAME: **ENTER IP PACKET FILTER TABLE
ENTRY**

PURPOSE

The ENT-IP-FILTER command allows adding an entry in the packet filter table used by the Internet Protocol (IP) router of the stack running on the Local Area Network (LAN) interface on the Intelligent Communication Module (ICM). This command allows adding an entry in the network layer (Layer 3) parameters pertaining to the packet filter table. When the LAN port is initialized, there are no user defined IP filters in the filter table. For those IP Addresses provisioned (IPADDR, NETMASK), only Network Elements (NEs) with these IP Subnet Address(es) are allowed to communicate on that LAN port. Up to 32 IP Addresses can be concurrently provisioned by this command.

Changes to the name-defined parameters take effect immediately and survive a database backup and restore.

The ENT-IP-FILTER command can be executed while in the Limited Command Execution mode (i.e., after execution of a STOP-OPS command) or the Normal Command Execution mode.

An ENT-IP-FILTER command is denied if:

- The specified CID is not provisioned as a LAN port on the ICM (via ENT-CID with PROTOCOL of TCP).
- The specified IPADDR already exists in the packet filter table.
- An entry is added in the IP packet filter table and 32 entries are already added to the IP packet filter table.
- An invalid parameter value is entered.
- The specified IPADDR is within the 2.0.0.0 to 2.255.255.255 IP address range.

INPUT FORMAT

ENT-IP-FILTER: [TID] : CPORT: [CTAG] : : IPADDR= [, NETMASK=] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >	
	Default:	<SID>
	Addressing:	None
	Description:	Target Identifier, specifies the network node TID for the command.
CPORT	{3, 5, 7, 9, 11}	
	Default:	Entry Required
	Addressing:	None
	Description:	CID AID, identifies the CID which is configured as the LAN on the ICM module.
CTAG	< 1-6 VALID CTAG CHARACTERS >	
	Default:	< System assigned CTAG value >
	Addressing:	None
	Description:	Correlation Tag, associates input command with its output responses.

IPADDR= {{{(0-255)-(0-255)-(0-255)-(0-255)}}, ALL}
Default: Entry Required
Addressing: None
Description: Internet Protocol Address, specifies the IP Address of the NE to which the packet filter table entry is added. Name-defined values are:
 ALL All the packet filter table entries are added.
 The lowest and highest IP Address Range is:

IP Address Range		
Class	Lowest	Highest
A	0.1.0.0	126.0.0.0
B	128.0.0.0	191.255.0.0
C	192.0.1.0	223.225.225.0

Restrictions: The ED-IP-STATICRT command is denied if the IPADDR is in the 2.0.0.0 to 2.255.255.255 IP range.

NETMASK= {{{(0-255)-(0-255)-(0-255)-(0-255)}}}
Default: <Value determined by the IP Address>
Addressing: None
Description: Subnet Mask, specifies the subnet mask of the network to which the NE with IPADDR is connected to.

Default Value Determined by the IP Address		
Class	IP Address Range	Default NETMASK
A	0.0.0.0 to 127.255.255.255	255.0.0.0
B	128.0.0.0 to 191.255.255.255	255.255.0.0
C	192.0.0.0 to 223.255.255.255	255.255.255.0
D	224.0.0.0 to 239.255.255.255	255.255.255.255
E	240.0.0.0 to 247.255.255.255	255.255.255.255

Restrictions: The ENT-IP-FILTER command is denied if any portion of the default NETMASK is 255 and that portion of the specified NETMASK is a number less than 255.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IEAE	Input, Entity Already Exists
IDNV	Input, Data Not Valid
IPMS	Input, Parameter MiSsing
IPNV	Input, Parameter Not Valid

EXAMPLES

In the following example, an entry in the packet filter table is added.

```
ENT-IP-FILTER::3:::IPPADDR=143-209-0-0;
```

RELATED COMMANDS

```
DLT-IP-FILTER  
RTRV-IP-FILTER
```


COMMAND CODE: **ENT-IP-PRMTR**
COMMAND NAME: **ENTER IP PARAMETERS**

PURPOSE

The ENT-IP-PRMTR command allows provisioning of the Internet Protocol (IP) Layer parameters of the Local Area Network (LAN) interface on the Intelligent Communication Module (ICM). This command allows provisioning of the network layer (Layer 3) parameters pertaining to the IP layer stack.

Changes to the name-defined parameters are stored in the database and take effect when the IP stack is (re)initialized via the RST-CID command. All of the name-defined parameters survive a database backup and restore.

The ENT-IP-PRMTR command can be executed while in the Limited Command Execution mode (i.e., after execution of a STOP-OPS command) or the Normal Command Execution mode.

An ENT-IP-PRMTR command is denied if:

- The specified CID is not provisioned as a LAN port on the ICM (via ENT-CID with PROTOCOL of TCP).
- The network address of BRDCSTADR does not equal the network address of the IPADDR.
- The specified IPADDR is within the 2.0.0.0 to 2.255.255.255 range.
- The specified IPADDR is outside the lowest and highest IP Address Range.
- The Host ID portion of the specified IPADDR is provisioned as all zeros (0s) or all ones (1s).
- The network portion of the specified IPADDR is all zeros (0s) or all ones (1s) and the IPADDR is not subnetted.
- The subnetwork address of the specified IPADDR is all zeros (0s) or all ones (1s) and the IPADDR is subnetted.
- The Host ID portion of the specified GATEWAYADR is provisioned as all zeros (0s) or all ones (1s).
- The specified GATEWAYADR is within the 2.0.0.0 to 2.255.255.255 range.
- The provisioned subnet address of the specified GATEWAYADR does not equal the subnet address of the IPADDR.
- Any portion of the default NETMASK is 255 and that portion of the specified NETMASK is a number less than 255.
- An invalid parameter value is entered.

INPUT FORMAT

```
ENT-IP-PRMTR: [TID] : CPORT: [CTAG] : : : [BRDCSTADR=] [ , GATEWAYADR=] , IPADDR=  
[ , NETMASK=] [ , NODENAME=] ;
```

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >	
	Default:	<SID>
	Addressing:	None
	Description:	Target Identifier, specifies the network node TID for the command.
CPORT	{3, 5, 7, 9, 11}	
	Default:	Entry Required
	Addressing:	None
	Description:	Control Port, identifies the CID which is configured as the LAN on the ICM module.
CTAG	< 1-6 VALID CTAG CHARACTERS >	
	Default:	< System assigned CTAG value >
	Addressing:	None
	Description:	Correlation Tag, associates input command with its output responses.

BRDCSTADR= {(0–255)–(0–255)–(0–255)–(0–255)}

Default: <Value derived from IPADDR and NETMASK>

Addressing: None

Description: Broadcast Address, specifies the Network Layer Broadcast Address for the specified IP Address. The Broadcast Address is the IP Address with all the host bits set to one (NOTE: the host bits are the bits in the NET-MASK that are set to zero).

Restrictions: The ENT–IP–PRMTR command is denied if the network address of BRDCSTADR does not equal the network address of the IPADDR.

GATEWAYADR= {{{(0–255)–(0–255)–(0–255)–(0–255)}}, DFLT}

Default: <Previously Existing Value>

Addressing: None

Description: Gateway Address, specifies the Network Layer's Default Gateway router's IP address. Name-defined values are:

DFLT Default, specifies the parameter is set to the factory default and the default gateway routing entry is removed from the IP routing table.

Restrictions: The ENT–IP–PRMTR command is denied if the provisioned subnet address of GATEWAYADR does not equal the subnet address of IPADDR. The ENT–IP–PRMTR command is denied if the Host ID portion of the specified GATEWAYADR is provisioned as all zeros (0s) or all ones (1s). The ENT–IP–PRMTR command is denied if the GATEWAYADR is in the 2.0.0.0 to 2.255.255.255 range.

IPADDR= {(0–223)–(0–255)–(0–255)–(0–255)}

Default: Entry Required

Addressing: None

Description: Internet Protocol Address, specifies the IP Address of the Network Interface. The lowest and highest IP Address Range is:

IP Address Range		
Class	Lowest	Highest
A	0.1.0.0	126.0.0.0
B	128.0.0.0	191.255.0.0
C	192.0.1.0	223.225.225.0

Restrictions: The ENT–IP–PRMTR command is denied if an IP Address outside of the lowest and highest IP Address Range is entered.

The ENT–IP–PRMTR command is denied if the IPADDR is in the 2.0.0.0 to 2.255.255.255 range.

The ENT–IP–PRMTR command is denied if the Host ID portion of the specified IPADDR is provisioned as all zeros (0s) or all ones (1s).

The ENT–IP–PRMTR command is denied if the network portion of the specified IPADDR is all zeros (0s) or all ones (1s) and the IPADDR is not subnetted.

The ENT–IP–PRMTR command is denied if the subnetwork address of the specified IPADDR is all zeros (0s) or all ones (1s) and the IPADDR is subnetted.

The ENT–IP–PRMTR command is denied if the network address of IPADDR does not equal the network address of the BRDCSTADR

NETMASK= {(0–255)–(0–255)–(0–255)–(0–255)}
Default: <Value determined by the IP Address>
Addressing: None
Description: Subnet Mask, specifies the subnet mask of the network to which the NE is connected to.

Default Value Determined by the IP Address		
Class	IP Address Range	Default NETMASK
A	0.0.0.0 to 127.255.255.255	255.0.0.0
B	128.0.0.0 to 191.255.255.255	255.255.0.0
C	192.0.0.0 to 223.255.255.255	255.255.255.0

Restrictions: The ENT–IP–PRMTR command is denied if any portion of the default NETMASK is 255 and that portion of the specified NETMASK is a number less than 255.

NODENAME= <1–15 ASCII printable characters>
Default: <Previously Existing Value>
Addressing: None
Description: TCP/IP Network Name, specifies the TCP/IP network name of the NE. This value is not used by the NE at this time, but is set so the verification of the IP address is made at a later time.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non–Parser Error Codes used with this command are:

IDNV Input, Data Not Valid
 IPNV Input, Parameter Not Valid

EXAMPLES

In the following example, the IP layer parameters pertaining to the LAN for CPORT 11 are being provisioned.

```
ENT-IP-PRMTR::11:::IPADDR=128-2-2-2;
```

RELATED COMMANDS

DLT-IP-PRMTR

3AL45392AJ
Issue 01, February 2005

ED-IP-PRMTR
RTRV-IP-PRMTR

COMMAND CODE: **ENT-IP-STATICRT**
COMMAND NAME: **ENTER IP STATIC ROUTE**

PURPOSE

The ENT-IP-STATICRT command allows adding an entry in the static routing table used by the Internet Protocol (IP) router running on the Local Area Network (LAN) interface on the Intelligent Communication Module (ICM). This command allows adding an entry in the network layer (Layer 3) parameters pertaining to the static routing table. This routing table enables the IP router to route packets to distant NEs.

Changes to the name-defined parameters take effect immediately and survive a database backup and restore.

The ENT-IP-STATICRT command can be executed while in the Limited Command Execution mode (i.e., after execution of a STOP-OPS command) or the Normal Command Execution mode.

An ENT-IP-STATICRT command is denied if:

- The specified CID is not provisioned as a LAN port on the ICM (via ENT-CID with PROTOCOL of TCP).
- The specified IPADDR is within the private IP address range defined in the Internet RFC 1597 for Private Internets.
- The specified IPADDR is within the 2.0.0.0 to 2.255.255.255 range.
- The specified IPADDR already exists in the static routing table.
- The specified IPADDR is not equal to its subnet address when DESTTYPE=NET.
- The specified IPADDR is outside the lowest and highest IP Address Range.
- The network portion of the specified IPADDR is all zeros (0s) or all ones (1s) and the IPADDR is not subnetted.
- The subnetwork address of the specified IPADDR is all zeros (0s) or all ones (1s) and the IPADDR is subnetted.
- The Host ID portion of the specified GATEWAYADR is provisioned as all zeros (0s) or all ones (1s).
- The GATEWAYADR is within the 2.0.0.0 to 2.255.255.255 range.
- The provisioned subnet address of the specified GATEWAYADR does not equal the subnet address of the IPADDR from ED-IP-PRMTR.
- Any portion of the default NETMASK is 255 and that portion of the specified NETMASK is a number less than 255.
- The static routing table is full (i.e., if 32 entries already exist in the table)
- The specified NETMASK is any value other than 255.255.255.255 when DESTTYPE=HOST.
- An invalid parameter value is entered.

INPUT FORMAT

```
ENT-IP-STATICRT: [TID] : CPORT: [CTAG] : : DESTTYPE=, GATEWAYADR=, IPADDR=
[, NETMASK=] ;
```

INPUT PARAMETERS

TID	< 1–20 VALID TID CHARACTERS >		
	Default:	<SID>	
	Addressing:	None	
	Description:	Target Identifier, specifies the network node TID for the command.	
CPORT	{3, 5, 7, 9, 11}		
	Default:	Entry Required	
	Addressing:	None	
	Description:	Control Port, identifies the CID which is configured as the LAN on the ICM module.	
CTAG	< 1–6 VALID CTAG CHARACTERS >		
	Default:	< System assigned CTAG value >	
	Addressing:	None	
	Description:	Correlation Tag, associates input command with its output responses.	

DESTTYPE= {HOST, NET}
Default: Entry Required
Addressing: None
Description: Destination Type, determines the type of the IP Address specified in the IPADDR parameter. Values are:
 HOST Specifies the IP Address type is a Host.
 NET Specifies the IP Address type is a Network.

GATEWAYADR= {(0–255)–(0–255)–(0–255)–(0–255)}
Default: Entry Required
Addressing: None
Description: Gateway Address, specifies the gateway address of the gateway to which the packets are sent in order to reach the NE whose IP address is as given in the IPADDR parameter.
Restrictions: The ENT–IP–STATICRT command is denied if the provisioned subnet address of GATEWAYADR does not equal the subnet address of IPADDR from ED–IP–PRMTR.
 The ENT–IP–STATICRT command is denied if the Host ID portion of the specified GATEWAYADR is provisioned as all zeros (0s) or all ones (1s).
 The ENT–IP–STATICRT command is denied if the GATEWAYADR is in the 2.0.0.0 to 2.255.255.255 range.

IPADDR= {(0–223)–(0–255)–(0–255)–(0–255)}
Default: Entry Required
Addressing: None
Description: Internet Protocol Address, specifies the IP Address of the NE to which the static route entry is made. The lowest and highest IP Address Range is:

IP Address Range		
Class	Lowest	Highest
A	0.1.0.0	126.0.0.0
B	128.0.0.0	191.255.0.0
C	192.0.1.0	223.225.225.0

Restrictions: The ENT–IP–STATICRT command is denied if an IP Address outside of the lowest and highest IP Address Range is entered.
 The ENT–IP–STATICRT command is denied if the IPADDR is in the 2.0.0.0 to 2.255.255.255 range.
 The ENT–IP–STATICRT command is denied if the specified IPADDR is not equal to its subnet address when DESTTYPE=NET (i.e. the logical AND of the IPADDR and NETMASK must equal the IPADDR).
 The ENT–IP–STATICRT command is denied if the network portion of the specified IPADDR is all zeros (0s) or all ones (1s) and the IPADDR is not subnetted.
 The ENT–IP–STATICRT command is denied if the subnetwork address of the specified IPADDR is all zeros (0s) or all ones (1s) and the IPADDR is subnetted.

NETMASK= {(0-255)-(0-255)-(0-255)-(0-255)}
Default: <Value determined by the IP Address and DESTTYPE=NET> or {255.255.255.255} (If DESTTYPE=HOST)
Addressing: None
Description: Subnet Mask, specifies the subnet mask of the network to which the NE with IPADDR is connected to.

Default Value Determined by the IP Address		
Class	IP Address Range	Default NETMASK
A	0.0.0.0 to 127.255.255.255	255.0.0.0
B	128.0.0.0 to 191.255.255.255	255.255.0.0
C	192.0.0.0 to 223.255.255.255	255.255.255.0

Restrictions: The ENT-IP-STATICRT command is denied if any portion of the default NETMASK is 255 and that portion of the specified NETMASK is a number less than 255.
The ENT-IP-STATICRT command is denied if the specified NETMASK is any value other than 255.255.255.255 when DESTTYPE=HOST.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV Input, Data Not Valid
IPMS Input, Parameter MiSsing
IPNV Input, Parameter Not Valid

EXAMPLES

In the following example, an entry in the static routing table is added.

```
ENT-IP-STATICRT::9:::DESTTYPE=NET,GATEWAYADR=200-200-20-2,
  IPADDR=200-200-20-2,NETMASK=255-255-255-0;
```

3AL45392AJ

Issue 01, February 2005

RELATED COMMANDS

DLT-IP-STATICRT

ED-IP-STATICRT

RTRV-IP-STATICRT

COMMAND CODE: **ENT-MAADDR**
COMMAND NAME: **ENTER MANUAL AREA ADDRESS**

PURPOSE

The ENT-MAADDR command allows provisioning of the Manual Area Addresses of Layer 3 (network layer) of the SONET Data Communication Channel (DCC) network.

Changes to the name-defined parameters are stored in the database and take effect when the OSI stack is (re)initialized. This is accomplished by performing a RST-EQPT of the DSB or by editing the DSB into an IS state from an OOS state via ED-EQPT command. All of the name-defined parameters survive a database backup and restore.

An ENT-MAADDR command is denied if:

- The specified DSB is not provisioned, i.e. the DSB is in a UAS secondary state.
- The specified DSB is not in an OOS-MA or OOS-AUMA primary state.
- An invalid parameter value is entered.

INPUT FORMAT

```
ENT-MAADDR: [TID]:AID:[CTAG]::[:L3IDP1=][:L3DFI1=][:L3ORG1=][:L3RES1=]
[:L3ROU1=][:L3IDP2=][:L3DFI2=][:L3ORG2=][:L3RES2=][:L3ROU2=]
[:L3IDP3=][:L3DFI3=][:L3ORG3=][:L3RES3=][:L3ROU3=];
```

INPUT PARAMETERS

TID	<p>< 1-20 VALID TID CHARACTERS ></p> <p>Default: <SID></p> <p>Addressing: None</p> <p>Description: Target Identifier, specifies the network node TID for the command.</p>
AID	<p>EQUIPMENT_AID:</p> <p>{DSB-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{1-2}}</p> <p>Default: Entry Required</p> <p>Addressing: None</p> <p>Description: DSB AID, identifies the DSB on which the manual area addresses are being modified.</p>
CTAG	<p>< 1-6 VALID CTAG CHARACTERS ></p> <p>Default: < System assigned CTAG value ></p> <p>Addressing: None</p> <p>Description: Correlation Tag, associates input command with its output responses.</p>
L3IDP1=	<p><6 ASCII HEXADECIMAL VALUES></p> <p>Default: {39840F}</p> <p>Addressing: None</p> <p>Description: Layer 3 Initial Domain Part 1, identifies the Initial Domain Part of the NSAP pertaining to the 1st Manual Area Address. The value is two fields including the Authority and Format Identifier (AFI) which is 1 octet long concatenating with the Initial Domain Identifier (IDI) which is 2 octets long for a total of 3 octets. Each octet is specified in the form of pq, where p and q are the ASCII encoded hexadecimal.</p>
L3DFI1=	<p><2 ASCII HEXADECIMAL VALUES></p> <p>Default: {80}</p> <p>Addressing: None</p> <p>Description: Layer 3 Domain Format Identifier 1, identifies the Domain Format Identifier Field of the NSAP pertaining to the 1st Manual Area Address. The value is 1 octet long and is specified in the form of pq, where p and q are the ASCII encoded hexadecimal.</p>

L3ORG1=	<6 ASCII HEXADECIMAL VALUES> Default: {000000} Addressing: None Description: Layer 3 Organization Identifier 1, specifies the Organization Identifier within the NSAP pertaining to the 1st Manual Area Address. The value is 3 octets long and each is specified in the form of pq, where p and q are the ASCII encoded hexadecimal. Restrictions: ENT-MAADDR is defined if the value for this parameter is already assigned to another L3ORGx parameter, i.e. two L3ORGs on the DSB are attempted to be provisioned at the same time.
L3RES1=	<4 ASCII HEXADECIMAL VALUES> Default: {0000} Addressing: None Description: Layer 3 Reserved Space 1, specifies the Reserved Space within the NSAP pertaining to the 1st Manual Area Address. The value is 2 octets long and each is specified in the form of pq, where p and q are the ASCII encoded hexadecimal.
L3ROU1=	<8 ASCII HEXADECIMAL VALUES> Default: {00000000} Addressing: None Description: Layer 3 Routing Domain 1, specifies both the Routing Domain of the NSAP (2 octets) and the area within the Routing Domain (2 octets) for a total of 4 octets pertaining to the 1st Manual Area Address. Each octet is specified in the form of pq, where p and q are the ASCII encoded hexadecimal. Restrictions: ENT-MAADDR is defined if the value for this parameter is already assigned to another L3ROUx parameter, i.e. two L3ROUs on the DSB are attempted to be provisioned at the same time.
L3IDP2=	<6 ASCII HEXADECIMAL VALUES> Default: {000000} Addressing: None Description: Layer 3 Initial Domain Part 2, identifies the Initial Domain Part of the NSAP pertaining to the 2nd Manual Area Address. The value is two fields including the Authority and Format Identifier (AFI) which is 1 octet long concatenating with the Initial Domain Identifier (IDI) which is 2 octets long for a total of 3 octets. Each octet is specified in the form of pq, where p and q are the ASCII encoded hexadecimal.
L3DFI2=	<2 ASCII HEXADECIMAL VALUES> Default: {00} Addressing: None Description: Layer 3 Domain Format Identifier 2, identifies the Domain Format Identifier Field of the NSAP pertaining to the 2nd Manual Area Address. The value is 1 octet long and is specified in the form of pq, where p and q are the ASCII encoded hexadecimal.

L3ORG2=	<6 ASCII HEXADECIMAL VALUES> Default: {000000} Addressing: None Description: Layer 3 Organization Identifier 2, specifies the Organization Identifier within the NSAP pertaining to the 2nd Manual Area Address. The value is 3 octets long and each is specified in the form of pq, where p and q are the ASCII encoded hexadecimal. Restrictions: ENT-MAADDR is defined if the value for this parameter is already assigned to another L3ORGx parameter, i.e. two L3ORGs on the DSB are attempted to be provisioned at the same time.
L3RES2=	<4 ASCII HEXADECIMAL VALUES> Default: {0000} Addressing: None Description: Layer 3 Reserved Space 2, specifies the Reserved Space within the NSAP pertaining to the 2nd Manual Area Address. The value is 2 octets long and each is specified in the form of pq, where p and q are the ASCII encoded hexadecimal.
L3ROU2=	<8 ASCII HEXADECIMAL VALUES> Default: {00000000} Addressing: None Description: Layer 3 Routing Domain 2, specifies both the Routing Domain of the NSAP (2 octets) and the area within the Routing Domain (2 octets) for a total of 4 octets pertaining to the 2nd Manual Area Address. Each octet is specified in the form of pq, where p and q are the ASCII encoded hexadecimal. Restrictions: ENT-MAADDR is defined if the value for this parameter is already assigned to another L3ROUx parameter, i.e. two L3ROUs on the DSB are attempted to be provisioned at the same time.
L3IDP3=	<6 ASCII HEXADECIMAL VALUES> Default: {000000} Addressing: None Description: Layer 3 Initial Domain Part 3, identifies the Initial Domain Part of the NSAP pertaining to the 3rd Manual Area Address. The value is two fields including the Authority and Format Identifier (AFI) which is 1 octet long concatenating with the Initial Domain Identifier (IDI) which is 2 octets long for a total of 3 octets. Each octet is specified in the form of pq, where p and q are the ASCII encoded hexadecimal.
L3DFI3=	<2 ASCII HEXADECIMAL VALUES> Default: {00} Addressing: None Description: Layer 3 Domain Format Identifier 3, identifies the Domain Format Identifier Field of the NSAP pertaining to the 3rd Manual Area Address. The value is 1 octet long and is specified in the form of pq, where p and q are the ASCII encoded hexadecimal.

L3ORG3=	<6 ASCII HEXADECIMAL VALUES> Default: {000000} Addressing: None Description: Layer 3 Organization Identifier 3, specifies the Organization Identifier within the NSAP pertaining to the 3rd Manual Area Address. The value is 3 octets long and each is specified in the form of pq, where p and q are the ASCII encoded hexadecimal. Restrictions: ENT-MAADDR is defined if the value for this parameter is already assigned to another L3ORGx parameter, i.e. two L3ORGs on the DSB are attempted to be provisioned at the same time.
L3RES3=	<4 ASCII HEXADECIMAL VALUES> Default: {0000} Addressing: None Description: Layer 3 Reserved Space 3, specifies the Reserved Space within the NSAP pertaining to the 3rd Manual Area Address. The value is 2 octets long and each is specified in the form of pq, where p and q are the ASCII encoded hexadecimal.
L3ROU3=	<8 ASCII HEXADECIMAL VALUES> Default: {00000000} Addressing: None Description: Layer 3 Routing Domain 3, specifies both the Routing Domain of the NSAP (2 octets) and the area within the Routing Domain (2 octets) for a total of 4 octets pertaining to the 3rd Manual Area Address. Each octet is specified in the form of pq, where p and q are the ASCII encoded hexadecimal. Restrictions: ENT-MAADDR is defined if the value for this parameter is already assigned to another L3ROUx parameter, i.e. two L3ROUs on the DSB are attempted to be provisioned at the same time.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

```

IDNC      Input, Data Not Consistent
          /* Unable to read aux buffer for <AID> */
IDNV      Input, Data Not Valid
          /* Invalid parameter in the input command */
          /* Duplicate organization identifier is detected. */
          /* Duplicate routing domain is detected. */

```

IIAC	Input, Invalid ACcess identifier /* Invalid or unassigned equipment identifier specified. */
SARB	Status, All Resources Busy /* Command already in progress on equipment. */ /* Automatic system configuration active on equipment. */ /* Automatic configuration (database download) of parent processor in progress. */ /* Level 2 processor software download in progress. Try again later. */ /* INIT-SYS command still active on shelf that equipment is on. */
SDBE	Status, internal Data Base Error /* Data base access failure */ /* Unable to update the LANDCC database */ /* Unable to read the LANDCC database. */
SNVS	Status, Not in Valid State /* DSB is not in a Maintenance state */

EXAMPLES

The following example, provisions the Manual Area Addresses of Layer 3 of the SONET DCC for DSB 6-1-1 with Layer 3 Initial Domain Part 1 value of A100BC and Layer 3 Organization Identifier 3 with value of 2F1234.

```
ENT-MAADDR::DSB-6-1-1:::L3IDP1= A100BC,L3ORG3= 2F1234;  
  
  <SID> <YY-MM-DD> <HH:MM:SS>  
M  P72004 COMPLD  
  /* The ENT-MAADDR for DSB-6-1-1 was completed. */  
  /* ENT-MAADDR::DSB-6-1-1:::L3IDP1= A100BC,L3ORG3= 2F1234 [P72004] (1)
```

RELATED COMMANDS

DLT-MAADDR
ED-MAADDR
RTRV-MAADDR

COMMAND CODE: **ENT-OC12**
COMMAND NAME: **ENTER OC12**

PURPOSE

The ENT-OC12 command creates (assigns and provisions) an OC12 object entity (AID). Both working and protection OC12 lines can be addressed by this command.

The default values for the PST parameter and keyword parameters can be modified with the SET-DFLT-OC12 command. The current default values can be retrieved with the RTRV-DFLT-OC12 command.

An OC12 that has not been provisioned has a PST,SST of OOS-MA,UAS or OOS-AUMA,UAS&DSBLD (OOS-AUMA if the supporting O4M and S3M equipment is not provisioned). Executing an ENT-OC12 command causes the following primary state transitions for the specified OC12. Secondary states associated with the OC12 before and after the command is executed depend upon events detected by the system. Refer to Appendix G State Transitions, for additional information on state values and state transitions.

Entered PST,SST Value	Next PST State if Present Default Database Value is:		
	OOS	IS	IS, AINS
<NoVal>, <NoVal>	OOS-MA	IS	OOS-AU, AINS
IS, <NoVal>	IS	IS	OOS-AU, AINS
IS,AINS	OOS-AU, AINS	OOS-AU, AINS	OOS-AU, AINS
OOS,<NoVal>	OOS-MA	OOS-MA	Denied
OOS,AINS	Denied	Denied	Denied
<NoVal>,AINS	Denied	OOS-AU, AINS	OOS-AU, AINS
<NoVal>,AINS-DEA	Denied	Denied	IS
IS,AINS-DEA	Denied	Denied	IS
OOS,AINS-DEA	Denied	Denied	OOS-MA

Note: 1. <NoVal> means no value is entered for that parameter.

When an OC12 is provisioned to an OOS-MA state, a MAN condition type is set for the specified OC12. The MAN condition type is cleared when the OC12 is provisioned to an IS state.

When an OC12 is in an OOS-MA, OOS-AUMA, or OOS-AU,AINS state, no OC12 transmission condition types or performance monitoring threshold crossing alerts are autonomously reported for the OC12, but OC12 alarm conditions are monitored (retrievable with the RTRV-OC12 command) and performance monitoring data is collected (if provisioned for PM collection by the SET-PMODE-OC12 command) for the OC12. An OC12 in an OOS-AU,AINS state transitions to an IS state when all OC12 near-end alarm conditions for that OC12 have cleared.

An ENT-OC12 command is denied if:

- The specified OC12's supporting O4M and all three S3M modules are not provisioned (i.e., OC12 has an SST of DSBLD).
- The specified OC12 is already provisioned.
- An invalid parameter value or combination of parameter values is entered.

I/O protection switching is disabled if the OC12 line supported by the O4M and three S3M I/O circuit packs is provisioned to an OOS-MA or OOS-AUMA state.

When an ENT-OC12 command is executed, the default values for the following items are automatically provisioned for the specified OC12, and all PM data collection registers for the OC12 are automatically reset to zero. These default values cannot be changed, except for PM attributes, unless the specified OC12 has first been provisioned by an ENT-OC12 command.

- Condition type attributes (refer to Appendix C, Condition Types and SET-ATTR-OC12)
- Performance monitoring (PM) attributes (refer to SET-PMATTR-ALL)
- PM mode (refer to SET-PMMODE-OC12)
- PM threshold levels (refer to SET-TH-OC12)
- PM reports (refer to ALW-PMREPT-OC12)

INPUT FORMAT

ENT-OC12: [TID] :AID: [CTAG] : : [AINSTH=] [, SDTHSW=] [, S1TRANS=] : [PST] [, SST] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	OC12_AID: {OC12-{1-560}} (OC12-OC12#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: OC12 AID, identifies the OC12 port or range of ports.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
AINSTH=	{HH-MM:{00-48} - {00-59} } Default: System start-up value. Factory Default = 8 hours. Addressing: None Description: Automatic In-Service Threshold, specifies how long a customer signal must be present on the facility without a LOS, LOF, or AIS-L alarm condition before the system puts the facility into the In-Service state. The factory default is 8 hours. The valid value is: HH-MM Time, specifies the duration of an alarm-free signal where value HH indicates the time duration in hours and value MM indicates the time duration in minutes. The valid range of values is 00-48 and 00-59 (in increments of 1 minute), respectively. Restrictions: If 48 is specified in the HH, then MM has to be 00.
SDTHSW=	{5, 6, 7, 8, 9} Default: <Value retrieved with RTRV-DFLT-OC12 command> Addressing: None Description: Signal Degrade Threshold Switching level, indicates the signal degrade threshold over which Signal Degrade protection switching is initiated. Values are: 5 BER threshold of 10E ⁻⁵ 6 BER threshold of 10E ⁻⁶ 7 BER threshold of 10E ⁻⁷ 8 BER threshold of 10E ⁻⁸ 9 BER threshold of 10E ⁻⁹

S1TRANS=	{ DUS, ACT }	
	Default:	<Value retrieved with RTRV-DFLT-OC12 command>
	Addressing:	None
	Description:	S1 byte to be transmitted, determines if the S1 byte transmitted of the specified OC12 will have the "DUS" message or will have the actual traceability of the signal. Values are:
	DUS	Don't USE. The S1 byte is set to "DON'T USE for Synchronization" message.
	ACT	ACTual. The S1 byte is set to the actual traceability of the signal.
PST	{IS, OOS}	
	Default:	<Value retrieved with RTRV-DFLT-OC12 command>
	Addressing:	None
	Description:	Primary State, specifies the primary state to provision the OC12. Values are:
	IS	In-Service, the OC12 is provisioned to an IS or OOS-AU state.
	OOS	Out-Of-Service, the OC12 is provisioned to an OOS-AUMA or OOS-MA state.
	Restrictions:	ENT-OC12 is denied if PST of OOS and SST of AINS is entered.
SST	{AINS, AINS-DEA}	
	Default:	<Value retrieved with RTRV-DFLT-OC12 command>
	Addressing:	None
	Description:	Secondary State, specifies the secondary state to provision the OC12. Values are:
	AINS	Automatic In-Service, if PST,SST of IS,AINS is entered the OC12 is provisioned to an OOS-AU,AINS state.
	AINS-DEA	Automatic In-Service-Deactivate, the OC12 is not provisioned to an OOS-AU,AINS state. The OC12's SST value is entered as <NoVal> (unpopulated), and the SST state is determined by its provisioned PST value and system-detected events.
	Restrictions:	ENT-OC12 is denied if SST of AINS and PST of OOS is entered. ENT-OC12 is denied if SST of AINS-DEA is entered and the current OC12 state is not OOS-AU,AINS (an SST state of AINS).

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  /* <Free Form Informational Text> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent
IDNV	Input, Data Not Valid
IIAC	Input, Invalid ACcess identifier
SDBE	Status, internal Data Base Error /* TP Database Error: <ERROR-STRING> for <AID-STRING> */ /* DFLT Database Error: <ERROR-STRING> */ /* Error enabling supported STS1s, Error=<ERROR-STRING> */ /* Error enabling supported DCC, Error=<ERROR-STRING> */
SNVS	Status, Not in Valid State
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, OC12 port OC12-14 is provisioned to the OOS-AU,AINS state.

```
ENT-OC12::OC12-14::::IS,AINS;
```

In the following example, OC12 port OC12-14, OC12-15, and OC12-16 are being provisioned using &&-ranging, to the OOS-MA state, but the port OC12-15 is already provisioned.

```
ENT-OC12::OC12-14&&-16::::OOS;
```

For this example, the output response shown assumes CID 1 was used to enter the command and a system generated CTAG value of Pfc518. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M Pfc518 PRTL  
  "3-15:ERRCDE=SNVS"  
  /* Status, Not in Valid State */  
  /* ENT-OC12::OC12-14&&-16::::OOS [Pfc518] (1) */  
;
```

RELATED COMMANDS

DLT-OC12
ED-OC12
RMV-OC12
RST-OC12
RTRV-DFLT-OC12
RTRV-OC12
RTRV-SYSTMMSG-OC12
SET-DFLT-OC12

COMMAND CODE: **ENT-OC3**
COMMAND NAME: **ENTER OC-3**

PURPOSE

The ENT-OC3 command creates (assigns and provisions) an OC-3 object entity (AID). Both working and protection OC-3 lines can be addressed by this command.

The default values for the PST parameter and keyword parameters can be modified with the SET-DFLT-OC3 command. The current default values can be retrieved with the RTRV-DFLT-OC3 command.

An OC-3 that has not been provisioned has a PST,SST of OOS-MA,UAS or OOS-AUMA,UAS&DSBLD (OOS-AUMA if the supporting equipment O1B is not provisioned). Executing an ENT-OC3 command causes the following primary state transitions for the specified OC-3. Secondary states associated with the OC-3 before and after the command is executed depend upon events detected by the system. Refer to Appendix G State Transitions, for additional information on state values and state transitions.

Entered PST,SST Value	Next PST State if Present Default Database Value is:		
	OOS	IS	IS, AINS
<NoVal>, <NoVal>	OOS-MA	IS	OOS-AU, AINS
IS, <NoVal>	IS	IS	OOS-AU, AINS
IS,AINS	OOS-AU, AINS	OOS-AU, AINS	OOS-AU, AINS
OOS,<NoVal>	OOS-MA	OOS-MA	Denied
OOS,AINS	Denied	Denied	Denied
<NoVal>,AINS	Denied	OOS-AU, AINS	OOS-AU, AINS
<NoVal>,AINS-DEA	Denied	Denied	IS
IS,AINS-DEA	Denied	Denied	IS
OOS,AINS-DEA	Denied	Denied	OOS-MA

Note: 1. <NoVal> means no value is entered for that parameter.

When an OC-3 is provisioned to an OOS-MA state, a MAN condition type is set for the specified OC-3. The MAN condition type is cleared when the OC-3 is provisioned to an IS state.

When an OC-3 is in an OOS-MA, OOS-AUMA, or OOS-AU,AINS state, no OC-3 transmission condition types or performance monitoring threshold crossing alerts are autonomously reported for the OC-3, but OC-3 alarm conditions are monitored (retrievable with the RTRV-OC3 command) and performance monitoring data is collected (if provisioned for PM collection by the SET-PMMODE-OC3 command) for the OC-3. An OC-3 in an OOS-AU,AINS state transitions to an IS state when all OC-3 near-end alarm conditions for that OC-3 have cleared.

An ENT-OC3 command is denied if:

- The specified OC-3's supporting object the O1B I/O module is not provisioned (i.e. OC-3 has an SST of DSBLD).
- The specified OC-3 is already provisioned.
- An invalid parameter value or combination of parameter values is entered.

I/O protection switching is disabled if the OC-3 line supported by the O1B I/O circuit pack is provisioned to an OOS-MA or OOS-AUMA state.

When an ENT-OC3 command is executed, the default values for the following items are automatically provisioned for the specified OC-3, and all PM data collection registers for the OC-3 are automatically reset to zero. These default values cannot be changed, except for PM attributes, unless the specified OC-3 has first been provisioned by an ENT-OC3 command.

- Condition type attributes (refer to Appendix C, Condition Types and SET-ATTR-OC3)
- Performance monitoring (PM) attributes (refer to SET-PMATTR-ALL)
- PM mode (refer to SET-PMMODE-OC3)
- PM threshold levels (refer to SET-TH-OC3)
- PM reports (refer to ALW-PMREPT-OC3)

INPUT FORMAT

ENT-OC3 : [TID] : AID : [CTAG] : : : [AINSTH=] [, SDTHSW=] [, S1TRANS=] : [PST] [, SST] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	OC3_AID: {OC3-{1-2240}} (OC3-OC3#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: OC3 AID, identifies the OC-3 port or range of ports.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
AINSTH=	{HH-MM:{00-48} - {00-59} } Default: System start-up value. Factory Default = 8 hours. Addressing: None Description: Automatic In-Service Threshold, specifies how long a customer signal must be present on the facility without a LOS, LOF, or AIS-L alarm condition before the system puts the facility into the In-Service state. The factory default is 8 hours. The valid value is: HH-MM Time, specifies the duration of an alarm-free signal where value HH indicates the time duration in hours and value MM indicates the time duration in minutes. The valid range of values is 00-48 and 00-59 (in increments of 1 minute), respectively. Restrictions: If 48 is specified in HH, then MM has to be 00.
SDTHSW=	{5, 6, 7, 8, 9} Default: <Value retrieved with RTRV-DFLT-OC3 command> Addressing: None Description: Signal Degrade Threshold Switching level, indicates the signal degrade threshold over which Signal Degrade protection switching is initiated. Values are: 5 BER threshold of 10E ⁻⁵ 6 BER threshold of 10E ⁻⁶ 7 BER threshold of 10E ⁻⁷ 8 BER threshold of 10E ⁻⁸ 9 BER threshold of 10E ⁻⁹

S1TRANS=	{ DUS, ACT }	
	Default:	<Value retrieved with RTRV-DFLT-OC3 command>
	Addressing:	None
	Description:	S1 byte to be transmitted, determines if the S1 byte transmitted of the specified OC-3 will have the "DUS" message or will have the actual traceability of the signal. Values are:
	DUS	Don't USE. The S1 byte is set to "DON'T USE for Synchronization" message.
	ACT	ACTual. The S1 byte is set to the actual traceability of the signal.
PST	{IS, OOS}	
	Default:	<Value retrieved with RTRV-DFLT-OC3 command>
	Addressing:	None
	Description:	Primary State, specifies the primary state to provision the OC-3. Values are:
	IS	In-Service, the OC-3 is provisioned to an IS or OOS-AU state.
	OOS	Out-Of-Service, the OC-3 is provisioned to an OOS-AUMA or OOS-MA state.
	Restrictions:	ENT-OC3 is denied if PST of OOS and SST of AINS is entered.
SST	{AINS, AINS-DEA}	
	Default:	<Value retrieved with RTRV-DFLT-OC3 command>
	Addressing:	None
	Description:	Secondary State, specifies the secondary state to provision the OC-3. Values are:
	AINS	Automatic In-Service, if PST,SST of IS,AINS is entered the OC-3 is provisioned to an OOS-AU,AINS state.
	AINS-DEA	Automatic In-Service-Deactivate, the OC-3 is not provisioned to an OOS-AU,AINS state. The OC-3's SST value is entered as <NoVal> (unpopulated), and the SST state is determined by its provisioned PST value and system detected events.
	Restrictions:	ENT-OC3 is denied if SST of AINS and PST of OOS is entered. ENT-OC3 is denied if SST of AINS-DEA is entered and the current OC-3 state is not OOS-AU,AINS (an SST state of AINS).

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  /* <Free Form Informational Text> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent
IDNV	Input, Data Not Valid
IIAC	Input, Invalid ACcess identifier
SDBE	Status, internal Data Base Error /* TP Database Error: <ERROR-STRING> for <AID-STRING> */ /* DFLT Database Error: <ERROR-STRING> */ /* Error enabling supported STS1s, Error=<ERROR-STRING> */ /* Error enabling supported DCC, Error=<ERROR-STRING> */
SNVS	Status, Not in Valid State
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, OC-3 port OC3-14 is provisioned to the OOS-AU,AINS state.

```
ENT-OC3::OC3-14:::::IS,AINS;
```

In the following example, OC-3 port OC3-14, OC3-15 and OC3-16 are being provisioned using &&-ranging, to the OOS-MA state, but the port OC3-15 is already provisioned.

```
ENT-OC3::OC3-14&&-16:::::OOS;
```

For this example, the output response shown assumes CID 1 was used to enter the command and a system generated CTAG value of Pfc518. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M Pfc518 PRTL  
  "3-15:ERRCDE=SNVS"  
  /* Status, Not in Valid State */  
  /* ENT-OC3::OC3-14&&-16:::::OOS [Pfc518] (1) */  
;
```

RELATED COMMANDS

DLT-OC3
ED-OC3
RMV-OC3
RST-OC3
RTRV-DFLT-OC3
RTRV-OC3
RTRV-SYSTEMSG-OC3
SET-DFLT-OC3

COMMAND CODE: **ENT-OSADDR-SITE**
COMMAND NAME: **ENTER OPERATIONS SYSTEM ADDRESS
SITE**

PURPOSE

The ENT-OSADDR-SITE command enters a new X.25 Incoming SVC (Switched Virtual Circuit) calling address, and any associated automatic login User Identifier (UID), into the system's X.25 Incoming SVC Calling Address database. A maximum of 32 X.25 incoming SVC calling addresses can be entered into the database.

The calling address field in an X.25 incoming SVC call request packet received over any X.25 SVC channel is compared to the system's X.25 Incoming SVC Calling Address database. If a calling address match is found, an X.25 session is established (the system accepts the X.25 call request). If an auto-login UID database entry is associated with the calling address, the associated User is automatically logged-in to the system, otherwise a normal login sequence (via ACT-USER) is required.

If X.25 incoming SVC calling address validation is disabled (VALIDATE set to NONE in the ED-PRMTR-SITE command), the system accepts any incoming X.25 SVC call request. However, the calling address field in an X.25 incoming SVC call request packet is still compared to the system's X.25 Incoming SVC Calling Address database to determine the required login sequence. If a calling address match is found and an auto-login UID is associated with the calling address, the associated User is automatically logged-in to the system, otherwise a normal login sequence (via ACT-USER) is required.

The ENT-OSADDR-SITE command only adds an X.25 incoming SVC calling address entry to the system's X.25 Incoming SVC Calling Address database. The ED-OSADDR-SITE command changes the AUTOIN parameter value associated with a incoming SVC calling address database entry. The DLT-OSADDR-SITE command removes an incoming SVC calling address from the database. The RTRV-OSADDR-SITE command retrieves the contents of the system's X.25 Incoming SVC Calling Address database.

User login security is removed by provisioning an X.25 Incoming SVC with automatic UID login since anyone with access to the communication interface has the same command privileges as the UID provisioned in the AUTOIN parameter.

A virtual channel connected to a printer terminal (refer to the TYPE parameter in the ENT-USER command) should be configured for automatic UID login. If the virtual channel is configured for a normal login sequence (AUTOIN of %), the system waits for an ACT-USER command (indefinitely if an output-only printer terminal is connected).

An ENT-OSADDR-SITE command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

ENT-OSADDR-SITE: [TID] :: [CTAG] :: ADDR, [AUTOIN] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

ADDR	<1–15 INTEGER X.25_CALLING_ADDRESS> Default: Entry Required Addressing: None Description: X.25 Incoming SVC Calling Address, specifies the X.25 Incoming SVC Calling Address (the X.25 address for the system calling the 1631 SX) to be added to the X.25 Incoming SVC Calling Address database. If the value of ADDR is less than 10 digits, leading zeroes are truncated unless the ADDR value is entered enclosed within double quotes ("...").
AUTOIN	{%, <UID> } Default: {%} Addressing: None Description: Automatic Login, specifies whether a User ID is automatically logged-in to the system when an X.25 incoming SVC call request packet is received with a calling address matching the entered ADDR value. Values are: % No Automatic Login, a normal log-in sequence (via ACT-USER) is required to access the system. <UID> UID Automatically Logged-in, the entered User ID (UID) is automatically logged-in when an X.25 incoming SVC call request packet is received with a calling address matching the entered ADDR value.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
/* <ADDR>, <AUTOIN> */
[/* <Command Echo> [<CTAG>] (<CID [-VCNUM] >) */]
;

```

OUTPUT PARAMETERS

ADDR	<1–15 INTEGER X.25_CALLING_ADDRESS> X.25 Incoming SVC Calling Address, indicates the X.25 Incoming SVC Calling Address (the X.25 address for the system calling the 1631 SX) that was added to the X.25 Incoming SVC Calling Address database.
AUTOIN	{%, <UID>} Automatic Login, identifies the User ID that is automatically logged-in to the system when an X.25 incoming SVC call request packet is received with a calling address matching the entered ADDR value. Values are: % No Automatic Login, a normal log-in sequence (via ACT-USER) is required to access the system. <UID> UID Automatically Logged-in, the User ID (UID) is automatically logged-in when an X.25 incoming SVC call request packet is received with a calling address matching the entered ADDR value.

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Optional Suggested Action Text> */]
[/* <Command Echo> [<CTAG>] (<CID [-VCNUM] >) */]
;

```


ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IPNV	Input, Parameter Not Valid /* Illegal Input: ADDR */ /* Illegal Input: AUTOIN */ /* AUTO LOGIN (Illegal AUTOIN) */ /* AUTO LOGIN (Duplicate AUTOIN in OSADDR) */ /* AUTO LOGIN (Duplicate AUTOIN in OSDB) */ /* AUTO LOGIN (Non-Existent AUTOIN) */ /* AUTO LOGIN (TABS user on non-TABS CID) */ /* AUTO LOGIN (NON-TABS user on TABS CID) */
SDBE	Status, internal Data Base Error /* OSADDR contains max number of records – status = <status number> */ /* Unable to write to OSADDR – status = <status number> */
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, the X.25 incoming SVC calling address 14045551212, with an associated auto-login UID of SMITH, is added to the X.25 Incoming SVC Calling Address database.

```
ENT-OSADDR-SITE:::::14045551212, SMITH;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P1e006. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P1e006 COMPLD
/* 14045551212, SMITH */
/* ENT-OSADDR-SITE:::::14045551212, SMITH [P1e006] (1) */
;
```

RELATED COMMANDS

```
DLT-CID
DLT-CID-VC
DLT-OSADDR-SITE
ED-CID
ED-CID-OSPORT
ED-CID-VC
ED-OSADDR-SITE
ED-PRMTR-SITE
ENT-CID
ENT-CID-VC
RMV-CID
RST-CID
RTRV-CID
RTRV-OSADDR-SITE
RTRV-PRMTR-SITE
START-CID
STOP-CID
```


COMMAND CODE: **ENT-PARTITN**
COMMAND NAME: **ENTER PARTITION**

PURPOSE

The ENT-PARTITN command creates a uniquely named user facility partition. The system supports a maximum of thirty-two (32) user facility partitions.

User facility partitioning allows any OC12, OC3, EC1, STS1, STS3C, VT1, T3, T1, or F3 port to be partitioned into groups of OC12, OC3, EC1, STS1, STS3C, VT1.5, DS3, DS1, or F3 facilities (facility partitions) with each partition associated with specific "partitioned" users. A partitioned user's TL1 command access to the ports in the specified facility partition is then restricted to the facilities assigned to that partition. Restricted access is controlled by defining a user as a partitioned user and associating the user with a specific partition, by the user's CCAL and CCFC provisioning (restricts the commands the user can execute) and by the set of commands that operate on facility partitions (restricts the command operation to the facilities assigned to a partition).

The OC12, OC3, EC1, STS1, STS3C, VT1, T3, T1, or F3 ports assigned to a facility partition need not be contiguous (physically or logically). A facility partition is only a logical mapping of OC12, OC3, EC1, STS1, STS3C, VT1, T3, T1, or F3 ports to the partition. Any OC12, OC3, EC1, STS1, STS3C, VT1, T3, T1, or F3 port can be added to an OC12, OC3, EC1, STS1, STS3C, VT1.5, DS3, DS1, or F3 facility partition, respectively, regardless of whether a port is provisioned or the port exists in the system.

Any user, except the "sysprint", "system" (administrator) or Alcatel account users, can be associated with a facility partition. The commands a partitioned user can execute are determined by the user's command privileges (the user's CCAL and CCFC provisioning via ENT-USER or ED-PRVG-USER). However, execution of a command that supports facility partitions by a partitioned user only operates on the facilities in the facility partition associated with the partitioned user. Refer to the Introduction section for a list of the commands supporting user facility partitioning.

Special care should be exercised when provisioning command privileges for a partitioned user. Only those commands that support facility partitioning provide protection for facilities not in the partitioned user's facility partition. All other commands that do not support facility partitioning operate the same regardless if a partitioned user or non-partitioned user executes the command (e.g., INIT-SYS). A set of commands recommended for use by partitioned users is contained in the default CCAL Group Y (refer to Appendix H. User Command Privilege Defaults).

A facility partition is created by specifying a unique partition name with the ENT-PARTITN command. OC12, OC3, EC1, STS1, STS3C, VT1, T3, T1, or F3 ports are assigned to an OC12, OC3, EC1, STS1, STS3C, VT1.5, DS3, DS1, or F3 facility partition with the ED-PARTITN-OC12, ED-PARTITN-OC3, ED-PARTITN-EC1, ED-PARTITN-STS1, ED-PARTITN-STS3C, ED-PARTITN-VT1, ED-PARTITN-T3, ED-PARTITN-T1, or ED-PARTITN-F3 command, respectively. A user is associated with a facility partition with the ENT-USER and ED-PRVG-USER commands.

An ENT-PARTITN command is denied if:

- The specified facility partition name already exists.
- Thirty-two (32) facility partition names already exist (another partition would result in more than 32 partitions).
- The "User Partitioning" PFO is not enabled.
- An invalid parameter value is entered.

INPUT FORMAT

ENT-PARTITN: [TID] : : [CTAG] : : PARTNAM;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >
Default:	<SID>
Addressing:	None
Description:	Target Identifier, specifies the network node TID for the command.

CTAG	< 1–6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
PARTNAM	<1–20 VALID NON–CASE SENSITIVE ALPHANUMERIC CHARACTERS> Default: Entry Required Addressing: None Description: Partition Name, specifies the name of the user facility partition. The valid character set for PARTNAM consists of any non–case sensitive alphanumeric characters, underscore, plus–sign, percent–sign, and pound–sign, with the first character an alphabetical character, except the keyword “ALL” is not allowed as a partition name. Restrictions: ENT–PARTITN is denied if a PARTNAM of “ALL” is entered.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
/* Partition <PARTNAM> has been entered. */
/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

OUTPUT PARAMETERS

PARTNAM	< 1–20 VALID PARTITION NAME CHARACTERS > Partition Name, indicates the name assigned to the user facility partition.
---------	---

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
/* <Informational Error Description Text> */
/* <Expanded Error Code Description> */
/* <Optional Suggested Action Text> */
/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non–Parser Error Codes used with this command are:

ENFE	Equipage, FEature Not provided
IDNV	Input, Data Not Valid /* ALL cannot be used as a partition name */ /* Partition name's first character must be alphabetic */
IIFM	Input, Invalid data ForMat /* PARTNAM length */
IPNV	Input, Parameter Not Valid /* PARTNAM */
SAIS	Status, Already In Service /* partition <PARTNAM> already exists */
SDBE	Status, internal Data Base Error /* Error accessing the PARTITION DB – status = <status number> */
SROF	Status, Requested Operation Failed /* Unable to write to partition database */

EXAMPLES

In the following example, the partition named PARTITION1 is created.

```
ENT-PARTITN:::::PARTITION1;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P25008. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M P25008 COMPLD  
/* Partition PARTITION1 has been entered. */  
/* ENT-PARTITN:::::PARTITION1 [P25008] (1) */  
;
```

RELATED COMMANDS

```
DLT-PARTITN  
ED-PARTITN-EC1  
ED-PARTITN-F3  
ED-PARTITN-OC12  
ED-PARTITN-OC3  
ED-PARTITN-ST51  
ED-PARTITN-ST53C  
ED-PARTITN-T1  
ED-PARTITN-T3  
ED-PARTITN-VT1  
ED-PRVG-USER  
ENT-USER  
RTRV-PARTITN
```


COMMAND CODE: **ENT-RNG-OC12**
COMMAND NAME: **ENTER RING OC12**

PURPOSE

The ENT-RNG-OC12 command creates (assigns) ring protection group pairs for OC12 facilities. It associates a preferred (protected) OC12 with an alternate (protecting) OC12. If an ENT-FFP-OC12 has been entered (i.e., the ports are provisioned for linear mode), the ENT-RNG-OC12 command will fail.

Upon successful completion of the ENT-RNG-OC12 command for ring protection group pairs of OC12 facilities, *no distinction exists between the working OC12 and the protection OC12 port*. The terminology “preferred” and “alternate” is used in ring mode in place of “working (i.e., protected)” and “protection (i.e., protecting)”, respectively. Therefore, any references throughout this manual to protection OC12 and working OC12 ports refer to OC12 ports in their normal linear mode of operation. The STS-1/VT1.5 paths contained in the odd-numbered OC12s are the default preferred paths (or protected paths). The STS-1/VT1.5 paths contained in the even-numbered OC12s are the default alternate (or protecting) paths.

Executing an ENT-RNG-OC12 command causes all of the VT1.5s within the ring that are two-way cross-connected to carry an SST of BUSY.

Executing an ENT-RNG-OC12 while the STS-1s/VT1.5s within the specified OC12 is two-way cross-connected to an STS-1/VT1.5 within another OC12 that is already defined as part of an another ring will complete successfully.

An ENT-RNG-OC12 command is denied if:

- The OC12s specified in B1 and B2 parameters have not previously been provisioned (SST of UAS).
- An ENT-FFP-OC12 command has been previously completed for the specified OC12 ports (i.e., the ports have been provisioned for normal linear mode).
- The OC12s specified in B1 and B2 parameters do not refer to preferred and alternate OC12 respectively.
- Either of the specified OC12s contain an STS3C provisioned within them.
- Any of the supported objects within the specified AIDs are involved in a one-way cross-connect (an SST of ACT), in a conference (an SST of ACT), in a loopback (an SST of LPBK), in a test access operation (an SST of TS), or in a one-way rolling operation (an SST of ROLL).
- A two-way cross-connection exists between any two STS1s/VT1.5s of the same OC12.
- Any T1 within the T3 within the STS1 embedded within the addressed OC12 is cross connected.
- The STSPTYEL/VTPTYEL of the STS1/VT1 within the OC12 specified in B1/B2 is set to Y.
- The addressed STS1 or VT1 is in a 2WAYPR connection with another VT1/STS1 embedded in a ring.
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

ENT-RNG-OC12 : [TID] : B1 , B2 : [CTAG] : : : [WTSDEL=] ;

INPUT PARAMETERS

TID	< 1–20 VALID TID CHARACTERS >		
	Default:	<SID>	
	Addressing:	None	
	Description:	Target Identifier, specifies the network node TID for the command.	
B1	OC12_AID:		
	{OC12–{1–560}}		(OC12–OC12#)
	Default:	Entry Required	
	Addressing:	None	
	Description:	OC12 AID, identifies the preferred (protected) OC12 port.	
	Restrictions:	ENT–RNG–OC12 is denied if the OC12 specified is not an odd–num–bered OC12.	

B2	OC12_AID:	
	{OC12-{1-560}}	(OC12-OC12#)
	Default:	Entry Required
	Addressing:	None
	Description:	OC12 AID, identifies the alternate (protecting) OC12 port.
	Restrictions:	ENT-RNG-OC12 is denied if the OC12 specified is not an even-numbered OC12.
		ENT-RNG-OC12 is denied if B2 is not equal to B1+1.
CTAG	< 1-6 VALID CTAG CHARACTERS >	
	Default:	< System assigned CTAG value >
	Addressing:	None
	Description:	Correlation Tag, associates input command with its output responses.
WTSDEL=	{DELAY, IMMED}	
	Default:	{IMMED}
	Addressing:	None
	Description:	Wait to Switch Delay. Determines if the path switching on the paths within the OC12 is to be delayed by a set amount determined by the hardware or if it is immediate. Values are:
	DELAY	The path switching is to be delayed by approximately 25 milliseconds after the fault is detected.
	IMMED	The path switching is to occur immediately upon detection of the fault.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  /* <Free Form Informational Text> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```


ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid
IIAC	Input, Invalid ACcess identifier
SDBE	Status, internal Data Base Error /* get_sipb_typ() Error */ /* get _mtx_type () Error */ /*TP Database Error: <ERROR-STRING> for <AID-STRING>*/ /*Error updating OC ring supported entities, Error=<ERROR-STRING>*/ /*RNG Database Error: <ERROR-STRING> for record number <RECORD-NUMBER>*/ /*CONN Database Error: <ERROR-STRING> for <AID-STRING>*/ /*RPP Database Error: <ERROR-STRING> for <AID-STRING>*/ /*TPidToTbss(<TP-TYPE>, <RECORD-NUMBER>) Error: <ERROR-STRING>*/
SDNC	Status, Data Not Consistent /*Invalid command on O1B or O4M with an IPB module*/ /*Invalid command on O1B or O4M with M16 center stage cards*/ /*SPB has inadequate memory to handle command*/
SNVS	Status, Not in Valid State
SROF	Status, Requested Operation Failed
SRQN	Status, invalid ReQuest

EXAMPLES

In the following example, a ring protection relationship is created for OC12 ports OC12-14 (alternate line) and OC12-13 (preferred line).

```
ENT-RNG-OC12::OC12-13,OC12-14:::WTSDEL=IMMED;
```

RELATED COMMANDS

```
DLT-RNG-OC12  
ED-RNG-OC12  
ENT-STs1  
ENT-T1  
ENT-T3  
ENT-VT1  
RTRV-RNG-OC12
```


COMMAND CODE: **ENT-RNG-OC3**
COMMAND NAME: **ENTER RING OC3**

PURPOSE

The ENT-RNG-OC3 command creates (assigns) ring protection group pairs for OC3 facilities. It associates a preferred (protected) OC3 with an alternate (protecting) OC3. If an ENT-FFP-OC3 has been entered (i.e., the ports are provisioned for linear mode), the ENT-RNG-OC3 command will fail.

Upon successful completion of the ENT-RNG-OC3 command for ring protection group pairs of OC3 facilities, *no distinction exists between the working OC3 and the protection OC3 port*. The terminology “preferred” and “alternate” is used in ring mode in place of “working (i.e., protected)” and “protection (i.e., protecting)”, respectively. Therefore, any references throughout this manual to protection OC3 and working OC3 ports refer to OC3 ports in their normal linear mode of operation. The STS-1/VT1.5 paths contained in the odd-numbered OC3s are the default preferred paths (or protected paths). The STS-1/VT1.5 paths contained in the even-numbered OC3s are the default alternate (or protecting) paths.

Executing an ENT-RNG-OC3 command causes all of the VT1.5s within the ring that are two-way cross-connected to carry an SST of BUSY.

Executing an ENT-RNG-OC3 while the STS-1s/VT1.5s within the specified OC3 is two-way cross-connected to an STS-1/VT1.5 within another OC3 that is already defined as part of an another ring will complete successfully.

An ENT-RNG-OC3 command is denied if:

- The OC3s specified in B1 and B2 parameters have not previously been provisioned (SST of UAS).
- An ENT-FFP-OC3 command has been previously completed for the specified OC3 ports (i.e., the ports have been provisioned for normal linear mode).
- The OC3s specified in B1 and B2 parameters do not refer to preferred and alternate OC3, respectively.
- Either of the specified OC3s contain an STS-3C provisioned within them.
- Any of the supported objects within the specified AIDs are involved in a one-way cross-connect (an SST of ACT), in a conference (an SST of ACT), in a loopback (an SST of LPBK), in a test access operation (an SST of TS), or in a one-way rolling operation (an SST of ROLL).
- A two-way cross-connection exists between any two STS-1s/VT1.5s of the same OC3.
- Any T1 within the T3 within the STS-1 embedded within the addressed OC3 is cross connected.
- The O1Bs on which the specified OC3s reside are in a shelf that have an IPB installed.
- The specified OC3 resides on an O1B with a controller other than L3PE2.
- The protect modules in the shelf containing the addressed OC3 are IPBs or if the center stage modules are M16s. (i.e., the protect modules must be RPBs and the Center stage modules must be M40s to be able to provision OC3 rings).
- The STSPTYEL/VTPTYEL of the STS-1/VT1.5 within the OC3 specified in B1/B2 is set to Y.
- The addressed STS-1 or VT1.5 is in a 2WAYPR connection with another VT1.5/STS-1 embedded in a ring.
- An invalid parameter value or combination of parameter values is entered.
- ENT-RNG-OC3 is denied if one or more DS1 embedded in the ring are provisioned with SRC=EXTSRC or INTSRC.

INPUT FORMAT

ENT-RNG-OC3 : [TID] : B1 , B2 : [CTAG] : : : [WTSDEL=] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >
Default:	<SID>
Addressing:	None
Description:	Target Identifier, specifies the network node TID for the command.

B1	OC3_AID:	
	{OC3-{1-2240}}	(OC3-OC3#)
	Default:	Entry Required
	Addressing:	None
	Description:	OC3 AID, identifies the preferred (protected) OC3 port.
B2	Restrictions:	ENT-RNG-OC3 is denied if the OC3 specified is not an odd-numbered OC3.
	OC3_AID:	
	{OC3-{1-2240}}	(OC3-OC3#)
	Default:	Entry Required
	Addressing:	None
CTAG	Description:	OC3 AID, identifies the alternate (protecting) OC3 port.
	Restrictions:	ENT-RNG-OC3 is denied if the OC3 specified is not an even-numbered OC3.
		ENT-RNG-OC3 is denied if B2 is not equal to B1+1.
	< 1-6 VALID CTAG CHARACTERS >	
	Default:	< System assigned CTAG value >
WTSDEL=	Addressing:	None
	Description:	Correlation Tag, associates input command with its output responses.
	{DELAY, IMMED}	
	Default:	<Previously Existing Value>
	Addressing:	None
	Description:	Wait to Switch Delay. Determines if the path switching on the paths within the OC3 is to be delayed by a set amount determined by the hardware or if it is immediate. Values are:
	DELAY	The path switching is to be delayed by approximately 25 milliseconds after the fault is detected.
	IMMED	The path switching is to occur immediately upon detection of the fault.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  /* <Free Form Informational Text> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid
IIAC	Input, Invalid ACcess identifier
SDBE	Status, internal Data Base Error /* get_sipb_typ() Error */ /* get _mtx_type () Error */ /*TP Database Error: <ERROR-STRING> for <AID-STRING>*/ /*Error updating OC ring supported entities, Error=<ERROR-STRING>*/ /*RNG Database Error: <ERROR-STRING> for record number <RECORD-NUMBER>*/ /*CONN Database Error: <ERROR-STRING> for <AID-STRING>*/ /*RPP Database Error: <ERROR-STRING> for <AID-STRING>*/ /*TPidToTbss(<TP-TYPE>, <RECORD-NUMBER>) Error: <ERROR-STRING>*/
SDNC	Status, Data Not Consistent /*Invalid command on O1B or O4M with an IPB module*/ /*Invalid command on O1B or O4M with M16 center stage cards*/ /*SPB has inadequate memory to handle command*/
SNVS	Status, Not in Valid State
SROF	Status, Requested Operation Failed
SRQN	Status, invalid ReQuest

EXAMPLES

In the following example, a ring protection relationship is created for OC3 ports OC3-14 (alternate line) and OC3-13 (preferred line).

```
ENT-RNG-OC3::OC3-13,OC3-14:::WTSDEL=IMMED;
```

RELATED COMMANDS

```
DLT-RNG-OC3  
ED-RNG-OC3  
ENT-STs1  
ENT-T1  
ENT-T3  
ENT-VT1  
RTRV-RNG-OC3
```


COMMAND CODE: **ENT-ROLL-T1**
COMMAND NAME: **ENTER ROLL T1**

PURPOSE

The ENT-ROLL-T1 command disconnects the existing DS1 or VT1.5 cross-connection specified by the DS1/VT1.5 AIDs FROM and TO, and CCT. A new DS1/VT1.5 cross-connection is established as specified by the DS1/VT1.5 AIDs RFROM and RTO, and CCT, where RFROM is the DS1/VT1.5 port common with the initial cross-connection (common with either FROM or TO) and RTO is the destination of the completed rolling operation.

ENT-ROLL-T1 requires an existing cross-connection to exist between the FROM and TO ports. The DS1 or VT1.5 port being rolled to (RTO) may also be associated with an existing, unrelated cross-connection, or it may be disconnected.

The roll can be performed in one of the four modes: fully automatic (RMODE=AUTO), Semi-automatic (RMODE=MAN), Immediate (RMODE=IMM) and fully manual (RMODE=FMAN1 followed by FMAN2 and/or DLT-ROLL-T1). The following table summarizes the relationship between the various parameter of this command and the type of roll performed, where A and B are the ports that are now cross connected and C is the port to which the traffic is to be rolled.

Existing X-Conn Between A&B	FROM	TO	RFROM	RTO	CCT	Allowed RMODE	RMODE Denied	TYPE OF ROLL
2WAY	A	B	A	C	2WAY	AUTO, MAN, FMAN1/FMAN2/DLT, IMM	NONE	DUPLEX
	A	B	B	C	2WAY	AUTO, MAN, FMAN1/FMAN2/DLT, IMM	NONE	DUPLEX
	A	B	A	C	1WAY	MAN, FMAN1/DLT	AUTO, FMAN2, IMM	Simplex Transmit Side Roll. AB rolled to AC
	A	B	B	C	1WAY	AUTO, FMAN1/FMAN2, IMM	MAN	Simplex Receive Side Roll. AB rolled to CB
	B	A	B	C	1WAY	MAN, FMAN1/DLT	AUTO, FMAN2, IMM	Simplex Transmit Side Roll. BA rolled to BC
	B	A	A	C	1WAY	AUTO, FMAN1/FMAN2, IMM	MAN	Simplex Receive Side Roll. BA rolled to CA.
1WAY A to B	A	B	A	C	1WAY	MAN, FMAN1/DLT	AUTO, FMAN2, IMM	Simplex Transmit Side Roll. AB rolled to AC.
	A	B	B	C	1WAY	AUTO, FMAN1/FMAN2, IMM	MAN	Simplex Receive Side Roll. AB rolled to CB
	A	B	Don't Care		2WAY	ENT-ROLL-T1 command denied		
	B	A	ENT-ROLL-T1 command denied					

Existing X-Conn Between A&B	FROM	TO	RFROM	RTO	CCT	Allowed RMODE	RMODE Denied	TYPE OF ROLL
1WAY B to A	B	A	B	C	1WAY	MAN, FMAN1/DLT	AUTO, FMAN2, IMM	Simplex Transmit Side Roll. BA rolled to BC.
	B	A	A	C	1WAY	AUTO, FMAN1/FMAN2, IMM	MAN	Simplex Receive Side Roll. BA rolled to CA
	B	A	Don't Care		2WAY	ENT-ROLL-T1 command denied		
	A	B	ENT-ROLL-T1 command denied					

In all of the modes, except in the IMM mode, the system sets a ROLLMON condition on the port as soon as the monitoring the receiving side of the RTO has started. Once a valid signal (A signal without LOS, LOF, AIS and EOC) is present this condition is cleared. The port is monitored for EOC only if the far end PM on that port is enabled..

In all of the modes, except in the IMM mode, the roll occurs *immediately* if the RTO port has been provisioned with FMT=UNFR, regardless of a valid signal being present on the RTO port. Therefore, to enable the system to wait for a valid signal (a signal without LOS, LOF, AIS) before allowing a roll to occur, the RTO port should be provisioned or edited with FMT={ESF, SF}.

An automatic (RMODE=AUTO) *duplex* roll is performed as follows:

- on receiving an ENT-ROLL-T1 command, a bridge connection is made from RFROM to RTO port.
- RTO port's receive side is monitored for a valid signal.
- Once a valid signal is present on the receive side of the RTO port, a receive side switch is performed at the RFROM whereby cross connection from RTO to RFROM is made thereby dropping TO to RFROM cross connection and the old bridge connection from RFROM to TO is disconnected thereby completing the roll.

A semi-automatic (RMODE=MAN) *duplex* is performed as follows:

- On receiving an ENT-ROLL-T1 command, a bridge connection is made from RFROM to RTO port.
- RTO port's receive side is monitored for a valid signal.
- Once a valid signal is present on the receive side of the RTO port, a receive side switch is performed at the RFROM whereby cross connection from RTO to RFROM is made thereby dropping TO to RFROM cross connection and the old bridge connection from RFROM to TO is left intact, until a DLT-ROLL-T1 command is received.
- On subsequent DLT-ROLL-T1 command, the old bridge connection from RFROM to RTO is disconnected and the roll is completed.

A fully manual (RMODE=FMAN1) *duplex* is performed as follows:

- On receiving an ENT-ROLL-T1 command, a bridge connection is made from RFROM to RTO port.
- RTO port's receive side is monitored for a valid signal.
- Once a valid signal is present on the receive side of the RTO port, monitoring of the RTO port is stopped and no other action is taken.
- On receiving a subsequent ENT-ROLL-T1 command with RMODE=FMAN2, a receive side switch is performed at the RFROM whereby cross connection from RTO to RFROM is made thereby dropping TO to RFROM cross connection and the old bridge connection from RFROM to TO is left intact, until a DLT-ROLL-T1 command is received.
- On subsequent DLT-ROLL-T1 command, the old bridge connection from RFROM to TO is disconnected and the roll is completed.

When 1way roll of the RFROM to TO connection is requested, a simplex transmit side roll is performed and only MAN or FMAN1 modes are allowed. An automatic roll mode will not be allowed as it is not possible to monitor the signal sent out. A semi-automatic (RMODE=MAN) or a fully manual (RMODE=FMAN1) simplex transmit side roll is performed as follows:

- On receiving an ENT-ROLL-T1 command, a bridge connection is made from RFROM to RTO port.
- On subsequent DLT-ROLL-T1 command, the old bridge connection from RFROM to TO is disconnected and the roll is completed.
- Note that in the above case both the MAN and the FMAN1 modes behave the same.

When 1way roll of the FROM to RFROM connection is requested, a simplex receive side roll is performed and only AUTO or FMAN1 followed by FMAN2 are allowed. An automatic roll is performed as follows:

- On receiving the ENT-ROLL-T1 command, RTO port's receive side is monitored for a valid signal.
- Once a valid signal is present on the receive side of the RTO port, a receive side switch is performed at the RFROM whereby cross connection from RTO to RFROM is made thereby dropping FROM to RFROM cross connection to complete the roll operation.

A fully manual (RMODE=FMAN1) simplex receive side roll is performed as follows:

- On receiving the ENT-ROLL-T1 command, RTO port's receive side is monitored for a valid signal.
- Once a valid signal is present on the receive side of the RTO port, monitoring of the RTO port is stopped and no other action is taken.
- On receiving a subsequent ENT-ROLL-T1 command with RMODE=FMAN2, a receive side switch is performed at the RFROM whereby cross connection from RTO to RFROM is made thereby dropping FROM to RFROM cross connection to complete the roll operation.

An immediate (RMODE=IMM) transmit side roll will be denied. An immediate receive side roll is performed as follows:

- On receiving the ENT-ROLL-T1 command, a receive side switch is performed at the RFROM whereby cross connection from RTO to RFROM is made thereby dropping FROM to RFROM cross connection to complete the roll operation. This is done regardless of the state of the RTO port. Also the ROLLMON is not set or cleared in this mode.

The ENT-ROLL-T1 command completes successfully for all of the roll types (AUTO, MAN, IMM, and FMAN) if the FROM and/or TO ports are not embedded within the same ring OC3/OC12, are in a 2WAY (unprotected) connection, and the RTO port is not busy.

Executing an ENT-ROLL-T1 causes a state transition for any newly created cross-connect entity from

- Non-Existent to IS
- Non-Existent to OOS-AU

Executing an ENT-ROLL-T1 causes a state transition for the disconnected cross-connect entity from

- IS to Non-Existent
- OOS-AU to Non-Existent

While the roll operation is proceeding, a secondary state of ROLL will be present on the all the ports that are involved in the roll operation. The ROLL secondary state will be cleared on the completion of the roll. If the roll operation sets up a cross connection from VT1.5 to T1, then the VT1.5 will carry a secondary state of TRM. The RTO port that is involved in the roll will also carry ACT secondary state if it does not already carry one before the roll.

After the roll operation is completed, the secondary state of:

- the VT1.5 embedded within a ring OC3/OC12 is set to BUSY (if cross-connected to another VT1.5).
- the VT1.5 embedded within a ring OC3/OC12 is set to TRMBUSY (if cross-connected to a DS1).
- the VT1.5 or DS1 not embedded within a ring OC3/OC12 is set to ACT or BUSY (as applicable).

(Refer to Appendix G, State Transitions for additional information on state values and state transitions.)

ENT-ROLL-T1 is denied if:

- Either of the specified FROM, TO, or RTO DS1/VT1.5 ports are not provisioned (using ENT-T1/VT1.5).
- The cross-connection specified by FROM, TO, and CCT does not exist.
- The specified FROM and TO values are identical (the same DS1 port).
- The specified RTO port has all cross-connect capacity utilized in the direction of the roll (rolling to the transmit side of the RTO port which is already cross-connected and bridged).

- Either of the specified FROM, TO or RTO DS1 ports are part of a broadcast conference connection (a CTYPE of BCST from a RTRV-CRS command), are in a loopback (a DS1 SST of LPBK), are in a test access operation (a DS1 or cross-connection SST of TS), have C-bit loopback enabled or established (a Condition Type of ALWCBLPBK or RVCCLPBK), or have been terminated (using CHG-TL-DIG, a cross-connection SST of TERMB, TERMF, TERMT).
- The specified RTO port is an embedded DS1 and the supporting DS3 is in a loopback (a DS3 SST of LPBK).
- The specified RTO DS1 port is provisioned as an Idle Signal Source port or as part of a Test Access Port Pair (FAD A or FAD B).
- The specified TO, FROM, RTO, or RFROM port is an embedded DS1 and the supporting DS3 is intact cross-connected (a DS3 SST of ACT or BUSY).
- The roll is setting a cross connection between VT1.5 and T1 and the VTMAP of the VT1.5 is not ASYNC.
- The specified TO, FROM, RTO, or RFROM address a VT1.5 and the supporting STS1 is intact cross-connected (an STS-1 SST of ACT or BUSY).
- The specified TO, FROM, RTO, or RFROM address a VT1.5/T1 embedded within a protection OC3/OC12.
- A VT1.5 is being 1WAY rolled to a DS1 and the VT1.5 specified in TO, FROM, and/or RTO is embedded within a ring OC3/OC12 (refer to ENT-RNG-OC3 or ENT-RNG-OC12).
- The specified FROM and TO ports are in a 2WAY pass through connection.
- The specified FROM or TO port is in a 2WAYPR connection.
- The specified FROM/TO ports are in a 2WAYDC connection.
- The specified FROM, TO, or RTO port is embedded within a ring OC3/OC12 and CCT=1WAY is entered.
- The specified RTO port is a DS1 embedded within a ring OC3/OC12.
- The specified RFROM and RTO ports are embedded within the same ring OC3/OC12.
- The specified FROM, TO, RFROM, or RTO port is redlined (in RDL=Y state).
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

ENT-ROLL-T1 : [TID] : FROM, TO : [CTAG] : : [CCT=] , RFROM= , RMODE= , RTO= ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >		
	Default:	<SID>	
	Addressing:	None	
	Description:	Target Identifier, specifies the network node TID for the command.	
FROM	DS1_AID:		
	{T1-{1-59392}}	(T1-DS1#)	
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)	
	{EC1T1-{1-3840}-{1-28}}	(EC1T1-EC1/STS1/DS3#-DS1#)	
	{OC3T1-{1-2240}-{1-3}-{1-28}}	(OC3T1-OC3#-STS1/DS3#-DS1#)	
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}	(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)	
	VT1_AID:		
	{EC1VT1-{1-3840}-{1-7}-{1-4}}	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)	
	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)	
	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)	
	Default:	Entry Required	
	Addressing:	None	
	Description:	DS1 or VT1 AID. If CCT=1WAY, FROM identifies the receive side (from the network) of the cross-connection to be rolled. If CCT=2WAY then either AID of the cross-connection may be used as the FROM AID.	
	Restrictions:	ENT-ROLL-T1 is denied if the FROM and TO values are equal. ENT-ROLL-T1 is denied if the RFROM value is not the same as either the FROM or TO values.	

ENT-ROLL-T1 is denied if the RFROM and FROM values are equal and RMODE=IMM and CCT=1WAY is entered.
ENT-ROLL-T1 is denied if both FROM, TO specify VT1.5s.

TO	DS1_AID:	
	{T1-{1-59392}}	(T1-DS1#)
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)
	{EC1T1-{1-3840}-{1-28}}	(EC1T1-EC1/STS1/DS3#-DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-28}}	(OC3T1-OC3#-STS1/DS3#-DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}	(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)
	VT1_AID:	
	{EC1VT1-{1-3840}-{1-7}-{1-4}}	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)
	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)
	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)
	Default:	Entry Required
	Addressing:	None
	Description:	DS1 AID or VT1. If CCT=1WAY, TO identifies the transmit side (to the network) of the cross-connection to be rolled. If CCT=2WAY then either AID of the cross-connection may be used as the TO AID.
	Restrictions:	ENT-ROLL-T1 is denied if the FROM and TO values are equal. ENT-ROLL-T1 is denied if the RFROM value is not the same as either the FROM or TO values. ENT-ROLL-T1 is denied if both FROM, TO specify VT1.5s.
CTAG	< 1-6 VALID CTAG CHARACTERS >	
	Default:	< System assigned CTAG value >
	Addressing:	None
	Description:	Correlation Tag, associates input command with its output responses.
CCT=	{1WAY, 2WAY}	
	Default:	{1WAY if RMODE is IMM} {2WAY if RMODE is AUTO, MAN, FMAN1, or FMAN2}
	Addressing:	None
	Description:	Cross-Connect Type, identifies the cross-connect type to be rolled. A one-way connection of an existing two-way cross-connection may be specified. Values are:
	1WAY	One-Way cross-connection in the FROM to TO direction is to be rolled.
	2WAY	Two-Way cross-connection between FROM and TO is to be rolled.
	Restrictions:	ENT-ROLL-T1 is denied if CCT=1WAY and RMODE=IMM is entered and the RFROM and FROM values are equal.

RFROM=	DS1_AID:	
	{T1-{1-59392}}	(T1-DS1#)
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)
	{EC1T1-{1-3840}-{1-28}}	(EC1T1-EC1/STS1/DS3#-DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-28}}	(OC3T1-OC3#-STS1/DS3#-DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}	(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)
	VT1_AID:	
	{EC1VT1-{1-3840}-{1-7}-{1-4}}	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)
	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)
	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)
	Default:	Entry Required
	Addressing:	None
	Description:	Roll From, identifies the end of the cross-connection that remains fixed through the roll operation (RFROM is the DS1/VT1.5 port common to the existing connection specified by FROM,TO and the new connection after the roll operation).
	Restrictions:	ENT-ROLL-T1 is denied if the RFROM and RTO values are equal. ENT-ROLL-T1 is denied if the RFROM value is not the same as either the FROM or TO values. ENT-ROLL-T1 is denied if the RFROM and FROM values are equal and RMODE=IMM and CCT=1WAY is entered.
	RMODE= {IMM, AUTO, MAN, FMAN1, FMAN2}	
	Default:	Entry Required
	Addressing:	None
	Description:	Rolling Mode, specifies the mode of the rolling operation to be performed. Values are:
	IMM	Immediate, the rolling operation is performed at command execution, regardless of the condition of the signals involved in the roll.
	AUTO	Automatic mode. Old broadcast tail, if one present, is automatically dropped on detection of valid signal in the new path.
	MAN	Manual mode. Old broadcast tail, if one present, is to be retained on detection of valid signal in the new path.
	FMAN1	Fully manual mode part 1. Broadcast tail is set up and monitoring for valid signal begins. No action taken on detection of valid signal in the new path.
	FMAN2	Fully manual mode part 2. Connection established from RTO to RFROM ports. This is done automatically regardless of the signal condition. The roll will even be performed if no signal is present in the new path.
	Restrictions:	ENT-ROLL-T1 is denied if RMODE=IMM and CCT=1WAY is entered and the RFROM and FROM values are equal.

RTO= DS1_AID:
 {T1-{1-59392}} (T1-DS1#)
 {T3T1-{1-4800}-{1-28}} (T3T1-DS3#-DS1#)
 {EC1T1-{1-3840}-{1-28}} (EC1T1-EC1/STS1/DS3#-DS1#)
 {OC3T1-{1-2240}-{1-3}-{1-28}} (OC3T1-OC3#-STS1/DS3#-DS1#)
 {OC12T1-{1-560}-{1-4}-{1-3}-{1-28}} (OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)
 VT1_AID:
 {EC1VT1-{1-3840}-{1-7}-{1-4}} (EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)
 {OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}} (OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)
 {OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}
 (OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)
 Default: Entry Required
 Addressing: None
 Description: Roll To, identifies the end of the cross-connection that is new after the rolling operation is complete.
 Restrictions: ENT-ROLL-T1 is denied if the RFROM and RTO values are equal.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent
IDNV	Input, Data Not Valid
IPNV	Input, Parameter Not Valid
SAIS	Status, Already In Service
SARB	Status, All Resources Busy
SCSN	Status, invalid Command Sequence
SDBE	Status, internal Data Base Error
	/* Failed to get OTHER supporting entity records */
	/* Failed to get RFROM supporting entity records */
	/* Failed to get RTO supporting entity records */
	/* <DATABASE TYPE> Database Error: <STATUS> for <AID STRING> */
	/* <DATABASE TYPE> Database Error: <STATUS> for record number <RECORD NUMBER> */
SDNC	Status, Data Not Consistent
SNVS	Status, Not in Valid State
SROF	Status, Requested Operation Failed
SRQN	Status, invalid ReQuest

EXAMPLES

In the following example, a one-way DS1 cross-connection is rolled from an existing connection from port T3T1-2-2 (FROM) to port T3T1-3-3 (TO) to a new connection from port T3T1-4-4 (RTO) to port T3T1-3-3 (RFROM). In this example, the existing cross-connection between T3T1-2-2 and T3T1-3-3 could be either a two-way or one-way cross-connection. (This roll operation is sometimes referred to as a one-way receive side roll.)

```
ENT-ROLL-T1::T3T1-2-2,T3T1-3-3:::RFROM=T3T1-3-3,RTO=T3T1-4-4,RMODE=IMM;
```

In the following example, a two-way DS1 cross-connection is rolled from an existing two-way cross-connection between ports T3T1-5-5 (FROM) and T3T1-6-6 (TO) to a new two-way cross-connection between ports EC1T1-7-7 (RTO) and T3T1-6-6 (RFROM). (This example illustrates a two-way roll when RFROM equals TO.)

```
ENT-ROLL-T1::T3T1-5-5,T3T1-6-6:::RFROM=T3T1-6-6,RTO=EC1T1-7-7,  
CCT=2WAY,RMODE=FMAN1;
```

In the following example, a two-way DS1 cross-connection is rolled from an existing two-way cross-connection between ports EC1T1-8-8 (FROM) and EC1T1-9-9 (TO) to a new two-way cross-connection between ports T3T1-10-10 (RTO) and EC1T1-8-8 (RFROM). (This example illustrates a two-way roll when RFROM equals FROM.)

```
ENT-ROLL-T1::EC1T1-8-8,EC1T1-9-9:::RFROM=EC1T1-8-8,RTO=T3T1-10-10,  
CCT=2WAY,RMODE=AUTO;
```

The following example sets up a 2WAY, AUTO roll for the DS1 connection between ports T3T1-1-18, and T3T1-1-19. The new connection will be between ports T3T1-1-18 and T3T1-1-20.

```
ENT-ROLL-T1::T3T1-1-18,T3T1-1-19:::RFROM=T3T1-1-18,RTO=T3T1-1-20,  
CCT=2WAY,RMODE=AUTO;
```

RELATED COMMANDS

DLT-CRS-T1
DLT-ROLL-T1
ENT-CRS-T1
ENT-T1
RTRV-CRS
RTRV-CRS-T1
RTRV-ROLL-T1
RTRV-T1

COMMAND CODE: **ENT-ROLL-VT1**
COMMAND NAME: **ENTER ROLL VT1**

PURPOSE

The ENT-ROLL-VT1 command disconnects the existing VT1.5 cross-connection specified by the VT1.5 AIDs FROM and TO, and CCT. A new VT1.5 cross-connection is established as specified by the VT1.5 AIDs RFROM and RTO, and CCT, where RFROM is the VT1.5 port common with the initial cross-connection (common with either FROM or TO) and RTO is the destination of the completed rolling operation.

ENT-ROLL-VT1 requires an existing cross-connection to exist between the FROM and TO ports. The VT1.5 port being rolled to (RTO) may also be associated with an existing, unrelated cross-connection, or it may be disconnected.

The roll can be performed in one of the four modes: fully automatic (RMODE=AUTO), Semi-automatic (RMODE=MAN), Immediate (RMODE=IMM) and fully manual (RMODE=FMAN1 followed by FMAN2 and/or DLT-ROLL-VT1). The following table summarizes the relationship between the various parameter of this command and the type of roll performed, where A and B are the ports that are now cross connected and C is the port to which the traffic is to be rolled.

Existing X-Conn Between A&B	FROM	TO	RFROM	RTO	CCT	Allowed RMODE	RMODE Denied	TYPE OF ROLL
2WAY	A	B	A	C	2WAY	AUTO, MAN, FMAN1/FMAN2/DLT, IMM	NONE	DUPLEX
	A	B	B	C	2WAY	AUTO, MAN, FMAN1/FMAN2/DLT, IMM	NONE	DUPLEX
	A	B	A	C	1WAY	MAN, FMAN1/DLT	AUTO, FMAN2, IMM	Simplex Transmit Side Roll. AB rolled to AC
	A	B	B	C	1WAY	AUTO, FMAN1/FMAN2, IMM	MAN	Simplex Receive Side Roll. AB rolled to CB
	B	A	B	C	1WAY	MAN, FMAN1/DLT	AUTO, FMAN2, IMM	Simplex Transmit Side Roll. BA rolled to BC
	B	A	A	C	1WAY	AUTO, FMAN1/FMAN2, IMM	MAN	Simplex Receive Side Roll. BA rolled to CA.
1WAY A to B	A	B	A	C	1WAY	MAN, FMAN1/DLT	AUTO, FMAN2, IMM	Simplex Transmit Side Roll. AB rolled to AC.
	A	B	B	C	1WAY	AUTO, FMAN1/FMAN2, IMM	MAN	Simplex Receive Side Roll. AB rolled to CB
	A	B	Don't Care		2WAY	ENT-ROLL-VT1 command denied		
	B	A	ENT-ROLL-VT1 command denied					

Existing X-Conn Between A&B	FROM	TO	RFROM	RTO	CCT	Allowed RMODE	RMODE Denied	TYPE OF ROLL
1WAY B to A	B	A	B	C	1WAY	MAN, FMAN1/DLT	AUTO, FMAN2, IMM	Simplex Transmit Side Roll. BA rolled to BC.
	B	A	A	C	1WAY	AUTO, FMAN1/FMAN2, IMM	MAN	Simplex Receive Side Roll. BA rolled to CA
	B	A	Don't Care		2WAY	ENT-ROLL-VT1 command denied		
	A	B	ENT-ROLL-VT1 command denied					

In all the modes, except in the IMM mode, the system sets a ROLLMON condition on the port as soon as the monitoring the receiving side of the RTO has started. Once a valid signal (A signal without AIS, LOP, IDLE, SLMF, or RFI) is present this condition is cleared.

An automatic (RMODE=AUTO) *duplex* roll is performed as follows:

- on receiving an ENT-ROLL-VT1 command, a bridge connection is made from RFROM to RTO port.
- RTO port's receive side is monitored for a valid signal.
- Once a valid signal is present on the receive side of the RTO port, a receive side switch is performed at the RFROM whereby cross connection from RTO to RFROM is made thereby dropping TO to RFROM cross connection and the old bridge connection from RFROM to TO is disconnected thereby completing the roll.

A semi-automatic (RMODE=MAN) *duplex* is performed as follows:

- On receiving an ENT-ROLL-VT1 command, a bridge connection is made from RFROM to RTO port.
- RTO port's receive side is monitored for a valid signal.
- Once a valid signal is present on the receive side of the RTO port, a receive side switch is performed at the RFROM whereby cross connection from RTO to RFROM is made thereby dropping TO to RFROM cross connection and the old bridge connection from RFROM to TO is left intact, until a DLT-ROLL-VT1 command is received.
- On subsequent DLT-ROLL-VT1 command, the old bridge connection from RFROM to RTO is disconnected and the roll is completed.

A fully manual (RMODE=FMAN1) *duplex* is performed as follows:

- On receiving an ENT-ROLL-VT1 command, a bridge connection is made from RFROM to RTO port.
- RTO port's receive side is monitored for a valid signal.
- Once a valid signal is present on the receive side of the RTO port, monitoring of the RTO port is stopped and no other action is taken.
- On receiving a subsequent ENT-ROLL-VT1 command with RMODE=FMAN2, a receive side switch is performed at the RFROM whereby cross connection from RTO to RFROM is made thereby dropping TO to RFROM cross connection and the old bridge connection from RFROM to TO is left intact, until a DLT-ROLL-VT1 command is received.
- On subsequent DLT-ROLL-VT1 command, the old bridge connection from RFROM to TO is disconnected and the roll is completed.

When one-way roll of the RFROM to TO connection is requested, a simplex transmit side roll is performed and only MAN or FMAN1 modes are allowed. An automatic roll mode will not be allowed as it is not possible to monitor the signal sent out. A semi-automatic (RMODE=MAN) or a fully manual (RMODE=FMAN1) simplex transmit side roll is performed as follows:

- On receiving an ENT-ROLL-VT1 command, a bridge connection is made from RFROM to RTO port.
- On subsequent DLT-ROLL-VT1 command, the old bridge connection from RFROM to TO is disconnected and the roll is completed.
- Note that in the above case both the MAN and the FMAN1 modes behave the same.

When one-way roll of the FROM to RFROM connection is requested, a simplex receive side roll is performed and only AUTO or FMAN1 followed by FMAN2 are allowed. An automatic roll is performed as follows:

- On receiving the ENT-ROLL-VT1 command, RTO port's receive side is monitored for a valid signal.
- Once a valid signal is present on the receive side of the RTO port, a receive side switch is performed at the RFROM whereby cross connection from RTO to RFROM is made thereby dropping FROM to RFROM cross connection to complete the roll operation.

A fully manual (RMODE=FMAN1) simplex receive side roll is performed as follows:

- On receiving the ENT-ROLL-VT1 command, RTO port's receive side is monitored for a valid signal.
- Once a valid signal is present on the receive side of the RTO port, monitoring of the RTO port is stopped and no other action is taken.
- On receiving a subsequent ENT-ROLL-VT1 command with RMODE=FMAN2, a receive side switch is performed at the RFROM whereby cross connection from RTO to RFROM is made thereby dropping FROM to RFROM cross connection to complete the roll operation.

An immediate (RMODE=IMM) transmit side roll will be denied. An immediate receive side roll is performed as follows:

- On receiving the ENT-ROLL-VT1 command, a receive side switch is performed at the RFROM whereby cross connection from RTO to RFROM is made thereby dropping FROM to RFROM cross connection to complete the roll operation. This is done regardless of the state of the RTO port. Also the ROLLMON is not set or cleared in this mode.

The ENT-ROLL-VT1 command completes successfully for all of the roll types (AUTO, MAN, IMM, and FMAN) if the FROM and/or TO ports are not embedded within the same ring OC-3/OC-12, are in a 2WAY (unprotected) connection, and the RTO port is not busy.

Executing an ENT-ROLL-VT1 causes a state transition for any newly created cross-connect entity from

- Non-Existent to IS
- Non-Existent to OOS-AU

Executing an ENT-ROLL-VT1 causes a state transition for the disconnected cross-connect entity from

- IS to Non-Existent
- OOS-AU to Non-Existent

While the roll operation is proceeding, a secondary state of ROLL will be present on the all the ports that are involved in the roll operation. The ROLL secondary state will be cleared on the completion of the roll. The RTO port that is involved in the roll will also carry ACT secondary state if it does not already carry one before the roll.

After the roll operation is completed, the secondary state of:

- the VT1.5 embedded within a ring OC-3/OC-12 is set to BUSY.
- the VT1.5 not embedded within a ring OC-3/OC-12 is set to ACT or BUSY (as applicable).

(Refer to Appendix G, State Transitions for additional information on state values and state transitions.)

ENT-ROLL-VT1 is denied if:

- Either of the specified FROM, TO, or RTO VT1.5 ports are not provisioned (using ENT-VT1.5).
- The cross-connection specified by FROM, TO, and CCT does not exist.
- The specified FROM and TO values are identical (the same VT1.5 port).
- The specified RTO port has all cross-connect capacity utilized in the direction of the roll (rolling to the transmit side of the RTO port which is already cross-connected and bridged).
- Either of the specified FROM, TO or RTO VT1.5 ports are part of a broadcast conference connection (a CTYPE of BCST from a RTRV-CRS command), are in a loopback (a VT1.5 SST of LPBK), are in a test access operation (a VT1.5 or cross-connection SST of TS), or have been terminated (using CHG-TL-DIG, a cross-connection SST of TERMB, TERMF, TERMT).
- The specified RTO port's supporting STS-1 is in a loopback (an STS-1 SST of LPBK).
- The specified FROM, TO, RFROM, or RTO is a VT1.5 and the supporting STS-1 is intact cross-connected (an STS-1 SST of ACT or BUSY).
- The specified FROM, TO, RFROM, RTO parameters address a VT1.5/T1 embedded within a protection OC-3/OC-12.
- A VT1.5 is being 1WAY rolled to a VT1.5 and the VT1.5 specified in TO, FROM, and/or RTO is embedded within a ring OC-3 or OC-12 (refer to ENT-RNG-OC3 or ENT-RNG-OC12).

- The specified FROM and TO ports are in a 2WAY pass through connection.
- The specified FROM or TO port is in a 2WAYPR connection.
- The specified FROM/TO ports are in a 2WAYDC connection.
- The specified FROM, TO, or RTO port is embedded within a ring OC-3/OC-12 and CCT=1WAY is entered.
- The specified RTO port is a DS1 embedded within a ring OC-3/OC-12.
- The specified RFROM and RTO ports are embedded within the same ring OC-3/OC-12.
- The specified FROM, TO, RFROM, or RTO port is redlined (in RDL=Y state).
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

ENT-ROLL-VT1: [TID]:FROM,TO:[CTAG]::RFROM,RMODE,RTO=[,CCT=];

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >
Default:	<SID>
Addressing:	None
Description:	Target Identifier, specifies the network node TID for the command.
FROM	VT1_AID: {EC1VT1-{1-3840}-{1-7}-{1-4}} (EC1VT1-EC1/STS1#-VTGrp#-VT1.5#) {OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}} (OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#) {OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}} (OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#) Default: Entry Required Addressing: None Description: VT1 AID. If CCT=one-way, FROM identifies the receive side (from the network) of the cross-connection to be rolled. If CCT=two-way then either AID of the cross-connection may be used as the FROM AID. Restrictions: ENT-ROLL-VT1 is denied if the FROM and TO values are equal. ENT-ROLL-VT1 is denied if the RFROM value is not the same as either the FROM or TO values. ENT-ROLL-VT1 is denied if the RFROM and FROM values are equal and RMODE=IMM and CCT=one-way is entered. ENT-ROLL-VT1 is denied if all FROM, TO, RFROM and RTO do not specify VT1.5s.
TO	VT1 AID: {EC1VT1-{1-3840}-{1-7}-{1-4}} (EC1VT1-EC1/STS1#-VTGrp#-VT1.5#) {OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}} (OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#) {OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}} (OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#) Default: Entry Required Addressing: None Description: VT1 AID. If CCT=one-way, TO identifies the transmit side (to the network) of the cross-connection to be rolled. If CCT=two-way then either AID of the cross-connection may be used as the TO AID. Restrictions: ENT-ROLL-VT1 is denied if the FROM and TO values are equal. ENT-ROLL-VT1 is denied if the RFROM value is not the same as either the FROM or TO values. ENT-ROLL-VT1 denied if all FROM, TO, RFROM and RTO do not specify VT1.5s.

CTAG	<p>< 1–6 VALID CTAG CHARACTERS ></p> <p>Default: < System assigned CTAG value ></p> <p>Addressing: None</p> <p>Description: Correlation Tag, associates input command with its output responses.</p>										
RFROM=	<p>VT1_AID:</p> <p>{EC1VT1–{1–3840}–{1–7}–{1–4}} (EC1VT1–EC1/STS1#–VTGrp#–VT1.5#)</p> <p>{OC3VT1–{1–2240}–{1–3}–{1–7}–{1–4}} (OC3VT1–OC3#–STS1#–VTGrp#–VT1.5#)</p> <p>{OC12VT1–{1–560}–{1–4}–{1–3}–{1–7}–{1–4}} (OC12VT1–OC12#–STM1#–STS1#–VTGrp#–VT1.5#)</p> <p>Default: Entry Required</p> <p>Addressing: None</p> <p>Description: Roll From, identifies the end of the cross–connection that remains fixed through the roll operation (RFROM is the VT1.5 port common to the existing connection specified by FROM,TO and the new connection after the roll operation).</p> <p>Restrictions: ENT–ROLL–VT1 is denied if the RFROM and RTO values are equal. ENT–ROLL–VT1 is denied if the RFROM value is not the same as either the FROM or TO values. ENT–ROLL–VT1 is denied if the RFROM and FROM values are equal and RMODE=IMM and CCT=one–way is entered.</p>										
RMODE=	<p>{IMM, AUTO, MAN, FMAN1, FMAN2}</p> <p>Default: Entry Required</p> <p>Addressing: None</p> <p>Description: Rolling Mode, specifies the mode of the rolling operation to be performed. Values are:</p> <table> <tr> <td>IMM</td><td>Immediate, the rolling operation is performed at command execution, regardless of the condition of the signals involved in the roll.</td></tr> <tr> <td>AUTO</td><td>Automatic mode. Old broadcast tail, if one present, is automatically dropped on detection of valid signal in the new path.</td></tr> <tr> <td>MAN</td><td>Manual mode. Old broadcast tail, if one present, is to be retained on detection of valid signal in the new path.</td></tr> <tr> <td>FMAN1</td><td>Fully manual mode part 1. Broadcast tail is set up and monitoring for valid signal begins. No action taken on detection of valid signal in the new path.</td></tr> <tr> <td>FMAN2</td><td>Fully manual mode part 2. Connection established from RTO to RFROM ports. This is done automatically regardless of the signal condition. The roll will even be performed if no signal is present in the new path.</td></tr> </table> <p>Restrictions: ENT–ROLL–VT1 is denied if RMODE=IMM and CCT=one–way is entered and the RFROM and FROM values are equal.</p>	IMM	Immediate, the rolling operation is performed at command execution, regardless of the condition of the signals involved in the roll.	AUTO	Automatic mode. Old broadcast tail, if one present, is automatically dropped on detection of valid signal in the new path.	MAN	Manual mode. Old broadcast tail, if one present, is to be retained on detection of valid signal in the new path.	FMAN1	Fully manual mode part 1. Broadcast tail is set up and monitoring for valid signal begins. No action taken on detection of valid signal in the new path.	FMAN2	Fully manual mode part 2. Connection established from RTO to RFROM ports. This is done automatically regardless of the signal condition. The roll will even be performed if no signal is present in the new path.
IMM	Immediate, the rolling operation is performed at command execution, regardless of the condition of the signals involved in the roll.										
AUTO	Automatic mode. Old broadcast tail, if one present, is automatically dropped on detection of valid signal in the new path.										
MAN	Manual mode. Old broadcast tail, if one present, is to be retained on detection of valid signal in the new path.										
FMAN1	Fully manual mode part 1. Broadcast tail is set up and monitoring for valid signal begins. No action taken on detection of valid signal in the new path.										
FMAN2	Fully manual mode part 2. Connection established from RTO to RFROM ports. This is done automatically regardless of the signal condition. The roll will even be performed if no signal is present in the new path.										

RTO=	DS1_AID:	
	{T1-{1-59392}}	(T1-DS1#)
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)
	{EC1T1-{1-3840}-{1-28}}	(EC1T1-EC1/STS1/DS3#-DS1#)
	VT1_AID:	
	{EC1VT1-{1-3840}-{1-7}-{1-4}}	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)
	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)
	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	
	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)	
	Default:	Entry Required
	Addressing:	None
	Description:	Roll To, identifies the end of the cross-connection that is new after the rolling operation is complete.
	Restrictions:	ENT-ROLL-VT1 is denied if the RFROM and RTO values are equal.
CCT=	{1WAY, 2WAY}	
	Default:	{1WAY if RMODE is IMM} {2WAY if RMODE is AUTO, MAN, FMAN1, or FMAN2}
	Addressing:	None
	Description:	Cross-Connect Type, identifies the cross-connect type to be rolled. A one-way connection of an existing two-way cross-connection may be specified. Values are:
	1WAY	One-Way cross-connection in the FROM to TO direction is to be rolled.
	2WAY	Two-Way cross-connection between FROM and TO is to be rolled.
	Restrictions:	ENT-ROLL-VT1 is denied if CCT=one-way and RMODE=IMM is entered and the RFROM and FROM values are equal.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent
IPNV	Input, Parameter Not Valid
SAIS	Status, Already In Service
SARB	Status, All Resources Busy
SCSN	Status, invalid Command Sequence
SDBE	Status, internal Data Base Error
	/* Failed to get OTHER supporting entity records */
	/* Failed to get RFROM supporting entity records */
	/* Failed to get RTO supporting entity records */
	/* <DATABASE TYPE> Database Error: <STATUS> for <AID STRING> */
	/* <DATABASE TYPE> Database Error: <STATUS> for record number <RECORD NUMBER> */
SDNC	Status, Data Not Consistent
SNVS	Status, Not in Valid State
SROF	Status, Requested Operation Failed
SRQN	Status, invalid ReQuest

EXAMPLES

In the following example, a one-way VT1.5 cross-connection is rolled from an existing connection from port EC1VT1-2-2-1 (FROM) to port EC1VT1-3-3-1 (TO) to a new connection from port EC1VT1-4-4-1 (RTO) to port EC1VT1-3-3-1 (RFROM). In this example, the existing cross-connection between EC1VT1-2-2-1 and EC1VT1-3-3-1 could be either a two-way or one-way cross-connection. (This roll operation is sometimes referred to as a one-way receive side roll.)

```
ENT-ROLL-VT1::EC1VT1-2-2-1,EC1VT1-3-3-1:::RFROM=EC1VT1-3-3-1,
RTO=EC1VT1-4-4-1,RMODE=AUTO;
```

In the following example, a two-way VT1.5 cross-connection is rolled from an existing two-way cross-connection between ports EC1VT1-5-5-2 (FROM) and EC1VT1-6-6-3 (TO) to a new two-way cross-connection between ports OC3VT1-7-3-7-4 (RTO) and EC1VT1-6-6-3 (RFROM). (This example illustrates a two-way roll when RFROM equals TO.)

```
ENT-ROLL-VT1::EC1VT1-5-5-2,EC1VT1-6-6-3:::RFROM=EC1VT1-6-6-3,
RTO=OC3VT1-7-3-7-4,CCT=2WAY,RMODE=FMAN1;
```

In the following example, a two-way VT1.5 cross-connection is rolled from an existing two-way cross-connection between ports EC1VT1-8-7-3 (FROM) and EC1VT1-9-3-4 (TO) to a new two-way cross-connection between ports EC1VT1-10-6-3 (RTO) and EC1VT1-8-7-3 (RFROM). (This example illustrates a two-way roll when RFROM equals FROM.)

```
ENT-ROLL-VT1::EC1VT1-8-7-3,EC1VT1-9-3-4:::RFROM=EC1VT1-8-7-3,
RTO=EC1VT1-10-6-3,CCT=2WAY,RMODE=AUTO;
```

RELATED COMMANDS

```
DLT-CRS-VT1
DLT-ROLL-VT1
ENT-CRS-VT1
ENT-VT1
RTRV-CRS
RTRV-CRS-VT1
RTRV-ROLL-VT1
RTRV-VT1
```


COMMAND CODE: **ENT-STS1**
COMMAND NAME: **ENTER STS-1**

PURPOSE

The ENT-STS1 command creates (assigns and provisions) an STS-1 path object entity (AID).

The default values for the PST parameter and keyword parameters can be modified with the SET-DFLT-STS1 command. The current default values can be retrieved with the RTRV-DFLT-STS1 command.

An STS-1 that has not been provisioned has a PST,SST of OOS-MA,UAS or OOS-AUMA,UAS&DSBLD (OOS-AUMA if the supporting EC1/OC-3/OC-12 is not provisioned). Executing an ENT-STS1 command causes the following primary state transitions for the specified STS-1. Secondary states associated with the STS-1 before and after the command is executed depend upon events detected by the system. Refer to Appendix G State Transitions, for additional information on state values and state transitions.

ENTERED PST VALUE	Next PST State if Present Default Database Value is:	
	OOS	IS
<NoVal>	OOS-MA	IS
IS	IS	IS
OOS	OOS-MA	OOS-MA
Note: 1. <NoVal> means no value is entered for that parameter.		

When an STS-1 is provisioned to an OOS-MA state, a MAN condition type is set for the specified STS-1. The MAN condition type is cleared when the STS-1 is provisioned to an IS state.

When an STS-1 is in an OOS-MA, OOS-AUMA state, no STS-1 transmission condition types or performance monitoring threshold crossing alerts are autonomously reported for the STS-1, but STS-1 alarm conditions are monitored (retrievable with the RTRV-STS1 command) and performance monitoring data is collected (if provisioned for PM collection by the SET-PMMODE-STS1 command) for the STS-1.

An ENT-STS1 command is denied if:

- The specified STS-1s supporting EC1, OC-3, or OC-12 have not been provisioned.
- The existing state for the addressed STS-1 is any PST,SST other than OOS-MA, UAS.
- STSPTYEL=Y is specified.
- An invalid parameter value or combination of parameter values is entered.
- TACC=Y, and PST=IS.
- TAPPOOL is set to a valid value but TACC=N.
- TAPP AID is set to the last STS1 value in the system, and AID+1 can not be provisioned as a FAD port.
- FADB is provisioned.

When an ENT-STS1 command is executed, the default values for the following items are automatically provisioned for the specified STS-1, and all PM data collection registers for the STS-1 are automatically reset to zero. These default values cannot be changed, except for PM attributes, unless the specified STS-1 has first been provisioned by an ENT-STS1 command.

- Condition type attributes (refer to Appendix C, Condition Types and SET-ATTR-STS1)
- Fault escalation parameters (refer to ED-FLTPRO-STS1)
- Performance monitoring (PM) attributes (refer to SET-PMATTR-ALL)
- PM mode (refer to SET-PMMODE-STS1)
- PM threshold levels (refer to SET-TH-STS1)
- PM reports (refer to ALW-PMREPT-STS1)

I/O protection switching is disabled if all three STS-1 ports on the supporting I/O circuit pack are in an OOS-MA or OOS-AUMA state. I/O protection switching only occurs if at least one of the STS-1s on the supporting I/O circuit pack is provisioned to an IS or an OOS-AU state.

In order to be compatible with the older UPSRs which do not switch on the excessive BERs (EBERs) on the VT1.5, the system may insert AIS-V in all VT1.5 paths (through, drop terminated and drop non-terminated) contained in a terminated STS-1 (embedded in a ring OC-3 or OC-12) that is detected as having EBER. Whether or not to insert AIS-V in all VTs is provisionable via AUTOVTRINGAIS parameter.

INPUT FORMAT

```
ENT-STS1 : [TID] : AID : [CTAG] : : [AUTOVTRINGAIS=] [ , EXPTRC=] [ , STSMAP=]
           [ , STSPTYEL=] [ , TACC=] [ , TAPPOOL=] [ , TRC=] [ , PDIINS=] : [PST] ;
```

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	STS1_AID: <div> <div>{EC1STS1-{1-3840}}</div> <div>(EC1STS1-EC1/STS1#)</div> </div> <div> <div>{OC3STS1-{1-2240}-{1-3}}</div> <div>(OC3STS1-OC3#-STS1#)</div> </div> <div> <div>{OC12STS1-{1-560}-{1-4}-{1-3}}</div> <div>(OC12STS1-OC12#-STM1#-STS1#)</div> </div> Default: Entry Required Addressing: &&-ranging and &-grouping Description: STS1 AID, identifies the STS-1 port or range of ports. Restrictions: ENT-STS1 is denied if the STS1 specified in the AID is embedded in an even OC-3 or OC-12 that is not part of a ring (provisioned via the ENT-RNG-OC3 or ENT-RNG-OC12 commands, respectively).
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
AUTOVTRINGAIS=	{3, 4, DISABLE} Default: { DISABLE } Addressing: None Description: Automatic transmit VT path AIS, specifies the level of EBER on the addressed STS-1 (that is terminated) which causes Automatic transmit VT path AIS to be sent. This parameter only applies to a terminated STS-1 that is embedded within a ring OC-3 or OC-12. If this parameter is specified on an STS-1 embedded within a ring OC-3 or OC-12, the STS-1 in the redundant ring OC-3 or OC-12 is modified to the specified values. Valid values are: <div> <div>3</div> <div>On reaching a 10-3 BER threshold, send AIS on all of its constituent VT1.5s.</div> </div> <div> <div>4</div> <div>On reaching a 10-4 BER threshold, send AIS on all of its constituent VT1.5s.</div> </div> <div> <div>DISABLE</div> <div>Path AIS on all of the VT1.5s within the addressed STS-1 is not to be sent on EBER on STS-1.</div> </div>

EXPTRC=	< 0–62 ASCII printable characters followed by CR and LF > Default: <Value retrieved with RTRV–DFLT–STS1 command> Addressing: None Description: Expected Path Trace message, specifies the expected path trace message. Value consists of 0–62 ASCII printable characters followed by a CR (carriage return) and LF (line feed). If less than 62 characters are entered, the EXPTRC message is filled with ASCII nulls followed by CR and LF. The EXPTRC value must be enclosed within double–quotes if a character other than an alphanumeric, underscore, plus, percent or pound is entered. If "" (i.e., no characters) is entered, the EXPTRC message is 62 ASCII nulls followed by a CR and LF.
STSMAP=	{ALL, ASYNC, VTFLOAT} Default: <Value retrieved with RTRV–DFLT–STS1 command> Addressing: None Description: STS payload Mapping. Determines the expected STS–1 payload type and the value of the expected path signal label (C2). Used for comparison for the Signal Label Mismatch function. Values are: ALL Match ALL incoming signal labels, without creating a SLMF condition, and disallow mappings (i.e., terminating) at this STS–1. Only intact STS–1 connections are possible since ALL is intended for intermediate path monitoring only. Incoming idle (unequipped) signal labels will continue to produce IDLE condition types. ASYNC Asynchronous mapping for DS3 (i.e., C2=04 hex). The system will accept only incoming signal labels of type ASYNC without creating a SLMF condition. Incoming idle (unequipped) signal labels will continue to produce IDLE condition types. VTFLOAT Floating mode VTs (i.e. C2=02 hex). Restrictions: If STSMAP=ASYNC, only ASYNC type mappings may be applied to the STS–1 (e.g., ENT–T3, ENT–CRS–T3, etc.). No visibility mappings can be made on an STS–1 (i.e., ENT–T3 is not possible even though STSMAP=ASYNC) if the STS–1 is provisioned on hardware that cannot directly support ASYNC mappings for intermediate path monitoring purposes (e.g. an ES1 card).
STSPTYEL=	{N} Default: <Value retrieved with RTRV–DFLT–STS1 command> Addressing: None Description: STS path yellow behavior. Identifies whether STS path yellow or RDI is sent/received. Values are: N No. RDI is sent/received on appropriate defect states.
TACC=	{N, Y} Default: <Previously Existing Value> Addressing: None Description: Test Access port AID, indicates that this STS1 port (specified by AID) and the AID+1 STS1 port are to be used as a Test Access Port Pairs (TAPP). The port specified by AID becomes FAD A and the port specified by AID+1 becomes FAD B. Values are: N No, the specified STS1 port is not a Test Access port. Y Yes, STS1 ports specified by AID and AID+1 are Test Access ports. Restrictions: If TACC=Y, the AID of an STS1 entity embedded in an OC12, OC3, or EC1, except the 3rd STS1 within an OC3 and the {4–3}th STS1 within an OC12. Refer to Appendix B, Access Identifiers (AIDs).

TAPPOOL=	{PRIVATE, PUBLIC, <NoVal>}	
	Default:	<NoVal> if TACC = N PRIVATE if TACC = Y
	Addressing:	None
	Description:	TAP port Pool, defines whether the TAP port that has been created (by means of TACC=Y) belongs to the pool that is private to the creator of the pool or belongs to a public pool. Values are:
	PRIVATE	The TAP pair that has been created belongs to the private pool of the user that issued the ENT–STS1 command. It can only be accessed by the user that owns the pool. If any other user tries to use this TAP pair (by means of CONN–TACC–STS1), the command shall be denied.
	PUBLIC	The TAP pair that has been created belongs to the public pool of the system. It can be accessed by any user with the privilege to use the Test Access commands.
	<NoVal>	No Value (unpopulated), TAPPOOL does not apply if TACC=N.
TRC=	< 0–62 ASCII printable characters followed by CR and LF >	
	Default:	<Value retrieved with RTRV–DFLT–STS1 command>
	Addressing:	None
	Description:	Path Trace message, specifies the path trace message transmitted when the STS–1 is provisioned. Value consists of 0–62 ASCII printable characters followed by a CR (carriage return) and LF (line feed). If less than 62 characters are entered, the TRC message is filled with ASCII nulls followed by CR and LF. The TRC value must be enclosed within double–quotes if a character other than an alphanumeric, underscore, plus, percent or pound is entered. If "" (i.e., no characters) is entered, the TRC message is 62 ASCII nulls followed by a CR and LF. For locally generated STS–1s (i.e., not cross–connected intact), the TRC value transmitted is the locally provisioned TRC value. For intact cross–connected STS–1s, the TRC value transmitted is the TRC value received at the other end of the cross connection.
PDIINS=	{N, Y}	
	Default:	<Value retrieved with RTRV–DFLT–STS1 command>
	Addressing:	None
	Description:	Payload Defect Indication Insertion (Transmit/outgoing direction only). Controls whether PDI values are inserted into the outgoing signal label (C2) bytes. If Fault Escalation is disabled on the STS–1 (FLTPRO=N via the ED–FLTPRO–STS1 command), PDI insertion is per GR–253. If Fault Escalation is enabled (FLTPRO=Y), PDI insertion is based on Alcatel's Fault Escalation type payload defects. Values are:
	N	No, PDI values are not inserted into the outgoing signal label when payload defects exist.
	Y	Yes, appropriate PDI is inserted into the outgoing signal label when payload defects exist.

PDIINS = in ENT-STS1 command	FLTPRO = in ED-FLTPRO-STS1	
	Y	N
Y	Fault escalation is based on selected incoming faults as defined in the Fault Propagation feature and PDI=FC (also called APDI) is inserted in the outgoing C2 byte.	Fault escalation is based on conditions defined in GR-253 and PDI is inserted in the outgoing C2 byte
N	Fault escalation is based on selected incoming faults as defined in the Fault Propagation feature and AIS-P is inserted in the outgoing STS1.	No fault escalation (None of the PDI, APDI or AIS-P is inserted)

PST {IS, OOS}
Default: <Value retrieved with RTRV-DFLT-STS1 command>
Addressing: None
Description: Primary State, specifies the primary state to provision the STS-1. Values are:
 IS In-Service
 OOS Out-Of-Service
Restrictions: ENT-STS1 is denied if the supporting EC1/OC-3/OC-12 is not provisioned.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  /* <Free Form Informational Text> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV Input, Data Not Valid
 IIAC Input, Invalid ACcess identifier
 IIFM Input, Invalid data ForMat
 /* TRC and/or EXPTRC text strings too long */
 SDBE Status, internal Data Base Error
 /* TP Database Error: <ERROR-STRING> for <AID-STRING> */
 /* DFLT Database Error: <ERROR-STRING> */
 /* Error updating supporting entity, Error=<ERROR-STRING> */
 /* Error enabling supported VT1s, Error=<ERROR-STRING> */
 /* STS1 Shelf info error, Error=<ERROR-STRING> */
 /* Error enabling supported T3, Error=<ERROR-STRING> */

SNVS	Status, Not in Valid State
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, STS-1 port OC3STS1-1-3 (an STS-1 embedded within an OC-3) is being provisioned with STSPTYEL to send RDI, with STSMAP of ASYNC and with the STS-1 in the IS state. All other parameter values shall be as retrievable from RTRV-DFLT-STS1.

```
ENT-STs1::OC3STS1-1-3::::STSPTYEL=N,STSMAP=ASYNC:IS;
```

RELATED COMMANDS

```
DLT-STs1  
ED-FLTPRO-STs1  
ED-STs1  
ENT-RNG-OC3  
ENT-RNG-OC12  
RMV-STs1  
RST-STs1  
RTRV-DFLT-STs1  
RTRV-FLTPRO-STs1  
RTRV-STs1  
SET-DFLT-STs1
```

COMMAND CODE: **ENT-STS3C**
COMMAND NAME: **ENTER STS-3C**

PURPOSE

The ENT-STS3C command creates (assigns and provisions) an STS-3C path object entity (AID).

The default values for the PST parameter and keyword parameters can be modified with the SET-DFLT-STS3C command. The current default values can be retrieved with the RTRV-DFLT-STS3C command.

An STS-3C that has not been provisioned has a PST,SST of OOS-MA,UAS, or OOS-AUMA,UAS&DSBLD (if supporting OC-3 is not provisioned), or OOS-AUMA,UAS&DSBLD (if one or more STS-3C has already been provisioned within the supporting OC-3 or OC-12). Executing an ENT-STS3C command causes the following primary state transitions for the specified STS-3C. Secondary states associated with the STS-3C before and after the command is executed depend upon events detected by the system. Refer to Appendix G State Transitions, for additional information on state values and state transitions.

Entered PST Value	Next PST State if Present Default Database Value is:	
	OOS	IS
<NoVal>	OOS-MA	IS
IS	IS	IS
OOS	OOS-MA	OOS-MA

Note: 1. <NoVal> means no value is entered for that parameter.

When an STS-3C is provisioned to an OOS-MA state, a MAN condition type is set for the specified STS-3C. The MAN condition type is cleared when the STS-3C is provisioned to an IS state.

When an STS-3C is in an OOS-MA state, no STS-3C transmission condition types or performance monitoring threshold crossing alerts are autonomously reported for the STS-3C, but STS-3C alarm conditions are monitored (retrievable with the RTRV-STS3C command) and performance monitoring data is collected (if provisioned for PM collection by the SET-PMODE-STS3C command) for the STS-3C.

An ENT-STS3C command is denied if:

- The specified STS-3C's supporting OC-3 or OC-12 has not been provisioned.
- The existing state for the addressed STS-3C is any PST,SST other than OOS-MA, UAS.
- The specified STS-3C is embedded within a protection OC-3 or OC-12.
- The specified STS-3C is embedded within a ring OC-3 or OC-12 (refer to ENT-RNG-OC3 or ENT-RNG-OC12).
- An invalid parameter value or combination of parameter values is entered.

When an ENT-STS3C command is executed, the default values for the following items are automatically provisioned for the specified STS-3C, and all PM data collection registers for the STS-3C are automatically reset to zero. These default values cannot be changed, except for PM attributes, unless the specified STS-3C has first been provisioned by an ENT-STS3C command.

- Condition type attributes (refer to Appendix C, Condition Types and SET-ATTR-STS3C)
- Performance monitoring (PM) attributes (refer to SET-PMATTR-ALL)
- PM mode (refer to SET-PMODE-STS3C)
- PM threshold levels (refer to SET-TH-STS3C)
- PM reports (refer to ALW-PMREPT-STS3C)

INPUT FORMAT

ENT-STS3C: [TID] :AID: [CTAG] : : [EXPTRC=] [, STSMAP=] [, TRC=] : [PST] ;

INPUT PARAMETERS

TID < 1-20 VALID TID CHARACTERS >
Default: <SID>
Addressing: None
Description: Target Identifier, specifies the network node TID for the command.

AID	STS3C_AID:	
	{OC3STS3C-{1-2240}}	(OC3STS3C-OC3#/STS3C#)
	{OC12STS3C-{1-560}-{1-4}}	(OC12STS3C-OC12#-STM1/STS3C#)
	Default:	Entry Required
	Addressing:	&&-ranging and &-grouping
	Description:	STS3C AID, identifies the STS-3C port or range of ports.
CTAG	< 1-6 VALID CTAG CHARACTERS >	
	Default:	< System assigned CTAG value >
	Addressing:	None
	Description:	Correlation Tag, associates input command with its output responses.
EXPTRC=	< 0-62 ASCII printable characters followed by CR and LF >	
	Default:	<Value retrieved with RTRV-DFLT-STS3C command>
	Addressing:	None
	Description:	Expected Path Trace message, specifies the expected path trace message. Value consists of 0-62 ASCII printable characters followed by a CR (carriage return) and LF (line feed). If less than 62 characters are entered, the EXPTRC message is filled with ASCII nulls followed by CR and LF. The EXPTRC value must be enclosed within double-quotes if a character other than an alphanumeric, underscore, plus, percent or pound is entered. If "" (i.e., no characters) is entered, the EXPTRC message is 62 ASCII nulls followed by a CR and LF.
STSMAP=	{ALL, ATM, DQDB, DS4NA, FDDI}	
	Default:	<Value retrieved with RTRV-DFLT-STS3C command>
	Addressing:	None
	Description:	STS payload Mapping. Determines the expected STS-3C payload type and the value of the expected path signal label (C2). Used for comparison for the Signal Label Mismatch function. Values are:
	ALL	Generic STS-3C format. Contains payload of any mapping format (C2≠00 hex). Since this value will match ALL signal label values, mismatch alarms are never generated.
	ATM	STS-3C contains ATM payload (provisioned (C2=13 hex)).
	DQDB	STS-3C contains DQDB payload (provisioned (C2=14 hex)).
	DS4NA	STS-3C contains DS4NA payload (provisioned (C2=12 hex)).
	FDDI	STS-3C contains FDDI payload (provisioned (C2=15 hex)).
TRC=	< 0-62 ASCII printable characters followed by CR and LF >	
	Default:	<Previously Existing Value>
	Addressing:	None
	Description:	Path Trace message. Specifies the path trace message to be transmitted when the STS-3c is provisioned. Value consists of 0-62 ASCII printable characters followed by a CR (carriage return) and LF (line feed). If less than 62 characters are entered, the TRC message is filled with ASCII nulls followed by CR and LF. The TRC value must be enclosed within double-quotes if a character other than an alphanumeric, underscore, plus, percent or pound is entered. If "" (i.e., no characters) is entered, the TRC message is 62 ASCII nulls followed by a CR and LF. For locally generated STS-3Cs (i.e., not cross connected intact), the TRC value transmitted is the locally provisioned TRC value. For intact cross connected STS-3Cs, the TRC value transmitted is the TRC value received at the other end of the cross connection.

PST	{IS, OOS}	
	Default:	<Value retrieved with RTRV-DFLT-STS3C command>
	Addressing:	None
	Description:	Primary State, specifies the primary state to provision the STS-3C. Values are:
	IS	In-Service
	OOS	Out-Of-Service. Out-of-service for management (OOS-MA) is assumed.
	Restrictions:	ENT-STS3C is denied if the supporting OC-3 is not provisioned.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  /* <Free Form Informational Text> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent
IDNV	Input, Data Not Valid
IIAC	Input, Invalid ACcess identifier
IIFM	Input, Invalid data ForMat
	/* TRC and/or EXPTRC text string is too long */
SDBE	Status, internal Data Base Error
	/* TP Database Error: <ERROR-STRING> for <AID-STRING> */
	/* DFLT Database Error, Error: <ERROR-STRING> */
	/* Error updating supporting entity, Error=<ERROR-STRING> */
	/*TPidToShlInfo(STS3C, <RECORD_NUMBER>): <ERROR-STRING>*/
SNVS	Status, Not in Valid State
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, STS-3C port OC3STS3C-3 (an STS-3C embedded within an OC-3) is being provisioned with STSMAP of FDDI and with the STS-3C in the IS state. All other parameter values shall be as retrievable from RTRV-DFLT-STS3C.

```
ENT-STS3C::OC3STS3C-3:::STSMAP=FDDI:IS;
```

RELATED COMMANDS

```

DLT-STS3C
ED-STS3C
ENT-RNG-OC3

```

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RMV-STS3C

RST-STS3C

RTRV-DFLT-STS3C

RTRV-STS3C

SET-DFLT-STS3C

COMMAND CODE: **ENT-T1**
COMMAND NAME: **ENTER T1**

PURPOSE

The ENT-T1 command creates (assigns and provisions) a DS1 object entity (AID). This command is also used to assign and provision an external timing reference source.

The default values for the PST parameter and keyword parameters, except the SRC and TACC parameters, can be modified with the SET-DFLT-T1 command. The current default values can be retrieved with the RTRV-DFLT-T1 command.

The system establishes cross-connects to an Idle signal when a DS1 is not cross-connected to another DS1. The Idle signal used is determined by the DS1's provisioning of the IDLE parameter value. If AIS is specified as the Idle signal for a DS1 port, the AIS Idle signal is generated internally by the port hardware. If QRS (Framed or Unframed) is specified as the Idle signal for a port, an Idle Signal Source port is used to generate the Idle signal. Any DS1 port, except a DS1 contained in a VT1.5, may be provisioned as a QRSF (ESF or SF format), or QRSU Idle Signal Source port. Only one DS1 in the system can be provisioned at a time as a QRSF (ESF or SF format) or QRSU Idle Signal Source port, but another port can be provisioned to replace one of these Idle Signal Source ports and the system automatically uses the replacement port as the specified Idles Signal Source. The format of an Idle Signal Source port must be specified as either SF or ESF if the Idle Signal Source port is to provide a QRSF Idle Signal. An Idle Signal Source port must be provisioned before any DS1 requiring its use is provisioned. An Idle Signal Source port provisioned as an Internal Source port (SRC of INTSRC) has both facility failure detection disabled (a facility failure condition cannot occur for an Internal Idle Signal Source port) and Performance Monitoring data collection disabled. An Idle Signal Source port cannot be the target AID for a cross-connect.

Up to 256 electrical DS1 or DS1 embedded in an electrical DS3 port pairs in the system may be provisioned as test access ports at a time, but only to an OOS-MA or OOS-AUMA state. When this is done, AID and AID+1 are both provisioned as a Test Access Port Pair (TAPP). A TAPP is always assigned as a sequential pair of ports (i.e., if port T3T1-3-5 is referenced in the command, then ports T3T1-3-5 and T3T1-3-6 are the TAPP). AID+1 inherits the provisioning of the DS1 specified by AID. If TAPPOOL is not specified or specified as PRIVATE, the TAPP is associated with, or owned by, the user that provisioned the TAPP. No other user is allowed to use the TAPP for test access operations. If TAPPOOL is specified as PUBLIC, then that TAPP can be used by any user that has access to test access commands. If the TAPPs are embedded DS1s within a DS3, both DS1s of the TAPP must reside within the same DS3 and the supporting DS3 must be provisioned (with the ENT-T3 command) before the TAPP is provisioned. TAPPs may not be the target AID for a cross-connect. When a TAPP is provisioned, the idle signal for both TAPPs defaults to QRSU.

A DS1 that has not been provisioned has a PST,SST of OOS-MA,UAS or OOS-AUMA,UAS&DSBLD (OOS-AUMA if the supporting DS3 is not provisioned). Executing an ENT-T1 command causes the following primary state transitions for the specified DS1. Secondary states associated with the DS1 before and after the command is executed depend upon events detected by the system. Refer to Appendix G State Transitions.

Entered PST,SST Value	Next PST State if Present Default Database Value is:		
	OOS	IS	IS, AINS
<NoVal>, <NoVal>	OOS-MA	IS	OOS-AU, AINS
IS, <NoVal>	IS	IS	OOS-AU, AINS
IS,AINS	OOS-AU, AINS	OOS-AU, AINS	OOS-AU, AINS
OOS,<NoVal>	OOS-MA	OOS-MA	Denied
OOS,AINS	Denied	Denied	Denied
<NoVal>,AINS	Denied	OOS-AU, AINS	OOS-AU, AINS
<NoVal>,AINS-DEA	Denied	Denied	IS

Entered PST,SST Value	Next PST State if Present Default Database Value is:		
	OOS	IS	IS, AINS
IS,AINS-DEA	Denied	Denied	IS
OOS,AINS-DEA	Denied	Denied	OOS-MA

Note: 1. <NoVal> means no value is entered for that parameter.

When a DS1 is provisioned to the OOS-MA state, a MAN condition type is set for the specified DS1, unless the specified DS1 is provisioned as a Test Access Port (a MAN condition is not set on TAPPs). The MAN condition type is cleared when the DS1 is provisioned to an IS state.

When a DS1 is in an OOS-MA, OOS-AUMA or OOS-AU, AINS state, no DS1 transmission condition types or performance monitoring threshold crossing alerts are autonomously reported for the DS1, but DS1 alarm conditions are monitored (retrievable with the RTRV-T1 command) and performance monitoring data is collected (if PM collection is not disabled by the SET-PMODE-T1 command) for the DS1.

An ENT-T1 command is denied if:

- The specified DS1 is an embedded DS1 and the supporting DS3/VT1.5 has not been provisioned.
- SYNCMSG=Y is specified on a TMG whose framing format (FMT) is not specified as ESF.
- The existing state for the addressed DS1 is any PST,SST other than OOS-MA, UAS.
- The supporting DS3 is provisioned with FMT=UNFR, FRCC, or UNCBIT.
- The specified DS1 is provisioned with IDLE of {QRSF, QRSU} and the specified idle signal source port is not provisioned.
- The specified DS1 is embedded in a VT1.5 and the DS1 is being provisioned as an Idle Signal Source port.
- The specified DS1 is being provisioned as a Test Access port and PST of IS is entered (a TAPP can only be provisioned to an OOS-MA or OOS-AUMA state), or either of the DS1s identified by AID or AID+1 are already provisioned, or AID or AID+1 are embedded DS1s but not within the same DS3 or AID or AID+1 are embedded DS1 within an STS1.
- TACC=Y or LINECDE is specified on a DS1 embedded within a VT-formatted electrical STS1 (EC1) or VT-formatted STS1 within an OC3/OC12 or the DS1 is the 28th DS1 embedded within an electrical DS3.
- TACC=Y is specified and the supporting entity is connected or has fault propagation.
- The specified DS1 is embedded within a DS3 TAP.
- The specified object is not a timing reference source (TMG) and a value TMGREF is specified.
- The command is issued identifying both the timing reference sources as either Primary or Secondary.
- The specified DS1 is embedded within a protection OC3/OC12.
- The specified DS1 is embedded within a DS3 or VT1.5 and the supporting DS3 or STS1 is intact cross-connected (i.e., the supporting entity has an SST of {ACT, BUSY}) and FEMETHOD of ATTPOLL is entered.
- The specified DS1 is embedded within a VT1.5 and ASYNC mapping is not supported by either the VT1.5 itself (i.e., the VT1.5's VTMAP is not ASYNC) or the VT1.5 resides on hardware that does not support VT1.5 ASYNC mapping for monitoring purposes (i.e., an ES1 card).
- The specified DS1 is embedded within a VT1.5 and FEMETHOD of {ATTPOLL} or FENDNTE of {ATT} is entered.
- A TAPP is being assigned and the total number of DS1 TAPPs is already 256.
- The specified DS1 is contained in an STS1 embedded in an OC3/OC12 ring and SRC=EXTSRC or INTSRC.
- An invalid parameter value or combination of parameter values is entered.

When an ENT-T1 command is executed, the default values for the following items are automatically provisioned for the specified DS1, and all PM data collection registers for the DS1 are automatically reset to zero. These default values cannot be changed, except for PM attributes, unless the specified DS1 has first been provisioned by an ENT-T1 command.

- Condition type attributes (refer to Appendix C, Condition Types and SET-ATTR-T1)
- Fault escalation parameters (refer to ED-FLTPRO-T1)

- Performance monitoring (PM) attributes (refer to SET-PMATTR-ALL)
- PM mode (refer to SET-PMMODE-T1)
- PM threshold levels (refer to SET-TH-T1)
- PM reports (refer to ALW-PMREPT-T1)

For DS1 ports supported by an EP3 circuit pack, I/O protection switching is disabled if all three DS3 ports supported by the EP3 I/O circuit pack are in an OOS-MA or OOS-AUMA state. I/O protection switching only occurs if at least one of the supporting DS3s on the supporting EP3 I/O circuit pack is provisioned to an IS or an OOS-AU state.

For DS1 ports supported by a DSI circuit pack, I/O protection switching is disabled if all the DS1 ports supported by the DSI I/O circuit pack are in an OOS-MA or OOS-AUMA state. I/O protection switching only occurs if at least one of the DS1s on the supporting I/O circuit pack is provisioned to an IS or an OOS-AU state.

INPUT FORMAT

```
ENT-T1: [TID] : AID: [CTAG] : : [AINSTH=] [, AISC=] [, AISF=] [, CIECRA=] [, FEMETHOD=]
[, FENDNTE=] [, FMT=] [, IDLE=] [, LINECDE=] [, SRC=] [, SXECRA=]
[, SYNCMSG=] [, TACC=] [, TAPPOOL=] [, TMGREF=] : [PST] [, SST] ;
```

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >
	Default: <SID>
	Addressing: None
	Description: Target Identifier, specifies the network node TID for the command.
AID	DS1_AID:
	{T1-{1-59392}} (T1-DS1#)
	{T3T1-{1-4800}-{1-28}} (T3T1-DS3#-DS1#)
	{EC1T1-{1-3840}-{1-28}} (EC1T1-EC1/STS1/DS3#-DS1#)
	{EC1T1-{1-3840}-{1-7}-{1-4}} (EC1T1-EC1/STS1#-VTGrp#-VT1/DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-28}} (OC3T1-OC3#-STS1/DS3#-DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-7}-{1-4}} (OC3T1-OC3#-STS1#-VTGrp#-VT1/DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}} (OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}} (OC12T1-OC12#-STM1#-STS1#-VTGrp#-VT1/DS1#)
	TMG_AID:
	{TMG-{0, 1}}
	Default: Entry Required
	Addressing: &&-ranging and &-grouping
	Description: DS1 AID, identifies the DS1 port and TMG AID identifies the external timing resource. This parameter is only considered when the AID specifies a Timing Reference port (i.e.; the AID is either a TMG-0 or TMG-1).
	Restrictions: ENT-T1 is denied if SRC={EXTSRC, INTSRC} and &&-ranging or &-grouping is used.
	ENT-T1 is denied if the specified object is not timing reference (TMG) and a value for TMGREF is specified.
	ENT-T1 is denied if FEMETHOD is a value other than {NONE} and AID={TMG-0, TMG-1}.
	ENT-T1 is denied if FEMETHOD is a value other than {ANSI, NONE} and AID identifies a VT1.5 embedded T1.
	ENT-T1 is denied if FENDNTE is a value other than {ANSI, ANSIATT, NONE} and AID identifies a VT1.5 embedded T1.
	ENT-T1 is denied if SRC is a value other than {NONE} and AID identifies a VT1.5 embedded T1.
	ENT-T1 is denied if TAPPOOL={PRIVATE, PUBLIC} and the AID specifies TMG-0 or TMG-1.

ENT-T1 is denied if a value is entered for CIECRA, SXCRA, IDLE, or LINECDE and the AID identifies a VT1.5 embedded T1.

CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
AINSTH=	{HH-MM:{00-48} – {00-59} } Default: System start-up value. Factory Default = 8 hours. Addressing: None Description: Automatic In-Service Threshold, specifies how long a customer signal must be present on the facility without a LOS, LOF, or AIS-L alarm condition before the system puts the facility into the In-Service state. The factory default is 8 hours. The valid value is: HH-MM Time, specifies the duration of an alarm-free signal where value HH indicates the time duration in hours and value MM indicates the time duration in minutes. The valid range of values is 00-48 and 00-59 (in increments of 1 minute), respectively. Restrictions: If 48 is specified in HH, then MM has to be 00. ENT-T1 is denied if a value is entered for AINSTH and the AID specifies TMG0 or TMG1. ED-T1 is denied if SST=AINS and the AID specifies TMG0 or TMG1.
AISC=	{LOF, LOFLOS, LOS} Default: <Value retrieved with RTRV-DFLT-T1 command> Addressing: None Description: Alarm Indication Signal insertion Criteria, specifies the condition necessary for insertion of AIS into a failed DS1 signal path. Any value for AISC can be entered if SRC=INTSRC. Values are: LOF Automatic AIS insertion on detection of LOF. LOFLOS Automatic AIS insertion on detection of LOF or LOS. LOS Automatic AIS insertion on detection of LOS. LOS only applies to a terminated electrical DS1.
AISF=	{N, Y} Default: <Value retrieved with RTRV-DFLT-T1 command> Addressing: None Description: Alarm Indication Signal Failure substitution, specifies whether a failed upstream signal (as defined by the AISC parameter) should have AIS inserted in the downstream path. Any value for AISF can be entered if SRC=INTSRC. Values are: N No, AIS is not inserted in the downstream path of a failed signal, the failed signal passes through the system. Y Yes, AIS is inserted in the downstream path of a failed signal. Restrictions: ENT-T1 is denied if a value is entered for AISF and the AID specifies TMG-0 or TMG-1.

CIECRA=	{A, B, Y, Z}
Default:	{A}
Addressing:	None
Description:	Customer Installation Equipment Circuit Record Address. Used to identify the customer installation equipment relative to an AT&T TR-54016 facility data link protocol. This is significant only if the far end performance monitoring data collection is being performed using the ATPOLL method. Values are:
	A or Z Used when requesting information from terminating equipment such as DSU/PBX/MUXs and NCTEs.
	B or Y Used when requesting information from CSUs.
Restrictions:	ENT-T1 is denied if a value is entered for CIECRA and the AID specifies TMG-0 or TMG-1. ENT-T1 is denied if a value is entered for CIECRA and the AID specifies a VT1.5 embedded T1.
FEMETHOD=	{ANSI, ATPOLL, NONE}
Default:	<Value retrieved with RTRV-DFLT-T1 command>
Addressing:	None
Description:	Far-End PM collection Method. (Note that FEMETHOD and FENDNTE determine the type of far end PM that is collected/supported using an ESF FDL channel.) Values are:
	ANSI Basic ANSI T1.403 PM data collection.
	ATPOLL Poll for PM data using AT&T 54016 protocol to poll the data and convert into ANSI format storage registers for reporting.
	NONE None. Far end PM is not collected on this DS1.
Restrictions:	ENT-T1 is denied if FEMETHOD=ANSI and either FENDNTE={NONE, ATT} or FMT={SF, UNFR}. ENT-T1 is denied if FEMETHOD=ATPOLL and either FENDNTE={ANSI, NONE} or FMT={SF, UNFR}. ENT-T1 is denied if FEMETHOD is a value other than {NONE} and AID={TMG-0, TMG-1}. ENT-T1 is denied if FEMETHOD is a value other than {ANSI, NONE} and the AID identifies a VT1.5 embedded T1.
FENDNTE=	{ANSI, ANSIATT, ATT, NONE}
Default:	<Value retrieved with RTRV-DFLT-T1 command>
Addressing:	None
Description:	Far-End NTE performance monitoring terminal type, specifies whether the far end network terminal supports standard ANSI performance monitoring (PM) collection and reporting or AT&T TR-54016 polled PM reporting for ESF DS1 signal formats. (Note that FENDNTE and FEMETHOD determine the type of far end PM that is collected/supported using an ESF FDL channel.) Any value for FENDNTE can be entered if SRC=INTSRC. Values are:
	ANSI ANSI, the far-end NTE supports the ANSI PM standard.
	ANSIATT ANSI and AT&T, the far-end NTE supports the ANSI PM standard and the AT&T TR-54016 polled PM reporting standard.
	ATT AT&T TR-54016, the far-end NTE supports the AT&T TR-54016 polled PM reporting standard. (Refer to RTRV-FEDATA-T1)
	NONE None, the far-end NTE does not support either the ANSI PM standard or the AT&T TR-54016 standard.
Restrictions:	ENT-T1 is denied if FENDNTE=NONE and FEMETHOD={ANSI, ATPOLL}. ENT-T1 is denied if FENDNTE=ANSI and FEMETHOD={ATPOLL}.

ENT-T1 is denied if FENDNTE=ATT and FEMETHOD={ANSI}.
ENT-T1 is denied if a value is entered for FENDNTE and the AID specifies TMG-0 or TMG-1.
ENT-T1 is denied if FENDNTE is a value other than {ANSI, ANSIATT, NONE} and the AID identifies a VT1.5 embedded T1.

FMT=	{ESF, SF, UNFR}	
	Default:	<Value retrieved with RTRV-DFLT-T1 command for DS1 AIDs or SF for TMG AIDs>
	Addressing:	None
	Description:	DS1 Format, specifies the DS1 signal format for this port. The DS1 FMT parameter determines the type of signal format used for performance monitoring data collection and transmission condition detection, or the format of the Idle Signal Source port if SRC=INTSRC. Values are:
	ESF	Extended SuperFrame
	SF	SuperFrame
	UNFR	Unframed
	Restrictions:	ENT-T1 is denied if FMT={SF, UNFR} and FEMETHOD={ANSI, ATT-POLL}. ENT-T1 is denied if FMT=UNFR and IDLE=QRSF. ENT-T1 is denied if the supporting DS3 is provisioned with FMT=UNFR, FRCC, or UNCBIT.
IDLE=	{AIS, QRSF, QRSU}	
	Default:	<Value retrieved with RTRV-DFLT-T1 command>
	Addressing:	None
	Description:	Idle signal transmit type, specifies the type of Idle signal to be transmitted by this port when it is disconnected, or determines the type of Idle signal of the Idle Signal Source port if SRC={EXTSRC, INTSRC}. Values are:
	AIS	AIS (Alarm Indication Signal)
	QRSF	Framed QRS (Quasi-Random Signal)
	QRSU	Unframed QRS (Quasi-Random Signal)
	Restrictions:	ENT-T1 is denied if IDLE=QRSF and FMT=UNFR. ENT-T1 is denied if IDLE=AIS and SRC={EXTSRC, INTSRC} (An AIS Idle Signal Source is available with each DS1 port) Only one Idle Signal Source port of each type is allowed in the system. The Idle Signal Source port must be provisioned before it can be specified to provide an Idle signal. ENT-T1 is denied if a value is entered for IDLE and the AID specifies TMG-0 or TMG-1. ENT-T1 is denied if a value is entered for IDLE and the AID specifies a VT1.5 embedded T1. ED-T1 is denied if the IDLE parameter is QRSU or QRSF and the T1 specified in the AID is within an OC3/OC12 ring.
LINECDE=	{AMI, B8ZS}	
	Default:	<Value retrieved with RTRV-DFLT-T1 command for DS1 AIDs or AMI for TMG AIDs>
	Addressing:	None
	Description:	DS1 Line Code, specifies the type of DS1 line code for a terminated electrical DS1. Values are:
	AMI	Alternate Mark Inversion
	B8ZS	Bipolar with Eight Zero Substitution
	Restrictions:	ENT-T1 is denied if a LINECDE value is entered and the specified DS1 is not a terminated electrical DS1.

ENT-T1 is denied if a value is entered for LINECDE and the AID specifies a VT1.5 embedded T1.

SRC=	{EXTSRC, INTSRC, NONE}	
	Default:	{NONE}
	Addressing:	None
	Description:	Idle Signal Source port, indicates whether this DS1 port is to be used as QRSF or QRSU Idle signal source. Values are:
	EXTSRC	External Idle signal Source, indicates external equipment is connected to the Signal Source port for generating an Idle signal.
	INTSRC	Internal Idle signal source, indicates the Signal Source port is to use internal generators to provide a QRS signal (as provisioned by the IDLE parameter value).
	NONE	None, indicates the specified DS1 port is not an Idle Signal Source port.
	Restrictions:	<p>ENT-T1 is denied if SRC={EXTSRC, INTSRC} and TACC=Y.</p> <p>ENT-T1 is denied if SRC={EXTSRC, INTSRC} and IDLE=AIS. (An AIS Idle Signal Source is available with each DS1 port).</p> <p>Only one DS1 port in the system may be provisioned as an Idle Signal Source port for each Idle type (i.e., per IDLE parameter value).</p> <p>ENT-T1 is denied if a value is entered for SRC and the AID specifies TMG-0 or TMG-1.</p> <p>ENT-T1 is denied if SRC is a value other than {NONE} and the AID identifies a VT1.5 embedded T1.</p>
SXCRA=	{C-X}	
	Default:	{C}
	Addressing:	None
	Description:	1631 SX Equipment Circuit Record Address. Used to identify the T1 port relative to an AT&T TR-54016 facility data link protocol. This is significant mainly when the far end performance monitoring data collection is being performed using the ATTPOLL method. Values are:
	C to X	Local T1 port address.
	Restrictions:	<p>ENT-T1 is denied if a value is entered for SXCRA and the AID specifies TMG-0 or TMG-1.</p> <p>ENT-T1 is denied if a value is entered for SXCRA and the AID specifies a VT1.5 embedded T1.</p>
SYNCMSG=	{N, Y}	
	Default:	{N}
	Addressing:	None
	Description:	Synchronization Message, indicates if the addressed timing reference clock supports synchronization status messages. Values are:
	N	No, the addressed reference clock does not support synchronization status messages.
	Y	Yes, the addressed reference clock supports status messages.
	Restrictions:	<p>ENT-T1 is denied if a value for SYNCMSG is entered and the AID does not specify TMG-0 or TMG-1.</p> <p>ENT-T1 is denied if SYNCMSG=Y for a TMG and the value of FMT is not ESF.</p>

TACC=	{N, Y}	
	Default:	{N}
	Addressing:	None
	Description:	Test Access port, indicates that this DS1 port (specified by AID) and the AID+1 DS1 port are to be used as a Test Access Port Pairs (TAPP). The port specified by AID becomes FAD A and the port specified by AID+1 becomes FAD B. Values are:
	N	No, the DS1 ports specified by AID and AID+1 are not a TAPP.
	Y	Yes, the DS1 ports specified by AID and AID+1 are a TAPP.
	Restrictions:	ENT-T1 is denied if TACC=Y and SRC={EXTSRC, INTSRC}. ENT-T1 is denied if TACC=Y and PST of IS is entered. ENT-T1 is denied if TACC=N and TAPPOOL={PRIVATE, PUBLIC}. ENT-T1 is denied if TACC=Y and either of the DS1 ports specified by AID or AID+1 are previously provisioned. ENT-T1 is denied if TACC=Y and the port specified by AID is an embedded DS1 port and AID+1 is not embedded within the same DS3. ENT-T1 is denied if a value is entered for TACC and the AID specifies TMG-0 or TMG-1.
TAPPOOL=	{PRIVATE, PUBLIC, <NoVal>}	
	Default:	<NoVal> if TACC=N. {PRIVATE} if TACC=Y.
	Addressing:	None
	Description:	TAP Pool, defines whether the TAP that has been created (by means of TACC=Y) belongs to the pool that is private to the creator of the pool or belongs to a public pool. Values are:
	PRIVATE	Private. The TAP pair that has been created is private to the user who created the TAP pair. If any other user tries to use this TAP pair (by means of CONN-TACC-T1), the command is denied.
	PUBLIC	Public. The TAP pair belongs to the Public pool of the system. It can be accessed by any user that has access to the test access commands.
	<NoVal>	No Value (Unpopulated), TAPPOOL does not apply if TACC=N.
	Restrictions:	ENT-T1 is denied if TAPPOOL={PRIVATE, PUBLIC} and TACC=N. ENT-T1 is denied if TAPPOOL={PRIVATE, PUBLIC} and the AID specifies TMG-0 or TMG-1.
TMGREF=	{PRI, SEC}	
	Default:	{PRI} if AID specifies TMG-0 or TMG-1 and no primary timing reference is currently provisioned. {SEC} if AID specifies TMG-0 or TMG-1 and a primary timing reference is currently provisioned.
	Addressing:	None
	Description:	Timing Reference, identifies whether the external reference source is primary or secondary. This parameter is only considered when the AID specifies a Timing Reference port (i.e.; the AID is either a TMG-0 or TMG-1). Values are:
	PRI	Primary. The addressed external reference source is to be used as a primary source.
	SEC	Secondary. The addressed external reference source is to be used as a secondary source.
	Restrictions:	ENT-T1 is denied if the AID is not a timing reference (TMG) and a value for TMGREF is specified.

PST	{IS, OOS}	
	Default:	<Value retrieved with RTRV-DFLT-T1 command if TACC=N and OOS-MA if TACC=Y>
	Addressing:	None
	Description:	Primary State, specifies the primary state to provision the DS1. Values are:
	IS	In-Service
SST	OOS	Out-Of-Service
	Restrictions:	ENT-T1 is denied if PST of IS and TACC=Y is entered. ENT-T1 is denied if PST of OOS and SST of AINS is entered.
	{AINS, AINS-DEA}	
	Default:	<Value retrieved with RTRV-DFLT-T1 command>
	Addressing:	None
	Description:	Secondary State, specifies the secondary state to provision the DS1. Values are:
	AINS	Automatic In-Service, if PST,SST of IS,AINS is entered the DS1 is provisioned to an OOS-AU,AINS state.
	AINS-DEA	Automatic In-Service-Deactivate, the DS1 is not provisioned to an OOS-AU,AINS state. The DS1's SST value is entered as <Null> (unpopulated) and the SST state is determined by its provisioned PST value and system detected events.
	Restrictions:	ENT-T1 is denied if SST of AINS and PST of OOS is entered. ENT-T1 is denied if SST of AINS-DEA is entered and the current SST database value is not set to AINS.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID [-VCNUM] >) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID [-VCNUM] >) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

EFON	Equipage, Feature Option Not provided
ENFE	Equipage, FEature Not provided
ENPM	Equipage, Not equipped for Performance Monitoring

IDNC	Input, Data Not Consistent /* CIECRA, SXCRA, and IDLE invalid for T1 within VT1 */ /* Invalid combination of TACC and TAPPOOL */ /* FEMETHOD or FENDNTE value invalid for T1 within VT1 */ /* Invalid combination for FMT and FEMETHOD */ /* Invalid combination for FMT and IDLE */ /* Invalid combination of SRC and IDLE */ /* Invalid combination of SRC and TACC */ /* Invalid combination of FENDNTE and FEMETHOD */ /* SYNCMSG parameter only for TMG port */ /* TMGREF parameter only for TMG port */
IDNV	Input, Data Not Valid /* FEMETHOD=ATTPOLL invalid inside an intact cross connection */ /* DRVDT1 and REFOC not in same IO shelf */
IIAC	Input, Invalid ACcess identifier
IPEX	Input, Parameter EXtra
IPMS	Input, Parameter MiSsing
IPNV	Input, Parameter Not Valid
SARB	Status, All Resources Busy /* The command was rejected. */
SDBE	Status, internal Data Base Error /* TP Database Error: <ERROR-STRING> for <AID-STRING> */ /* T1 card status error, Error=<ERROR-STRING> */ /* DFLT Database Error, Error: <ERROR-STRING> */ /* QRS Database Error, Error: <ERROR-STRING> */ /* T1 shelf info error, Error=<ERROR-STRING> */ /* T1 FAD B shelf info error, Error=<ERROR-STRING> */ /* Error updating supporting entity, Error=<ERROR-STRING> */ /* TAPP Database Error: <ERROR-STRING> for record number <RECORD-NUMBER> */ /* CONN Database Error: <ERROR-STRING> for <AID-STRING> */ /* Error updating FAD B's supporting entity, Error=<ERROR-STRING> */ /* Error getting bay/shelf, Error=<ERROR-STRING> */ /* TPidToTbss (<TP-TYPE>, <RECORD-NUMBER>) Error: <ERROR-STRING> */ /* DRVDT1/CDB card status error, Error=<ERROR-STRING> */
SDNC	Status, Data Not Consistent
SNVS	Status, Not in Valid State /* Port's card is not provisioned */ /* CDB is out of service */
SROF	Status, Requested Operation Failed /* Error accessing MCB database. */ /* Error accessing auxiliary EM data area for Master MCB. */
SRQN	Status, invalid ReQuest /* Cannot create FAD if supporting entity has fault propagation active */ /* Cannot create FAD if supporting entity is connected */ /* No signal source is provisioned for IDLE type */ /* Ranging invalid when provisioning a signal source */ /* Cannot create SRC port if supporting entity is connected */ /* Cannot create SRC port if supporting entity under MATRIX loopback */ /* Cannot create SRC port within a ring protection group */ /* T1 IDLE must be AIS within a ring protection group */
SSRE	Status, System Resources Exceeded /* No more TAPPs may be provisioned */

EXAMPLES

In the following example, DS1 port T3T1-1-25 is provisioned for ESF format, AIS insertion on LOF detection, and default values for all other parameters, to the OOS-MA state.

```
ENT-T1::T3T1-1-25:::FMT=ESF,AISC=LOF,AISF=Y:OOS;
```

In the following example, DS1 port T3T1-2-1 is provisioned as the internal unframed QRS Idle Signal Source port.

```
ENT-T1::T3T1-2-1:::FMT=UNFR,IDLE=QRSU,SRC=INTSRC,TACC=N:IS;
```

In the following example, DS1 ports T3T1-1-1 and T3T1-1-2 (both ports previously unprovisioned) are provisioned as Test Access Port Pairs (TAPPs) with port T3T1-1-1 becoming FAD A and port T3T1-1-2 becoming FAD B. Note that the TAPP are being provisioned into OOS-MA state.

```
ENT-T1::T3T1-1-1:::TACC=Y,FMT=SF,IDLE=QRSF,SRC=NONE:OOS;
```

In the following example, DS1 ports T3T1-24-1 through T3T1-24-2 are provisioned, using &&-ranging addressing, for SF format and default values for all other parameters, but port T3T1-24-2 had previously been provisioned.

```
ENT-T1::T3T1-24-1&&-2:::FMT=SF;
```

For this example, the output response shown assumes CID 1 was used to enter the command and a system generated CTAG value of Pfc518. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pfc518 PRTL
  "T3T1-24-2:ERRCDE=SNVS"
/* Status, Not in Valid State */
/* ENT-T1::T3T1-24-1&&-2:::FMT=SF [Pfc518] (1) */
;
```

In the following example, the first external timing source is provisioned with SF format, AMI line code and as Primary reference source.

```
ENT-T1::TMG-0:::FMT=SF,LINECDE=AMI,TMGREF=PRI;
```

RELATED COMMANDS

ALW-PMREPT-T1
DLT-T1
ED-CONF-T1
ED-FLTPRO-T1
ED-T1
ENT-RNG-OC3
ENT-RNG-OC12
ENT-T3
INH-PMREPT-T1
INIT-REG-T1
RMV-T1
RST-T1
RTRV-ATTR-T1
RTRV-DFLT-T1
RTRV-PMODE-T1
RTRV-SYSTMSG-T1
RTRV-T1
RTRV-TH-T1
RTRV-T1
SET-ATTR-T1
SET-DFLT-T1
SET-PMODE-T1
SET-TH-T1

COMMAND CODE: **ENT-T3**
COMMAND NAME: **ENTER T3**

PURPOSE

The ENT-T3 command creates (assigns and provisions) a DS3 object entity (AID).

The default values for the PST, SST, and keyword parameters, except LINECDE, can be modified with the SET-DFLT-T3 command. The current default values can be retrieved with the RTRV-DFLT-T3 command.

Up to 256 DS3 port pairs in the system may be provisioned as test access ports at a time, but only to an OOS-MA or OOS-AUMA state. When this is done, AID and AID+1 are both provisioned as a Test Access Port Pair (TAPP). A TAPP is always assigned as a sequential pair of ports (i.e., if port T3-3 is referenced in the command, then ports T3-3 and T3-4 are the TAPP). AID+1 inherits the provisioning of the DS3 specified by AID. If TAPPOOL is not specified or specified as PRIVATE, the TAPP is associated with, or owned by, the user that provisioned the TAPP. No other user is allowed to use the TAPP for test access operations. If TAPPOOL is specified as PUBLIC, then that TAPP can be used by any user that has access to test access commands. Only an electrical DS3 can be defined as a TAPP. TAPPs may not be the target AID for a cross-connect. Unconnected TAPPs generate a DS3 IDLE signal.

A DS3 that has not been provisioned has a PST,SST of OOS-MA,UAS or OOS-AUMA,UAS&DSBLD (OOS-AUMA if the supporting equipment or STS-1 is not provisioned). Executing an ENT-T3 command causes the following primary state transitions for the specified DS3. Secondary states associated with the DS3 before and after the command is executed depend upon events detected by the system. Refer to Appendix G, State Transitions for additional information on state values and state transitions.

Entered PST,SST Value	Next PST State if Present Default Database Value is:		
	OOS	IS	IS, AINS
<NoVal>, <NoVal>	OOS-MA	IS	OOS-AU, AINS
IS, <NoVal>	IS	IS	OOS-AU, AINS
IS,AINS	OOS-AU, AINS	OOS-AU, AINS	OOS-AU, AINS
OOS,<NoVal>	OOS-MA	OOS-MA	Denied
OOS,AINS	Denied	Denied	Denied
<NoVal>,AINS	Denied	OOS-AU, AINS	OOS-AU, AINS
<NoVal>,AINS-DEA	Denied	Denied	IS
IS,AINS-DEA	Denied	Denied	IS
OOS,AINS-DEA	Denied	Denied	OOS-MA
Note: 1. <NoVal> means no value is entered for the SST parameter.			

When a DS3 is provisioned to an OOS-MA state, a MAN condition type is set for the specified DS3, unless the specified DS3 is provisioned as a Test Access Port (a MAN condition is not set on TAPPs).

When a DS3 is in an OOS-MA or OOS-AU,AINS state, no DS3 transmission condition types or performance monitoring threshold crossing alerts are autonomously reported for the DS3, but DS3 alarm conditions are monitored (retrievable with the RTRV-T3 command) and performance monitoring data is collected (if PM collection is not disabled by the SET-PMMODE-T3 command) for the DS3. A DS3 in an OOS-AU,AINS transitions to an IS state when all DS3 near-end alarm conditions for that DS3 have cleared.

An ENT-T3 command is denied if:

- The supporting equipment (EP3) or STS-1 for the specified DS3 has not previously been provisioned (with the ENT-EQPT command).
- The supporting equipment (EP3) for the specified DS3 is provisioned to an SST of MT.
- The FMT is specified as CBIT on a DS3 that resides on a module that is in an half shelf that is defined as EP3S48.

- The specified DS3 is being provisioned as a Test Access port and PST of IS or PST, SST of OOS–AU, AINS is entered or AID+1 is not provisioned, or AID+1 is a FAD of another TAPP.
- The specified DS3 is not an electrical (stand-alone) DS3 and is being provisioned into OOS–AU,AINS state.
- AISPASS=N is specified on an embedded DS3.
- TACC=Y or LINECDE is specified on a DS3 embedded within electrical STS–1 (EC1), OC–3, or OC–12.
- TACC=Y is specified on an EP3 standard card.
- TACC=Y is specified on a DS3 which resides in a quad.
- A TAPP is being assigned and the total number of DS1 and DS3 TAPP defined is already 256.
- The specified DS3 is embedded within a protection OC–3/OC–12.
- The specified DS3 is embedded within an OC–3/OC–12 which resides in a protection group defined as O1BSH48 or O4MSH48, respectively.
- The specified DS3 lies within an STS–1 embedded within an EC1 which itself resides in a protection group defined as ES148.
- The specified DS3 is embedded within an STS–1 which has its STSMAP specified as ALL.
- The specified DS3 is embedded within an STS–1 and ASYNC mapping is not supported by either the STS–1 itself (i.e., the STS–1's STSMAP is not ASYNC) or the STS–1 resides on hardware that does not support ASYNC mapping for monitoring purposes (i.e., an ES1 card).
- The specified DS3 is already provisioned.
- An invalid parameter value or combination of parameter values is entered.

When an ENT–T3 command is executed, the default values for the following items are automatically provisioned for the specified DS3, and all PM data collection registers for the DS3 are automatically reset to zero. These default values cannot be changed, except for PM attributes, unless the specified DS3 has first been provisioned by an ENT–T3 command.

- Condition type attributes (refer to Appendix C, Condition Types and SET–ATTR–T3)
- Fault escalation parameters (refer to ED–FLTPRO–T3)
- Performance monitoring (PM) attributes (refer to SET–PMATTR–ALL)
- PM mode (refer to SET–PMMODE–T3)
- PM threshold levels (refer to SET–TH–T3)
- PM reports (refer to ALW–PMREPT–T3)

I/O protection switching is disabled if all three DS3 ports supported by the I/O circuit pack are in an OOS–MA or OOS–AUMA state. I/O protection switching only occurs if at least one of the supporting DS3s on the supporting I/O circuit pack is provisioned to an IS or an OOS–AU state.

INPUT FORMAT

```
ENT-T3 : [TID] : AID : [CTAG] : : : [AINSTH=] [, AISC=] [, AISPASS=] [, AIST=] [, DS3PTYEL=]
        [, FEAC=] [, FMT=] [, LINECDE=] [, PMMETHOD=] [, TACC=] [, TAPPOOL=] [, XBITRCV=]
        [, XPOL=] : [PST] , [SST] ;
```

INPUT PARAMETERS

TID	< 1–20 VALID TID CHARACTERS >		
	Default:	<SID>	
	Addressing:	None	
	Description:	Target Identifier, specifies the network node TID for the command.	
AID	DS3_AID:		
	{T3–{1–4800}}	(T3–DS3#)	
	{EC1T3–{1–3840}}	(EC1T3–EC1/STS1/DS3#)	
	{OC3T3–{1–2240}–{1–3}}	(OC3T3–OC3#–STS1/DS3#)	
	{OC12T3–{1–560}–{1–4}–{1–3}}	(OC12T3–OC12#–STM1#–STS1/DS3#)	
	Default:	Entry Required	
	Addressing:	&&–ranging and &–grouping	
	Description:	DS3 AID, identifies the DS3 port or a range of ports.	
	Restrictions:	ENT–T3 is denied if the specified AID identifies a DS3 embedded within an STS–1 and AISPASS of N is entered.	

CTAG	< 1–6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
AINSTH=	{HH–MM:{00–48} – {00–59} } Default: System startup value Factory Default = 8 hours Addressing: None Description: Automatic In–Service Threshold, specifies how long a customer signal must be present on the facility without a 7LOF, ISD, AICMISM, LOS, LOF, or AIS–L alarm condition before the system puts the facility into the In–Service state. The factory default is 8 hours. The valid value is: HH–MM Time, specifies the duration of an alarm–free signal where value HH indicates the time duration in hours and value MM indicates the time duration in minutes. The valid range of values is 00–48 and 00–59 (in increments of 1 minute), respectively. Restrictions: If 48 is specified in the HH, then MM has to be 00. ENT–T3 is denied if a value is entered for AINSTH and AID refers to a DS3 embedded in an OCn or EC1. ENT–T3 is denied if SST=AINS and the T3 is embedded in an OCn or an EC1.
AISC=	{LOFLOS, LOS} Default: < Value retrieved with RTRV–DFLT–T3 command > Addressing: None Description: Alarm Indication Signal insertion Criteria, specifies the condition at the input of a DS3 intact cross connect necessary for AIS insertion into the output of the DS3 intact cross connect. Values are: LOS Loss of Signal. Automatic AIS insertion upon detection of LOS. LOFLOS Loss of Frame–Loss of Signal. Automatic AIS insertion upon detection of LOFLOS.
AISPASS=	{N, Y} Default: < Value retrieved with RTRV–DFLT–T3 command > Addressing: None Description: Alarm Indication Signal Passed, specifies whether the AIS generated by the input port which is connected to the output port is passed through the output port, or whether AIS is generated by the output port itself. Values are: N AIS is regenerated by the output port instead of being passed through the output port. Y The AIS generated by the input port is passed through the output port. Restrictions: ENT–T3 is denied if AISPASS of N is entered and the specified AID identifies a DS3 embedded within an STS–1.
AIST=	{NAS, OAIS, ONES} Default: < Value retrieved with RTRV–DFLT–T3 command > Addressing: None Description: Alarm Indication Signal Type, specifies the expected input AIS signal and generated output AIS signal for the DS3 port should a failure condition exist. Values are: NAS North American Standard OAIS Old AIS, the same sequence of information bits as North American Standard but with no regard to how the C–bits are set. ONES Unframed All Ones (Nonstandard)

DS3PTYEL=	{N, Y}	
Default:	< Value retrieved with RTRV-DFLT-T3 command >	
Addressing:	None	
Description:	DS3 Yellow behavior, identifies whether DS3 path yellow or RDI (remote defect indication) is transmitted or detected. Values are:	
	N	RDI is sent/detected by the DS3.
	Y	DS3 path yellow is sent/detected by the DS3.
FEAC=	{N, Y}	
Default:	< Value retrieved with RTRV-DFLT-T3 command >	
Addressing:	None	
Description:	Far End Alarm and Control, specifies the far end alarm and control enable setting for C-bit parity format. Values are:	
	N	FEAC disabled
	Y	FEAC enabled
Restrictions:	ENT-T3 is denied if FEAC=Y and FMT=ASYNCR.	
FMT=	{ASYNCR, CBIT, FRCC, UNCBIT, UNFR}	
Default:	< Value retrieved with RTRV-DFLT-T3 command >	
Addressing:	None	
Description:	DS3 Format, specifies the DS3 signal format for this port. Values are:	
	ASYNCR	Asynchronous (M23 format)
	CBIT	C-Bit parity format
	FRCC	Framed Clear Channel.
	UNCBIT	Unchannelized C-Bit parity
	UNFR	Unframed format
Restrictions:	ENT-T3 is denied if FMT=ASYNCR and FEAC=Y. ENT-T3 is denied if FMT=ASYNCR and PMMETHOD=CP or NONE. ENT-T3 is denied if FMT=UNFR and PMMETHOD is any value other than NONE.	
LINECDE=	{B3ZS}	
Default:	{B3ZS}	
Addressing:	None	
Description:	DS3 Line Code, indicates the DS3 line coding type. Only B3ZS code is supported.	
	B3ZS	Bipolar with Three Zero Substitution
Restrictions:	ENT-T3 is denied if the LINECDE parameter is entered and the specified AID identifies a DS3 embedded within a SONET signal.	

PMMETHOD=	{CP, FM, FMA, NONE, P}
Default:	< Value retrieved with RTRV-DFLT-T3 command >
Addressing:	None
Description:	Performance Monitoring Method, specifies the type of performance monitoring to be performed on the DS3. Values are:
	If FMT=ASYN (M23 format):
	FM F&M bit monitoring
	FMA F&M bit adjusted monitoring
	P P-bit monitoring
	If FMT=CBIT (C-Bit parity format):
	CP Only CP-bit monitoring
	FM F&M bit and CP-bit monitoring
	FMA F&M bit adjusted and CP-bit monitoring
	P P-bit and CP-bit monitoring
	If FMT=FRCC (Framed Clear Channel):
	FM F&M bit monitoring
	FMA F&M bit adjusted monitoring
	P P-bit monitoring
	If FMT=UNCBIT (Unchannelized C-Bit parity format)
	CP Only CP-bit monitoring
	FM F&M bit and CP-bit monitoring
	FMA F&M bit adjusted and CP-bit monitoring
	P P-bit and CP-bit monitoring
	If FMT=UNFR (Unframed):
	NONE Null value specified for PMMETHOD
Restrictions:	ENT-T3 is denied if PMMETHOD=CP and FMT=ASYN, FRCC or UNFR. ENT-T3 is denied if PMMETHOD=NONE and FMT=ASYN, CBIT, FRCC, or UNCBIT.
TACC=	{N, Y}
Default:	{ N }
Addressing:	None
Description:	Test Access port, indicates that this DS3 port (specified by AID) and the AID+1 DS3 port are to be used as a Test Access Port Pairs (TAPP). The port specified by AID becomes FAD A and the port specified by AID+1 becomes FAD B. Values are:
	N No, the DS3 ports specified by AID and AID+1 are not a TAPP.
	Y Yes, the DS3 ports specified by AID and AID+1 are a TAPP.
Restrictions:	ENT-T3 is denied if TACC=Y and PST of IS is entered. ENT-T3 is denied if TACC=Y and AID+1 is already provisioned. ENT-T3 is denied TACC=Y and the port specified by AID is a DS3 embedded within EC1, OC-3, or OC-12. ENT-T3 is denied if TACC=Y and any of the DS1s embedded within the DS3 are already assigned. ENT-T3 is denied if TACC=Y and the specified AID resides in a quad. ENT-T3 is denied if TACC=N and TAPPOOL={PRIVATE, PUBLIC}.

TAPPOOL=	{PRIVATE, PUBLIC, <NoVal>}	
	Default:	<NoVal> if TACC=N. {PRIVATE} if TACC=Y.
	Addressing:	None
	Description:	TAP Pool, whether the TAP that has been created (by means of TACC=Y) belongs to the pool that is private to the creator of the pool or belongs to a public pool.
	PRIVATE	Private. The TAP pair that has been created is private to the user who created the TAP pair. If any other user tries to use this TAP pair (by means of CONN-TACC-T3), the command is denied.
	PUBLIC	Public. The TAP pair belongs to the Public pool of the system. It can be accessed by any user that has access to the test access commands.
	<NoVal>	No Value (Unpopulated), TAPPOOL does not apply if TACC=N.
	Restrictions:	ENT-T3 is denied if TAPPOOL={PRIVATE, PUBLIC} and TACC=N.
XBITRCV=	{ALM0, ALM1, IGNORE}	
	Default:	< Value retrieved with RTRV-DFLT-T3 command >
	Addressing:	None
	Description:	Receive X-Bit Translation, specifies how incoming DS3 and DS2 X-bits are translated. Values are:
	ALM0	Incoming X-bit of 0 indicates a remote alarm
	ALM1	Incoming X-bit of 1 indicates a remote alarm
	IGNORE	Ignore incoming X-bits
XPOL=	{0, 1, ALM0, ALM1}	
	Default:	< Value retrieved with RTRV-DFLT-T3 command >
	Addressing:	None
	Description:	Transmit X-bit Polarity, indicates the value to which outgoing DS3 and DS2 X-bits are set. Values are:
	0	Force outgoing X-bits to 0
	1	Force outgoing X-bits to 1
	ALM0	Set X-bits to 0 for indicating an alarm
	ALM1	Set X-bits to 1 for indicating an alarm
PST	{IS, OOS}	
	Default:	<Value retrieved with RTRV-DFLT-T3 command if TACC=N and OOS-MA if TACC=Y >
	Addressing:	None
	Description:	Primary State, specifies the primary state to provision the DS3. Values are:
	IS	In-Service, the DS3 is provisioned to an IS or OOS-AU state.
	OOS	Out-Of-Service, the DS3 is provisioned to an OOS-AUMA or OOS-MA state.
	Restrictions:	ENT-T3 is denied if PST of IS and TACC=Y is entered. ENT-T3 is denied if PST of OOS and SST of AINS is entered.

SST	{AINS, AINS-DEA}
Default:	< Value retrieved with RTRV-DFLT-T3 command >
Addressing:	None
Description:	Secondary State, specifies the secondary state to provision the DS3. Values are:
AINS	Automatic In-Service, if PST,SST of IS,AINS is entered the DS3 is provisioned to an OOS-AU,AINS state.
AINS-DEA	Automatic In-Service-Deactivate, the DS3 is not provisioned to an OOS-AU,AINS state. The DS3's SST value is entered as <Null> (unpopulated) and the SST state is determined by its provisioned PST value and system detected events.
Restrictions:	ENT-T3 is denied if SST of AINS and PST of OOS is entered. ENT-T3 is denied if SST of AINS-DEA is entered and the current SST database value is not set to AINS. ENT-T3 is denied if the specified DS3 is not an electrical (stand-alone) DS3 and is being provisioned into OOS-AU,AINS state.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent /* Invalid combination of TACC and TAPPOOL */ /* Invalid combination of FMT and PMMETHOD */ /* Invalid combination of FMT and FEAC */ /* AISC and AISPASS invalid on HMU module */ /* AISPASS=N invalid for an embedded T3 */ /* AINSTH invalid for an embedded T3 */
IDNV	Input, Data Not Valid /* FMT=UNCBIT, UNFR, or FRCC invalid on DS3 Quad */
IIAC	Input, Invalid ACcess identifier
IPEX	Input, Parameter EXtra

SDBE Status, internal Data Base Error
 /* TP Database Error: <ERROR-STRING> for <AID-STRING> */
 /* DFLT Database Error: <ERROR-STRING> */
 /* T3 Shelf info error, Error=<ERROR-STRING> */
 /* Error updating supporting entity, Error=<ERROR-STRING> */
 /* Error disabling corresponding EC1s, Error=<ERROR-STRING> */
 /* TAPP Database Error: <ERROR-STRING> for record number <RECORD-NUM-
 BER> */
 /*T3 AID conversion error, Error=<ERROR-STRING>*/
 /* Error updating FAD B's supporting entity, Error=<ERROR-STRING> */
 /* Error enabling supported T1s, Error=<ERROR-STRING> */
 /* Error enabling supported F3s, Error=<ERROR-STRING> */

SDNC Status, Data Not Consistent
 /*SST=AINS invalid for embedded T3*/

SNVS Status, Not in Valid State

SROF Status, Requested Operation Failed

SSRE Status, System Resources Exceeded

EXAMPLES

In the following example, DS3 port T3-24 is provisioned for C-bit format with FEAC enabled and CP-bit performance monitoring to the OOS-AU,AINS state and default values for all other parameters.

```
ENT-T3::T3-24:::PMMETHOD=CP,FEAC=Y,FMT=CBIT:IS,AINS;
```

In the following example, DS3 ports T3-1 and T3-2 (both ports previously unprovisioned), both are electrical DS3, are provisioned as Test Access Port Pairs (TAPPs) with port T3-1 becoming FAD A and port T3-2 becoming FAD B. The TAPPs are assigned to the public pool so that anyone who has access to test access commands can use this TAPP.

```
ENT-T3::T3-1:::FMT=ASYNC,TACC=Y,TAPPOOL=PUBLIC:OOS;
```

In the following example, DS3 ports T3-24 through T3-26 are provisioned, using &&-ranging, for Async M13 format, FEAC disabled, and P-bit and CP-bit performance monitoring to the OOS-MA state and default values for all other parameters.

```
ENT-T3::T3-24&&-26:::FMT=ASYNC,PMMETHOD=P,FEAC=N:OOS;
```

For this example, the output response shown assumes CID 1 was used to enter the command and a system generated CTAG value of Pfc518. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pfc518 COMPLD
/* ENT-T3::T3-24&&-26:::FMT=ASYNC,PMMETHOD=P,FEAC=N:OOS [Pfc518] (1)
*/
;
```

In the following example, DS3 port T3-27 is provisioned for Async M13 format, but FEAC is incorrectly specified as enabled, and default values for all other parameters.

```
ENT-T3::T3-27:::FEAC=Y,FMT=ASYNC;
```

For this example, the output response shown assumes CID 3, virtual channel 2, was used to enter the command and a system generated CTAG value of Pfc519. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pfc519 DENY
IDNC
/* Invalid combination of FMT and FEAC */
/* Input, Data Not Consistent */
/* ENT-T3::T3-27:::FEAC=Y,FMT=ASYNC [Pfc519] (3-2) */
;
```

RELATED COMMANDS

ALW-PMREPT-T3
DLT-T3
ED-FLTPRO-T3
ED-T3
ENT-EQPT
ENT-RNG-OC3
ENT-RNG-OC12
INH-PMREPT-T3
INIT-REG-T3
RMV-T3
RST-T3
RTRV-ATTR-T3
RTRV-DFLT-T3
RTRV-EQPT
RTRV-PMODE-T3
RTRV-T3
RTRV-TH-T3
SET-ATTR-T3
SET-DFLT-T3
SET-PMODE-T3
SET-TH-T3

COMMAND CODE: ENT-TARPADJ-DCC
COMMAND NAME: ENTER TARP ADJACENCY TABLE ENTRY OF DCC

PURPOSE

The ENT-TARPADJ-DCC command allows addition to the manually provisioned TID Address Resolution Protocol (TARP) adjacency table entries on the Data Communication Channel (DCC).

The TARP Protocol Data Units (PDUs) are carried by Layer 3 (network layer) of the SONET DCC network.

If a value entered for the NSAP does not exist in the manually entered adjacency table, but exists in the automatically created adjacency table, ENT-TARPADJ-DCC will complete successfully, entering the NSAP in the manual adjacency table and a condition of DUPTARPEENTRY (Duplicate TARP Entry) will be raised against the specified OC-3/OC-12.

An ENT-TARPADJ-DCC command is denied if:

- The specified OC-3/OC-12 is not provisioned, i.e., the OC-3/OC-12 is in an UAS secondary state.
- A value entered for the NSAP already exists in the manually entered adjacency table of the specified OC-3/OC-12 either at ISLEVEL=1 or ISLEVEL=2.
- The specified NSAP is less than 40 ASCII characters.
- An invalid parameter value is entered.

INPUT FORMAT

ENT-TARPADJ-DCC: [TID] :AID: [CTAG] : : [DCCTYPE=] [, ENABLE=] , ISLEVEL= , NSAP= ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	OC3_AID: {OC3-{1-2240}} (OC3-OC3#) OC12_AID: {OC12-{1-560}} (OC12-OC12#) Default: Entry Required Addressing: None Description: Optical Carrier AID, identifies the OC-3/OC-12 whose DCC adjacency table entries are being added.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
DCCTYPE=	{LDCC, SDCC} Default: {SDCC} Addressing: None Description: DCC Type, specifies which DCC type is entered into the adjacency table. Values are: LDCC Line DCC, specifies the LDCC type is entered into the adjacency table. SDCC Section DCC, specifies the SDCC type is entered into the adjacency table.

ENABLE=	{N, Y}	
	Default:	{Y}
	Addressing:	None
	Description:	Enable, determines if the TARP propagation to the NE specified by the NSAP parameter is enabled or disabled. Values are:
	N	No, specifies the TARP propagation to the NE in the NSAP parameter is disabled.
	Y	Yes, specifies the TARP propagation to the NE in the NSAP parameter is enabled.
ISLEVEL=	{1, 2, BOTH}	
	Default:	Entry Required
	Addressing:	None
	Description:	Intermediate System Level, determines the IS Level for which the TARP adjacency table is being added. Values are:
	1	NSAP is a level 1 adjacency.
	2	NSAP is a level 2 adjacency.
	BOTH	NSAP is both level 1 and level 2 adjacency.
NSAP=	<40 ASCII HEXADECIMAL VALUES>	
	Default:	Entry Required
	Addressing:	None
	Description:	Network Service Access Point, specifies the Network Service Access Point (NSAP) address. Values are 20 octets long encoded as 40 ASCII hexadecimals. The user enters the values in either upper or lower case (i.e. case insensitive).
	Restrictions:	ENT-TARPADJ-DCC is denied if the specified NSAP is less than 40 ASCII characters.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid
	/*NSAP already exists in DCC table*/
	/*TARPADJ DCC table is full*/
	/*NSAP already exists in <AID-STRING> LAN table*/
	/*TARPADJ DCC/LAN table is full*/
IIAC	Input, Invalid ACcess identifier

SDBE	Status, internal Data Base Error /*TP Database Error: <ERROR-STRING> for <AID-STRING>*/ /*TPidToTbss(): <ERROR-STRING>*/ /*ChkTarpDTbl(): <ERROR-STRING>*/ /*ChkTarpLTbl(): <ERROR-STRING>*/ /*NSAP already exists in <AID-STRING> LAN table*/ /*TARPADJ DCC/LAN table is full*/ /*Unable to lock TARPADJ DCC/LAN shelf table: <ERROR-STRING>*/ /*Unable to unlock TARPADJ DCC/LAN shelf table: <ERROR-STRING>*/ /*TPidToTarpD(): <ERROR-STRING>*/ /*TPidToGlobTPid(): <ERROR-STRING>*/ /*TARP_DCC Database Error: <ERROR-STRING> for record number <RECORD- NUMBER>*/
SNVS	Status, Not in Valid State
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, the TARP adjacency table entries of the network layer are provisioned.

```
ENT-TARPADJ-DCC: :OC3-2: : : :DCCTYPE=SDCC, ENABLE=Y, ISLEVEL=1,  
NSAP=39840F800000000000000000000000000000000000000000000000000000000000;
```

RELATED COMMANDS

```
DLT-TARPADJ-DCC  
ED-TARPADJ-DCC  
RTRV-TARPADJ-DCC
```


COMMAND CODE: **ENT-TARPADJ-LAN**
COMMAND NAME: **ENTER TARP ADJACENCY TABLE
ENTRY OF LAN**

PURPOSE

The ENT-TARPADJ-LAN command allows addition to the manually provisioned TID Address Resolution Protocol (TARP) adjacency table entries on the DSB.

The TARP Protocol Data Units (PDUs) are carried by Layer 3 (network layer) of the SONET Local Area Network (LAN).

If a value entered for the NSAP does not exist in the manually entered adjacency table, but exists in the automatically created adjacency table, ENT-TARPADJ-LAN will complete successfully, entering the NSAP in the manual adjacency table and a condition of DUPTARPEENTRY (Duplicate TARP Entry) will be raised against the specified DSB.

An ENT-TARPADJ-LAN command is denied if:

- The specified DSB is not provisioned, i.e., the DSB is in an UAS secondary state.
- A value entered for the NSAP already exists in the manually entered adjacency table of the specified DSB.
- The specified NSAP is less than 40 ASCII characters.
- An invalid parameter value is entered.

INPUT FORMAT

ENT-TARPADJ-LAN: [TID] :AID: [CTAG] : : [ENABLE=] , ISLEVEL= , NSAP= ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	EQUIPMENT_AID: {DSB-{6-9, 12-15, 18-21, 24-43, 104-111 , 112-135, 136-141 }-{1, 3}-{1-2}} Default: Entry Required Addressing: None Description: DSB AID, identifies the DSB whose adjacency table entries are being added.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
ENABLE=	{N, Y} Default: {Y} Addressing: None Description: Enable, determines if the TARP propagation to the NE specified by the NSAP parameter is enabled or disabled. Values are: N No, specifies the TARP propagation to the NE in the NSAP parameter is disabled. Y Yes, specifies the TARP propagation to the NE in the NSAP parameter is enabled.

ISLEVEL=	{1, 2, BOTH}	
	Default:	Entry Required
	Addressing:	None
	Description:	Intermediate System Level, determines the IS Level for which the TARP adjacency table is being added. Values are:
	1	NSAP is a level 1 adjacency.
	2	NSAP is a level 2 adjacency.
	BOTH	NSAP is both level 1 and level 2 adjacency.

NSAP=	<40 ASCII HEXADECEIMAL VALUES>	
	Default:	Entry Required
	Addressing:	None
	Description:	Network Service Access Point, specifies the Network Service Access Point (NSAP) address. Values are 20 octets long encoded as 40 ASCII hexadecimals. The user enters the values in either upper or lower case (i.e. case insensitive).
	Restrictions:	ENT-TARPADJ-LAN is denied if the specified NSAP is less than 40 ASCII characters.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent
	/* Unable to read aux buffer for <AID> */
IDNV	Input, Data Not Valid
	/* Error reading input for NSAP */
	/* NSAP address must be 40 characters long. */
	/* Invalid parameter in the input command */
	/* Error reading input for ISLEVEL */
	/* Unable to read the value of ISLEVEL */
	/* Invalid value for ISLEVEL */
	/* Error reading input for ENABLE */
	/* Requested NSAP already exists. */
	/* Requested NSAP already exists in the DCC table. */
IIAC	Input, Invalid ACcess identifier
	/* Invalid or unassigned equipment identifier specified. */
IPMS	Input, Parameter MiSsing
	/* Invalid parameter in the input command */

SARB	Status, All Resources Busy /* Command already in progress on equipment. */ /* Automatic system configuration active on equipment. */ /* Automatic configuration (database download) of parent processor in progress. */ /* Level 2 processor software download in progress. Try again later. */ /* INIT-SYS command still active on shelf that equipment is on. */
SDBE	Status, internal Data Base Error /* Data base access failure. */ /* Unable to read the LANDCC database. */ /* Unable to update the LANDCC database */
SROF	Status, Requested Operation Failed /* Unable to lock the tarpadj control table */ /* Unable to check the LAN tarpadj table. */ /* Unable to check the DCC tarpadj table. */ /* TARPADJ table is full, unable to add a new entry. */ /* Unable to add the NSAP to the TARP table. */

EXAMPLES

In the following example, the TARP propagation is enabled, IS level is set to 1, and the Network Service Access Point is set to 398406a0000000000000000000000000 for DSB-6-1-1.

```
ENT-TARPAJ-LAN::DSB-6-1-1:::ENABLE= Y,ISLEVEL= 1,NSAP= 398406a00000000000  
00000000000000000000;
```

```

M  <SID> <YY-MM-DD> <HH:MM:SS>
   P72009 COMPLD
   /* The ENT-TARPADJ-LAN for DSB-6-1-1 was completed. */
   /* ENT-TARPADJ-LAN::DSB-6-1-1:::ENABLE= Y,ISLEVEL= 1,NSAP= 398406a00
00000000000000000000000000000000 [P72009] (1) */

```

RELATED COMMANDS

DLT-TARPADJ-LAN
ED-TARPADJ-LAN
RTRV-TARPADJ-LAN

COMMAND CODE: **ENT-USER**
COMMAND NAME: **ENTER USER**

PURPOSE

The ENT-USER command is used to create a new user profile in the User Security Database.

A user profile consists of:

- the user identifier (UID),
- the user's password identification (PID),
- the user's command functional levels for executing commands and receiving command response messages (UCFCI – User Command Functional Category Input and UCFCO – User Command Functional Category Output),
- the user's command authorization level (UCAL),
- the user's output subscription level (OSL),
- the user's command entry operational mode (OMODE),
- the user's input/output device type (TYPE) and input/output display mode (DM),
- the user's RUSURE prompt setting (RUSURE) and buffered messages at login setting (DSKBFIND),
- any associated user name (UNAM) information,
- any associated user facility partition name (PARTNAM),
- timer values associated with the user for link activity (LNKTMR), keep-alive-messages (KAMINTVL), and multiple In Progress messages (MIPINTVL),
- the user's log-out-on-timeout setting (LOTO),
- any OS type (OSTYPE) for selecting default parameter values for OSL, TYPE, DSKBFIND, and LNKTMR.

A UID of "system", "SYSTEM", and "sysprint" (and the Alcatel account user) always exist in the system.

An ENT-USER command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

```
ENT-USER: [TID] : : [CTAG] : : PID,UID, [UCFCI] , [UCFCO] ,UCAL, [OMODE] , [OSL] , [UNAM] ,  
[RUSURE] , [DSKBFIND] , [TYPE] , [DM] , [PARTNAM] , [OSTYPE] , [LNKTMR] , [LOTO] ,  
[KAMINTVL] , [MIPINTVL] ;
```

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

PID	<p><6–12 VALID PID CHARACTERS></p> <p>Default: Entry Required</p> <p>Addressing: None</p> <p>Description: Password Identifier, specifies the user's login password. Valid values for PID are a string of 6 through 12 case-sensitive alphanumeric characters. The PID must contain at least 2 alphabetic characters and at least 1 numeric character. The following special characters are also accepted as valid characters and can be part of the PID: % (percent sign), + (plus sign), # (pound sign), and _ (under score). The first character of the PID can be an alphabetic, numeric, or a valid special character. (Note that the dash (–) character is also accepted by the system, but only characters prior to the dash become part of the PID. The dash (–) and characters after that are ignored by the system.)</p> <p>Restrictions: ENT–USER is denied if the specified password identifier (PID value) is the same as the specified user identifier (UID value), the reverse of the UID value, a circular shift of the UID value, or a circular shift of the reverse of the UID value.</p>
UID	<p><5–12 VALID UID CHARACTERS></p> <p>Default: Entry Required</p> <p>Addressing: None</p> <p>Description: User Identifier, specifies a unique user ID. Valid values for UID are 5 to 12, case-sensitive alphanumeric characters where the first character must always be an alphabetic character. The following special characters are also accepted as valid characters and will be part of the UID: % (percent sign), + (plus sign), # (pound sign), and _ (under score). (Note that the dash (–) character is also accepted by the system, but only characters prior to the dash become part of the UID. The dash (–) and characters after that are ignored by the system.)</p> <p>Restrictions: ENT–USER is denied if the specified UID already exists. ENT–USER is denied if UID of {system, SYSTEM, sysprint} is entered and a PARTNAM value is entered.</p>
UCFCI	<p><1–26 VALID (A–Z) UCFCI CHARACTERS></p> <p>Default: {Z} (if no PARTNAM value is specified) {Y} (if a PARTNAM value is specified)</p> <p>Addressing: None</p> <p>Description: User Command Functional Category, Input, specifies the command access input security CCFC group(s) for the user (defines the set of TL1 commands the user can execute). Each input security group contains one or more TL1 command. Up to 26 input security groups A–Z can be specified for the user. To execute a command, a user must belong to at least one input security group assigned to the TL1 command to be executed. UCFCI is specified as a string of up to 26 order-independent, non-case sensitive characters A–Z. If a character is entered more than once in the string the system accepts the string as if the character was only entered once. Refer to Appendix H, User Command Privilege Defaults (CCAL & CCFC), for the default security groups.</p>

UCFCO	<1–26 VALID (A–Z) UCFCO CHARACTERS>	Default: {Z} (if no PARTNAM is specified) {Y} (if PARTNAM is specified)	Addressing: None	Description: User Command Functional Category, Output, specifies the command access output security group(s) for the user (defines the TL1 command output responses a user receives because of commands executed by another user). UCFCO does not filter output responses for commands executed by the user, UCFCO only filters output responses for commands executed by another user. Each output security group contains one or more TL1 commands. Up to 26 output security groups A–Z can be specified for the user. To receive output responses from a command executed by another user, a user must belong to at least one output security group assigned to the TL1 command. If a user is assigned UCFCO of Z, the user receives output results from all TL1 commands executed by another user. UCFCO is specified as a string of up to 26 order-independent, non-case sensitive characters A–Z. If a character is entered more than once in the string the system accepts the string as if the character was only entered once. Refer to Appendix H, User Command Privilege Defaults (CCAL & CCFC), for the default security groups.
UCAL	{1–30}	Default: Entry Required	Addressing: None	Description: User Command Authorization Level, specifies the set of TL1 commands a user can execute based on the authorization level of the user and of the command. To execute a command, a user must have a UCAL greater than or equal to the CCAL (Command Community Authorization Level) security level assigned to the command. A user can be assigned a security level from 1 through 30. Level 31 is reserved for the system administrator. Level 32 is reserved for the Alcatel account.
OMODE	{C}	Default: {C}	Addressing: None	Description: Command Input Operational Mode, specifies the default command entry mode of operation for the user when the system initializes. The system always initializes to the Direct Command Input mode. A user can toggle between Direct Command Input mode and Command Input Menu mode by using the F7 function key on a VDT. C Direct Command Input mode.

OSL {<String of characters composed of B, C, D, E, H, I, M, m, O, P, R, S, W>, A, Z}
Default: <OSL Value Defined in the Table Below> (If no PARTNAM value is entered) or {O} (If a PARTNAM value is entered)

Default OSL Value			
OSTYPE	TYPE		
	VDT	PRN	TTY
OPSINE	B	B	B
NMA	CMmEDP	CMmEDP	CMmEDP
TSC	I	Invalid	I
ITS	Invalid	Invalid	I
OTHER	CMmED POS	CMmED POSWR	CMmED POS

Addressing: None

Description: Output Subscription Level, specifies the unsolicited autonomous output response messages a user receives. The OSL value is a case-sensitive, order-independent character string composed of any or all of the characters in the OSL value set of {B, C, D, E, H, I, M, m, O, P, R, S, W} (e.g., CMmEDPSOWR), A or Z. If all OSL filters are to be off (no unsolicited messages reported), OSL can be set to Z. If all OSL filters in the set {B, C, D, E, H, I, M, m, O, P, S, W} are to be on, OSL can be set to A. It is suggested that users not subscribe to receive the Alcatel autonomous informational messages (do not subscribe to {R, S}). Values are:

- A All Autonomous Responses, except R. The system sets the OSL to CMmEDPOSWIB.
- B Report Data(B)ase Change messages (via REPT^DBCHG).
- C Report setting/clearing of (C)ritical alarms (via REPT^ALM) for equipment alarms and facility alarms.
- D Report Con(D)ition messages. (Note. The REPT^COND autonomous message type is not currently implemented in the system.)
- E Report (E)vent messages (via REPT^EVT^EQPT, REPT^EVT^T1, or REPT^EVT^T3). The E option does not disable the warning message generated at user login (via REPT^EVT^SESSION).
- H Reserved for future use. This OSL value (currently) has no affect.
- I Report (I)ntialization messages (via REPT^INITZN).
- M Report setting/clearing of (M)ajor alarms (via REPT^ALM) for equipment alarms and facility alarms.
- m Report setting/clearing of (m)inor alarms (via REPT^ALM) for equipment alarms and facility alarms.
- O Provide Command ech(O) output response line for all responses. Refer to the Introduction for a description of other non-parsable text lines in successful, unsuccessful, and acknowledgement response messages controlled by the O option.
- P Report scheduled daily (P)erformance monitoring (PM) (via REPT^PM). (Note. The P filter does not affect PM threshold crossing alert messages. These are REPT^EVT messages.)

R	Report erro(R) messages (via REPT^HWSW). (These are Alcatel autonomous informational messages. The R option can only be added to a user's OSL, by the system administrator or an Alcatel account user.)
S	Report (S)tatus messages (via REPT^INFORMATION or REPT^STAT). (These are Alcatel autonomous informational messages.)
W	Report (W)orld responses from all TL1 commands executed by any other user. A user subscribing to the W option receives all autonomous responses and the output responses for commands executed by another user according to the user's UCFCO value.
Z	Zero. Turns off all of OSL filters (user will not receive unsolicited responses).
Restrictions:	<p>ENT-USER is denied if OSL of {Z} is entered and any other OSL values are entered.</p> <p>ENT-USER is denied if OSL of {A, C, D, E, I, M, m, P, R, S, W} (i.e., not {B, O, Z}) and OSTYPE of OPSINE is entered.</p> <p>ENT-USER is denied if OSL of {A, B, O} and OSTYPE of NMA is entered.</p> <p>ENT-USER is denied if OSL of {A, B, C, D, E, M, m, O, P, R, S, W} (i.e., not {I, Z}) and OSTYPE of TSC is entered.</p> <p>ENT-USER is denied if OSL of {R} is entered and the user executing the command does not have a UID of "system", "SYSTEM".</p> <p>ENT-USER is denied if OSL of {S} and OSTYPE of {TSC, NMA or OPSINE} is entered.</p>
UNAM	<p><1-18 VALID UNAM CHARACTERS></p> <p>Default: <Null (unpopulated) string></p> <p>Addressing: None</p> <p>Description: User Name, specifies additional identifying information pertaining to the user. UNAM can be the name of the party responsible for this account, a phone extension, a location, etc. It is not necessary for UNAM to be unique. Valid values for UNAM are a string of 1 through 18, case-sensitive alphanumeric characters where the first character must always be an alphabetic character. The following special characters are also accepted as valid characters and can be part of the UNAM: % (percent sign), + (plus sign), # (pound sign), and _ (under score).</p>
RUSURE	<p>{NO, YES}</p> <p>Default: {YES}</p> <p>Addressing: None</p> <p>Description: Are You Sure Prompt, specifies whether the user is to receive an additional RUSURE prompt for the RESTORE-DB and DLT-PARTITN commands. The RUSURE prompt allows the user to cancel the execution of the command before any changes in the system are made. (Note. An OS user or a user on a SNIDER CID port should be provisioned with RUSURE of NO). Values are:</p> <p>NO No, the user will not receive an RUSURE prompt.</p> <p>YES Yes, the user will receive an RUSURE prompt when the user enters a RESTORE-DB or DLT-PARTITN command.</p>

DSKBFIND	{ALWAYS, NEVER}	
	Default:	{ALWAYS} (if OSTYPE is OPSINE) {NEVER} (if OSTYPE is not OPSINE)
	Addressing:	None
	Description:	Disk Buffer Find Indicator, specifies whether a user receives all output messages the user is subscribed to receive (via the user's OSL and UCFCO values), that were generated while the user was logged off the system, when the user re-logs in to the system. If DSKBFIND is set to ALWAYS and the disk buffering storage capacity is exceeded, the oldest response messages are discarded and a warning message indicating messages have been discarded due to buffer wrap is generated when the user re-logs in. If DSKBFIND is set to ALWAYS, the user can "skip to the end" of the disk buffered messages by specifying SKIPTOEND of END in the ACT-USER command. Disk buffering of response messages are lost when the APS control system is initialized. Values are:
	ALWAYS	Always, when the user logs in, the user receives all output messages the user is subscribed to receive that were generated while the user was logged off the system.
	NEVER	Never, when the user logs in, the user does not receive disk buffered response messages. The user only receives current response messages.
TYPE	{PRN, TTY, VDT}	
	Default:	{VDT}
	Addressing:	None
	Description:	Terminal Type, specifies the terminal CPORT configuration for the user. Values are:
	PRN	Printer (output only) CPORT. (Note. The CPORT should be provisioned as an auto login port, i.e., AUTOIN of a UID value in the ENT-CID or ENT-CID-VC command.)
	TTY	Teletype Terminal, non-cursor addressable input/output terminal.
	VDT	Video Display Terminal, cursor addressable video display terminal.
	Restrictions:	ENT-USER is denied if TYPE of PRN and OSTYPE of TSC is entered. ENT-USER is denied if TYPE of PRN is entered and a PARTNAM value is entered. ENT-USER is denied if TYPE of TTY and DM of NA is entered. ENT-USER is denied if TYPE other than TTY is entered and DM of {ECHO, NOECHO} is entered.

DM	{ECHO, NA, NOECHO}	
	Default:	{ECHO} (if TYPE of TTY is entered) {NA} (If TYPE other than TTY is entered)
	Addressing:	None
	Description:	TTY Display Mode, specifies the display mode for a TTY terminal after a user is logged-in. Values are:
	ECHO	Character Echo, input characters are echoed.
PARTNAM	NA	Not Applicable, value used for DM when TYPE is not TTY.
	NOECHO	Character Not Echo, input characters are not echoed.
	Restrictions:	ENT-USER is denied if DM of NA and TYPE of TTY is entered. ENT-USER is denied if DM of {ECHO, NOECHO} is entered and TYPE other than TTY is entered.
	<string of 1–20 VALID PARTITION NAME CHARACTERS>	
	Default:	<Null (unpopulated) string>
	Addressing:	None
	Description:	Partition Name, specifies the name of a valid user partition (refer to ENT-PARTITN). Valid values for PARTNAM are a string of 1 through 20, non-case sensitive alphanumeric characters where the first character must always be an alphabetic character. The PARTNAM value is automatically converted to an upper-case string of characters. The following special characters are also accepted as valid characters and will be part of the PARTNAM: % (percent sign), + (plus sign), # (pound sign), and _ (under score). It is necessary for the PARTNAM to be unique. PARTNAM cannot be specified as a string of characters resulting in a keyword ALL. If no value is entered for PARTNAM, the system will automatically assign a null (unpopulated) string as the default.
	Restrictions:	ENT-USER is denied if PARTNAM of any combination of the upper or lower case word "ALL" is entered. ENT-USER is denied if the PARTNAM value entered does not exist (refer to ENT-PARTITN). ENT-USER is denied if a PARTNAM value is entered and TYPE of PRN is entered. ENT-USER is denied if a PARTNAM value is entered and UID of {system, SYSTEM, sysprint} is entered.
OSTYPE	{ITS, NMA, OPSINE, OTHER, TSC}	
	Default:	{OTHER}
	Addressing:	None
	Description:	Operations System Type, specifies the user's OS type. The value for OSTYPE determines the default values for OSL, TYPE, DSKBFIND, and LNKTMR. (Note: the value for OSTYPE for a specified UID cannot be changed after executing ENT-USER. To change the value of OSTYPE, the user must be deleted via DLT-USER and re-created via ENT-USER.) Values are:
	ITS	Integrated Test Systems. Allows the user to enter non-universal AIDs for commands while the system is in universal AID mode. Inputs that are not in the universal AID format will have the universal AID structures appended on the input and extracted on the output.
	NMA	Network Monitoring and Analysis OS.
	OPSINE	Operations System for Intelligent Network Elements OS.
	OTHER	Any OS type other than NMA, OPSINE, and TSC.
	TSC	Test Session Controller OS.
	Restrictions:	ENT-USER is denied if OSTYPE of {NMA, OPSINE, OTHER, TSC} and TYPE of {ALARM, AUDIT, CONDISC} is entered.

ENT-USER is denied if OSTYPE of TSC and TYPE of PRN is entered.
 ENT-USER is denied if OSTYPE of OPSINE and OSL of {A, C, D, E, I, M, m, P, R, S, W} (i.e., not {B, O, Z}) is entered.
 ENT-USER is denied if OSTYPE of TSC and OSL of {A, B, C, D, E, M, m, O, P, R, S, W} (i.e., not {I, Z}) is entered.
 ENT-USER is denied if OSTYPE of NMA and OSL of {A, B, O} is entered.
 ENT-USER is denied if OSTYPE of {TSC, NMA or OPSINE} and OSL of {S} is entered.
 ENT-USER is denied if OSTYPE of ITS and OSL other than {I} and TYPE other than {TTY} is entered.

LNKTMR	{0–3600}	
	Default:	{0} (if OSTYPE is not TSC) {75} (if OSTYPE is TSC)
	Addressing:	None
	Description:	CPORT Activity Link Timer, specifies the amount of time (in seconds) that the CPORT link is inactive before a link time-out occurs. LNKTMR is not triggered by a user login, but by CPORT link communication activity after the login occurs. The LOTO parameter determines whether the user is automatically logged out if a link time-out occurs. Values are:
	0	Disabled, no link time-out will occur.
	1–3600	Time in seconds, specifies the LNKTMR time interval. A link time-out occurs if the link is inactive for the time, in seconds, specified.
LOTO	{N, Y}	
	Default:	{N}
	Addressing:	None
	Description:	Logout On Link Timer Time-out, specifies whether the user is logged off when the CPORT activity link timer (LNKTMR) times out. Values are:
	N	No, the user is not logged off if the link timer expires.
	Y	Yes, the user is logged off if the link timer expires.
KAMINTVL	{0, 20–300}	
	Default:	{0}
	Addressing:	None
	Description:	Keep Alive Message Interval, specifies the amount of time (in seconds) that the user must be inactive before an autonomous Keep Alive Message (KAM) is sent to the user. The user is inactive if there is no TL1 input or output (command responses, acknowledgement responses, or autonomous responses) between the user and the system. When a user logs in, the user's KAM timer is started and increments until CPORT link activity occurs. The KAM timer is reset when link activity is detected. KAM timers are not incremented when the system is in Limited Command Entry mode. Values are:
	0	Disabled, a KAM timer is not active and the user does not automatically receive any KAM autonomous messages.
	20–300	Time in seconds, specifies the KAM time interval. A KAM message is generated if the user's CPORT link is inactive for the time, in seconds, specified.

MIPINTVL	{0, 20–3500}
Default:	{0}
Addressing:	None
Description:	Multiple In Progress Message Interval, specifies the amount of time (in seconds) before an additional In Progress (IP) messages is generated. Any additional IP messages occur after the initial two second IP message is generated. An additional IP message for the ACT–USER, CANC–USER, ED–PID, STOP–OPS, START–OPS, or INIT–SYS commands is not generated, regardless of the MIPINTVL value. MIPINTVL timers are deactivated when the system is in Limited Command Entry mode. Values are:
	0 Disabled, the user will not receive any additional IP messages after the initial two–second IP message.
	20–3500 Time in seconds, indicates that an additional IP message is generated every n seconds (n=20 to 3500) until the entered command completes execution.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
/* <PID>, <UID>, <UCFCI>, <UCFCO>, <UCAL> */
/* <OMODE>, [<OSL>], [<UNAM>], <RUSURE>, <DSKBFIND>, <TYPE>, <DM>, <OSTYPE>,
<LNKTMR>, <LOTO>, [<PARTNAM>], <KAMINTVL>, <MIPINTVL> */
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

Note. The command echo line only includes the command code in the output response of the ENT–USER command. The user's PID and following parameter values are not displayed in the command echo line.

OUTPUT PARAMETERS

PID	<6 TO 12 ASTERISK CHARACTERS> Password Identifier. Each character of the password is represented by an asterisk (*). The PID is not displayed in any successful response message.
UID	<5–12 VALID UID CHARACTERS> User Identifier, identifies the provisioned UID value.
UCFCI	<1–26 VALID UCFCI CHARACTERS> User Command Functional Category, Input, identifies the provisioned UCFCI value. (Also refer to the Introduction for a description of User Security and to Appendix H, User Command Privilege Defaults (CCAL & CCFC).)
UCFCO	<1–26 VALID UCFCI CHARACTERS> User Command Functional Category, Output, identifies the provisioned UCFCO value. (Also refer to the Introduction for a description of User Security and to Appendix H, User Command Privilege Defaults (CCAL & CCFC).)
UCAL	{1–30} User Command Authorization Level, identifies the provisioned UCAL value. (Also refer to the Introduction for a description of User Security and to Appendix H, User Command Privilege Defaults (CCAL & CCFC).)
OMODE	{C} Command Input Operational Mode, indicates the system initializes to the Direct Command Input mode.

OSL	<p>{<String of characters composed of {B, C, D, E, H, I, M, m, O, P, R, S, W}>, <NoVal>}</p> <p>Output Subscription Level, identifies the unsolicited output response messages a user receives. The OSL value reported is a case-sensitive, order-independent character string composed of any or all of the characters in the OSL value set of {B, C, D, E, H, I, M, m, O, P, R, S, W} (e.g., CMmEDPSOWR) or no value. If an OSL value of A was entered, the reported OSL value is BCDEHIMmOPSW. If an OSL value of Z was entered, no value is reported for OSL. Values are:</p> <table> <tr> <td>B</td><td>Report Data(B)ase Change messages (via REPT^DBCHG).</td></tr> <tr> <td>C</td><td>Report setting/clearing of (C)ritical alarms (via REPT^ALM) for equipment alarms and facility alarms.</td></tr> <tr> <td>D</td><td>Report Con(D)ition messages. (Note. The REPT^COND autonomous message type is not currently implemented in the system.)</td></tr> <tr> <td>E</td><td>Report (E)vent messages (via REPT^EVT^EQPT, REPT^EVT^T1, or REPT^EVT^T3). The E option does not disable the warning message generated at user login (via REPT^EVT^SESSION).</td></tr> <tr> <td>H</td><td>Reserved for future use. This OSL value (currently) has no affect.</td></tr> <tr> <td>I</td><td>Report (I)nitilization messages (via REPT^INITZN).</td></tr> <tr> <td>M</td><td>Report setting/clearing of (M)ajor alarms (via REPT^ALM) for equipment alarms and facility alarms.</td></tr> <tr> <td>m</td><td>Report setting/clearing of (m)inor alarms (via REPT^ALM) for equipment alarms and facility alarms.</td></tr> <tr> <td>O</td><td>Provide Command ech(O) output response line for all responses. Refer to the Introduction for a description of other non-parsable text lines in successful, unsuccessful, and acknowledgement response messages controlled by the O option.</td></tr> <tr> <td>P</td><td>Report scheduled daily (P)erformance monitoring (PM) (via REPT^PM). (Note. The P filter does not affect PM threshold crossing alert messages. These are REPT^EVT messages.)</td></tr> <tr> <td>R</td><td>Report erro(R) messages (via REPT^HWSW). (These are Alcatel autonomous informational messages.)</td></tr> <tr> <td>S</td><td>Report (S)Titus messages (via REPT^INFORMATION or REPT^STAT). (These are Alcatel autonomous informational messages.)</td></tr> <tr> <td>W</td><td>Report (W)roll responses from all TL1 commands executed by any other user. A user subscribing to the W option receives all autonomous responses and the output responses for commands executed by another user according to the user's UCFCO value.</td></tr> <tr> <td><NoVal></td><td>No value is reported if no OSL values were provisioned (all OSL filters are off and the user will not receive unsolicited messages).</td></tr> </table>	B	Report Data(B)ase Change messages (via REPT^DBCHG).	C	Report setting/clearing of (C)ritical alarms (via REPT^ALM) for equipment alarms and facility alarms.	D	Report Con(D)ition messages. (Note. The REPT^COND autonomous message type is not currently implemented in the system.)	E	Report (E)vent messages (via REPT^EVT^EQPT, REPT^EVT^T1, or REPT^EVT^T3). The E option does not disable the warning message generated at user login (via REPT^EVT^SESSION).	H	Reserved for future use. This OSL value (currently) has no affect.	I	Report (I)nitilization messages (via REPT^INITZN).	M	Report setting/clearing of (M)ajor alarms (via REPT^ALM) for equipment alarms and facility alarms.	m	Report setting/clearing of (m)inor alarms (via REPT^ALM) for equipment alarms and facility alarms.	O	Provide Command ech(O) output response line for all responses. Refer to the Introduction for a description of other non-parsable text lines in successful, unsuccessful, and acknowledgement response messages controlled by the O option.	P	Report scheduled daily (P)erformance monitoring (PM) (via REPT^PM). (Note. The P filter does not affect PM threshold crossing alert messages. These are REPT^EVT messages.)	R	Report erro(R) messages (via REPT^HWSW). (These are Alcatel autonomous informational messages.)	S	Report (S)Titus messages (via REPT^INFORMATION or REPT^STAT). (These are Alcatel autonomous informational messages.)	W	Report (W)roll responses from all TL1 commands executed by any other user. A user subscribing to the W option receives all autonomous responses and the output responses for commands executed by another user according to the user's UCFCO value.	<NoVal>	No value is reported if no OSL values were provisioned (all OSL filters are off and the user will not receive unsolicited messages).
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UNAM	<p>{1–18 VALID UNAM CHARACTERS, <NoVal>}</p> <p>User Name, identifies the provisioned UNAM value. Values are:</p> <table> <tr> <td><Provisioned UNAM value></td><td></td></tr> <tr> <td><NoVal></td><td>No value is reported if a UNAM value was not entered.</td></tr> </table>	<Provisioned UNAM value>		<NoVal>	No value is reported if a UNAM value was not entered.																								
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<NoVal>	No value is reported if a UNAM value was not entered.																												
RUSURE	<p>{NO, YES}</p> <p>Are You Sure Prompt, indicates whether the user is to receive an additional RUSURE prompt for the RESTORE–DB and DLT–PARTITN commands. The RUSURE prompt allows the user to cancel the execution of the command before any changes in the system are made. Values are:</p> <table> <tr> <td>NO</td><td>No, the user will not receive an RUSURE prompt.</td></tr> <tr> <td>YES</td><td>Yes, the user will receive an RUSURE prompt when the user enters a RESTORE–DB or DLT–PARTITN command.</td></tr> </table>	NO	No, the user will not receive an RUSURE prompt.	YES	Yes, the user will receive an RUSURE prompt when the user enters a RESTORE–DB or DLT–PARTITN command.																								
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YES	Yes, the user will receive an RUSURE prompt when the user enters a RESTORE–DB or DLT–PARTITN command.																												

DSKBFIND	{ALWAYS, NEVER} Disk Buffer Find Indicator, indicates whether a user receives all output messages the user is subscribed to receive (via the user's OSL and UCFCO values), that were generated while the user was logged off the system, when the user re-logs in to the system. Values are: <table> <tr> <td>ALWAYS</td><td>Always, when the user logs in, the user receives all output messages the user is subscribed to receive that were generated while the user was logged off the system.</td></tr> <tr> <td>NEVER</td><td>Never, when the user logs in, the user does not receive disk buffered response messages. The user only receives current response messages.</td></tr> </table>	ALWAYS	Always, when the user logs in, the user receives all output messages the user is subscribed to receive that were generated while the user was logged off the system.	NEVER	Never, when the user logs in, the user does not receive disk buffered response messages. The user only receives current response messages.						
ALWAYS	Always, when the user logs in, the user receives all output messages the user is subscribed to receive that were generated while the user was logged off the system.										
NEVER	Never, when the user logs in, the user does not receive disk buffered response messages. The user only receives current response messages.										
TYPE	{PRN, TTY, VDT} Terminal Type, indicates the terminal CPORT configuration for the user. Values are: <table> <tr> <td>PRN</td><td>Printer (output only) CPORT.</td></tr> <tr> <td>TTY</td><td>Teletype Terminal, non-cursor addressable input/output terminal.</td></tr> <tr> <td>VDT</td><td>Video Display Terminal, cursor addressable video display terminal.</td></tr> </table>	PRN	Printer (output only) CPORT.	TTY	Teletype Terminal, non-cursor addressable input/output terminal.	VDT	Video Display Terminal, cursor addressable video display terminal.				
PRN	Printer (output only) CPORT.										
TTY	Teletype Terminal, non-cursor addressable input/output terminal.										
VDT	Video Display Terminal, cursor addressable video display terminal.										
DM	{ECHO, NA, NOECHO} TTY Display Mode, indicates the display mode for a TTY terminal after a user is logged-in. Values are: <table> <tr> <td>ECHO</td><td>Character Echo, input characters are echoed.</td></tr> <tr> <td>NA</td><td>Not Applicable, value used for DM when TYPE is not TTY.</td></tr> <tr> <td>NOECHO</td><td>Character Not Echo, input characters are not echoed.</td></tr> </table>	ECHO	Character Echo, input characters are echoed.	NA	Not Applicable, value used for DM when TYPE is not TTY.	NOECHO	Character Not Echo, input characters are not echoed.				
ECHO	Character Echo, input characters are echoed.										
NA	Not Applicable, value used for DM when TYPE is not TTY.										
NOECHO	Character Not Echo, input characters are not echoed.										
OSTYPE	{ITS, NMA, OPSINE, OTHER, TSC} Operations System Type, identifies the provisioned OSTYPE value. Values are: <table> <tr> <td>ITS</td><td>Integrated Test Systems. Allows the user to enter non-universal AIDs for commands while the system is in universal AID mode. Inputs that are not in the universal AID format will have the universal AID structures appended on the input and extracted on the output.</td></tr> <tr> <td>NMA</td><td>Network Monitoring and Analysis OS.</td></tr> <tr> <td>OPSINE</td><td>Operations System for Intelligent Network Elements OS.</td></tr> <tr> <td>OTHER</td><td>Any OS type other than NMA, OPSINE, and TSC.</td></tr> <tr> <td>TSC</td><td>Test Session Controller OS.</td></tr> </table>	ITS	Integrated Test Systems. Allows the user to enter non-universal AIDs for commands while the system is in universal AID mode. Inputs that are not in the universal AID format will have the universal AID structures appended on the input and extracted on the output.	NMA	Network Monitoring and Analysis OS.	OPSINE	Operations System for Intelligent Network Elements OS.	OTHER	Any OS type other than NMA, OPSINE, and TSC.	TSC	Test Session Controller OS.
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NMA	Network Monitoring and Analysis OS.										
OPSINE	Operations System for Intelligent Network Elements OS.										
OTHER	Any OS type other than NMA, OPSINE, and TSC.										
TSC	Test Session Controller OS.										
LNKTMR	{0-3600} CPORT Activity Link Timer, identifies the amount of time (in seconds) that the CPORT link is inactive before a link time-out event occurs. LNKTMR is not triggered by a user login, but by CPORT link communication activity after the login occurs. The LOTO parameter determines whether the user is automatically logged out if a link time-out occurs. Values are: <table> <tr> <td>0</td><td>Disabled, no link time-out will occur.</td></tr> <tr> <td>1-3600</td><td>Time in seconds, indicates the LNKTMR time interval. A link time-out occurs if the link is inactive for the time, in seconds, indicated.</td></tr> </table>	0	Disabled, no link time-out will occur.	1-3600	Time in seconds, indicates the LNKTMR time interval. A link time-out occurs if the link is inactive for the time, in seconds, indicated.						
0	Disabled, no link time-out will occur.										
1-3600	Time in seconds, indicates the LNKTMR time interval. A link time-out occurs if the link is inactive for the time, in seconds, indicated.										
LOTO	{LOGOUT, NOLOGOUT} Logout On Link Timer Time-out, indicates whether the user is logged off when the CPORT activity link timer (LNKTMR) times out. <table> <tr> <td>LOGOUT</td><td>The user is logged off when the link timer expires.</td></tr> <tr> <td>NOLOGOUT</td><td>The user is not logged off when the link timer expires.</td></tr> </table>	LOGOUT	The user is logged off when the link timer expires.	NOLOGOUT	The user is not logged off when the link timer expires.						
LOGOUT	The user is logged off when the link timer expires.										
NOLOGOUT	The user is not logged off when the link timer expires.										
PARTNAM	{<1-20 VALID PARTITION NAME CHARACTERS>, <NoVal>} Partition Name, indicates the provisioned value for PARTNAM. <table> <tr> <td><Provisioned PARTNAM value></td><td></td></tr> <tr> <td><NoVal></td><td>No value is reported if a PARTNAM value was not entered.</td></tr> </table>	<Provisioned PARTNAM value>		<NoVal>	No value is reported if a PARTNAM value was not entered.						
<Provisioned PARTNAM value>											
<NoVal>	No value is reported if a PARTNAM value was not entered.										

KAMINTVL	{0, 20–300}	Keep Alive Message Interval, indicates the amount of time (in seconds) that the user must be inactive before a Keep Alive Message (KAM) is automatically sent to the user. The user is inactive if there is no TL1 input or output (command responses, acknowledgement responses, or autonomous responses) between the user and the system. When a user logs in, the user's KAM timer is started and increments until CPORT link activity occurs. The KAM timer is reset when link activity is detected. KAM timers are not incremented when the system is in Limited Command Entry mode. Values are:
	0	Disabled, a KAM timer is not active and the user does not automatically receive any KAM autonomous messages.
	20–300	Time in seconds, specifies the KAM time interval. A KAM message is generated if the user's CPORT link is inactive for the time, in seconds, specified.
MIPINTVL	{0, 20–3500}	Multiple In Progress Message Interval, indicates the amount of time (in seconds) before an additional In Progress (IP) messages is generated. Any additional IP messages occur after the initial two second IP message is generated. An additional IP message for the ACT–USER, CANC–USER, ED–PID, STOP–OPS, START–OPS, or INIT–SYS commands is not generated, regardless of the MIPINTVL value. MIPINTVL timers are deactivated when the system is in Limited Command Entry mode. Values are:
	0	Disabled, the user will not receive any additional IP messages after the initial two–second IP message.
	20–3500	Time in seconds, indicates that an additional IP message is generated every n seconds (n=20 to 3500) until the entered command completes execution.

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Optional Suggested Action Text> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non–Parser Error Codes used with this command are:

```

IDNC      Input, Data Not Consistent
          /* Non–Binary field(s) */
          /* Only ECHO or NOECHO are valid DM options for a TTY */
          /* Display mode for this type is not applicable */
          /* Cannot change Alcatel user type to printer */
          /* Cannot Change UCFCI of <uid> */
          /* Cannot change partition name */
          /* Cannot change system user type to printer */
          /* TYPE */
```

IDNV	Input, Data Not Valid /* UID length */ /* UID */ /* PSWD length */ /* PSWD */ /* UNAM length */ /* UNAM */ /* UNAM must begin with a letter */ /* UCFCI length */ /* UCFCI */ /* UCFCO length */ /* UCFCO */ /* OSL length */ /* OSL */ /* CAL */ /* PARTNAM length */ /* PARTNAM */ /* DM */ /* The User Security Database is full */ /* Invalid OSTYPE */ /* No Other OSL Options Allowed With Z */ /* Privilege: UNAUTHORIZED TO REQUEST THIS COMMAND */ /* %uid% cannot be a partitioned user */ /* Illegal Input: Requested User exists, use ED-PRVG-USER to change */ /* Only ECHO or NOECHO are valid DM options for a TTY */ /* Display mode for this type is not applicable */ /* Entry in UCFCI group not valid, # */ /* Entry in UCFCO group not valid, # */ /* Illegal Input: PARTNAM */ /* Unable to find requested partition name */ /* ALL cannot be used as partition name */
IIFM	Input, Invalid data ForMat /* Illegal Input: PARTNAM length */
IISP	Input, Invalid Syntax or Punctuation
IPEX	Input, Parameter EXtra /* Illegal Input : OSL */ /* No Other OSL Options Allowed With Z */
IPMS	Input, Parameter MiSsing
IPNV	Input, Parameter Not Valid /* Illegal Input: [UID length],[PSWD length],[UNAM length],[UCAL],[OMODE], [OSL length],[RUSURE],[DSKBFIND],[TYPE],[DM] */ /* Illegal Input: UNAM [Duplicate User information (UNAM field)] [Requested user exists, use ED-PRVG-USER to change] */ /* Display mode for this type is not applicable */ /* Unable to find requested user (UID) */
SDBE	Status, internal Data Base Error /* Unable to read USDB – status = <status number> */ /* Error accessing the PARTITION DB – status = <status number> */ /* Unable to update USDB – status = <status number> */
SROF	Status, Requested Operation Failed /* Unable to write to USDB – status = <status number> */

EXAMPLES

In the following example, ENT-USER is used to create a new user profile in the user security database with a UID of "new_user" and a user's UCAL of 15.

```
ENT-USER:::::user_pid,new_user,,15;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P08008. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed. was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M P08008 COMPLD  
/* *****,new_user,Z,Z,15 */  
/* C,CMmEDPOS,,YES,NEVER,VDT,NA,OTHER,0,NOLOGOUT,,0,0 */  
/* ENT-USER [P08008] (1) */  
;
```

In the following example, ENT-USER is used to create a partitioned user profile in the user security database with a UID of "Jsmith", UCFCI of AF, UCFCO of ABF, UCAL of 15, OSL of CMmEDP, and a partition name of "Partition_1".

```
ENT-USER:::::user2_pid,Jsmith,AF,ABF,15,,CMmEDP,,,,,Partition_1;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P08009. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed. was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M P08009 COMPLD  
/* *****,Jsmith,AF,ABF,25 */  
/* C,CMmEDP,,YES,NEVER,VDT,NA,OTHER,0,NOLOGOUT,PARTITION_1,0,0 */  
/* ENT-USER [P08009] (1) */  
;
```

RELATED COMMANDS

```
ACT-USER  
CANC-USER  
DLT-USER  
ED-CID  
ED-PID  
ED-PRVG-USER  
ENT-PARTITN  
RTRV-PRVG-USER
```

RELATED AUTONOMOUS RESPONSES

```
KEEP^ALIVE^MESSAGE
```

COMMAND CODE: **ENT-VT1**
COMMAND NAME: **ENTER VT1**

PURPOSE

The ENT-VT1 command creates (assigns and provisions) a VT1.5 path object entity (AID).

The default values for the PST parameter and keyword parameters can be modified with the SET-DFLT-VT1 command. The current default values can be retrieved with the RTRV-DFLT-VT1 command.

A VT1.5 that has not been provisioned has a PST,SST of OOS-AUMA,UAS&DSBLD (if the supporting STS-1 also is not provisioned) or OOS-MA, UAS (if the supporting STS-1 is provisioned). Executing an ENT-VT1 command causes the following primary state transitions for the specified VT1.5. Secondary states associated with the VT1.5 before and after the command is executed depend upon events detected by the system. Refer to Appendix G State Transitions, for additional information on state values and state transitions.

Entered PST Value	Next PST State if the Default Value for PST is (defined using ENT-DFLT-VT1) :	
	OOS	IS
<NoVal>	OOS-MA	IS
IS	IS	IS
OOS	OOS-MA	OOS-MA

Note: 1. <NoVal> means no value is entered for that parameter.

When a VT1.5 is edited to an OOS-MA or OOS-AUMA state, a MAN condition type is set for the specified VT1.5. The MAN condition type is cleared when the VT1.5 is provisioned to an IS state.

When a VT1.5 is in an OOS-MA, OOS-AUMA state, no VT1.5 transmission condition types or performance monitoring threshold crossing alerts are autonomously reported for the VT1.5, but VT1.5 alarm conditions are monitored (retrievable with the RTRV-VT1 command) and performance monitoring data is collected (if provisioned for PM collection by the SET-PMODE-VT1 command) for the VT1.5.

An ENT-VT1 command is denied if:

- The specified VT1.5s supporting STS-1 have not been provisioned.
- The specified VT1.5s supporting STS-1 are under matrix loopback.
- The STS-1 supporting the specified VT1.5 is cross-connected. (i.e., the STS-1 has an SST of ACT or BUSY).
- The specified VT1.5 is embedded within a protection OC-3 or OC-12.
- The specified VT1.5 is embedded within an STS-1 with STSMAP = ALL or ASYNC (i.e., VT1.5 can be provisioned only if STSMAP of the containing STS-1 is VTFLOAT).
- VTPTYEL=Y is specified.
- The specified VT1.5 is already provisioned.
- An invalid parameter value or combination of parameter values is entered.
- TACC=Y, and PST=IS.
- TAPPOOL is set to a valid value but TACC=N.
- TAPP AID is set to the last VT1.5 value in the system, and AID+1 can not be provisioned as a FAD port.
- FADB is provisioned.

When an ENT-VT1 command is executed, the default values for the following items are automatically provisioned for the specified VT1.5, and all PM data collection registers for the VT1.5 are automatically reset to zero. These default values cannot be changed, except for PM attributes, unless the specified VT1.5 has first been provisioned by an ENT-VT1 command.

- Condition type attributes (refer to Appendix C, Condition Types and SET-ATTR-VT1)
- Fault escalation parameters (refer to ED-FLTPRO-VT1)

- Performance monitoring (PM) attributes (refer to SET-PMATTR-ALL)
- PM mode (refer to SET-PMMODE-VT1)
- PM threshold levels (refer to SET-TH-VT1)
- PM reports (refer to ALW-PMREPT-VT1)

INPUT FORMAT

ENT-VT1 : [TID] : AID : [CTAG] : : : [TACC=] [, TAPPOOL=] [, VTMAP=] [, VTPTYEL=] : [PST] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	VT1_AID: {EC1VT1-{1-3840}-{1-7}-{1-4}} (EC1VT1-EC1/STS1#-VTGrp#-VT1.5#) {OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}} (OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#) {OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}} (OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: VT1 AID, identifies the VT1.5 port or range of ports.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
TACC=	{N, Y} Default: <Previously Existing Value> Addressing: None Description: Test Access port AID, indicates that this VT1 port (specified by AID) and the AID+1 VT1 port are to be used as a Test Access Port Pairs (TAPP). The port specified by AID becomes FAD A and the port specified by AID+1 becomes FAD B. Values are: N No, the specified VT1 port is not a Test Access port. Y Yes, VT1 ports specified by AID and AID+1 are Test Access ports. Restrictions: If TACC=Y, the AID of an STS1 entity embedded in an OC12, OC3, or EC1, except the 3rd STS1 within an OC3 and the {4-3}th STS1 within an OC12. Refer to Appendix B, Access Identifiers (AIDs).

TAPPOOL=	{PRIVATE, PUBLIC, <NoVal>}	
	Default:	<NoVal> if TACC = N PRIVATE if TACC = Y
	Addressing:	None
	Description:	TAP port Pool, defines whether the TAP port that has been created (by means of TACC=Y) belongs to the pool that is private to the creator of the pool or belongs to a public pool. Values are:
	PRIVATE	The TAP pair that has been created belongs to the private pool of the user that issued the ENT–STS1 command. It can only be accessed by the user that owns the pool. If any other user tries to use this TAP pair (by means of CONN–TACC–VT1), the command shall be denied.
VTMAP=	PUBLIC	The TAP pair that has been created belongs to the public pool of the system. It can be accessed by any user with the privilege to use the Test Access commands.
	<NoVal>	No Value (unpopulated), TAPPOOL does not apply if TACC=N.
	{ALL, ASYNC, VTBYTE}	
	Default:	<Value retrieved with RTRV–DFLT–VT1 command>
	Addressing:	None
	Description:	VT1.5 payload type. Determines the expected VT1.5 payload type and the value of the expected path signal label. Used for comparison for the Signal Label Mismatch function. Values are:
	ALL	ALL incoming signal labels are accepted by the system, without creating a SLMF condition. ALL is intended for intermediate path monitoring only, so no mappings (i.e., terminating) of the VT1 are allowed for ALL (only intact VT1 connections are possible). Incoming idle (unequipped) signal labels will continue to produce IDLE condition types.
	ASYNC	VT Asynchronous mapping – VTFLOAT mode. (L1–L3 = 010 bin). The system will accept only incoming signal labels of type ASYNC without creating a SLMF condition. Incoming idle (unequipped) signal labels will continue to produce IDLE condition types.
	VTBYTE	VT byte synchronous mapping, applicable for DS0s being mapped into VT SPE – VTFLOAT mode (L1–L3 = 100 hex). The system will accept only incoming signal labels of type VTBYTE without creating a SLMF condition. Incoming idle (unequipped) signal labels will continue to produce IDLE condition types.
	Restrictions:	If VTMAP=ASYNC, only ASYNC type mappings may be applied to the VT1 (e.g., ENT–T1, ENT–CRS–T1, etc.). The DS1 embedded within the VT1 can not be made (i.e., ENT–T1 is not possible even though VTMAP=ASYNC) if the VT1 being provisioned is on hardware (e.g. an ES1 card) that cannot directly support ASYNC mappings for intermediate path monitoring purposes. If VTMAP=VTBYTE, only intact VT1 connections are possible. Because VTBYTE type mappings are not supported by any of the current 1631 HW, no mappings can be made on that VT1.
VTPTYEL=	{N}	
	Default:	<Value retrieved with RTRV–DFLT–VT1 command>
	Addressing:	None
	Description:	VT1.5 path yellow behavior. Identifies whether VT path yellow or RDI will be sent/received. Values are:
	N	No. RDI will be sent/received on appropriate defect state.
	Restrictions:	ENT–VT1 is denied if VTPTYEL=Y.

PST	{IS, OOS}	
	Default:	<Value retrieved with RTRV-DFLT-VT1 command>
	Addressing:	None
	Description:	Primary State, specifies the primary state to provision the VT1.5. Values are:
	IS	In-Service
	OOS	Out-Of-Service

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  /* <Free Form Informational Text> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid
IIAC	Input, Invalid ACcess identifier
SDBE	Status, internal Data Base Error
	/* TP Database Error: <ERROR-STRING> for <AID-STRING> */
	/* DFLT Database Error: <ERROR-STRING> */
	/* Error updating supporting entity, Error=<ERROR-STRING> */
	/* VT1 Shelf info error, Error=<ERROR-STRING> */
	/* Error enabling supported T1, Error=<ERROR-STRING> */
SNVS	Status, Not in Valid State
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, VT1.5 port OC3VT1-16-1-3-4 (a VT1.5 embedded within an OC-3) is being provisioned with VTPTYEL to send RDI, with VTMAP of ASYNC and with the VT1.5 in the IS state. All other parameter values shall be as retrievable from RTRV-DFLT-VT1.

```
ENT-VT1::OC3VT1-16-1-3-4:::VTPTYEL=N,VTMAP=ASYNC:IS;
```

RELATED COMMANDS

```

DLT-VT1
ED-FLTPRO-VT1
ED-VT1
ENT-RNG-OC3
ENT-RNG-OC12
RMV-VT1
RST-VT1

```

RTRV-DFLT-VT1
RTRV-FLTPRO-VT1
RTRV-VT1
SET-DFLT-VT1

COMMAND CODE: **FLTLOC-PATH-STS1**
COMMAND NAME: **FAULT LOCATE PATH STS-1**

PURPOSE

The FLTLOC-PATH-STS1 command collects, analyzes, and displays fault isolation data pertaining to the redundant internal paths through the system for the cross-connection specified by the FROM and TO STS1 AIDs.

The redundant internal paths through the system that are reported are the paths from the specified FROM AID to the specified TO AID. FLTLOC-PATH-STS1 does not report on the paths through the system from the specified TO AID to the specified FROM AID for a two-way cross-connection.

To execute a FLTLOC-PATH-STS1 command, the specified FROM and TO STS1 ports must identify an STS1 one-way or two-way cross-connection (an STS1 SST of ACT or BUSY and cross-connected together).

The successful response to a FLTLOC-PATH-STS1 command contains several lines of non-parsable output data, with each line of output identifying an element of the copy 0 or copy 1 clock and data paths through the system, and any associated fault isolation data, pertaining to the indicated entity. In addition, zero, one, or more lines of error information may be included for each element of the clock and data paths, except for the FROM and TO STS1 port lines. Refer to the Successful Response Format, below.

A FLTLOC-PATH-STS1 command is denied if:

- The FROM and TO STS1 AIDs do not identify either a one-way or two-way cross-connection (an STS1 SST of ACT or BUSY and cross-connected together).
- The FROM and TO STS1 AIDs identify a maintenance loopback connection (an STS1 SST of UAS&MT&LPBK).
- The specified STS1 is embedded within a protection OC3/OC12.
- An invalid parameter value is entered.

INPUT FORMAT

FLTLOC-PATH-STS1 : [TID] : FROM, TO : [CTAG] : : [PATH] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
FROM	STS1_AID: {EC1STS1-{1-3840}} (EC1STS1-EC1/STS1#) {OC3STS1-{1-2240}-{1-3}} (OC3STS1-OC3#-STS1#) {OC12STS1-{1-560}-{1-4}-{1-3}} (OC12STS1-OC12#-STM1#-STS1#) Default: Entry Required Addressing: None Description: STS1 AID, specifies the STS1 port in a cross-connection or loopback that is the beginning of the internal system path to be analyzed.
TO	STS1_AID: {EC1STS1-{1-3840}} (EC1STS1-EC1/STS1#) {OC3STS1-{1-2240}-{1-3}} (OC3STS1-OC3#-STS1#) {OC12STS1-{1-560}-{1-4}-{1-3}} (OC12STS1-OC12#-STM1#-STS1#) Default: Entry Required Addressing: None Description: STS1 AID, specifies the STS1 port in a cross-connection or loopback that is the end of the internal system path to be analyzed.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

PATH	{0–28}	
	Default:	{ 0 }
	Addressing:	None
	Description:	Path, specifies which of the paths, that the intact STS1 is divided into, is analyzed. Values are:
	0	The path over which the overhead is being transmitted is analyzed.
	1 – 28	The path over which the 1–28 VT1.5 equivalent components are being transmitted is analyzed.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
/* From STS1: <FROM>,PATH=<value> */
/* <EQPT_AID>[:<DATA>] */
[/* <ERROR_INFO>[, <ERROR_INFO>] ... [, <ERROR_INFO>] */]
/* Copy 0: <EQPT_AID>[:<DATA>] */
[/* <ERROR_INFO>[, <ERROR_INFO>] ... [, <ERROR_INFO>] */]
/* Copy 1: <EQPT_AID>[:<DATA>] */
[/* <ERROR_INFO>[, <ERROR_INFO>] ... [, <ERROR_INFO>] */]
....
/* Copy 0: <EQPT_AID>[:<DATA>] */
[/* <ERROR_INFO>[, <ERROR_INFO>] ... [, <ERROR_INFO>] */]
/* Copy 1: <EQPT_AID>[:<DATA>] */
[/* <ERROR_INFO>[, <ERROR_INFO>] ... [, <ERROR_INFO>] */]
/* <EQPT_AID>[:<DATA>] */
[/* <ERROR_INFO>[, <ERROR_INFO>] ... [, <ERROR_INFO>] */]
/* To STS1: <TO>,PATH=<value>[:<DATA>] */
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

OUTPUT PARAMETERS

FROM	STS1_AID:	
	{EC1STS1–{1–3840}}	(EC1STS1–EC1/STS1#)
	{OC3STS1–{1–2240}–{1–3}}	(OC3STS1–OC3#–STS1#)
	{OC12STS1–{1–560}–{1–4}–{1–3}}	(OC12STS1–OC12#–STM1#–STS1#)
	STS1 AID, identifies the FROM port.	
PATH=	{0–28}	
	Path, identifies which of the paths, that the intact STS1 is divided into, is being reported. Values are:	
	0	The path over which the overhead is being transmitted is being reported.
	1–28	The path over which the 1–28 VT1.5 equivalent components are being transmitted is being reported.

EQPT_AID EQUIPMENT_AID:

 {CBL-{6-9, 12-15, 18-21, 24-43, 112-135}-{1, 3}-
 {XA150B-XA150H, XA150J, XA250B-XA250H, XA250J,
 J1000A-J1000H, J2000A-J2000H},
 CBL-{2, 3}-{1, 3}-
 {LX031B-LX031H, LX031J, UX031B-UX031H, UX031J,
 LX051B-LX051H, LX051J, UX051B-UX051H, UX051J,
 LX071B-LX071H, LX071J, UX071B-UX071H, UX071J,
 LX091B-LX091H, LX091J, UX091B-UX091H, UX091J,
 LX111B-LX111H, LX111J, UX111B-UX111H, UX111J,
 LX131B-LX131H, LX131J, UX131B-UX131H, UX131J,
 LX151B-LX151H, LX151J, UX151B-UX151H, UX151J,
 LX171B-LX171H, LX171J, UX171B-UX171H, UX171J},
 CBL-{4, 5, 10, 11, 16, 17, 22, 23}-{1,3}-
 {LX031B, LX031C, LX031H, UX031B, UX031C, UX031H,
 LX041A-LX041H, LX041J, UX041A-UX041H, UX041J,
 LX051C, LX051H, LX051J, UX051C, UX051H, UX051J,
 LX061B, LX061C, LX061H, UX061B, UX061C, UX061H,
 LX071A-LX071H, LX071J, UX071A-UX071H, UX071J,
 LX081C, LX081H, LX081J, UX081C, UX081H, UX081J,
 LX091D, LX091E, LX091F, UX091D, UX091E, UX091F,
 LX101A-LX101H, LX101J, UX101A-UX101H, UX101J,
 LX111E, LX111F, LX111G, UX111E, UX111F, UX111G,
 LX121D, LX121E, LX121F, UX121D, UX121E, UX121F,
 LX131A-LX131H, LX131J, UX131A-UX131H, UX131J,
 LX141E, LX141F, LX141G, UX141E, UX141F, UX141G},
 CBL-{4, 5, 10, 11, 16, 17, 22, 23}-1-
 {J1000A-J1000H, J1002A-J1002H, J1004A-J1004H, J1006A-J1006H,
 J2001A-J2001H, J2003A-J2003H, J2005A-J2005H,
 XA01B-XA01H, XA01J, XA03B-XA03H, XA03J,
 XA05B-XA05H, XA05J, XA07B-XA07H, XA07J,
 XA10B-XA10H, XA10J, XA12B-XA12H, XA012J,
 XA14B-XA14H, XA14J},
 CBL-{44-63}-{1-4}-{1J1RX, 1J1TX, 2J1RX, 2J1TX},
 CBL-{6-8, 12-14}-{1, 3}-
 {1J1RX, 1J1TX, 1J2RX, 1J2TX, 3J1RX, 3J1TX, 3J2RX, 3J2TX,
 5J1RX, 5J1TX, 5J2RX, 5J2TX, 7J1RX, 7J1TX, 7J2RX, 7J2TX,
 XA150B, XA151B, XA152B, XA153B, XA150D, XA151D, XA152D, XA153D,
 XA250B, XA251B, XA252B, XA253B, XA250D, XA251D, XA252D, XA253D}
 CBL-{9}-3-{1J1RX, 1J1TX, 1J2RX, 1J2TX, 3J1RX, 3J1TX, 3J2RX, 3J2TX,
 5J1RX, 5J1TX, 5J2RX, 5J2TX, 7J1RX, 7J1TX, 7J2RX, 7J2TX,
 XA150B, XA151B, XA152B, XA153B, XA150D, XA151D, XA152D, XA153D,
 XA250B, XA251B, XA252B, XA253B, XA250D, XA251D, XA252D, XA253D},
 CBL-{15}-1-{1J1RX, 1J1TX, 1J2RX, 1J2TX, 3J1RX, 3J1TX, 3J2RX, 3J2TX,
 5J1RX, 5J1TX, 5J2RX, 5J2TX, 7J1RX, 7J1TX, 7J2RX, 7J2TX,
 XA150B, XA151B, XA152B, XA153B, XA150D, XA151D, XA152D, XA153D,
 XA250B, XA251B, XA252B, XA253B, XA250D, XA251D, XA252D, XA253D}
 {CDA-{4, 5, 10, 11, 16, 17, 22, 23, 102, 103}-3-1}
 {CDB-{5}-{1, 3}-{1, 2}}
 CDB-{2-43,104-111,112-135,136-141}-{1, 3}-{1, 2}
 {SI36: CDB-{6-9, 12-15, 18-21, 24-43}-{1, 3}-{1-2},
 {SI48: CDB-{2-43,104-111,112-135,136-141}-{1, 3}-{1, 2}
 {SI48: EOB-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{1-2},
 EOC: EOB-{4-5, 10-11, 16-17, 22-23, 102, 103}-1-{1-7, 9-15}}
 {SI48: EP3-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42,

104–106,108–110, 136–141}–{1, 3}–{1–18},
 EP3–{9, 21, 35, 43, 107}–3–{1–18},
 EP3–{15, 27, 31, 39, 111}–1–{1–18}}
 {SI36: EP3–{6–8, 12–14}–{1, 3}–{1–14},
 EP3–9–3–{1–14},
 EP3–15–1–{1–14}}
 {SI48: ES1–{6–8, 12–14, 18–20, 24–26, 28–30, 32–34, 36–38, 40–42,
 104–106,108–110,136–141}–{1, 3}–{1–18},
 ES1–{9, 21, 35, 43,107}–3–{1–18},
 ES1–{15, 27, 31, 39,111}–1–{1–18}}
 {SI36: ES1–{6–8, 12–14}–{1, 3}–{1–14},
 ES1–9–3–{1–14},
 ES1–15–1–{1–14}}
 {IOB–{6–8, 12–14}–{1, 3}–{1, 3, 5, 7},
 IOB–9–3–{1, 3, 5, 7},
 IOB–15–1–{1, 3, 5, 7}}
 {IPB–{6–9, 12–15, 18–21, 24–43, 104–111, 112–135, 136–141}–{1, 3}–{1–2}}
 {M16–{2–5, 10–11, 16–17, 22–23}–3–{1–16}}
 {M32–{4–5, 10–11, 16–17, 22–23, 102, 103}–3–{1–16},
 M32–{5}–{1, 3}–{1–3, 6–8}}
 {M40–{2–3}–{1, 3}–{1–16}}
 {M40–{5}–{1, 3}–{4, 5, 9, 10}}
 {MCB–{2,3}–3–1}
 {MCB–{5}–{1, 3}–{1}}
 {O1B–{6–9, 12–15, 18–21, 24–43, 104–111, 112–135, 136–141}–{1, 3}–{2–9, 11–18}}
 {O4M–{6–9, 12–15, 18–21, 24–43, 104–111, 112–135, 136–141}–{1, 3}–{2–3, 11–12}}
 {RPB–{6–9, 12–15, 18–21, 24–43, 104–111, 112–135, 136–141}–{1, 3}–{1–2}}
 {S3M–{6–9, 12–15, 18–21, 24–43, 104–111, 112–135, 136–141}–{1, 3}–{4–9, 13–18}}
 Equipment AID, identifies the I/O, matrix, clock and cable entities associated with the redundant internal system paths from the FROM port to the TO port.

DATA

{ALM, CLKSEL0, CLKSEL1, CLKSELOPP, CLKSELREC, CLKSELSAM, CULPRIT, DATASEL0, DATASEL1, DEO, DIO, DMX, DS, DUEO, DUIO, DUMX, FEO, FIO, FMX, FS, FUEO, FUIO, FUMX, HW, MT, OOS, TEO, TIO, TMX, TS, TUEO, TUIO, TUMX, fault data not received from <L2P EQPT AID>, not responding}

Fault Location Data, indicates pertinent fault location information concerning the identified equipment entity. If a fault condition exists, one or more of the following values, separated by a comma, are displayed:

ALM	Alarmed, the indicated equipment entity is alarmed.
CLKSEL0	Copy 0 Clock Selected, the indicated circuit pack is selecting the copy 0 clock.
CLKSEL1	Copy 1 Clock Selected, the indicated circuit pack is selecting the copy 1 clock.
CLKSELOPP	Opposite copy of Clock Selected, the indicated circuit pack is selecting the opposite copy of clock.
CLKSELREC	Recovered Clock Selected, the indicated circuit pack is selecting the recovered clock.
CLKSELSAM	Same copy of Clock Selected, the indicated circuit pack is selecting the same copy of clock.
CULPRIT	Culprit, the indicated equipment entity is the source of the fault.
DATASEL0	Copy 0 matrix Data Selected by the indicated TO port.
DATASEL1	Copy 1 matrix Data Selected by the indicated TO port.
DEO	Data Electrical/Optical, a data error at the electrical-to–

DIO	optical side of the indicated equipment entity is detected. Data Input/Output, a data error at the I/O side of the indicated equipment entity is detected.
DMX	Data Matrix, a data error at the matrix side of the indicated equipment entity is detected.
DS	Data Suspect, the indicated equipment entity may be the source of the data errors.
DUEO	Data Upstream Electrical/Optical, a data error upstream from the electrical-to-optical side of the indicated equipment entity is detected.
DUIO	Data Upstream Input/Output, a data error upstream from the I/O side of the indicated equipment entity is detected.
DUMX	Data Upstream Matrix, a data error upstream from the matrix side of the indicated equipment entity is detected.
FEO	Facility Electrical/Optical, a facility failure at the electrical-to-optical side of the indicated equipment entity is detected.
FIO	Facility Input/Output, a facility failure at the I/O side of the indicated equipment entity is detected.
FMX	Facility Matrix, a facility failure at the matrix side of the indicated equipment entity is detected.
FS	Facility Suspect, the indicated equipment entity may be the source of the facility failures.
FUEO	Facility Upstream Electrical/Optical, a facility failure upstream from the electrical-to-optical side of the indicated equipment entity is detected.
FUIO	Facility Upstream Input/Output, a facility failure upstream from the I/O side of the indicated equipment entity is detected.
FUMX	Facility Upstream Matrix, a facility failure upstream from the matrix side of the indicated equipment entity is detected.
HW	Hardware, a hardware fault on the indicated equipment entity is detected.
MT	Maintenance, the indicated equipment entity has a SST of MT.
OOS	Out-of-Service, the indicated equipment entity is OOS.
TEO	Timing Electrical/Optical, a timing error at the electrical-to-optical side of the indicated equipment entity is detected.
TIO	Timing Input/Output, a timing error at the I/O side of the indicated equipment entity is detected.
TMX	Timing Matrix, a timing error at the matrix side of the indicated equipment entity is detected.
TS	Timing Suspect, the indicated equipment entity may be the source of the timing errors.
TUEO	Timing Upstream Electrical/Optical, a timing error upstream from the electrical-to-optical side of the indicated equipment entity is detected.
TUIO	Timing Upstream Input/Output, a timing error upstream from the I/O side of the indicated equipment entity is detected.
TUMX	Timing Upstream Matrix, a timing error upstream from the matrix side of the indicated equipment entity is detected.

fault data not received from <L2P EQPT AID> not responding	The supporting Level 2 Processor did not respond. The indicated equipment entity is not OOS and no re- sponse from the entity was received.
--	---

ERROR_INFO {CID, CONN RAM, COPY0 ASYMAIS, COPY0 CID, COPY0 FPE, COPY0 PBIT, COPY0 STM1 LOF, COPY0 STM1 LOSSYNC, COPY0 STM1 RAIL, COPY0 WPE, COPY1 ASYMAIS, COPY1 CID, COPY1 FPE, COPY1 PBIT, COPY1 STM1 LOF, COPY1 STM1 LOSSYNC, COPY1 STM1 RAIL, COPY1 WPE, DS3/STS1 LOA, DS3/STS1 LOF, DS3/STS1 LOS, DS3/STS1 RCLK, OC3 AIS, OC3 LOA, OC3 LOF, OC3 LOS, OC12 AIS, OC12 LOA, OC12 LOF, OC12 LOS, PATH NOT SELECTED, STM1 LOF, STM1 LOSSYNC, STM1 OF, STM1 RAIL, STM1 SPILL, STM1 UF, STM4 B1, STM4 CABLE DELAY, STM4 DXCLK, STM4 DXSPILL, STM4 LOF, STM4 LOS, STM4 MXCLK, STM4 MXSPILL, STS3C/STS1 AIS, STS3C/STS1 LOP, XMIT LASER OFF}

Equipment Error Information, indicates additional error information detected by the system pertaining to the equipment AID identified in the output line above this line and the specified path through the system. Multiple lines of <ERROR_INFO> may be displayed, with multiple values of <ERROR_INFO>, separated by a comma, per line.

CID	Connect IDentification error detected.
CONN RAM	Connection RAM error detected.
COPY0 ASYMAIS	Asymmetrical AIS. AIS detected on Copy 0 signal and not on Copy1
COPY0 CID	Connect IDentification error detected on Copy 0 signal.
COPY0 FPE	Frame Parity Error detected on Copy 0 signal.
COPY0 PBIT	Parity Bit Error detected on Copy 0 signal.
COPY0 STM1 LOF	Loss of Frame detected on STM1 Copy 0 signal.
COPY0 STM1 LOSSYNC	Loss of Synchronization pulse detected on STM1 Copy 0 signal.
COPY0 STM1 RAIL	Lower or upper limit delay Rail detected on STM1 Copy 0 signal.
COPY0 WPE	Word Parity Error detected on Copy 0 signal.
COPY1 ASYMAIS	Asymmetrical AIS. AIS detected on Copy 1 signal and not on Copy1.
COPY1 CID	Connect IDentification error detected on Copy 1 signal.
COPY1 FPE	Frame Parity Error detected on Copy 1 signal.
COPY1 PBIT	Parity Bit Error detected on Copy 1 signal.
COPY1 STM1 LOF	Loss of Frame detected on STM1 Copy 1 signal.
COPY1 STM1 LOSSYNC	Loss of Synchronization pulse detected on STM1 Copy 1 signal.
COPY1 STM1 RAIL	Lower or upper limit delay Rail detected on STM1 Copy 1 signal.
COPY1 WPE	Word Parity Error detected on Copy 1 signal.
DS3/STS1 LOA	Loss of Activity detected on DS3/STS-1.
DS3/STS1 LOF	Loss of Frame detected on DS3/STS-1.
DS3/STS1 LOS	Loss of Signal detected on DS3/STS-1.
DS3/STS1 RCLK	Loss of Recovered Clock detected on DS3/STS-1.
OC3 AIS	AIS signal detected on OC-3 signal.
OC3 LOA	Loss of Activity detected on OC-3.
OC3 LOF	Loss of Frame detected on OC-3.
OC3 LOS	Loss of Signal detected on OC-3.
OC12 AIS	AIS signal detected on OC-12 signal.
OC12 LOA	Loss of Activity detected on OC-12.
OC12 LOF	Loss of Frame detected on OC-12.
OC12 LOS	Loss of Signal detected on OC-12.
PATH NOT SELECTED	Specified path is not selected.
STM1 LOF	Loss of Frame detected on STM1 signal.
STM1 LOSSYNC	Loss of Sync pulse detected on STM1 signal.
STM1 OF	Over-Flow buffer spill detected on STM1 signal.

STM1 RAIL	Lower or upper limit delay Rail detected on STM1.
STM1 SPILL	Buffer Spill detected on STM1 signal.
STM1 UF	Under-Flow buffer spill detected on STM1 signal.
STM4 B1	B1 error detected on STM4 signal.
STM4 CABLE DELAY	Cable Delay error detected on STM4 signal.
STM4 DXCLK	Demux Clock error detected on STM4 signal.
STM4 DXSPILL	Demux Clock Spill detected on STM4 signal.
STM4 LOF	Loss of Frame detected on STM4 signal.
STM4 LOS	Loss of Signal detected on STM4 signal.
STM4 MXCLK	Mux Clock error detected on STM4 signal.
STM4 MXSPILL	Mux Clock Spill detected on STM4 signal.
STS3C/STS1 AIS	AIS signal detected on STS-3C/STS-1 signal.
STS3C/STS1 LOP	Loss of Pointer detected on STS-3C/STS-1 signal.
XMIT LASER OFF	EOB, IOB, or OXB Transmit Laser has been turned off.

TO STS1_AID:
 {EC1STS1-{1-3840}} (EC1STS1-EC1/STS1#)
 {OC3STS1-{1-2240}-{1-3}} (OC3STS1-OC3#-STS1#)
 {OC12STS1-{1-560}-{1-4}-{1-3}} (OC12STS1-OC12#-STM1#-STS1#)
 STS1 AID, identifies the TO STS-1 port.

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid /* Both FROM and TO facility must be STS1 AID. */ /* Unable to retrieve PATH NUMBER parameter. */ /* Invalid PATH NUMBER <path number> specified. */
IIAC	Input, Invalid ACcess identifier /* Invalid FROM AID entered. */ /* Invalid TO AID entered. */
SARB	Status, All Resources Busy /* Too many FLTLOC-PATH commands already in progress. */

SDBE Status, internal Data Base Error

```
/* Failed to get FROM TP DB record <TP record number> error <errnum>. */
/* Failed to get TO TP DB record <TP record number> error <errnum>. */
/* Unable to get connection pointer for TP type <TP type>, TP num <TP number>, error
   <errnum>. */
/* FROM TPid to supported TPid conversion error <errnum>. */
/* TO TPid to supported TPid conversion error <errnum>. */
/* TPid to first stage Tmsl conversion error <error number>. */
/* TPid to third stage Tmsl conversion error <error number>. */
/* Tmsl Path Retrieve error <error number>. */
/* Path not found. */
/* Unable to retrieve <FROM AID> level 2 processor id. */
/* Unable to retrieve <TO AID> level 2 processor id. */
/* Unable to retrieve inbound EOB entry for EOC shelf copy <copy number>. */
/* Unable to retrieve shelf entry for first stage copy <copy number> <SPB AID>. */
/* Unable to retrieve shelf entry for center stage copy <copy number> <SPB AID>. */
/* Unable to retrieve shelf entry for third stage copy <copy number> <SPB AID>. */
/* Unable to retrieve outbound EOB entry for EOC shelf copy <copy number>. */
/* Unable to create FLTLOC-PATH report file. */
/* Unable to open FLTLOC-PATH report file. */
/* Error reading matrix cable input database for bay <bay number> shelf <shelf number>.
   */
/* Error reading eoc to es1 cable database for cable <cable number>. */
/* Error reading es1 to cs cable database for cable <cable number>. */
/* Error reading cs to es3 cable database for cable <cable number>. */
/* Error reading matrix cable output database for cable <cable number>. */
/* Error reading eoc to io cable database for cable <cable number>. */
/* Unable to print FLTLOC-PATH report file. */
/* Unable to convert card_type <card type number>, card_num <card number>, l2p_id
   <level two processor number> to AID */
```

SNVS Status, Not in Valid State

```
/* FROM AID not as provisioned. */
/* TO AID not as provisioned. */
/* FROM AID must be in a provisioned or maintenance state. */
/* TO AID must be in a provisioned or maintenance state. */
/* Cross connection does not exist between FROM and TO AIDs. */
```

SROF Status, Requested Operation Failed

/* Hardware provisioning in progress. Try again later. */
/* Unable to convert FROM AID to string, error <error number>. */
/* Unable to convert TO AID to string, error <error number>. */
/* Unable to access memory for FI auxiliary data. */
/* Unable to convert <FROM AID> to global TP id, error <error number>. */
/* Unable to convert <TO AID> to global TP id, error <error number>. */
/* Invalid level 2 processor type (<level two processor type number>) encountered for <FROM AID>. */
/* Invalid level 2 processor type (<level two processor type number>) encountered for <TO AID>. */
/* Unable to convert the FROM TP type (<TP type number>) to a string error <error number>. */
/* Unable to convert the TO TP type (<TP type number>) to a string error <error number>. */
/* Unable to compute matrix input cable number for <FROM AID>. */
/* Unable to compute matrix input cable number for <TO AID>. */
/* Unable to retrieve first stage copy <copy number> SPB id, error <error number>. */
/* Unable to retrieve first stage copy <copy number> shelf timeslot, error <error number>. */
/*Unable to determine first stage card type for bay <bay number> shelf <shelf number> slot <slot number>.*/
/* Unable to retrieve center stage copy <copy number> SPB id, error <error number>. */
/* Unable to retrieve center stage copy <copy number> shelf timeslot, error <error number>. */
/*Unable to determine center stage card type for bay <bay number> shelf <shelf number> slot <slot number>.*/
/* Unable to retrieve third stage copy <copy number> SPB id, error <error number>. */
/* Unable to retrieve third stage copy <copy number> shelf timeslot, error <error number>. */
/*Unable to determine third stage card type for bay <bay number> shelf <shelf number> slot <slot number>.*/
/* Unable to send fault locate path message to ACL for <SPB AID>. */
/* Unable to send fault locate path message to ACL for <IPU AID>. */
/* Unable to queue FI auxiliary buffer for fault locate path request. */
/* Invalid matrix copy (<copy number>) returned in response message from <SPB AID>. */
/* Unable to re-queue FI auxiliary buffer for fault locate path request. */
/* I/O IPU response not received for <FROM AID> from <IPU AID>. */
/* I/O IPU response not received for <TO AID> from <IPU AID>. */
/* The FLTLOC-PATH-STS1 for <FROM AID>,<TO AID> was aborted. */
/* Did not receive a response for message sent to <SPB AID>. */
/* Did not receive a response for message sent to <IPU AID>. */
/* Cross connect path has been re-arranged during execution of this command. */
/* Invalid FROM subrack type (<subrack type number>) encountered. */
/* Invalid matrix interface (<matrix interface type number>) encountered for <FROM AID>. */
/* Invalid matrix interface (<matrix interface type number>) encountered for <TO AID>. */
/*Cross connect type has been changed during execution of this command.*/

EXAMPLES

In the following example, fault isolation information for the path between STS-1 port EC1STS1-195 and STS-1 port EC1STS1-207 is retrieved.

```
FLTLOC-PATH-STS1::EC1STS1-195,EC1STS1-207;
```

The output response, shown below, assumes CID 3 was used to enter the command and a system generated CTAG value of Pad569. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pad569 COMPLD
/* FROM STS1: EC1STS1-195, PATH=0 */
/* EP3-8-1-2:HW,ALM,CLKSEL0 */
/* Copy 0: CDB-8-1-1:CLKSELSAM */
/* Copy 1: CDB-8-1-2:OOS */
/* Copy 0: IPB-8-1-1:CLKSEL0 */
/* Copy 1: IPB-8-1-2:TMX,TUMX,CLKSEL0 */
/* COPY 0: CBL-8-1-XA150F */
/* COPY 1: CBL-8-1-XA250H */
/* COPY 0: CBL-5-3-LX031H */
/* COPY 1: CBL-4-3-LX031H */
/* COPY 0: M16-5-3-9:CLKSEL0 */
/* COPY 1: M16-4-3-9:CLKSEL0 */
/* STM1 RAIL */
/* Copy 0: CDB-5-3-1:CLKSELSAM */
/* Copy 1: CDB-5-3-2:CLKSELOPP */
/* Copy 0: CDB-4-3-1:CLKSELSAM */
/* Copy 1: CDB-4-3-2:CLKSELOPP */
/* Copy 0: CDA-5-3-1 */
/* Copy 1: CDA-4-3-1 */
/* COPY 0: CBL-5-3-LX041A */
/* COPY 1: CBL-4-3-LX041A */
/* COPY 0: CBL-2-3-UX031C */
/* COPY 1: CBL-3-3-UX031C */
/* COPY 0: M40-2-3-1:CLKSEL0 */
/* COPY 1: M40-3-3-1:CLKSEL0 */
/* STM1 LOF, STM1 OF */
/* Copy 0: CDB-2-3-1:CLKSELSAM */
/* Copy 1: CDB-2-3-2:CLKSELOPP */
/* Copy 0: CDB-3-3-1:CLKSELSAM */
/* Copy 1: CDB-3-3-2:CLKSELOPP */
/* Copy 0: MCB-2-3-1 */
/* Copy 1: MCB-3-3-1 */
/* COPY 0: CBL-2-3-UX031E */
/* COPY 1: CBL-3-3-UX031E */
/* COPY 0: CBL-5-3-LX101A */
/* COPY 1: CBL-4-3-LX101A */
/* COPY 0: M16-5-3-13:CLKSEL0 */
/* COPY 1: M16-4-3-13:CLKSEL0 */
/* Copy 0: CDB-5-3-1:CLKSELSAM */
/* Copy 1: CDB-5-3-2:CLKSELOPP */
/* Copy 0: CDB-4-3-1:CLKSELSAM */
/* Copy 1: CDB-4-3-2:CLKSELOPP */
/* Copy 0: CDA-5-3-1 */
/* Copy 1: CDA-4-3-1 */
```

```

/* COPY 0: CBL-5-3-LX101E */
/* COPY 1: CBL-4-3-LX101E */
/* COPY 0: CBL-8-1-XA150C */
/* COPY 1: CBL-8-1-XA250E */
/* COPY 0: IPB-8-1-1:CLKSEL0 */
/* COPY 1: IPB-8-1-2:CLKSEL0 */
/* Copy 0: CDB-8-1-1:CLKSELSAM */
/* Copy 1: CDB-8-1-2:CLKSELOPP */
/* EP3-8-1-6:CLKSEL0 */
/* COPY1 CID */
/* TO STS1: EC1STS1-207,PATH=0:DATASEL0 */
/* FLTLOC-PATH-STS1::EC1STS1-195,EC1STS1-207 [Pad569] (3) */
;

```

In the following example, fault isolation information for the pass through connection path between STS-1 port OC3STS1-65-1 and STS-1 port OC3STS1-66-1 is retrieved.

```
FLTLOC-PATH-STS1::OC3STS1-65-1,OC3STS1-66-1;
```

The output response, shown below, assumes CID 3 was used to enter the command and a system generated CTAG value of Pad569. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```

<SID> <YY-MM-DD> <HH:MM:SS>
M Pad569 COMPLD
/* FROM STS1: OC3STS1-65-1,PATH=0 */
/* O1B-8-1-2:HW,ALM,CLKSEL0 */
/* Copy 0: CDB-8-1-1:CLKSELSAM */
/* Copy 1: CDB-8-1-2:CLKSELOPP */
/* Copy 0: RPB-8-1-1:CLKSEL0 */
/* Copy 1: RPB-8-1-2:TMX,TUMX,CLKSEL0 */
/* COPY 0: RPB-8-1-1:CLKSEL0 */
/* COPY 1: RPB-8-1-2:TMX,TUMX,CLKSEL0 */
/* Copy 0: CDB-8-1-1:CLKSELSAM */
/* Copy 1: CDB-8-1-2:CLKSELOPP */
/* O1B-8-1-3:CLKSEL0 */
/* COPY1 CID */
/* TO STS1: OC3STS1-66-1,PATH=0:DATASEL0 */
/* FLTLOC-PATH-STS1::OC3STS1-65-1,OC3STS1-66-1 [Pad569] (3) */
;

```


RELATED COMMANDS

DGN-EQPT
DLT-EQPT
ED-EQPT
ENT-CRS-STs1
ENT-EQPT
OPR-ISGLP-VT1
OPR-ISGLP-STs1
RLS-ISGLP-VT1
RLS-ISGLP-STs1
RMV-EQPT
RST-EQPT
RTRV-CRS
RTRV-CRS-STs1
RTRV-DGN-STATUS
RTRV-EQPT
RTRV-FL-EQPT
RTRV-PATH-STs1
RTRV-STATE-EQPT
RTRV-STs1
RTRV-XIDMISM

COMMAND CODE: **FLTLOC-PATH-STS3C**
COMMAND NAME: **FAULT LOCATE PATH STS-3C**

PURPOSE

The FLTLOC-PATH-STS3C command collects, analyzes, and displays fault isolation data pertaining to the redundant internal paths through the system for the cross-connection specified by the FROM and TO STS-3C AIDs.

The redundant internal paths through the system that are reported are the paths from the specified FROM AID to the specified TO AID. FLTLOC-PATH-STS3C does not report on the paths through the system from the specified TO AID to the specified FROM AID for a two-way cross-connection.

To execute a FLTLOC-PATH-STS3C command, the specified FROM and TO STS-3C ports must identify an STS-3C one-way or two-way cross-connection (an STS-3C SST of ACT or BUSY and cross-connected together).

The successful response to a FLTLOC-PATH-STS3C command contains several lines of non-parsable output data, with each line of output identifying an element of the copy 0 or copy 1 clock and data paths through the system, and any associated fault isolation data, pertaining to the indicated entity. In addition, zero, one, or more lines of error information may be included for each element of the clock and data paths, except for the FROM and TO STS-3C port lines. Refer to the Successful Response Format, below.

A FLTLOC-PATH-STS3C command is denied if:

- The FROM and TO STS-3C AIDs do not identify either a one-way or two-way cross-connection (an STS-3C SST of ACT or BUSY and cross-connected together).
- The FROM and TO STS-3C AIDs identify a maintenance loopback connection (an STS-3C SST of UAS&MT&LPBK).
- Both the FROM and TO AIDs do not identify an STS-3C.
- The specified STS-3C is embedded within a protection OC-3/OC-12.
- An invalid parameter value is entered.

INPUT FORMAT

FLTLOC-PATH-STS3C: [TID] :FROM, TO: [CTAG] : : [PATH] ;

INPUT PARAMETERS

TID	< 1–20 VALID TID CHARACTERS >		
	Default:	<SID>	
	Addressing:	None	
	Description:	Target Identifier, specifies the network node TID for the command.	
FROM	STS3C_AID:		
	{OC3STS3C–{1–2240}}	(OC3STS3C–OC3#/STS3C#)	
	{OC12STS3C–{1–560}–{1–4}}	(OC12STS3C–OC12#–STM1/STS3C#)	
	Default:	Entry Required	
	Addressing:	None	
	Description:	STS3C AID, specifies the STS–3C port in a cross–connection or loop–back that is the beginning of the internal system path to be analyzed.	
TO	STS3C_AID:		
	{OC3STS3C–{1–2240}}	(OC3STS3C–OC3#/STS3C#)	
	{OC12STS3C–{1–560}–{1–4}}	(OC12STS3C–OC12#–STM1/STS3C#)	
	Default:	Entry Required	
	Addressing:	None	
	Description:	STS3C AID, specifies the STS–3C port in a cross–connection or loop–back that is the end of the internal system path to be analyzed.	

CTAG	<1–6 VALID CTAG CHARACTERS> Default: <System Assigned CTAG Value> Addressing: None Description: Correlation Tag, associates input command with its output responses.
PATH	{0–86} Default: { 0 } Addressing: None Description: Path, specifies which of the paths, that the intact STS–3C is divided into, is analyzed. Values are: 0, 1, 2 The path over which the overhead is being transmitted is analyzed. 3 – 86 The path over which the 3–86 VT1.5 equivalent components are being transmitted is analyzed.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
/* From STS3C: <FROM>,PATH=<value> */
/* <EQPT_AID>[:<DATA>] */
[/* <ERROR_INFO>[, <ERROR_INFO>] ... [, <ERROR_INFO>] */]
/* Copy 0: <EQPT_AID>[:<DATA>] */
[/* <ERROR_INFO>[, <ERROR_INFO>] ... [, <ERROR_INFO>] */]
/* Copy 1: <EQPT_AID>[:<DATA>] */
[/* <ERROR_INFO>[, <ERROR_INFO>] ... [, <ERROR_INFO>] */]
....
/* Copy 0: <EQPT_AID>[:<DATA>] */
[/* <ERROR_INFO>[, <ERROR_INFO>] ... [, <ERROR_INFO>] */]
/* Copy 1: <EQPT_AID>[:<DATA>] */
[/* <ERROR_INFO>[, <ERROR_INFO>] ... [, <ERROR_INFO>] */]
/* <EQPT_AID>[:<DATA>] */
[/* <ERROR_INFO>[, <ERROR_INFO>] ... [, <ERROR_INFO>] */]
/* To STS3C: <TO>,PATH=<value>[:<DATASEL0>:<DATASEL1>] */
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

OUTPUT PARAMETERS

FROM	STS3C_AID: {OC3STS3C–{1–2240}} (OC3STS3C–OC3#/STS3C#) {OC12STS3C–{1–560}–{1–4}} (OC12STS3C–OC12#–STM1/STS3C#) STS3C AID, identifies the FROM port.
PATH=	{0–86} Path, identifies which of the paths, that the intact STS–3C is divided into, is being reported. Values are: 0, 1, 2 The path over which the overhead is being transmitted is being reported. 3 – 86 The path over which the 3–86 VT1.5 equivalent components are being transmitted is being reported.

EQPT_AID EQUIPMENT_AID:

{CBL-{6-9, 12-15, 18-21, 24-43, 112-135}-{1, 3}-
{XA150B-XA150H, XA150J, XA250B-XA250H, XA250J,
J1000A-J1000H, J2000A-J2000H},
CBL-{2, 3}-{1, 3}-
{LX031B-LX031H, LX031J, UX031B-UX031H, UX031J,
LX051B-LX051H, LX051J, UX051B-UX051H, UX051J,
LX071B-LX071H, LX071J, UX071B-UX071H, UX071J,
LX091B-LX091H, LX091J, UX091B-UX091H, UX091J,
LX111B-LX111H, LX111J, UX111B-UX111H, UX111J,
LX131B-LX131H, LX131J, UX131B-UX131H, UX131J,
LX151B-LX151H, LX151J, UX151B-UX151H, UX151J,
LX171B-LX171H, LX171J, UX171B-UX171H, UX171J},
CBL-{4, 5, 10, 11, 16, 17, 22, 23}-{1,3}-
{LX031B, LX031C, LX031H, UX031B, UX031C, UX031H,
LX041A-LX041H, LX041J, UX041A-UX041H, UX041J,
LX051C, LX051H, LX051J, UX051C, UX051H, UX051J,
LX061B, LX061C, LX061H, UX061B, UX061C, UX061H,
LX071A-LX071H, LX071J, UX071A-UX071H, UX071J,
LX081C, LX081H, LX081J, UX081C, UX081H, UX081J,
LX091D, LX091E, LX091F, UX091D, UX091E, UX091F,
LX101A-LX101H, LX101J, UX101A-UX101H, UX101J,
LX111E, LX111F, LX111G, UX111E, UX111F, UX111G,
LX121D, LX121E, LX121F, UX121D, UX121E, UX121F,
LX131A-LX131H, LX131J, UX131A-UX131H, UX131J,
LX141E, LX141F, LX141G, UX141E, UX141F, UX141G},
CBL-{4, 5, 10, 11, 16, 17, 22, 23}-1-
{J1000A-J1000H, J1002A-J1002H, J1004A-J1004H, J1006A-J1006H,
J2001A-J2001H, J2003A-J2003H, J2005A-J2005H,
XA01B-XA01H, XA01J, XA03B-XA03H, XA03J,
XA05B-XA05H, XA05J, XA07B-XA07H, XA07J,
XA10B-XA10H, XA10J, XA12B-XA12H, XA012J,
XA14B-XA14H, XA14J},
CBL-{44-63}-{1-4}-{1J1RX, 1J1TX, 2J1RX, 2J1TX},
CBL-{6-8, 12-14}-{1, 3}-
{1J1RX, 1J1TX, 1J2RX, 1J2TX, 3J1RX, 3J1TX, 3J2RX, 3J2TX,
5J1RX, 5J1TX, 5J2RX, 5J2TX, 7J1RX, 7J1TX, 7J2RX, 7J2TX,
XA150B, XA151B, XA152B, XA153B, XA150D, XA151D, XA152D, XA153D,
XA250B, XA251B, XA252B, XA253B, XA250D, XA251D, XA252D, XA253D}
CBL-{9}-3-{1J1RX, 1J1TX, 1J2RX, 1J2TX, 3J1RX, 3J1TX, 3J2RX, 3J2TX,
5J1RX, 5J1TX, 5J2RX, 5J2TX, 7J1RX, 7J1TX, 7J2RX, 7J2TX,
XA150B, XA151B, XA152B, XA153B, XA150D, XA151D, XA152D, XA153D,
XA250B, XA251B, XA252B, XA253B, XA250D, XA251D, XA252D, XA253D},
CBL-{15}-1-{1J1RX, 1J1TX, 1J2RX, 1J2TX, 3J1RX, 3J1TX, 3J2RX, 3J2TX,
5J1RX, 5J1TX, 5J2RX, 5J2TX, 7J1RX, 7J1TX, 7J2RX, 7J2TX,
XA150B, XA151B, XA152B, XA153B, XA150D, XA151D, XA152D, XA153D,
XA250B, XA251B, XA252B, XA253B, XA250D, XA251D, XA252D, XA253D}}
{CDA-{4, 5, 10, 11, 16, 17, 22, 23, **102, 103**}-3-1}
{CDB-{5}-{1, 3}-{1, 2}}
CDB-{2-43,**104-111**,112-135,**136-141**}-{1, 3}-{1, 2}
{SI36: CDB-{6-9, 12-15, 18-21, 24-43}-{1, 3}-{1-2},
{SI48: CDB-{2-43,**104-111**,112-135,**136-141**}-{1, 3}-{1, 2}
{SI48: EOB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2},
EOC: EOB-{4-5, 10-11, 16-17, 22-23, **102, 103**}-1-{1-7, 9-15}}
{SI48: EP3-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42,

104–106,108–110, 136–141}–{1, 3}–{1–18},
 EP3–{9, 21, 35, 43, **107}**–3–{1–18},
 EP3–{15, 27, 31, 39, **111}**–1–{1–18}}
 {SI36: EP3–{6–8, 12–14}–{1, 3}–{1–14},
 EP3–9–3–{1–14},
 EP3–15–1–{1–14}}
 {SI48: ES1–{6–8, 12–14, 18–20, 24–26, 28–30, 32–34, 36–38, 40–42,
104–106,108–110,136–141}–{1, 3}–{1–18},
 ES1–{9, 21, 35, 43,**107}**–3–{1–18},
 ES1–{15, 27, 31, 39,**111}**–1–{1–18}}
 {SI36: ES1–{6–8, 12–14}–{1, 3}–{1–14},
 ES1–9–3–{1–14},
 ES1–15–1–{1–14}}
 {IPB–{6–9, 12–15, 18–21, 24–43, **104–111**, 112–135, **136–141}**–{1, 3}–{1–2}}
 {M16–{2–5, 10–11, 16–17, 22–23}–3–{1–16}}
 {M32–{4–5, 10–11, 16–17, 22–23, **102, 103}**–3–{1–16},
 M32–{5}–{1, 3}–{1–3, 6–8}}
 {M40–{2–3}–{1, 3}–{1–16}}
 {M40–{5}–{1, 3}–{4, 5, 9, 10}}
 {MCB–{2,3}–3–1}
 {MCB–{5}–{1, 3}–{1}}
 {O1B–{6–9, 12–15, 18–21, 24–43, **104–111**, 112–135, **136–141}**–{1, 3}–{2–9, 11–18}}
 {O4M–{6–9, 12–15, 18–21, 24–43, **104–111**, 112–135, **136–141}**–{1, 3}–{2–3, 11–12}}
 {RPB–{6–9, 12–15, 18–21, 24–43, **104–111**, 112–135, **136–141}**–{1, 3}–{1–2}}
 {S3M–{6–9, 12–15, 18–21, 24–43, **104–111**, 112–135, **136–141}**–{1, 3}–{4–9, 13–18}}
 Equipment AID, identifies the I/O, matrix, clock and cable entities associated with the redundant internal system paths from the FROM port to the TO port.

DATA

{ALM, CLKSEL0, CLKSEL1, CLKSELOPP, CLKSELREC, CLKSELSAM, CULPRIT, DATASEL0, DATASEL1, DEO, DIO, DMX, DS, DUEO, DUIO, DUMX, FEO, FIO, FMX, FS, FUEO, FUIO, FUMX, HW, MT, OOS, TEO, TIO, TMX, TS, TUEO, TUIO, TUMX, fault data not received from <L2P EQPT AID>, not responding}

Fault Location Data, indicates pertinent fault location information concerning the identified equipment entity. If a fault condition exists, one or more of the following values, separated by a comma, are displayed:

ALM	Alarmed, the indicated equipment entity is alarmed.
CLKSEL0	Copy 0 Clock Selected, the indicated circuit pack is selecting the copy 0 clock.
CLKSEL1	Copy 1 Clock Selected, the indicated circuit pack is selecting the copy 1 clock.
CLKSELOPP	Opposite copy of Clock Selected, the indicated circuit pack is selecting the opposite copy of clock.
CLKSELREC	Recovered Clock Selected, the indicated circuit pack is selecting the recovered clock.
CLKSELSAM	Same copy of Clock Selected, the indicated circuit pack is selecting the same copy of clock.
CULPRIT	Culprit, the indicated equipment entity is the source of the fault.
DATASEL0	Copy 0 matrix Data Selected by the indicated TO port.
DATASEL1	Copy 1 matrix Data Selected by the indicated TO port.
DEO	Data Electrical/Optical, a data error at the electrical-to-optical side of the indicated equipment entity is detected.
DIO	Data Input/Output, a data error at the I/O side of the indicated equipment entity is detected.
DMX	Data Matrix, a data error at the matrix side of the indicated equipment entity is detected.
DS	Data Suspect, the indicated equipment entity may be the source of the data errors.
DUEO	Data Upstream Electrical/Optical, a data error upstream from the electrical-to-optical side of the indicated equipment entity is detected.
DUIO	Data Upstream Input/Output, a data error upstream from the I/O side of the indicated equipment entity is detected.
DUMX	Data Upstream Matrix, a data error upstream from the matrix side of the indicated equipment entity is detected.
FEO	Facility Electrical/Optical, a facility failure at the electrical-to-optical side of the indicated equipment entity is detected.
FIO	Facility Input/Output, a facility failure at the I/O side of the indicated equipment entity is detected.
FMX	Facility Matrix, a facility failure at the matrix side of the indicated equipment entity is detected.

FS	Facility Suspect, the indicated equipment entity may be the source of the facility failures.
FUEO	Facility Upstream Electrical/Optical, a facility failure upstream from the electrical-to-optical side of the indicated equipment entity is detected.
FUIO	Facility Upstream Input/Output, a facility failure upstream from the I/O side of the indicated equipment entity is detected.
FUMX	Facility Upstream Matrix, a facility failure upstream from the matrix side of the indicated equipment entity is detected.
HW	Hardware, a hardware fault on the indicated equipment entity is detected.
MT	Maintenance, the indicated equipment entity has a SST of MT.
OOS	Out-of-Service, the indicated equipment entity is OOS.
TEO	Timing Electrical/Optical, a timing error at the electrical-to-optical side of the indicated equipment entity is detected.
TIO	Timing Input/Output, a timing error at the I/O side of the indicated equipment entity is detected.
TMX	Timing Matrix, a timing error at the matrix side of the indicated equipment entity is detected.
TS	Timing Suspect, the indicated equipment entity may be the source of the timing errors.
TUEO	Timing Upstream Electrical/Optical, a timing error upstream from the electrical-to-optical side of the indicated equipment entity is detected.
TUIO	Timing Upstream Input/Output, a timing error upstream from the I/O side of the indicated equipment entity is detected.
TUMX	Timing Upstream Matrix, a timing error upstream from the matrix side of the indicated equipment entity is detected.
fault data not received from <L2P EQPT AID> not responding	The supporting Level 2 Processor did not respond. The indicated equipment entity is not OOS and no response from the entity was received.

ERROR_INFO {CID, CONN RAM, COPY0 ASYMAIS, COPY0 CID, COPY0 FPE, COPY0 PBIT, COPY0 STM1 LOF, COPY0 STM1 LOSSYNC, COPY0 STM1 RAIL, COPY0 WPE, COPY1 ASYMAIS, COPY1 CID, COPY1 FPE, COPY1 PBIT, COPY1 STM1 LOF, COPY1 STM1 LOSSYNC, COPY1 STM1 RAIL, COPY1 WPE, OC3 AIS, OC3 LOA, OC3 LOF, OC3 LOS, OC12 AIS, OC12 LOA, OC12 LOF, OC12 LOS, PATH NOT SELECTED, STM1 LOF, STM1 LOSSYNC, STM1 OF, STM1 RAIL, STM1 SPILL, STM1 UF, STM4 B1, STM4 CABLE DELAY, STM4 DXCLK, STM4 DXSPILL, STM4 LOF, STM4 LOS, STM4 MXCLK, STM4 MXSPILL, STS3C LOA, STS3C LOF, STS3C LOS, STS3C RCLK, STS3C/STS1 AIS, STS3C/STS1 LOP, XMIT LASER OFF}

Equipment Error Information, indicates additional error information detected by the system pertaining to the equipment AID identified in the output line above this line and the specified path through the system. Multiple lines of <ERROR_INFO> may be displayed, with multiple values of <ERROR_INFO>, separated by a comma, per line.

CID	Connect IDentification error detected.
CONN RAM	Connection RAM error detected.
COPY0 ASYMAIS	Asymmetrical AIS. AIS detected on Copy 0 signal and not on Copy1
COPY0 CID	Connect IDentification error detected on Copy 0 signal.
COPY0 FPE	Frame Parity Error detected on Copy 0 signal.
COPY0 PBIT	Parity Bit Error detected on Copy 0 signal.
COPY0 STM1 LOF	Loss of Frame detected on STM1 Copy 0 signal.
COPY0 STM1 LOSSYNC	Loss of Synchronization pulse detected on STM1 Copy 0 signal.
COPY0 STM1 RAIL	Lower or upper limit delay Rail detected on STM1 Copy 0 signal.
COPY0 WPE	Word Parity Error detected on Copy 0 signal.
COPY1 ASYMAIS	Asymmetrical AIS. AIS detected on Copy 1 signal and not on Copy1
COPY1 CID	Connect IDentification error detected on Copy 1 signal.
COPY1 FPE	Frame Parity Error detected on Copy 1 signal.
COPY1 PBIT	Parity Bit Error detected on Copy 1 signal.
COPY1 STM1 LOF	Loss of Frame detected on STM1 Copy 1 signal.
COPY1 STM1 LOSSYNC	Loss of Synchronization pulse detected on STM1 Copy 1 signal.
COPY1 STM1 RAIL	Lower or upper limit delay Rail detected on STM1 Copy 1 signal.
COPY1 WPE	Word Parity Error detected on Copy 1 signal.
OC3 AIS	AIS signal detected on OC-3 signal.
OC3 LOA	Loss of Activity detected on OC-3.
OC3 LOF	Loss of Frame detected on OC-3.
OC3 LOS	Loss of Signal detected on OC-3.
OC12 AIS	AIS signal detected on OC-12 signal.
OC12 LOA	Loss of Activity detected on OC-12.
OC12 LOF	Loss of Frame detected on OC-12.
OC12 LOS	Loss of Signal detected on OC12.
PATH NOT SELECTED	Specified path is not selected.
STM1 LOF	Loss of Frame detected on STM1 signal.
STM1 LOSSYNC	Loss of Sync pulse detected on STM1 signal.
STM1 OF	Over-Flow buffer spill detected on STM1 signal.
STM1 RAIL	Lower or upper limit delay Rail detected on STM1.
STM1 SPILL	Buffer Spill detected on STM1 signal.
STM1 UF	Under-Flow buffer spill detected on STM1 signal.
STM4 B1	B1 error detected on STM4 signal.

STM4 CABLE DELAY	Cable Delay error detected on STM4 signal.
STM4 DXCLK	Demux Clock error detected on STM4 signal.
STM4 DXSPILL	Demux Clock Spill detected on STM4 signal.
STM4 LOF	Loss of Frame detected on STM4 signal.
STM4 LOS	Loss of Signal detected on STM4 signal.
STM4 MXCLK	Mux Clock error detected on STM4 signal.
STM4 MXSPILL	Mux Clock Spill detected on STM4 signal.
STS3C LOA	Loss of Activity detected on STS-3C.
STS3C LOF	Loss of Frame detected on STS-3C.
STS3C LOS	Loss of Signal detected on STS-3C.
STS3C RCLK	Loss of Recovered Clock detected on STS-3C.
STS3C/STS1 AIS	AIS signal detected on STS-3C/STS-1 signal.
STS3C/STS1 LOP	Loss of Pointer detected on STS-3C/STS-1 signal.
XMIT LASER OFF	EOB, IOB, or OXB Transmit Laser has been turned off.

TO STS3C_AID:
 {OC3STS3C-{1-2240}} (OC3STS3C-OC3#/STS3C#)
 {OC12STS3C-{1-560}-{1-4}} (OC12STS3C-OC12#-STM1/STS3C#)
 STS3C AID, identifies the TO STS-3C port.

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid /* Both FROM and TO facility must be STS3C AID. */ /* Unable to retrieve PATH NUMBER parameter. */ /* Invalid PATH NUMBER <path number> specified. */
IIAC	Input, Invalid ACcess identifier /* Invalid FROM AID entered. */ /* Invalid TO AID entered. */
SARB	Status, All Resources Busy /* Too many FLTLOC-PATH commands already in progress. */

SDBE Status, internal Data Base Error

```
/* Failed to get FROM TP DB record <TP record number> error <errnum>. */
/* Failed to get TO TP DB record <TP record number> error <errnum>. */
/* Unable to get connection pointer for TP type <TP type>, TP num <TP number>, error
   <errnum>. */
/* FROM TPid to supported TPid conversion error <errnum>. */
/* TO TPid to supported TPid conversion error <errnum>. */
/* TPid to first stage Tmsl conversion error <error number>. */
/* TPid to third stage Tmsl conversion error <error number>. */
/* Tmsl Path Retrieve error <error number>. */
/* Path not found. */
/* Unable to retrieve <FROM AID> level 2 processor id. */
/* Unable to retrieve <TO AID> level 2 processor id. */
/* Unable to retrieve inbound EOB entry for EOC shelf copy <copy number>. */
/* Unable to retrieve shelf entry for first stage copy <copy number> <SPB AID>. */
/* Unable to retrieve shelf entry for center stage copy <copy number> <SPB AID>. */
/* Unable to retrieve shelf entry for third stage copy <copy number> <SPB AID>. */
/* Unable to retrieve outbound EOB entry for EOC shelf copy <copy number>. */
/* Unable to create FLTLOC-PATH report file. */
/* Unable to open FLTLOC-PATH report file. */
/* Error reading matrix cable input database for bay <bay number> shelf <shelf number>.
   */
/* Error reading eoc to es1 cable database for cable <cable number>. */
/* Error reading es1 to cs cable database for cable <cable number>. */
/* Error reading cs to es3 cable database for cable <cable number>. */
/* Error reading matrix cable output database for cable <cable number>. */
/* Error reading eoc to io cable database for cable <cable number>. */
/* Unable to print FLTLOC-PATH report file. */
/* Unable to convert card_type <card type number>, card_num <card number>, l2p_id
   <level two processor number> to AID */
```

SNVS Status, Not in Valid State

```
/* FROM AID not as provisioned. */
/* TO AID not as provisioned. */
/* FROM AID must be in a provisioned or maintenance state. */
/* TO AID must be in a provisioned or maintenance state. */
/* Cross connection does not exist between FROM and TO AIDs. */
```

SROF Status, Requested Operation Failed

```
/* Hardware provisioning in progress. Try again later. */
/*FROM TPid to T3 TPid conversion error <error number>.*
/*TO TPid to T3 TPid conversion error <error number>.*
/* Unable to convert FROM AID to string, error <error number>.*
/* Unable to convert TO AID to string, error <error number>.*
/* Unable to access memory for FI auxiliary data.*
/* Unable to convert <FROM AID> to global TP id, error <error number>.*
/* Unable to convert <TO AID> to global TP id, error <error number>.*
/* Invalid level 2 processor type (<level two processor type number>) encountered for
   <FROM AID>.*
/* Invalid level 2 processor type (<level two processor type number>) encountered for <TO
   AID>.*
/* Unable to convert the FROM TP type (<TP type number>) to a string error <error number>.*
/* Unable to convert the TO TP type (<TP type number>) to a string error <error number>.*
/* Unable to compute matrix input cable number for <FROM AID>.*
/* Unable to compute matrix input cable number for <TO AID>.*
/* Unable to retrieve first stage copy <copy number> SPB id, error <error number>.*
/* Unable to retrieve first stage copy <copy number> shelf timeslot, error <error number>.*
/*Unable to determine first stage card type for bay <bay number> shelf <shelf number>
   slot <slot number>.*
/* Unable to retrieve center stage copy <copy number> SPB id, error <error number>.*
/* Unable to retrieve center stage copy <copy number> shelf timeslot, error <error number>.*
/*Unable to determine center stage card type for bay <bay number> shelf <shelf number>
   slot <slot number>.*
/* Unable to retrieve third stage copy <copy number> SPB id, error <error number>.*
/* Unable to retrieve third stage copy <copy number> shelf timeslot, error <error number>.*
/*Unable to determine third stage card type for bay <bay number> shelf <shelf number>
   slot <slot number>.*
/* Unable to send fault locate path message to ACL for <SPB AID>.*
/* Unable to send fault locate path message to ACL for <IPU AID>.*
/* Unable to queue FI auxiliary buffer for fault locate path request.*
/* Invalid matrix copy (<copy number>) returned in response message from <SPB AID>.*
/* Unable to re-queue FI auxiliary buffer for fault locate path request.*
/* I/O IPU response not received for <FROM AID> from <IPU AID>.*
/* I/O IPU response not received for <TO AID> from <IPU AID>.*
/* The FLTLOC-PATH-STS3C for <FROM AID>,<TO AID> was aborted.*
/* Did not receive a response for message sent to <SPB AID>.*
/* Did not receive a response for message sent to <IPU AID>.*
/* Cross connect path has been re-arranged during execution of this command.*
/* Invalid FROM subrack type (<subrack type number>) encountered.*
/* Invalid matrix interface (<matrix interface type number>) encountered for <FROM
   AID>.*
/* Invalid matrix interface (<matrix interface type number>) encountered for <TO AID>.*
/*Cross connect type has been changed during execution of this command.*
```

EXAMPLES

In the following example, fault isolation information for the path between STS-3C port OC3STS3C-3 and STS-3C port OC3STS3C-15 is retrieved.

```
FLTLOC-PATH-STS3C: :OC3STS3C-3, OC3STS3C-15;
```

The output response, shown below, assumes CID 3 was used to enter the command and a system generated CTAG value of Pad569. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pad569 COMPLD
/* FROM STS3C: OC3STS3C-3, PATH=0 */
/* O1B-6-1-4:HW,ALM,CLKSEL0 */
/* Copy 0: CDB-6-1-1:CLKSELSAM */
/* Copy 1: CDB-6-1-2:OOS */
/* Copy 0: IPB-6-1-1:CLKSEL0 */
/* Copy 1: IPB-6-1-2:TMX,TUMX,CLKSEL0 */
/* COPY 0: CBL-6-1-XA150F */
/* COPY 1: CBL-6-1-XA250H */
/* COPY 0: CBL-5-3-UX031B */
/* COPY 1: CBL-4-3-UX031B */
/* COPY 0: M16-5-3-1:CLKSEL0 */
/* COPY 1: M16-4-3-1:CLKSEL0 */
/* STM1 RAIL */
/* Copy 0: CDB-5-3-1:CLKSELSAM */
/* Copy 1: CDB-5-3-2:CLKSELOPP */
/* Copy 0: CDB-4-3-1:CLKSELSAM */
/* Copy 1: CDB-4-3-2:CLKSELOPP */
/* Copy 0: CDA-5-3-1 */
/* Copy 1: CDA-4-3-1 */
/* COPY 0: CBL-5-3-UX071A */
/* COPY 1: CBL-4-3-UX071A */
/* COPY 0: CBL-2-3-UX051B */
/* COPY 1: CBL-3-3-UX051B */
/* COPY 0: M40-2-3-2:CLKSEL0 */
/* COPY 1: M40-3-3-2:CLKSEL0 */
/* STM1 LOF, STM1 OF */
/* Copy 0: CDB-2-3-1:CLKSELSAM */
/* Copy 1: CDB-2-3-2:CLKSELOPP */
/* Copy 0: CDB-3-3-1:CLKSELSAM */
/* Copy 1: CDB-3-3-2:CLKSELOPP */
/* Copy 0: MCB-2-3-1 */
/* Copy 1: MCB-3-3-1 */
/* COPY 0: CBL-2-3-UX051D */
/* COPY 1: CBL-3-3-UX051D */
/* COPY 0: CBL-5-3-UX131A */
/* COPY 1: CBL-4-3-UX131A */
/* COPY 0: M16-5-3-5:CLKSEL0 */
/* COPY 1: M16-4-3-5:CLKSEL0 */
/* Copy 0: CDB-5-3-1:CLKSELSAM */
/* Copy 1: CDB-5-3-2:CLKSELOPP */
/* Copy 0: CDB-4-3-1:CLKSELSAM */
/* Copy 1: CDB-4-3-2:CLKSELOPP */
/* Copy 0: CDA-5-3-1 */
/* Copy 1: CDA-4-3-1 */
```

```
/* COPY 0: CBL-5-3-UX091F */  
/* COPY 1: CBL-4-3-UX091F */  
/* COPY 0: CBL-6-1-XA150D */  
/* COPY 1: CBL-6-1-XA250B */  
/* COPY 0: IPB-6-1-1:CLKSEL0 */  
/* COPY 1: IPB-6-1-2:CLKSEL0 */  
/* Copy 0: CDB-6-1-1:CLKSELSAM */  
/* Copy 1: CDB-6-1-2:CLKSELOPP */  
/* O1B-6-1-17:CLKSEL0 */  
/* COPY1 CID */  
/* TO STS3C: OC3STS3C-1-15,PATH=0:DATASEL0 */  
/* FLTLOC-PATH-ST3C: :OC3STS3C-3,OC3STS3C-15 [Pad569] (3) */  
;
```

RELATED COMMANDS

DGN-EQPT
DLT-EQPT
ED-EQPT
ENT-CRS-ST3C
ENT-EQPT
OPR-ISGLP-VT1
RLS-ISGLP-VT1
RMV-EQPT
RST-EQPT
RTRV-CRS
RTRV-CRS-ST3C
RTRV-DGN-STATUS
RTRV-EQPT
RTRV-FL-EQPT
RTRV-PATH-ST3C
RTRV-STATE-EQPT
RTRV-ST3C
RTRV-XIDMISM

COMMAND CODE: **FLTLOC-PATH-T1**
COMMAND NAME: **FAULT LOCATE PATH T1**

PURPOSE

The FLTLOC-PATH-T1 command collects, analyzes, and displays fault isolation data pertaining to the redundant internal paths through the system for the cross-connection or maintenance loopback (refer to OPR-ISGLP-T1 and OPR-ISGLP-T3) specified by the FROM and TO DS1 or VT1.5 AIDs.

The redundant internal paths through the system that are reported are the paths from the specified FROM AID to the specified TO AID. FLTLOC-PATH-T1 does not report on the paths through the system from the specified TO AID to the specified FROM AID for a two-way cross-connection.

To execute a FLTLOC-PATH-T1 command, the specified FROM and TO DS1 or VT1.5 ports must identify a DS1 or VT1.5 one-way or two-way cross-connection (a DS1 or VT1.5 SST of ACT or BUSY and cross-connected together) or a maintenance loopback connection (a DS1 or VT1.5 SST of UAS&MT&LPBK and the FROM and TO ports are identical).

The successful response to a FLTLOC-PATH-T1 command contains several lines of non-parsable output data, with each line of output identifying an element of the copy 0 or copy 1 clock and data paths through the system, and any associated fault isolation data, pertaining to the indicated entity. In addition, zero, one, or more lines of error information may be included for each element of the clock and data paths, except for the FROM and TO DS1 or VT1.5 port lines. Refer to the Successful Response Format, below.

A FLTLOC-PATH-T1 command is denied if:

- The FROM and TO DS1 or VT1.5 AIDs do not identify either a one-way or two-way cross-connection (a DS1 or VT1.5 SST of ACT or BUSY and cross-connected together), or a maintenance loopback connection (a DS1 or VT1.5 SST of UAS&MT&LPBK and the FROM and TO ports are identical).
- Both FROM and TO AIDs specify a VT1.5.
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

FLTLOC-PATH-T1 : [TID] : FROM, TO : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >		
	Default:	<SID>	
	Addressing:	None	
	Description:	Target Identifier, specifies the network node TID for the command.	
FROM	DS1_AID:		
	{T1-{1-59392}}		(T1-DS1#)
	{T3T1-{1-4800}-{1-28}}		(T3T1-DS3#-DS1#)
	{EC1T1-{1-3840}-{1-28}}		(EC1T1-EC1/STS1/DS3#-DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-28}}		(OC3T1-OC3#-STS1/DS3#-DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}		(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)
	VT1_AID:		
	{EC1VT1-{1-3840}-{1-7}-{1-4}}		(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)
	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}		(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)
	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}		
	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)		
	Default:	Entry Required	
	Addressing:	None	
	Description:	DS1 or VT1 AID, specifies the DS1 or VT1.5 port in a cross-connection or loopback that is the beginning of the internal system path to be analyzed.	
	Restrictions:	FLTLOC-PATH-T1 is denied if both the specified FROM and TO values are VT1.5 AIDs.	

TO	DS1_AID:	
	{T1-{1-59392}}	(T1-DS1#)
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)
	{EC1T1-{1-3840}-{1-28}}	(EC1T1-EC1/STS1/DS3#-DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-28}}	(OC3T1-OC3#-STS1/DS3#-DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}	(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)
	VT1_AID:	
	{EC1VT1-{1-3840}-{1-7}-{1-4}}	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)
	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)
	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	
	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)	
	Default:	Entry Required
	Addressing:	None
	Description:	DS1 or VT1 AID, specifies the DS1 or VT1.5 port in a cross-connection or loopback that is the end of the internal system path to be analyzed.
	Restrictions:	FLTLOC-PATH-T1 is denied if both the specified TO and FROM values are VT1.5 AIDs.
CTAG	< 1-6 VALID CTAG CHARACTERS >	
	Default:	< System assigned CTAG value >
	Addressing:	None
	Description:	Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
/* From {T1, VT1.5}: <FROM> */
/* <EQPT_AID>[:<DATA>] */
[/* <ERROR_INFO>[, <ERROR_INFO>] ... [, <ERROR_INFO>] */]
/* Copy 0: <EQPT_AID>[:<DATA>] */
[/* <ERROR_INFO>[, <ERROR_INFO>] ... [, <ERROR_INFO>] */]
/* Copy 1: <EQPT_AID>[:<DATA>] */
[/* <ERROR_INFO>[, <ERROR_INFO>] ... [, <ERROR_INFO>] */]
....
/* Copy 0: <EQPT_AID>[:<DATA>] */
[/* <ERROR_INFO>[, <ERROR_INFO>] ... [, <ERROR_INFO>] */]
/* Copy 1: <EQPT_AID>[:<DATA>] */
[/* <ERROR_INFO>[, <ERROR_INFO>] ... [, <ERROR_INFO>] */]
/* <EQPT_AID>[:<DATA>] */
[/* <ERROR_INFO>[, <ERROR_INFO>] ... [, <ERROR_INFO>] */]
/* To {T1, VT1.5}: <TO>[:<DATA>] */
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```


OUTPUT PARAMETERS

FROM	DS1_AID:	
	{T1-{1-59392}}	(T1-DS1#)
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)
	{EC1T1-{1-3840}-{1-28}}	(EC1T1-EC1/STS1/DS3#-DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-28}}	(OC3T1-OC3#-STS1/DS3#-DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}	(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)
	VT1_AID:	
	{EC1VT1-{1-3840}-{1-7}-{1-4}}	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)
	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)
	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	
	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)	
	DS1 or VT1 AID, identifies the FROM port.	

EQPT_AID EQUIPMENT_AID:

{CBL-{6-9, 12-15, 18-21, 24-43, 112-135}-{1, 3}-
{XA150B-XA150H, XA150J, XA250B-XA250H, XA250J,
J1000A-J1000H, J2000A-J2000H},
CBL-{2, 3}-{1, 3}-
{LX031B-LX031H, LX031J, UX031B-UX031H, UX031J,
LX051B-LX051H, LX051J, UX051B-UX051H, UX051J,
LX071B-LX071H, LX071J, UX071B-UX071H, UX071J,
LX091B-LX091H, LX091J, UX091B-UX091H, UX091J,
LX111B-LX111H, LX111J, UX111B-UX111H, UX111J,
LX131B-LX131H, LX131J, UX131B-UX131H, UX131J,
LX151B-LX151H, LX151J, UX151B-UX151H, UX151J,
LX171B-LX171H, LX171J, UX171B-UX171H, UX171J},
CBL-{4, 5, 10, 11, 16, 17, 22, 23}-{1,3}-
{LX031B, LX031C, LX031H, UX031B, UX031C, UX031H,
LX041A-LX041H, LX041J, UX041A-UX041H, UX041J,
LX051C, LX051H, LX051J, UX051C, UX051H, UX051J,
LX061B, LX061C, LX061H, UX061B, UX061C, UX061H,
LX071A-LX071H, LX071J, UX071A-UX071H, UX071J,
LX081C, LX081H, LX081J, UX081C, UX081H, UX081J,
LX091D, LX091E, LX091F, UX091D, UX091E, UX091F,
LX101A-LX101H, LX101J, UX101A-UX101H, UX101J,
LX111E, LX111F, LX111G, UX111E, UX111F, UX111G,
LX121D, LX121E, LX121F, UX121D, UX121E, UX121F,
LX131A-LX131H, LX131J, UX131A-UX131H, UX131J,
LX141E, LX141F, LX141G, UX141E, UX141F, UX141G},
CBL-{4, 5, 10, 11, 16, 17, 22, 23}-1-
{J1000A-J1000H, J1002A-J1002H, J1004A-J1004H, J1006A-J1006H,
J2001A-J2001H, J2003A-J2003H, J2005A-J2005H,
XA01B-XA01H, XA01J, XA03B-XA03H, XA03J,
XA05B-XA05H, XA05J, XA07B-XA07H, XA07J,
XA10B-XA10H, XA10J, XA12B-XA12H, XA012J,
XA14B-XA14H, XA14J},
CBL-{44-63}-{1-4}-{1J1RX, 1J1TX, 2J1RX, 2J1TX},
CBL-{6-8, 12-14}-{1, 3}-
{1J1RX, 1J1TX, 1J2RX, 1J2TX, 3J1RX, 3J1TX, 3J2RX, 3J2TX,
5J1RX, 5J1TX, 5J2RX, 5J2TX, 7J1RX, 7J1TX, 7J2RX, 7J2TX,
XA150B, XA151B, XA152B, XA153B, XA150D, XA151D, XA152D, XA153D,
XA250B, XA251B, XA252B, XA253B, XA250D, XA251D, XA252D, XA253D}
CBL-{9}-3-{1J1RX, 1J1TX, 1J2RX, 1J2TX, 3J1RX, 3J1TX, 3J2RX, 3J2TX,
5J1RX, 5J1TX, 5J2RX, 5J2TX, 7J1RX, 7J1TX, 7J2RX, 7J2TX,
XA150B, XA151B, XA152B, XA153B, XA150D, XA151D, XA152D, XA153D,
XA250B, XA251B, XA252B, XA253B, XA250D, XA251D, XA252D, XA253D},
CBL-{15}-1-{1J1RX, 1J1TX, 1J2RX, 1J2TX, 3J1RX, 3J1TX, 3J2RX, 3J2TX,
5J1RX, 5J1TX, 5J2RX, 5J2TX, 7J1RX, 7J1TX, 7J2RX, 7J2TX,
XA150B, XA151B, XA152B, XA153B, XA150D, XA151D, XA152D, XA153D,
XA250B, XA251B, XA252B, XA253B, XA250D, XA251D, XA252D, XA253D}}
{CDA-{4, 5, 10, 11, 16, 17, 22, 23, **102, 103**}-3-1}
{CDB-{5}-{1, 3}-{1, 2}}
CDB-{2-43,**104-111**,112-135,**136-141**}-{1, 3}-{1, 2}
{SI36: CDB-{6-9, 12-15, 18-21, 24-43}-{1, 3}-{1-2},
{SI48: CDB-{2-43,**104-111**,112-135,**136-141**}-{1, 3}-{1, 2}
{DSI-{44-63}-{1-4}-{1-32}}
{SI48: EOB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2},
EOC: EOB-{4-5, 10-11, 16-17, 22-23, **102, 103**}-1-{1-7, 9-15}}

{SI48: EP3-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42,
104-106, 108-110, 136-141}-1, 3}-1-18},
EP3-{9, 21, 35, 43, **107**}-3-1-18},
EP3-{15, 27, 31, 39, **111**}-1-1-18}}
{SI36: EP3-{6-8, 12-14}-1, 3}-1-14},
EP3-9-3-1-14},
EP3-15-1-1-14}}

{SI48: ES1-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42,
104-106,108-110,136-141}-{1, 3}-{1-18},
ES1-{9, 21, 35, 43,**107**}-3-{1-18},
ES1-{15, 27, 31, 39,**111**}-1-{1-18}}
{SI36: ES1-{6-8, 12-14}-{1, 3}-{1-14},
ES1-9-3-{1-14},
ES1-15-1-{1-14}}
{HMu-{44-53}-{1-4}-{1-8}}
{IOB-{6-8, 12-14}-{1, 3}-{1, 3, 5, 7},
IOB-9-3-{1, 3, 5, 7},
IOB-15-1-{1, 3, 5, 7}}
{IPB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2}}
{LMU-{44-53}-{1-4}-{1-32}}
{M16-{2-5, 10-11, 16-17, 22-23}-3-{1-16}}
{M32-{4-5, 10-11, 16-17, 22-23, **102**, **103**}-3-{1-16},
M32-{5}-{1, 3}-{1-3, 6-8}}
{M40-{2-3}-{1, 3}-{1-16}}
{M40-{5}-{1, 3}-{4, 5, 9, 10}}
{MCB-{2,3}-3-1}
{MCB-{5}-{1, 3}-{1}}
{O1B-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{2-9, 11-18}}
{OXB-{44-63}-{1-4}-{1-2}}
{O4M-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{2-3, 11-12}}
{RPB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2}}
{S3M-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{4-9, 13-18}}

Equipment AID, identifies the I/O, matrix, clock and cable entities associated with the redundant internal system paths from the FROM port to the TO port.

DATA

{ALM, CLKSEL0, CLKSEL1, CLKSELOPP, CLKSELREC, CLKSELSAM, CULPRIT, DATASEL0, DATASEL1, DEO, DIO, DMX, DS, DUEO, DUIO, DUMX, FEO, FIO, FMX, FS, FUEO, FUIO, FUMX, HW, MT, OOS, TEO, TIO, TMX, TS, TUEO, TUIO, TUMX, fault data not received from <L2P EQPT AID>, not responding}

Fault Location Data, indicates pertinent fault location information concerning the identified equipment entity. If a fault condition exists, one or more of the following values, separated by a comma, are displayed:

ALM	Alarmed, the indicated equipment entity is alarmed.
CLKSEL0	Copy 0 Clock Selected, the indicated circuit pack is selecting the copy 0 clock.
CLKSEL1	Copy 1 Clock Selected, the indicated circuit pack is selecting the copy 1 clock.
CLKSELOPP	Opposite copy of Clock Selected, the indicated circuit pack is selecting the opposite copy of clock.
CLKSELREC	Recovered Clock Selected, the indicated circuit pack is selecting the recovered clock.
CLKSELSAM	Same copy of Clock Selected, the indicated circuit pack is selecting the same copy of clock.
CULPRIT	Culprit, the indicated equipment entity is the source of the fault.
DATASEL0	Copy 0 matrix Data Selected by the indicated TO port.
DATASEL1	Copy 1 matrix Data Selected by the indicated TO port.
DEO	Data Electrical/Optical, a data error at the electrical-to-optical side of the indicated equipment entity is detected.
DIO	Data Input/Output, a data error at the I/O side of the indicated equipment entity is detected.

DMX	Data Matrix, a data error at the matrix side of the indicated equipment entity is detected.
DS	Data Suspect, the indicated equipment entity may be the source of the data errors.
DUEO	Data Upstream Electrical/Optical, a data error upstream from the electrical-to-optical side of the indicated equipment entity is detected.
DUIO	Data Upstream Input/Output, a data error upstream from the I/O side of the indicated equipment entity is detected.
DUMX	Data Upstream Matrix, a data error upstream from the matrix side of the indicated equipment entity is detected.
FEO	Facility Electrical/Optical, a facility failure at the electrical-to-optical side of the indicated equipment entity is detected.
FIO	Facility Input/Output, a facility failure at the I/O side of the indicated equipment entity is detected.
FMX	Facility Matrix, a facility failure at the matrix side of the indicated equipment entity is detected.
FS	Facility Suspect, the indicated equipment entity may be the source of the facility failures.
FUEO	Facility Upstream Electrical/Optical, a facility failure upstream from the electrical-to-optical side of the indicated equipment entity is detected.
FUIO	Facility Upstream Input/Output, a facility failure upstream from the I/O side of the indicated equipment entity is detected.
FUMX	Facility Upstream Matrix, a facility failure upstream from the matrix side of the indicated equipment entity is detected.
HW	Hardware, a hardware fault on the indicated equipment entity is detected.
MT	Maintenance, the indicated equipment entity has an SST of MT.
OOS	Out-of-Service, the indicated equipment entity is OOS.
TEO	Timing Electrical/Optical, a timing error at the electrical-to-optical side of the indicated equipment entity is detected.
TIO	Timing Input/Output, a timing error at the I/O side of the indicated equipment entity is detected.
TMX	Timing Matrix, a timing error at the matrix side of the indicated equipment entity is detected.
TS	Timing Suspect, the indicated equipment entity may be the source of the timing errors.
TUEO	Timing Upstream Electrical/Optical, a timing error upstream from the electrical-to-optical side of the indicated equipment entity is detected.
TUIO	Timing Upstream Input/Output, a timing error upstream from the I/O side of the indicated equipment entity is detected.
TUMX	Timing Upstream Matrix, a timing error upstream from the matrix side of the indicated equipment entity is detected.
fault data not received from <L2P EQPT AID> not responding	The supporting Level 2 Processor did not respond. The indicated equipment entity is not OOS and no response from the entity was received.

ERROR_INFO {CID, CONN RAM, COPY0 ASYMAIS, COPY0 CID, COPY0 FPE, COPY0 PBIT, COPY0 STM1 LOF, COPY0 STM1 LOSSYNC, COPY0 STM1 RAIL, COPY0 WPE, COPY1 ASYMAIS, COPY1 CID, COPY1 FPE, COPY1 PBIT, COPY1 STM1 LOF, COPY1 STM1 LOSSYNC, COPY1 STM1 RAIL, COPY1 WPE, DS1 AIS, DS1 CLKLOS, DS1 INSPILL, DS1 LOF, DS1 LOS, DS1 OUTLOF, DS1 OUTSPILL, DS1 QRS, DS2 LOF, DS2 OUTSPILL, DS3 BLUE, DS3 DPE, DS3 DXCLK, DS3 IDLE, DS3 LOF, DS3 LOS, DS3 LOS44MRCLK, DS3 ONES, DS3/STS1 LOA, DS3/STS1 LOF, DS3/STS1 LOS, DS3/STS1 RCLK, OC3 AIS, OC3 LOA, OC3 LOF, OC3 LOS, OC12 AIS, OC12 LOA, OC12 LOF, OC12 LOS, PATH NOT SELECTED, SFF BITMATCH ERR, STM1 LOF, STM1 LOSSYNC, STM1 OF, STM1 RAIL, STM1 SPILL, STM1 UF, STM4 B1, STM4 CABLE DELAY, STM4 DXCLK, STM4 DXSPILL, STM4 LOF, STM4 LOS, STM4 MXCLK, STM4 MXSPILL, STS3C/STS1 AIS, STS3C/STS1 LOP, VT1 AIS, VT1 LOP, XMIT LASER OFF}

Equipment Error Information, indicates additional error information detected by the system pertaining to the equipment AID identified in the output line above this line and the specified path through the system. Multiple lines of <ERROR_INFO> may be displayed, with multiple values of <ERROR_INFO>, separated by a comma, per line.

CID	Connect IDentification error detected.
CONN RAM	Connection RAM error detected.
COPY0 ASYMAIS	Asymmetrical AIS. AIS detected on Copy 0 signal and not on Copy1
COPY0 CID	Connect IDentification error detected on Copy 0 signal.
COPY0 FPE	Frame Parity Error detected on Copy 0 signal.
COPY0 PBIT	Parity Bit Error detected on Copy 0 signal.
COPY0 STM1 LOF	Loss of Frame detected on STM1 Copy 0 signal.
COPY0 STM1 LOSSYNC	Loss of Synchronization pulse detected on STM1 Copy 0 signal.
COPY0 STM1 RAIL	Lower or upper limit delay Rail detected on STM1 Copy 0 signal.
COPY0 WPE	Word Parity Error detected on Copy 0 signal.
COPY1 ASYMAIS	Asymmetrical AIS. AIS detected on Copy 1 signal and not on Copy1
COPY1 CID	Connect IDentification error detected on Copy 1 signal.
COPY1 FPE	Frame Parity Error detected on Copy 1 signal.
COPY1 PBIT	Parity Bit Error detected on Copy 1 signal.
COPY1 STM1 LOF	Loss of Frame detected on STM1 Copy 1 signal.
COPY1 STM1 LOSSYNC	Loss of Synchronization pulse detected on STM1 Copy 1 signal.
COPY1 STM1 RAIL	Lower or upper limit delay Rail detected on STM1 Copy 1 signal.
COPY1 WPE	Word Parity Error detected on Copy 1 signal.
DS1 AIS	Alarm Indication Signal detected on DS1.
DS1 CLKLOS	Loss of Clock detected on DS1.
DS1 INSPILL	Spill of In-bound buffer detected on DS1.
DS1 LOF	Loss of Frame detected on DS1.
DS1 LOS	Loss of Signal detected on DS1.
DS1 OUTLOF	Outbound Loss Of Frame detected on DS1.
DS1 OUTSPILL	Spill of Out-bound buffer detected on DS1.
DS1 QRS	Quasi Random Signal detected on DS1.
DS2 LOF	Loss of Frame detected on DS2.
DS2 OUTSPILL	Spill of Out-bound buffer detected on DS2.
DS3 BLUE	Blue signal detected on DS3.
DS3 DPE	Data parity error detected on DS3
DS3 DXCLK	Demux Clock error detected on DS3.

DS3 IDLE	Idle signal detected on DS3
DS3 LOF	Loss of Frame detected on DS3.
DS3 LOS	Loss of Signal detected on DS3.
DS3 LOS44MRCLK	Loss of 44 MHz Recovered Clock detected on DS3.
DS3 ONES	All Ones signal detected on DS3.
DS3/STS1 LOA	Loss of Activity detected on DS3/STS-1.
DS3/STS1 LOF	Loss of Frame detected on DS3/STS-1.
DS3/STS1 LOS	Loss of Signal detected on DS3/STS-1.
DS3/STS1 RCLK	Loss of Recovered Clock detected on DS3/STS-1.
OC3 AIS	AIS signal detected on OC3 signal.
OC3 LOA	Loss of Activity detected on OC3.
OC3 LOF	Loss of Frame detected on OC3.
OC3 LOS	Loss of Signal detected on OC3.
OC12 AIS	AIS signal detected on OC-12 signal.
OC12 LOA	Loss of Activity detected on OC-12.
OC12 LOF	Loss of Frame detected on OC-12.
OC12 LOS	Loss of Signal detected on OC-12.
PATH NOT SELECTED	Specified path is not selected.
SFF BITMATCH ERR	Bit Match Error detected on (LMU to DSI) Switch Frame Format (SFF) signal.
STM1 LOF	Loss of Frame detected on STM1 signal.
STM1 LOSSYNC	Loss of Sync pulse detected on STM1 signal.
STM1 OF	Over-Flow buffer spill detected on STM1 signal.
STM1 RAIL	Lower or upper limit delay Rail detected on STM1 signal.
STM1 SPILL	Buffer Spill detected on STM1 signal.
STM1 UF	Under-Flow buffer spill detected on STM1 signal.
STM4 B1	B1 error detected on STM4 signal.
STM4 CABLE DELAY	Cable Delay error detected on STM4 signal.
STM4 DXCLK	Demux Clock error detected on STM4 signal.
STM4 DXSPILL	Demux Clock Spill detected on STM4 signal.
STM4 LOF	Loss of Frame detected on STM4 signal.
STM4 LOS	Loss of Signal detected on STM4 signal.
STM4 MXCLK	Mux Clock error detected on STM4 signal.
STM4 MXSPILL	Mux Clock Spill detected on STM4 signal.
STS3C/STS1 AIS	AIS signal detected on STS3C/STS1 signal.
STS3C/STS1 LOP	Loss of Pointer detected on STS3C/STS1 signal.
VT1 AIS	AIS signal detected on VT1.5 signal.
VT1 LOP	Loss of Pointer detected on VT1.5 signal.
XMIT LASER OFF	EOB, IOB, or OXB Transmit Laser has been turned off.

TO

DS1_AID:	
{T1-{1-59392}}	(T1-DS1#)
{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)
{EC1T1-{1-3840}-{1-28}}	(EC1T1-EC1/STS1/DS3#-DS1#)
{OC3T1-{1-2240}-{1-3}-{1-28}}	(OC3T1-OC3#-STS1/DS3#-DS1#)
{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}	(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)
VT1_AID:	
{EC1VT1-{1-3840}-{1-7}-{1-4}}	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)
{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)
{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	
(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)	
DS1 or VT1 AID, identifies the TO DS1 or VT1.5 port.	

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```


ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid /* FROM and/or TO facility must be T1 AID. */
IIAC	Input, Invalid ACcess identifier /* Invalid FROM AID entered. */ /* Invalid TO AID entered. */
SARB	Status, All Resources Busy /* Too many FLTLOC-PATH commands already in progress. */
SDBE	Status, internal Data Base Error /* Failed to get FROM TP DB record <TP record number> error <errnum>. */ /* Failed to get TO TP DB record <TP record number> error <errnum>. */ /* Unable to get connection pointer for TP type <TP type>, TP num <TP number>, error <errnum>. */ /* Unable to get QRS pointer for TP type <TP type>, TP num <TP number>, error <errnum>. */ /* Invalid from_cid <connect id num> in connection database for TP type <TP type>, TP num <TP number>. */ /* TPid to first stage Tmsl conversion error <error number>. */ /* TPid to third stage Tmsl conversion error <error number>. */ /* Tmsl Path Retrieve error <error number>. */ /* Path not found. */ /* Unable to retrieve <FROM AID> level 2 processor id. */ /* Unable to retrieve <TO AID> level 2 processor id. */ /* Unable to retrieve inbound EOB entry for EOC shelf copy <copy number>. */ /* Unable to retrieve shelf entry for first stage copy <copy number> <SPB AID>. */ /* Unable to retrieve shelf entry for center stage copy <copy number> <SPB AID>. */ /* Unable to retrieve shelf entry for third stage copy <copy number> <SPB AID>. */ /* Unable to retrieve outbound EOB entry for EOC shelf copy <copy number>. */ /* Unable to create FLTLOC-PATH report file. */ /* Unable to open FLTLOC-PATH report file. */ /* Error reading matrix cable input database for bay <bay number> shelf <shelf number>. */ /* Error reading eoc to es1 cable database for cable <cable number>. */ /* Error reading es1 to cs cable database for cable <cable number>. */ /* Error reading cs to es3 cable database for cable <cable number>. */ /* Error reading matrix cable output database for cable <cable number>. */ /* Error reading eoc to i/o cable database for cable <cable number>. */ /* Unable to print FLTLOC-PATH report file. */ /* Unable to convert card_type <card type number>, card_num <card number>, l2p_id <level two processor number> to AID */
SNVS	Status, Not in Valid State /* FROM AID not as provisioned. */ /* TO AID not as provisioned. */ /* FROM AID must be in a provisioned or maintenance state. */ /* TO AID must be in a provisioned or maintenance state. */ /* Cross connection does not exist between FROM and TO AIDs. */

SROF Status, Requested Operation Failed

/* Hardware provisioning in progress. Try again later. */
/* Unable to convert FROM AID to string, error <error number>. */
/* Unable to convert TO AID to string, error <error number>. */
/* Unable to access memory for FI auxiliary data. */
/* Unable to convert <FROM AID> to global TP id, error <error number>. */
/* Unable to convert <TO AID> to global TP id, error <error number>. */
/* Invalid level 2 processor type (<level two processor type number>) encountered for <FROM AID>. */
/* Invalid level 2 processor type (<level two processor type number>) encountered for <TO AID>. */
/* Unable to convert the FROM TP type (<TP type number>) to a string error <error number>. */
/* Unable to convert the TO TP type (<TP type number>) to a string error <error number>. */
/* Unable to compute matrix input cable number for <FROM AID>. */
/* Unable to compute matrix input cable number for <TO AID>. */
/* Unable to retrieve first stage copy <copy number> SPB id, error <error number>. */
/* Unable to retrieve first stage copy <copy number> shelf timeslot, error <error number>. */
/*Unable to determine first stage card type for bay <bay number> shelf <shelf number> slot <slot number>.*/
/* Unable to retrieve center stage copy <copy number> SPB id, error <error number>. */
/* Unable to retrieve center stage copy <copy number> shelf timeslot, error <error number>. */
/*Unable to determine center stage card type for bay <bay number> shelf <shelf number> slot <slot number>.*/
/* Unable to retrieve third stage copy <copy number> SPB id, error <error number>. */
/* Unable to retrieve third stage copy <copy number> shelf timeslot, error <error number>. */
/*Unable to determine third stage card type for bay <bay number> shelf <shelf number> slot <slot number>.*/
/* Unable to send fault locate path message to ACL for <SPB AID>. */
/* Unable to send fault locate path message to ACL for <IPU AID>. */
/* Unable to queue FI auxiliary buffer for fault locate path request. */
/* Invalid matrix copy (<copy number>) returned in response message from <SPB AID>. */
/* Unable to re-queue FI auxiliary buffer for fault locate path request. */
/* I/O IPU response not received for <FROM AID> from <IPU AID>. */
/* I/O IPU response not received for <TO AID> from <IPU AID>. */
/* The FLTLOC-PATH-T1 for <FROM AID>,<TO AID> was aborted. */
/* Did not receive a response for message sent to <SPB AID>. */
/* Did not receive a response for message sent to <IPU AID>. */
/* Cross connect path has been re-arranged during execution of this command. */
/* Invalid FROM subrack type (<subrack type number>) encountered. */
/* Invalid matrix interface (<matrix interface type number>) encountered for <FROM AID>. */
/* Invalid matrix interface (<matrix interface type number>) encountered for <TO AID>. */
/*Cross connect type has been changed during execution of this command.*/

EXAMPLES

In the following example, fault isolation information for the path between DS1 port T3T1-1156-2 and DS1 port T3T1-1178-6 is retrieved.

```
FLTLOC-PATH-T1::T3T1-1156-2,T3T1-1178-6;
```

The output response, shown below, assumes CID 3 was used to enter the command and a system generated CTAG value of Pad569. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pad569 COMPLD
/* FROM T1: T3T1-1156-2 */
/* EP3-8-1-3:HW,ALM,CLKSEL0 */
/* Copy 0: CDB-8-1-1:CLKSELSAM */
/* Copy 1: CDB-8-1-2:OOS */
/* Copy 0: IPB-8-1-1:CLKSEL0 */
/* Copy 1: IPB-8-1-2:TMX,TUMX,CLKSEL0 */
/* COPY 0: CBL-8-1-XA150F */
/* COPY 1: CBL-8-1-XA250H */
/* COPY 0: CBL-5-3-LX031H */
/* COPY 1: CBL-4-3-LX031H */
/* COPY 0: M16-5-3-9:CLKSEL0 */
/* COPY 1: M16-4-3-9:CLKSEL0 */
/* STM1 RAIL */
/* Copy 0: CDB-5-3-1:CLKSELSAM */
/* Copy 1: CDB-5-3-2:CLKSELOPP */
/* Copy 0: CDB-4-3-1:CLKSELSAM */
/* Copy 1: CDB-4-3-2:CLKSELOPP */
/* Copy 0: CDA-5-3-1 */
/* Copy 1: CDA-4-3-1 */
/* COPY 0: CBL-5-3-LX041A */
/* COPY 1: CBL-4-3-LX041A */
/* COPY 0: CBL-2-3-UX031C */
/* COPY 1: CBL-3-3-UX031C */
/* COPY 0: M40-2-3-1:CLKSEL0 */
/* COPY 1: M40-3-3-1:CLKSEL0 */
/* STM1 LOF, STM1 OF */
/* Copy 0: CDB-2-3-1:CLKSELSAM */
/* Copy 1: CDB-2-3-2:CLKSELOPP */
/* Copy 0: CDB-3-3-1:CLKSELSAM */
/* Copy 1: CDB-3-3-2:CLKSELOPP */
/* Copy 0: MCB-2-3-1 */
/* Copy 1: MCB-3-3-1 */
/* COPY 0: CBL-2-3-UX031E */
/* COPY 1: CBL-3-3-UX031E */
/* COPY 0: CBL-5-3-LX101A */
/* COPY 1: CBL-4-3-LX101A */
/* COPY 0: M16-5-3-14:CLKSEL0 */
/* COPY 1: M16-4-3-14:CLKSEL0 */
/* Copy 0: CDB-5-3-1:CLKSELSAM */
/* Copy 1: CDB-5-3-2:CLKSELOPP */
/* Copy 0: CDB-4-3-1:CLKSELSAM */
/* Copy 1: CDB-4-3-2:CLKSELOPP */
/* Copy 0: CDA-5-3-1 */
/* Copy 1: CDA-4-3-1 */
```

```
/* COPY 0: CBL-5-3-LX111E */  
/* COPY 1: CBL-4-3-LX111E */  
/* COPY 0: CBL-8-1-XA150D */  
/* COPY 1: CBL-8-1-XA250B */  
/* COPY 0: IPB-8-1-1:CLKSEL0 */  
/* COPY 1: IPB-8-1-2:CLKSEL0 */  
/* Copy 0: CDB-8-1-1:CLKSELSAM */  
/* Copy 1: CDB-8-1-2:CLKSELOPP */  
/* EP3-8-1-11:CLKSEL0 */  
/* COPY1 CID */  
/* TO T1: T3T1-1178-6:DATASEL0 */  
/* FLTLOC-PATH-T1::T3T1-1156-2,T3T1-1178-6 [Pad569] (3) */  
;
```

RELATED COMMANDS

DGN-EQPT
DLT-EQPT
ED-EQPT
ENT-CRS-T1
ENT-EQPT
FLTLOC-PATH-VT1
OPR-ISGLP-T1
OPR-ISGLP-T3
RLS-ISGLP-T1
RLS-ISGLP-T3
RMV-EQPT
RST-EQPT
RTRV-CRS
RTRV-CRS-T1
RTRV-DGN-STATUS
RTRV-EQPT
RTRV-FL-EQPT
RTRV-PATH-T1
RTRV-PATH-VT1
RTRV-STATE-EQPT
RTRV-T1
RTRV-XIDMISM

COMMAND CODE: **FLTLOC-PATH-T3**
COMMAND NAME: **FAULT LOCATE PATH T3**

PURPOSE

The FLTLOC-PATH-T3 command collects, analyzes, and displays fault isolation data pertaining to the redundant internal paths through the system for the cross-connection specified by the FROM and TO DS3 or STS-1 AIDs.

The redundant internal paths through the system that are reported are the paths from the specified FROM AID to the specified TO AID. FLTLOC-PATH-T3 does not report on the paths through the system from the specified TO AID to the specified FROM AID for a two-way cross-connection.

To execute a FLTLOC-PATH-T3 command, the specified FROM and TO DS3 or STS-1 ports must identify a DS3 or STS-1 one-way or two-way cross-connection (a DS3 or STS-1 SST of ACT or BUSY and cross-connected together).

The successful response to a FLTLOC-PATH-T3 command contains several lines of non-parsable output data, with each line of output identifying an element of the copy 0 or copy 1 clock and data paths through the system, and any associated fault isolation data, pertaining to the indicated entity. In addition, zero, one, or more lines of error information may be included for each element of the clock and data paths, except for the FROM and TO DS3 or STS-1 port lines. Refer to the Successful Response Format, below.

A FLTLOC-PATH-T3 command is denied if:

- The FROM and TO DS3 or STS-1 AIDs do not identify either a one-way or two-way cross-connection (a DS3 or STS-1 SST of ACT or BUSY and cross-connected together).
- The FROM and TO DS3 AIDs identify a maintenance loopback connection (a DS3 SST of UAS&MT&LPBK).
- The specified STS1 is embedded within a protection OC-3.
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

FLTLOC-PATH-T3 : [TID] : FROM, TO : [CTAG] : : [PATH] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >
Default:	<SID>
Addressing:	None
Description:	Target Identifier, specifies the network node TID for the command.

FROM	DS3_AID:	
	{T3-{1-4800}}	(T3-DS3#)
	STS1_AID:	
	{EC1STS1-{1-3840}}	(EC1STS1-EC1/STS1#)
	{OC3STS1-{1-2240}-{1-3}}	(OC3STS1-OC3#-STS1#)
	{OC12STS1-{1-560}-{1-4}-{1-3}}	(OC12STS1-OC12#-STM1#-STS1#)
	Default:	Entry Required
	Addressing:	None
	Description:	DS3 or STS1 AID, specifies the DS3 or STS-1 port in a cross-connection or loopback that is the beginning of the internal system path to be analyzed. (Note that the STS1 AID is used to identify a T3 embedded in an STS-1.)
	Restrictions:	FLTLOC-PATH-T3 is denied if both the specified FROM and TO values are an STS-1 AID.
TO	DS3_AID:	
	{T3-{1-4800}}	(T3-DS3#)
	STS1_AID:	
	{EC1STS1-{1-3840}}	(EC1STS1-EC1/STS1#)
	{OC3STS1-{1-2240}-{1-3}}	(OC3STS1-OC3#-STS1#)
	{OC12STS1-{1-560}-{1-4}-{1-3}}	(OC12STS1-OC12#-STM1#-STS1#)
	Default:	Entry Required
	Addressing:	None
	Description:	DS3 or STS1 AID, specifies the DS3 or STS-1 port in a cross-connection or loopback that is the end of the internal system path to be analyzed. (Note that the STS1 AID is used to identify a T3 embedded in an STS-1.)
	Restrictions:	FLTLOC-PATH-T3 is denied if both the specified TO and FROM values are a STS-1 AID.
CTAG	< 1-6 VALID CTAG CHARACTERS >	
	Default:	< System assigned CTAG value >
	Addressing:	None
	Description:	Correlation Tag, associates input command with its output responses.
PATH	{0-28}	
	Default:	{ 0 }
	Addressing:	None
	Description:	Path, specifies which of the paths, that the intact T3 is divided into, is analyzed. Values are:
	0	The path over which the overhead is being transmitted is analyzed.
	1-28	The path over which the 1-28 T1 equivalent components are being transmitted is analyzed.

SUCCESSFUL RESPONSE FORMAT

```

    <SID> <YY-MM-DD> <HH:MM:SS>
M  <CTAG> COMPLD
/* From {T3, STS1}: <FROM>,PATH=<value> */
/* <EQPT_AID>[:<DATA>] */
[/* <ERROR_INFO>[, <ERROR_INFO>] ... [, <ERROR_INFO>] */]
/* Copy 0: <EQPT_AID>[:<DATA>] */
[/* <ERROR_INFO>[, <ERROR_INFO>] ... [, <ERROR_INFO>] */]
/* Copy 1: <EQPT_AID>[:<DATA>] */
[/* <ERROR_INFO>[, <ERROR_INFO>] ... [, <ERROR_INFO>] */]
....
/* Copy 0: <EQPT_AID>[:<DATA>] */
[/* <ERROR_INFO>[, <ERROR_INFO>] ... [, <ERROR_INFO>] */]
/* Copy 1: <EQPT_AID>[:<DATA>] */
[/* <ERROR_INFO>[, <ERROR_INFO>] ... [, <ERROR_INFO>] */]
/* <EQPT_AID>[:<DATA>] */
[/* <ERROR_INFO>[, <ERROR_INFO>] ... [, <ERROR_INFO>] */]
/* To {T3, STS1}: <TO>,PATH=<value>[:<DATA>] */
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

OUTPUT PARAMETERS

FROM	DS3_AID: {T3-{1-4800}} (T3-DS3#)
	STS1_AID: {EC1STS1-{1-3840}} (EC1STS1-EC1/STS1#)
	{OC3STS1-{1-2240}-{1-3}} (OC3STS1-OC3#-STS1#)
	{OC12STS1-{1-560}-{1-4}-{1-3}} (OC12STS1-OC12#-STM1#-STS1#)
	DS3 or STS1 AID, identifies the FROM port.
PATH=	{0-28} Path, identifies which of the paths, that the intact T3 is divided into, is being reported. Values are:
	0 The path over which the overhead is being transmitted is being reported.
	1-28 The path over which the 1-28 T1 equivalent components are being transmitted is being reported.

EQPT_AID EQUIPMENT_AID:

{CBL-{6-9, 12-15, 18-21, 24-43, 112-135}-{1, 3}-
{XA150B-XA150H, XA150J, XA250B-XA250H, XA250J,
J1000A-J1000H, J2000A-J2000H},
CBL-{2, 3}-{1, 3}-
{LX031B-LX031H, LX031J, UX031B-UX031H, UX031J,
LX051B-LX051H, LX051J, UX051B-UX051H, UX051J,
LX071B-LX071H, LX071J, UX071B-UX071H, UX071J,
LX091B-LX091H, LX091J, UX091B-UX091H, UX091J,
LX111B-LX111H, LX111J, UX111B-UX111H, UX111J,
LX131B-LX131H, LX131J, UX131B-UX131H, UX131J,
LX151B-LX151H, LX151J, UX151B-UX151H, UX151J,
LX171B-LX171H, LX171J, UX171B-UX171H, UX171J},
CBL-{4, 5, 10, 11, 16, 17, 22, 23}-{1,3}-
{LX031B, LX031C, LX031H, UX031B, UX031C, UX031H,
LX041A-LX041H, LX041J, UX041A-UX041H, UX041J,
LX051C, LX051H, LX051J, UX051C, UX051H, UX051J,
LX061B, LX061C, LX061H, UX061B, UX061C, UX061H,
LX071A-LX071H, LX071J, UX071A-UX071H, UX071J,
LX081C, LX081H, LX081J, UX081C, UX081H, UX081J,
LX091D, LX091E, LX091F, UX091D, UX091E, UX091F,
LX101A-LX101H, LX101J, UX101A-UX101H, UX101J,
LX111E, LX111F, LX111G, UX111E, UX111F, UX111G,
LX121D, LX121E, LX121F, UX121D, UX121E, UX121F,
LX131A-LX131H, LX131J, UX131A-UX131H, UX131J,
LX141E, LX141F, LX141G, UX141E, UX141F, UX141G},
CBL-{4, 5, 10, 11, 16, 17, 22, 23}-1-
{J1000A-J1000H, J1002A-J1002H, J1004A-J1004H, J1006A-J1006H,
J2001A-J2001H, J2003A-J2003H, J2005A-J2005H,
XA01B-XA01H, XA01J, XA03B-XA03H, XA03J,
XA05B-XA05H, XA05J, XA07B-XA07H, XA07J,
XA10B-XA10H, XA10J, XA12B-XA12H, XA012J,
XA14B-XA14H, XA14J},
CBL-{44-63}-{1-4}-{1J1RX, 1J1TX, 2J1RX, 2J1TX},
CBL-{6-8, 12-14}-{1, 3}-
{1J1RX, 1J1TX, 1J2RX, 1J2TX, 3J1RX, 3J1TX, 3J2RX, 3J2TX,
5J1RX, 5J1TX, 5J2RX, 5J2TX, 7J1RX, 7J1TX, 7J2RX, 7J2TX,
XA150B, XA151B, XA152B, XA153B, XA150D, XA151D, XA152D, XA153D,
XA250B, XA251B, XA252B, XA253B, XA250D, XA251D, XA252D, XA253D}
CBL-{9}-3-{1J1RX, 1J1TX, 1J2RX, 1J2TX, 3J1RX, 3J1TX, 3J2RX, 3J2TX,
5J1RX, 5J1TX, 5J2RX, 5J2TX, 7J1RX, 7J1TX, 7J2RX, 7J2TX,
XA150B, XA151B, XA152B, XA153B, XA150D, XA151D, XA152D, XA153D,
XA250B, XA251B, XA252B, XA253B, XA250D, XA251D, XA252D, XA253D},
CBL-{15}-1-{1J1RX, 1J1TX, 1J2RX, 1J2TX, 3J1RX, 3J1TX, 3J2RX, 3J2TX,
5J1RX, 5J1TX, 5J2RX, 5J2TX, 7J1RX, 7J1TX, 7J2RX, 7J2TX,
XA150B, XA151B, XA152B, XA153B, XA150D, XA151D, XA152D, XA153D,
XA250B, XA251B, XA252B, XA253B, XA250D, XA251D, XA252D, XA253D}}
{CDA-{4, 5, 10, 11, 16, 17, 22, 23, **102, 103**}-3-1}
{CDB-{5}-{1, 3}-{1, 2}}
CDB-{2-43,**104-111**,112-135,**136-141**}-{1, 3}-{1, 2}
{SI36: CDB-{6-9, 12-15, 18-21, 24-43}-{1, 3}-{1-2},
{SI48: CDB-{2-43,**104-111**,112-135,**136-141**}-{1, 3}-{1, 2}
{SI48: EOB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2},
EOC: EOB-{4-5, 10-11, 16-17, 22-23, **102, 103**}-1-{1-7, 9-15}}
{SI48: EP3-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42,

104–106,108–110, 136–141}–{1, 3}–{1–18},
 EP3–{9, 21, 35, 43, **107**}–3–{1–18},
 EP3–{15, 27, 31, 39, **111**}–1–{1–18}}
 {SI36: EP3–{6–8, 12–14}–{1, 3}–{1–14},
 EP3–9–3–{1–14},
 EP3–15–1–{1–14}}
 {SI48: ES1–{6–8, 12–14, 18–20, 24–26, 28–30, 32–34, 36–38, 40–42,
104–106,108–110,136–141}–{1, 3}–{1–18},
 ES1–{9, 21, 35, 43,**107**}–3–{1–18},
 ES1–{15, 27, 31, 39,**111**}–1–{1–18}}
 {SI36: ES1–{6–8, 12–14}–{1, 3}–{1–14},
 ES1–9–3–{1–14},
 ES1–15–1–{1–14}}
 {IOB–{6–8, 12–14}–{1, 3}–{1, 3, 5, 7},
 IOB–9–3–{1, 3, 5, 7},
 IOB–15–1–{1, 3, 5, 7}}
 {IPB–{6–9, 12–15, 18–21, 24–43, **104–111**, 112–135, **136–141}**–{1, 3}–{1–2}}
 {M16–{2–5, 10–11, 16–17, 22–23}–3–{1–16}}
 {M32–{4–5, 10–11, 16–17, 22–23, **102**, **103**}–3–{1–16},
 M32–{5}–{1, 3}–{1–3, 6–8}}
 {M40–{2–3}–{1, 3}–{1–16}}
 {M40–{5}–{1, 3}–{4, 5, 9, 10}}
 {MCB–{2,3}–3–1}
 {MCB–{5}–{1, 3}–{1}}
 {O1B–{6–9, 12–15, 18–21, 24–43, **104–111**, 112–135, **136–141}**–{1, 3}–{2–9, 11–18}}
 {O4M–{6–9, 12–15, 18–21, 24–43, **104–111**, 112–135, **136–141}**–{1, 3}–{2–3, 11–12}}
 {RPB–{6–9, 12–15, 18–21, 24–43, **104–111**, 112–135, **136–141}**–{1, 3}–{1–2}}
 {S3M–{6–9, 12–15, 18–21, 24–43, **104–111**, 112–135, **136–141}**–{1, 3}–{4–9, 13–18}}
 Equipment AID, identifies the I/O, matrix, clock and cable entities associated with the redundant internal system paths from the FROM port to the TO port.

DATA	{ALM, CLKSEL0, CLKSEL1, CLKSELOPP, CLKSELREC, CLKSELSAM, CULPRIT, DATASEL0, DATASEL1, DEO, DIO, DMX, DS, DUEO, DUIO, DUMX, FEO, FIO, FMX, FS, FUEO, FUIO, FUMX, HW, MT, OOS, TEO, TIO, TMX, TS, TUEO, TUIO, TUMX, fault data not received from <L2P EQPT AID>, not responding}
	Fault Location Data, indicates pertinent fault location information concerning the identified equipment entity. If a fault condition exists, one or more of the following values, separated by a comma, are displayed:
ALM	Alarmed, the indicated equipment entity is alarmed.
CLKSEL0	Copy 0 Clock Selected, the indicated circuit pack is selecting the copy 0 clock.
CLKSEL1	Copy 1 Clock Selected, the indicated circuit pack is selecting the copy 1 clock.
CLKSELOPP	Opposite copy of Clock Selected, the indicated circuit pack is selecting the opposite copy of clock.
CLKSELREC	Recovered Clock Selected, the indicated circuit pack is selecting the recovered clock.
CLKSELSAM	Same copy of Clock Selected, the indicated circuit pack is selecting the same copy of clock.
CULPRIT	Culprit, the indicated equipment entity is the source of the fault.
DATASEL0	Copy 0 matrix Data Selected by the indicated TO port.
DATASEL1	Copy 1 matrix Data Selected by the indicated TO port.
DEO	Data Electrical/Optical, a data error at the electrical-to-optical side of the indicated equipment entity is detected.
DIO	Data Input/Output, a data error at the I/O side of the indicated equipment entity is detected.
DMX	Data Matrix, a data error at the matrix side of the indicated equipment entity is detected.
DS	Data Suspect, the indicated equipment entity may be the source of the data errors.
DUEO	Data Upstream Electrical/Optical, a data error upstream from the electrical-to-optical side of the indicated equipment entity is detected.
DUIO	Data Upstream Input/Output, a data error upstream from the I/O side of the indicated equipment entity is detected.
DUMX	Data Upstream Matrix, a data error upstream from the matrix side of the indicated equipment entity is detected.
FEO	Facility Electrical/Optical, a facility failure at the electrical-to-optical side of the indicated equipment entity is detected.
FIO	Facility Input/Output, a facility failure at the I/O side of the indicated equipment entity is detected.

FMX	Facility Matrix, a facility failure at the matrix side of the indicated equipment entity is detected.
FS	Facility Suspect, the indicated equipment entity may be the source of the facility failures.
FUEO	Facility Upstream Electrical/Optical, a facility failure upstream from the electrical-to-optical side of the indicated equipment entity is detected.
FUIO	Facility Upstream Input/Output, a facility failure upstream from the I/O side of the indicated equipment entity is detected.
FUMX	Facility Upstream Matrix, a facility failure upstream from the matrix side of the indicated equipment entity is detected.
HW	Hardware, a hardware fault on the indicated equipment entity is detected.
MT	Maintenance, the indicated equipment entity has an SST of MT.
OOS	Out-of-Service, the indicated equipment entity is OOS.
TEO	Timing Electrical/Optical, a timing error at the electrical-to-optical side of the indicated equipment entity is detected.
TIO	Timing Input/Output, a timing error at the I/O side of the indicated equipment entity is detected.
TMX	Timing Matrix, a timing error at the matrix side of the indicated equipment entity is detected.
TS	Timing Suspect, the indicated equipment entity may be the source of the timing errors.
TUEO	Timing Upstream Electrical/Optical, a timing error upstream from the electrical-to-optical side of the indicated equipment entity is detected.
TUIO	Timing Upstream Input/Output, a timing error upstream from the I/O side of the indicated equipment entity is detected.
TUMX	Timing Upstream Matrix, a timing error upstream from the matrix side of the indicated equipment entity is detected.
fault data not received from <L2P EQPT AID> not responding	The supporting Level 2 Processor did not respond. The indicated equipment entity is not OOS and no response from the entity was received.

ERROR_INFO {CID, CONN RAM, COPY0 ASYMAIS, COPY0 CID, COPY0 FPE, COPY0 PBIT, COPY0 STM1 LOF, COPY0 STM1 LOSSYNC, COPY0 STM1 RAIL, COPY0 WPE, COPY1 ASYMAIS, COPY1 CID, COPY1 FPE, COPY1 PBIT, COPY1 STM1 LOF, COPY1 STM1 LOSSYNC, COPY1 STM1 RAIL, COPY1 WPE, DS3 BLUE, DS3 DPE, DS3 DXCLK, DS3 IDLE, DS3 LOF, DS3 LOS, DS3 LOS44MRCLK, DS3 ONES, DS3/STS1 LOA, DS3/STS1 LOF, DS3/STS1 LOS, DS3/STS1 RCLK, OC3 AIS, OC3 LOA, OC3 LOF, OC3 LOS, OC12 AIS, OC12 LOA, OC12 LOF, OC12 LOS, PATH NOT SELECTED, STM1 LOF, STM1 LOSSYNC, STM1 OF, STM1 RAIL, STM1 SPILL, STM1 UF, STM4 B1, STM4 CABLE DELAY, STM4 DXCLK, STM4 DXSPILL, STM4 LOF, STM4 LOS, STM4 MXCLK, STM4 MXSPILL, STS3C/STS1 AIS, STS3C/STS1 LOP, XMIT LASER OFF}

Equipment Error Information, indicates additional error information detected by the system pertaining to the equipment AID identified in the output line above this line and the specified path through the system. Multiple lines of <ERROR_INFO> may be displayed, with multiple values of <ERROR_INFO>, separated by a comma, per line.

CID	Connect IDentification error detected.
CONN RAM	Connection RAM error detected.
COPY0 ASYMAIS	Asymmetrical AIS. AIS detected on Copy 0 signal and not on Copy1
COPY0 CID	Connect IDentification error detected on Copy 0 signal.
COPY0 FPE	Frame Parity Error detected on Copy 0 signal.
COPY0 PBIT	Parity Bit Error detected on Copy 0 signal.
COPY0 STM1 LOF	Loss of Frame detected on STM1 Copy 0 signal.
COPY0 STM1 LOSSYNC	Loss of Synchronization pulse detected on STM1 Copy 0 signal.
COPY0 STM1 RAIL	Lower or upper limit delay Rail detected on STM1 Copy 0 signal.
COPY0 WPE	Word Parity Error detected on Copy 0 signal.
COPY1 ASYMAIS	Asymmetrical AIS. AIS detected on Copy 1 signal and not on Copy1
COPY1 CID	Connect IDentification error detected on Copy 1 signal.
COPY1 FPE	Frame Parity Error detected on Copy 1 signal.
COPY1 PBIT	Parity Bit Error detected on Copy 1 signal.
COPY1 STM1 LOF	Loss of Frame detected on STM1 Copy 1 signal.
COPY1 STM1 LOSSYNC	Loss of Synchronization pulse detected on STM1 Copy 1 signal.
COPY1 STM1 RAIL	Lower or upper limit delay Rail detected on STM1 Copy 1 signal.
COPY1 WPE	Word Parity Error detected on Copy 1 signal.
DS3 BLUE	Blue signal detected on DS3.
DS3 DPE	Data parity error detected on DS3.
DS3 DXCLK	Demux Clock error detected on DS3.
DS3 IDLE	Idle signal detected on DS3
DS3 LOF	Loss of Frame detected on DS3.
DS3 LOS	Loss of Signal detected on DS3.
DS3 LOS44MRCLK	Loss of 44 MHz Recovered Clock detected on DS3.
DS3 ONES	All Ones signal detected on DS3.
DS3/STS1 LOA	Loss of Activity detected on DS3/STS-1.
DS3/STS1 LOF	Loss of Frame detected on DS3/STS-1.
DS3/STS1 LOS	Loss of Signal detected on DS3/STS-1.
DS3/STS1 RCLK	Loss of Recovered Clock detected on DS3/STS-1.
OC3 AIS	AIS signal detected on OC3 signal.
OC3 LOA	Loss of Activity detected on OC3.
OC3 LOF	Loss of Frame detected on OC3.

	OC3 LOS	Loss of Signal detected on OC3.
	OC12 AIS	AIS signal detected on OC-12 signal.
	OC12 LOA	Loss of Activity detected on OC-12.
	OC12 LOF	Loss of Frame detected on OC-12.
	OC12 LOS	Loss of Signal detected on OC-12.
	PATH NOT SELECTED	Specified path is not selected.
	STM1 LOF	Loss of Frame detected on STM1 signal.
	STM1 LOSSYNC	Loss of Synchronization pulse detected on STM1.
	STM1 OF	Over-Flow buffer spill detected on STM1 signal.
	STM1 RAIL	Lower or upper limit delay Rail detected on STM1 signal.
	STM1 SPILL	Buffer Spill detected on STM1 signal.
	STM1 UF	Under-Flow buffer spill detected on STM1 signal.
	STM4 B1	B1 error detected on STM4 signal.
	STM4 CABLE DELAY	Cable Delay error detected on STM4 signal.
	STM4 DXCLK	Demux Clock error detected on STM4 signal.
	STM4 DXSPILL	Demux Clock Spill detected on STM4 signal.
	STM4 LOF	Loss of Frame detected on STM4 signal.
	STM4 LOS	Loss of Signal detected on STM4 signal.
	STM4 MXCLK	Mux Clock error detected on STM4 signal.
	STM4 MXSPILL	Mux Clock Spill detected on STM4 signal.
	STS3C/STS1 AIS	AIS signal detected on STS3C/STS1 signal.
	STS3C/STS1 LOP	Loss of Pointer detected on STS3C/STS1 signal.
	XMIT LASER OFF	EOB, IOB, or OXB Transmit Laser has been turned off.
TO	DS3_AID:	
	{T3-{1-4800}}	(T3-DS3#)
	STS1_AID:	
	{EC1STS1-{1-3840}}	(EC1STS1-EC1/STS1#)
	{OC3STS1-{1-2240}-{1-3}}	(OC3STS1-OC3#-STS1#)
	{OC12STS1-{1-560}-{1-4}-{1-3}}	(OC12STS1-OC12#-STM1#-STS1#)
	DS3 or STS1 AID, identifies the TO DS3 or STS-1 port.	

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid
	/* FROM and/or TO facility must be T3 AID. */
	/* Unable to retrieve PATH NUMBER parameter. */
	/* Invalid PATH NUMBER <path number> specified. */
IIAC	Input, Invalid ACcess identifier
	/* Invalid FROM AID entered. */
	/* Invalid TO AID entered. */
SARB	Status, All Resources Busy
	/* Too many FLTLOC-PATH commands already in progress. */

SDBE Status, internal Data Base Error

```
/* Failed to get FROM TP DB record <TP record number> error <errnum>. */
/* Failed to get TO TP DB record <TP record number> error <errnum>. */
/* Unable to get connection pointer for TP type <TP type>, TP num <TP number>, error
   <errnum>. */
/* FROM TPid to supported TPid conversion error <errnum>. */
/* TO TPid to supported TPid conversion error <errnum>. */
/* TPid to first stage Tmsl conversion error <error number>. */
/* TPid to third stage Tmsl conversion error <error number>. */
/* Tmsl Path Retrieve error <error number>. */
/* Path not found. */
/* Unable to retrieve <FROM AID> level 2 processor id. */
/* Unable to retrieve <TO AID> level 2 processor id. */
/* Unable to retrieve inbound EOB entry for EOC shelf copy <copy number>. */
/* Unable to retrieve shelf entry for first stage copy <copy number> <SPB AID>. */
/* Unable to retrieve shelf entry for center stage copy <copy number> <SPB AID>. */
/* Unable to retrieve shelf entry for third stage copy <copy number> <SPB AID>. */
/* Unable to retrieve outbound EOB entry for EOC shelf copy <copy number>. */
/* Unable to create FLTLOC-PATH report file. */
/* Unable to open FLTLOC-PATH report file. */
/* Error reading matrix cable input database for bay <bay number> shelf <shelf number>.
   */
/* Error reading eoc to es1 cable database for cable <cable number>. */
/* Error reading es1 to cs cable database for cable <cable number>. */
/* Error reading cs to es3 cable database for cable <cable number>. */
/* Error reading matrix cable output database for cable <cable number>. */
/* Error reading eoc to i/o cable database for cable <cable number>. */
/* Unable to print FLTLOC-PATH report file. */
/* Unable to convert card_type <card type number>, card_num <card number>, l2p_id
   <level two processor number> to AID*/
```

SNVS Status, Not in Valid State

```
/* FROM AID not as provisioned. */
/* TO AID not as provisioned. */
/* FROM AID must be in a provisioned or maintenance state. */
/* TO AID must be in a provisioned or maintenance state. */
/* Cross connection does not exist between FROM and TO AIDs. */
```

SROF Status, Requested Operation Failed

```
/* Hardware provisioning in progress. Try again later. */
/* Unable to convert FROM AID to string, error <error number>. */
/* Unable to convert TO AID to string, error <error number>. */
/* Unable to access memory for FI auxiliary data. */
/* Unable to convert <FROM AID> to global TP id, error <error number>. */
/* Unable to convert <TO AID> to global TP id, error <error number>. */
/* Invalid level 2 processor type (<level two processor type number>) encountered for
   <FROM AID>. */
/* Invalid level 2 processor type (<level two processor type number>) encountered for
   <TO AID>. */
/* Unable to convert the FROM TP type (<TP type number>) to a string error <error num-
   ber>. */
/* Unable to convert the TO TP type (<TP type number>) to a string error <error number>.
   */
/* Unable to compute matrix input cable number for <FROM AID>. */
/* Unable to compute matrix input cable number for <TO AID>. */
/* Unable to retrieve first stage copy <copy number> SPB id, error <error number>. */
/* Unable to retrieve first stage copy <copy number> shelf timeslot, error <error number>.
   */
/*Unable to determine first stage card type for bay <bay number> shelf <shelf number>
   slot <slot number>.*
/* Unable to retrieve center stage copy <copy number> SPB id, error <error
   number>. */
/* Unable to retrieve center stage copy <copy number> shelf timeslot, error <error num-
   ber>. */
/*Unable to determine center stage card type for bay <bay number> shelf <shelf number>
   slot <slot number>.*
/* Unable to retrieve third stage copy <copy number> SPB id, error <error number>. */
/* Unable to retrieve third stage copy <copy number> shelf timeslot, error <error number>.
   */
/*Unable to determine third stage card type for bay <bay number> shelf <shelf number>
   slot <slot number>.*
/* Unable to send fault locate path message to ACL for <SPB AID>. */
/* Unable to send fault locate path message to ACL for <IPU AID>. */
/* Unable to queue FI auxiliary buffer for fault locate path request. */
/* Invalid matrix copy (<copy number>) returned in response message from <SPB
   AID>. */
/* Unable to re-queue FI auxiliary buffer for fault locate path request. */
/* I/O IPU response not received for <FROM AID> from <IPU AID>. */
/* I/O IPU response not received for <TO AID> from <IPU AID>. */
/* The FLTLOC-PATH-T3 for <FROM AID>,<TO AID> was aborted. */
/* Did not receive a response for message sent to <SPB AID>. */
/* Did not receive a response for message sent to <IPU AID>. */
/* Cross connect path has been re-arranged during execution of this command. */
/* Invalid FROM subrack type (<subrack type number>) encountered. */
/* Invalid matrix interface (<matrix interface type number>) encountered for <FROM
   AID>. */
/* Invalid matrix interface (<matrix interface type number>) encountered for <TO
   AID>. */
/*Cross connect type has been changed during execution of this command.*
```


EXAMPLES

In the following example, fault isolation information for the path between DS3 port EC1STS1–195 and DS3 port T3–1167 is retrieved.

```
FLTLOC-PATH-T3: : EC1STS1-195, T3-1167;
```

The output response, shown below, assumes CID 3 was used to enter the command and a system generated CTAG value of Pad569. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pad569 COMPLD
/* FROM T3: EC1STS1-195, PATH=0 */
/* EP3-8-1-2:HW,ALM,CLKSEL0 */
/* Copy 0: CDB-8-1-1:CLKSELSAM */
/* Copy 1: CDB-8-1-2:OOS */
/* Copy 0: IPB-8-1-1:CLKSEL0 */
/* Copy 1: IPB-8-1-2:TMX,TUMX,CLKSEL0 */
/* COPY 0: CBL-8-1-XA150F */
/* COPY 1: CBL-8-1-XA250H */
/* COPY 0: CBL-5-3-LX031H */
/* COPY 1: CBL-4-3-LX031H */
/* COPY 0: M16-5-3-9:CLKSEL0 */
/* COPY 1: M16-4-3-9:CLKSEL0 */
/* STM1 RAIL */
/* Copy 0: CDB-5-3-1:CLKSELSAM */
/* Copy 1: CDB-5-3-2:CLKSELOPP */
/* Copy 0: CDB-4-3-1:CLKSELSAM */
/* Copy 1: CDB-4-3-2:CLKSELOPP */
/* Copy 0: CDA-5-3-1 */
/* Copy 1: CDA-4-3-1 */
/* COPY 0: CBL-5-3-UX041A */
/* COPY 1: CBL-4-3-UX041A */
/* COPY 0: CBL-2-3-UX031C */
/* COPY 1: CBL-3-3-UX031C */
/* COPY 0: M40-2-3-1:CLKSEL0 */
/* COPY 1: M40-3-3-1:CLKSEL0 */
/* STM1 LOF, STM1 OF */
/* Copy 0: CDB-2-3-1:CLKSELSAM */
/* Copy 1: CDB-2-3-2:CLKSELOPP */
/* Copy 0: CDB-3-3-1:CLKSELSAM */
/* Copy 1: CDB-3-3-2:CLKSELOPP */
/* Copy 0: MCB-2-3-1 */
/* Copy 1: MCB-3-3-1 */
/* COPY 0: CBL-2-3-UX031E */
/* COPY 1: CBL-3-3-UX031E */
/* COPY 0: CBL-5-3-LX101A */
/* COPY 1: CBL-4-3-LX101A */
/* COPY 0: M16-5-3-13:CLKSEL0 */
/* COPY 1: M16-4-3-13:CLKSEL0 */
/* Copy 0: CDB-5-3-1:CLKSELSAM */
/* Copy 1: CDB-5-3-2:CLKSELOPP */
/* Copy 0: CDB-4-3-1:CLKSELSAM */
/* Copy 1: CDB-4-3-2:CLKSELOPP */
/* Copy 0: CDA-5-3-1 */
/* Copy 1: CDA-4-3-1 */
```



```
/* COPY 0: CBL-5-3-LX101E */  
/* COPY 1: CBL-4-3-LX101E */  
/* COPY 0: CBL-8-1-XA150C */  
/* COPY 1: CBL-8-1-XA250E */  
/* COPY 0: IPB-8-1-1:CLKSEL0 */  
/* COPY 1: IPB-8-1-2:CLKSEL0 */  
/* Copy 0: CDB-8-1-1:CLKSELSAM */  
/* Copy 1: CDB-8-1-2:CLKSELOPP */  
/* EP3-8-1-6:CLKSEL0 */  
/* COPY1 CID */  
/* TO T3: T3-1167,PATH=0:DATASEL0 */  
/* FLTLOC-PATH-T3::EC1STS1-195,T3-1167 [Pad569] (3) */  
;
```

RELATED COMMANDS

DGN-EQPT
DLT-EQPT
ED-EQPT
ENT-CRS-T3
ENT-EQPT
FLTLOC-PATH-STs1
OPR-ISGLP-T1
OPR-ISGLP-T3
RLS-ISGLP-T1
RLS-ISGLP-T3
RMV-EQPT
RST-EQPT
RTRV-CRS
RTRV-CRS-T3
RTRV-DGN-STATUS
RTRV-EQPT
RTRV-FL-EQPT
RTRV-PATH-STs1
RTRV-PATH-T3
RTRV-STATE-EQPT
RTRV-T3
RTRV-XIDMISM

COMMAND CODE: **FLTLOC-PATH-VT1**
COMMAND NAME: **FAULT LOCATE PATH VT1**

PURPOSE

The FLTLOC-PATH-VT1 command collects, analyzes, and displays fault isolation data pertaining to the redundant internal paths through the system for the cross-connection or maintenance loopback (refer to OPR-ISGLP-VT1 and OPR-ISGLP-STs1) specified by the FROM and TO VT1.5 AIDs.

The redundant internal paths through the system that are reported are the paths from the specified FROM AID to the specified TO AID. FLTLOC-PATH-VT1 does not report on the paths through the system from the specified TO AID to the specified FROM AID for a two-way cross-connection.

To execute a FLTLOC-PATH-VT1 command, the specified FROM and TO VT1.5 ports must identify a VT1.5 one-way or two-way cross-connection (a VT1.5 SST of ACT or BUSY and cross-connected together) or a maintenance loopback connection (a VT1.5 SST of UAS&MT&LPBK and the FROM and TO ports are identical).

The successful response to a FLTLOC-PATH-VT1 command contains several lines of non-parsable output data, with each line of output identifying an element of the copy 0 or copy 1 clock and data paths through the system, and any associated fault isolation data, pertaining to the indicated entity. In addition, zero, one, or more lines of error information may be included for each element of the clock and data paths, except for the FROM and TO VT1.5 port lines. Refer to the Successful Response Format, below.

A FLTLOC-PATH-VT1 command is denied if:

- The FROM and TO VT1.5 AIDs do not identify either a one-way or two-way cross-connection (a VT1.5 SST of ACT or BUSY and cross-connected together), or a maintenance loopback connection (a VT1.5 SST of UAS&MT&LPBK and the FROM and TO ports are identical).
- An invalid parameter value is entered.

INPUT FORMAT

FLTLOC-PATH-VT1 : [TID] : FROM, TO : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
FROM	VT1_AID: {EC1VT1-{1-3840}-{1-7}-{1-4}} (EC1VT1-EC1/STS1#-VTGrp#-VT1.5#) {OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}} (OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#) {OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}} (OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#) Default: Entry Required Addressing: None Description: VT1 AID, specifies the VT1.5 port in a cross-connection or loopback that is the beginning of the internal system path to be analyzed.
TO	VT1_AID: {EC1VT1-{1-3840}-{1-7}-{1-4}} (EC1VT1-EC1/STS1#-VTGrp#-VT1.5#) {OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}} (OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#) {OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}} (OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#) Default: Entry Required Addressing: None Description: VT1 AID, specifies the VT1.5 port in a cross-connection or loopback that is the end of the internal system path to be analyzed.

CTAG	< 1-6 VALID CTAG CHARACTERS >
Default:	< System assigned CTAG value >
Addressing:	None
Description:	Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
/* From VT1.5: <FROM> */
/* <EQPT_AID>[:<DATA>] */
[/* <ERROR_INFO>[, <ERROR_INFO>] ... [, <ERROR_INFO>] */]
/* Copy 0: <EQPT_AID>[:<DATA>] */
[/* <ERROR_INFO>[, <ERROR_INFO>] ... [, <ERROR_INFO>] */]
/* Copy 1: <EQPT_AID>[:<DATA>] */
[/* <ERROR_INFO>[, <ERROR_INFO>] ... [, <ERROR_INFO>] */]
....
/* Copy 0: <EQPT_AID>[:<DATA>] */
[/* <ERROR_INFO>[, <ERROR_INFO>] ... [, <ERROR_INFO>] */]
/* Copy 1: <EQPT_AID>[:<DATA>] */
[/* <ERROR_INFO>[, <ERROR_INFO>] ... [, <ERROR_INFO>] */]
/* <EQPT_AID>[:<DATA>] */
[/* <ERROR_INFO>[, <ERROR_INFO>] ... [, <ERROR_INFO>] */]
/* To VT1.5: <TO>[:<DATA>] */
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

FROM	VT1_AID:	
	{EC1VT1-{1-3840}-{1-7}-{1-4}}	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)
	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)
	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	
	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)	
	VT1 AID, identifies the FROM port.	

EQPT_AID EQUIPMENT_AID:

{CBL-{6-9, 12-15, 18-21, 24-43, 112-135}-{1, 3}-
{XA150B-XA150H, XA150J, XA250B-XA250H, XA250J,
J1000A-J1000H, J2000A-J2000H},
CBL-{2, 3}-{1, 3}-
{LX031B-LX031H, LX031J, UX031B-UX031H, UX031J,
LX051B-LX051H, LX051J, UX051B-UX051H, UX051J,
LX071B-LX071H, LX071J, UX071B-UX071H, UX071J,
LX091B-LX091H, LX091J, UX091B-UX091H, UX091J,
LX111B-LX111H, LX111J, UX111B-UX111H, UX111J,
LX131B-LX131H, LX131J, UX131B-UX131H, UX131J,
LX151B-LX151H, LX151J, UX151B-UX151H, UX151J,
LX171B-LX171H, LX171J, UX171B-UX171H, UX171J},
CBL-{4, 5, 10, 11, 16, 17, 22, 23}-{1,3}-
{LX031B, LX031C, LX031H, UX031B, UX031C, UX031H,
LX041A-LX041H, LX041J, UX041A-UX041H, UX041J,
LX051C, LX051H, LX051J, UX051C, UX051H, UX051J,
LX061B, LX061C, LX061H, UX061B, UX061C, UX061H,
LX071A-LX071H, LX071J, UX071A-UX071H, UX071J,
LX081C, LX081H, LX081J, UX081C, UX081H, UX081J,
LX091D, LX091E, LX091F, UX091D, UX091E, UX091F,
LX101A-LX101H, LX101J, UX101A-UX101H, UX101J,
LX111E, LX111F, LX111G, UX111E, UX111F, UX111G,
LX121D, LX121E, LX121F, UX121D, UX121E, UX121F,
LX131A-LX131H, LX131J, UX131A-UX131H, UX131J,
LX141E, LX141F, LX141G, UX141E, UX141F, UX141G},
CBL-{4, 5, 10, 11, 16, 17, 22, 23}-1-
{J1000A-J1000H, J1002A-J1002H, J1004A-J1004H, J1006A-J1006H,
J2001A-J2001H, J2003A-J2003H, J2005A-J2005H,
XA01B-XA01H, XA01J, XA03B-XA03H, XA03J,
XA05B-XA05H, XA05J, XA07B-XA07H, XA07J,
XA10B-XA10H, XA10J, XA12B-XA12H, XA012J,
XA14B-XA14H, XA14J},
CBL-{44-63}-{1-4}-{1J1RX, 1J1TX, 2J1RX, 2J1TX},
CBL-{6-8, 12-14}-{1, 3}-
{1J1RX, 1J1TX, 1J2RX, 1J2TX, 3J1RX, 3J1TX, 3J2RX, 3J2TX,
5J1RX, 5J1TX, 5J2RX, 5J2TX, 7J1RX, 7J1TX, 7J2RX, 7J2TX,
XA150B, XA151B, XA152B, XA153B, XA150D, XA151D, XA152D, XA153D,
XA250B, XA251B, XA252B, XA253B, XA250D, XA251D, XA252D, XA253D}
CBL-{9}-3-{1J1RX, 1J1TX, 1J2RX, 1J2TX, 3J1RX, 3J1TX, 3J2RX, 3J2TX,
5J1RX, 5J1TX, 5J2RX, 5J2TX, 7J1RX, 7J1TX, 7J2RX, 7J2TX,
XA150B, XA151B, XA152B, XA153B, XA150D, XA151D, XA152D, XA153D,
XA250B, XA251B, XA252B, XA253B, XA250D, XA251D, XA252D, XA253D},
CBL-{15}-1-{1J1RX, 1J1TX, 1J2RX, 1J2TX, 3J1RX, 3J1TX, 3J2RX, 3J2TX,
5J1RX, 5J1TX, 5J2RX, 5J2TX, 7J1RX, 7J1TX, 7J2RX, 7J2TX,
XA150B, XA151B, XA152B, XA153B, XA150D, XA151D, XA152D, XA153D,
XA250B, XA251B, XA252B, XA253B, XA250D, XA251D, XA252D, XA253D}}
{CDA-{4, 5, 10, 11, 16, 17, 22, 23, **102, 103**}-3-1}
{CDB-{5}-{1, 3}-{1, 2}}
CDB-{2-43,**104-111**,112-135,**136-141**}-{1, 3}-{1, 2}
{SI36: CDB-{6-9, 12-15, 18-21, 24-43}-{1, 3}-{1-2},
{SI48: CDB-{2-43,**104-111**,112-135,**136-141**}-{1, 3}-{1, 2}
{SI48: EOB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2},
EOC: EOB-{4-5, 10-11, 16-17, 22-23, **102, 103**}-1-{1-7, 9-15}}
{SI48: EP3-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42,

104–106,108–110, 136–141}–{1, 3}–{1–18},
 EP3–{9, 21, 35, 43, **107}**–3–{1–18},
 EP3–{15, 27, 31, 39, **111}**–1–{1–18}}
 {SI36: EP3–{6–8, 12–14}–{1, 3}–{1–14},
 EP3–9–3–{1–14},
 EP3–15–1–{1–14}}
 {SI48: ES1–{6–8, 12–14, 18–20, 24–26, 28–30, 32–34, 36–38, 40–42,
104–106,108–110,136–141}–{1, 3}–{1–18},
 ES1–{9, 21, 35, 43,**107}**–3–{1–18},
 ES1–{15, 27, 31, 39,**111}**–1–{1–18}}
 {SI36: ES1–{6–8, 12–14}–{1, 3}–{1–14},
 ES1–9–3–{1–14},
 ES1–15–1–{1–14}}
 {IOB–{6–8, 12–14}–{1, 3}–{1, 3, 5, 7},
 IOB–9–3–{1, 3, 5, 7},
 IOB–15–1–{1, 3, 5, 7}}
 {IPB–{6–9, 12–15, 18–21, 24–43, **104–111, 112–135, 136–141}**–{1, 3}–{1–2}}
 {M16–{2–5, 10–11, 16–17, 22–23}–3–{1–16}}
 {M32–{4–5, 10–11, 16–17, 22–23, **102, 103}**–3–{1–16},
 M32–{5}–{1, 3}–{1–3, 6–8}}
 {M40–{2–3}–{1, 3}–{1–16}}
 {M40–{5}–{1, 3}–{4, 5, 9, 10}}
 {MCB–{2,3}–3–1}
 {MCB–{5}–{1, 3}–{1}}
 {O1B–{6–9, 12–15, 18–21, 24–43, **104–111, 112–135, 136–141}**–{1, 3}–{2–9, 11–18}}
 {O4M–{6–9, 12–15, 18–21, 24–43, **104–111, 112–135, 136–141}**–{1, 3}–{2–3, 11–12}}
 {RPB–{6–9, 12–15, 18–21, 24–43, **104–111, 112–135, 136–141}**–{1, 3}–{1–2}}
 {S3M–{6–9, 12–15, 18–21, 24–43, **104–111, 112–135, 136–141}**–{1, 3}–{4–9, 13–18}}
 Equipment AID, identifies the I/O, matrix, clock and cable entities associated with the redundant internal system paths from the FROM port to the TO port.

DATA

{ALM, CLKSEL0, CLKSEL1, CLKSELOPP, CLKSELREC, CLKSELSAM, CULPRIT, DATASEL0, DATASEL1, DEO, DIO, DMX, DS, DUEO, DUIO, DUMX, FEO, FIO, FMX, FS, FUEO, FUIO, FUMX, HW, MT, OOS, TEO, TIO, TMX, TS, TUEO, TUIO, TUMX, fault data not received from <L2P EQPT AID>, not responding}
 Fault Location Data, indicates pertinent fault location information concerning the identified equipment entity. If a fault condition exists, one or more of the following values, separated by a comma, are displayed:

ALM	Alarmed, the indicated equipment entity is alarmed.
CLKSEL0	Copy 0 Clock Selected, the indicated circuit pack is selecting the copy 0 clock.
CLKSEL1	Copy 1 Clock Selected, the indicated circuit pack is selecting the copy 1 clock.
CLKSELOPP	Opposite copy of Clock Selected, the indicated circuit pack is selecting the opposite copy of clock.
CLKSELREC	Recovered Clock Selected, the indicated circuit pack is selecting the recovered clock.
CLKSELSAM	Same copy of Clock Selected, the indicated circuit pack is selecting the same copy of clock.
CULPRIT	Culprit, the indicated equipment entity is the source of the fault.
DATASEL0	Copy 0 matrix Data Selected by the indicated TO port.
DATASEL1	Copy 1 matrix Data Selected by the indicated TO port.
DEO	Data Electrical/Optical, a data error at the electrical-to–

DIO	optical side of the indicated equipment entity is detected. Data Input/Output, a data error at the I/O side of the indicated equipment entity is detected.
DMX	Data Matrix, a data error at the matrix side of the indicated equipment entity is detected.
DS	Data Suspect, the indicated equipment entity may be the source of the data errors.
DUEO	Data Upstream Electrical/Optical, a data error upstream from the electrical-to-optical side of the indicated equipment entity is detected.
DUIO	Data Upstream Input/Output, a data error upstream from the I/O side of the indicated equipment entity is detected.
DUMX	Data Upstream Matrix, a data error upstream from the matrix side of the indicated equipment entity is detected.
FEO	Facility Electrical/Optical, a facility failure at the electrical-to-optical side of the indicated equipment entity is detected.
FIO	Facility Input/Output, a facility failure at the I/O side of the indicated equipment entity is detected.
FMX	Facility Matrix, a facility failure at the matrix side of the indicated equipment entity is detected.
FS	Facility Suspect, the indicated equipment entity may be the source of the facility failures.
FUEO	Facility Upstream Electrical/Optical, a facility failure upstream from the electrical-to-optical side of the indicated equipment entity is detected.
FUIO	Facility Upstream Input/Output, a facility failure upstream from the I/O side of the indicated equipment entity is detected.
FUMX	Facility Upstream Matrix, a facility failure upstream from the matrix side of the indicated equipment entity is detected.
HW	Hardware, a hardware fault on the indicated equipment entity is detected.
MT	Maintenance, the indicated equipment entity has an SST of MT.
OOS	Out-of-Service, the indicated equipment entity is OOS.
TEO	Timing Electrical/Optical, a timing error at the electrical-to-optical side of the indicated equipment entity is detected.
TIO	Timing Input/Output, a timing error at the I/O side of the indicated equipment entity is detected.
TMX	Timing Matrix, a timing error at the matrix side of the indicated equipment entity is detected.
TS	Timing Suspect, the indicated equipment entity may be the source of the timing errors.
TUEO	Timing Upstream Electrical/Optical, a timing error upstream from the electrical-to-optical side of the indicated equipment entity is detected.
TUIO	Timing Upstream Input/Output, a timing error upstream from the I/O side of the indicated equipment entity is detected.
TUMX	Timing Upstream Matrix, a timing error upstream from the matrix side of the indicated equipment entity is detected.

fault data not received
from <L2P EQPT AID> The supporting Level 2 Processor did not respond.
not responding The indicated equipment entity is not OOS and no response from the entity was received.

ERROR_INFO {CID, CONN RAM, COPY0 ASYMAIS, COPY0 CID, COPY0 FPE, COPY0 PBIT, COPY0 STM1 LOF, COPY0 STM1 LOSSYNC, COPY0 STM1 RAIL, COPY0 WPE, COPY1 ASYMAIS, COPY1 CID, COPY1 FPE, COPY1 PBIT, COPY1 STM1 LOF, COPY1 STM1 LOSSYNC, COPY1 STM1 RAIL, COPY1 WPE, DS3/STS1 LOA, DS3/STS1 LOF, DS3/STS1 LOS, DS3/STS1 RCLK, OC3 AIS, OC3 LOA, OC3 LOF, OC3 LOS, OC12 AIS, OC12 LOA, OC12 LOF, OC12 LOS, PATH NOT SELECTED, STM1 LOF, STM1 LOSSYNC, STM1 OF, STM1 RAIL, STM1 SPILL, STM1 UF, STM4 B1, STM4 CABLE DELAY, STM4 DXCLK, STM4 DXSPILL, STM4 LOF, STM4 LOS, STM4 MXCLK, STM4 MXSPILL, STS3C/STS1 AIS, STS3C/STS1 LOP, VT1 AIS, VT1 LOP, XMIT LASER OFF}

Equipment Error Information, indicates additional error information detected by the system pertaining to the equipment AID identified in the output line above this line and the specified path through the system. Multiple lines of <ERROR_INFO> may be displayed, with multiple values of <ERROR_INFO>, separated by a comma, per line.

CID	Connect IDentification error detected.
CONN RAM	Connection RAM error detected.
COPY0 ASYMAIS	Asymmetrical AIS. AIS detected on Copy 0 signal and not on Copy1
COPY0 CID	Connect IDentification error detected on Copy 0 signal.
COPY0 FPE	Frame Parity Error detected on Copy 0 signal.
COPY0 PBIT	Parity Bit Error detected on Copy 0 signal.
COPY0 STM1 LOF	Loss of Frame detected on STM1 Copy 0 signal.
COPY0 STM1 LOSSYNC	Loss of Synchronization pulse detected on STM1 Copy 0 signal.
COPY0 STM1 RAIL	Lower or upper limit delay Rail detected on STM1 Copy 0 signal.
COPY0 WPE	Word Parity Error detected on Copy 0 signal.
COPY1 ASYMAIS	Asymmetrical AIS. AIS detected on Copy 1 signal and not on Copy1
COPY1 CID	Connect IDentification error detected on Copy 1 signal.
COPY1 FPE	Frame Parity Error detected on Copy 1 signal.
COPY1 PBIT	Parity Bit Error detected on Copy 1 signal.
COPY1 STM1 LOF	Loss of Frame detected on STM1 Copy 1 signal.
COPY1 STM1 LOSSYNC	Loss of Synchronization pulse detected on STM1 Copy 1 signal.
COPY1 STM1 RAIL	Lower or upper limit delay Rail detected on STM1 Copy 1 signal.
COPY1 WPE	Word Parity Error detected on Copy 1 signal.
DS3/STS1 LOA	Loss of Activity detected on DS3/STS-1.
DS3/STS1 LOF	Loss of Frame detected on DS3/STS-1.
DS3/STS1 LOS	Loss of Signal detected on DS3/STS-1.
DS3/STS1 RCLK	Loss of Recovered Clock detected on DS3/STS-1.
OC3 AIS	AIS signal detected on OC3 signal.
OC3 LOA	Loss of Activity detected on OC3.
OC3 LOF	Loss of Frame detected on OC3.
OC3 LOS	Loss of Signal detected on OC3.
OC12 AIS	AIS signal detected on OC-12 signal.
OC12 LOA	Loss of Activity detected on OC-12.
OC12 LOF	Loss of Frame detected on OC-12.

OC12 LOS	Loss of Signal detected on OC-12.
PATH NOT SELECTED	Specified path is not selected.
STM1 LOF	Loss of Frame detected on STM1 signal.
STM1 LOSSYNC	Loss of Synchronization pulse detected on STM1.
STM1 OF	Over-Flow buffer spill detected on STM1 signal.
STM1 RAIL	Lower or upper limit delay Rail detected on STM1.
STM1 SPILL	Buffer Spill detected on STM1 signal.
STM1 UF	Under-Flow buffer spill detected on STM1 signal.
STM4 B1	B1 error detected on STM4 signal.
STM4 CABLE DELAY	Cable Delay error detected on STM4 signal.
STM4 DXCLK	Demux Clock error detected on STM4 signal.
STM4 DXSPILL	Demux Clock Spill detected on STM4 signal.
STM4 LOF	Loss of Frame detected on STM4 signal.
STM4 LOS	Loss of Signal detected on STM4 signal.
STM4 MXCLK	Mux Clock error detected on STM4 signal.
STM4 MXSPILL	Mux Clock Spill detected on STM4 signal.
STS3C/STS1 AIS	AIS signal detected on STS3C/STS1 signal.
STS3C/STS1 LOP	Loss of Pointer detected on STS3C/STS1 signal.
VT1 AIS	AIS signal detected on VT1.5 signal.
VT1 LOP	Loss of Pointer detected on VT1.5 signal.
XMIT LASER OFF	EOB, IOB, or OXB Transmit Laser has been turned off.

TO VT1_AID:
 {EC1VT1-{1-3840}-{1-7}-{1-4}} (EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)
 {OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}} (OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)
 {OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}
 (OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)
 VT1 AID, identifies the TO VT1.5 port.

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid /* Both FROM and TO facility must be VT1 AID. */
IIAC	Input, Invalid ACcess identifier /* Invalid FROM AID entered. */ /* Invalid TO AID entered. */
SARB	Status, All Resources Busy /* Too many FLTLOC-PATH commands already in progress. */

SDBE Status, internal Data Base Error

/* Failed to get FROM TP DB record <TP record number> error <errnum>. */
/* Failed to get TO TP DB record <TP record number> error <errnum>. */
/* Unable to get connection pointer for TP type <TP type>, TP num <TP number>, error
 <errnum>. */
/* TPid to first stage Tmsl conversion error <error number>. */
/* TPid to third stage Tmsl conversion error <error number>. */
/* Tmsl Path Retrieve error <error number>. */
/* Path not found. */
/* Unable to retrieve <FROM AID> level 2 processor id. */
/* Unable to retrieve <TO AID> level 2 processor id. */
/* Unable to retrieve inbound EOB entry for EOC shelf copy <copy number>. */
/* Unable to retrieve shelf entry for first stage copy <copy number> <SPB AID>. */
/* Unable to retrieve shelf entry for center stage copy <copy number> <SPB AID>. */
/* Unable to retrieve shelf entry for third stage copy <copy number> <SPB AID>. */
/* Unable to retrieve outbound EOB entry for EOC shelf copy <copy number>. */
/* Unable to create FLTLOC-PATH report file. */
/* Unable to open FLTLOC-PATH report file. */
/* Error reading matrix cable input database for bay <bay number> shelf <shelf number>.
 */
/* Error reading eoc to es1 cable database for cable <cable number>. */
/* Error reading es1 to cs cable database for cable <cable number>. */
/* Error reading cs to es3 cable database for cable <cable number>. */
/* Error reading matrix cable output database for cable <cable number>. */
/* Error reading eoc to i/o cable database for cable <cable number>. */
/* Unable to print FLTLOC-PATH report file. */
/* Unable to convert card_type <card type number>, card_num <card number>, l2p_id
 <level two processor number> to AID */

SNVS Status, Not in Valid State

/* FROM AID not as provisioned. */
/* TO AID not as provisioned. */
/* FROM AID must be in a provisioned or maintenance state. */
/* TO AID must be in a provisioned or maintenance state. */
/* Cross connection does not exist between FROM and TO AIDs. */

SROF Status, Requested Operation Failed

```
/* Hardware provisioning in progress. Try again later. */
/* Unable to convert FROM AID to string, error <error number>. */
/* Unable to convert TO AID to string, error <error number>. */
/* Unable to access memory for FI auxiliary data. */
/* Unable to convert <FROM AID> to global TP id, error <error number>. */
/* Unable to convert <TO AID> to global TP id, error <error number>. */
/* Invalid level 2 processor type (<level two processor type number>) encountered for
   <FROM AID>. */
/* Invalid level 2 processor type (<level two processor type number>) encountered for
   <TO AID>. */
/* Unable to convert the FROM TP type (<TP type number>) to a string error <error num-
   ber>. */
/* Unable to convert the TO TP type (<TP type number>) to a string error <error number>.
   */
/* Unable to compute matrix input cable number for <FROM AID>. */
/* Unable to compute matrix input cable number for <TO AID>. */
/* Unable to retrieve first stage copy <copy number> SPB id, error <error number>. */
/* Unable to retrieve first stage copy <copy number> shelf timeslot, error <error number>.
   */
/*Unable to determine first stage card type for bay <bay number> shelf <shelf number>
   slot <slot number>.*
/* Unable to retrieve center stage copy <copy number> SPB id, error <error number>. */
/* Unable to retrieve center stage copy <copy number> shelf timeslot, error <error num-
   ber>. */
/*Unable to determine center stage card type for bay <bay number> shelf <shelf number>
   slot <slot number>.*
/* Unable to retrieve third stage copy <copy number> SPB id, error <error number>. */
/* Unable to retrieve third stage copy <copy number> shelf timeslot, error <error number>.
   */
/*Unable to determine third stage card type for bay <bay number> shelf <shelf number>
   slot <slot number>.*
/* Unable to send fault locate path message to ACL for <SPB AID>. */
/* Unable to send fault locate path message to ACL for <IPU AID>. */
/* Unable to queue FI auxiliary buffer for fault locate path request. */
/* Invalid matrix copy (<copy number>) returned in response message from <SPB
   AID>. */
/* Unable to re-queue FI auxiliary buffer for fault locate path request. */
/* I/O IPU response not received for <FROM AID> from <IPU AID>. */
/* I/O IPU response not received for <TO AID> from <IPU AID>. */
/* The FLTLOC-PATH-VT1 for <FROM AID>,<TO AID> was aborted. */
/* Did not receive a response for message sent to <SPB AID>. */
/* Did not receive a response for message sent to <IPU AID>. */
/* Cross connect path has been re-arranged during execution of this command. */
/* Invalid FROM subrack type (<subrack type number>) encountered. */
/* Invalid matrix interface (<matrix interface type number>) encountered for <FROM
   AID>. */
/* Invalid matrix interface (<matrix interface type number>) encountered for <TO
   AID>. */
/*Cross connect type has been changed during execution of this command.*
```

EXAMPLES

In the following example, fault isolation information for the path between VT1.5 port EC1VT1-195-1-2 and VT1.5 port EC1VT1-217-2-2 is retrieved.

```
FLTLOC-PATH-VT1::EC1VT1-195-1-2,EC1VT1-217-2-2;
```

The output response, shown below, assumes CID 3 was used to enter the command and a system generated CTAG value of Pad569. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pad569 COMPLD
/* FROM VT1: EC1VT1-195-1-2 */
/* EP3-8-1-2:HW,ALM,CLKSEL0 */
/* Copy 0: CDB-8-1-1:CLKSELSAM */
/* Copy 1: CDB-8-1-2:OOS */
/* Copy 0: IPB-8-1-1:CLKSEL0 */
/* Copy 1: IPB-8-1-2:TMX,TUMX,CLKSEL0 */
/* COPY 0: CBL-8-1-XA150F */
/* COPY 1: CBL-8-1-XA250H */
/* COPY 0: CBL-5-3-LX031H */
/* COPY 1: CBL-4-3-LX031H */
/* COPY 0: M16-5-3-9:CLKSEL0 */
/* COPY 1: M16-4-3-9:CLKSEL0 */
/* STM1 RAIL */
/* Copy 0: CDB-5-3-1:CLKSELSAM */
/* Copy 1: CDB-5-3-2:CLKSELOPP */
/* Copy 0: CDB-4-3-1:CLKSELSAM */
/* Copy 1: CDB-4-3-2:CLKSELOPP */
/* Copy 0: CDA-5-3-1 */
/* Copy 1: CDA-4-3-1 */
/* COPY 0: CBL-5-3-UX041A */
/* COPY 1: CBL-4-3-UX041A */
/* COPY 0: CBL-2-3-UX031C */
/* COPY 1: CBL-3-3-UX031C */
/* COPY 0: M40-2-3-1:CLKSEL0 */
/* COPY 1: M40-3-3-1:CLKSEL0 */
/* STM1 LOF, STM1 OF */
/* Copy 0: CDB-2-3-1:CLKSELSAM */
/* Copy 1: CDB-2-3-2:CLKSELOPP */
/* Copy 0: CDB-3-3-1:CLKSELSAM */
/* Copy 1: CDB-3-3-2:CLKSELOPP */
/* Copy 0: MCB-2-3-1 */
/* Copy 1: MCB-3-3-1 */
/* COPY 0: CBL-2-3-UX031E */
/* COPY 1: CBL-3-3-UX031E */
/* COPY 0: CBL-5-3-LX101A */
/* COPY 1: CBL-4-3-LX101A */
/* COPY 0: M16-5-3-14:CLKSEL0 */
/* COPY 1: M16-4-3-14:CLKSEL0 */
/* Copy 0: CDB-5-3-1:CLKSELSAM */
/* Copy 1: CDB-5-3-2:CLKSELOPP */
/* Copy 0: CDB-4-3-1:CLKSELSAM */
/* Copy 1: CDB-4-3-2:CLKSELOPP */
/* Copy 0: CDA-5-3-1 */
/* Copy 1: CDA-4-3-1 */
```

```

/* COPY 0: CBL-5-3-LX111E */
/* COPY 1: CBL-4-3-LX111E */
/* COPY 0: CBL-8-1-XA150D */
/* COPY 1: CBL-8-1-XA250B */
/* COPY 0: IPB-8-1-1:CLKSEL0 */
/* COPY 1: IPB-8-1-2:CLKSEL0 */
/* Copy 0: CDB-8-1-1:CLKSELSAM */
/* Copy 1: CDB-8-1-2:CLKSELOPP */
/* EP3-8-1-11:CLKSEL0 */
/* COPY1 CID */
/* TO VT1: EC1VT1-217-2-2:DATASEL0 */
/* FLTLOC-PATH-VT1::EC1VT1-195-1-2,EC1VT1-217-2-2 [Pad569] (3) */
;

```

In the following example, fault isolation information for the pass through connection path between VT1.5 port OC3VT1-65-2-1-1 and VT1.5 port OC3VT1-66-2-1-1 is retrieved.

FLTLOC-PATH-VT1::OC3VT1-65-2-1-1,OC3VT1-66-2-1-1;

The output response, shown below, assumes CID 3 was used to enter the command and a system generated CTAG value of Pad569. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```

<SID> <YY-MM-DD> <HH:MM:SS>
M Pad569 COMPLD
/* FROM VT1: OC3VT1-65-2-1-1 */
/* O1B-8-1-2:HW,ALM,CLKSEL0 */
/* Copy 0: CDB-8-1-1:CLKSELSAM */
/* Copy 1: CDB-8-1-2:CLKSELOPP */
/* Copy 0: RPB-8-1-1:CLKSEL0 */
/* Copy 1: RPB-8-1-2:TMX,TUMX,CLKSEL0 */
/* COPY 0: RPB-8-1-1:CLKSEL0 */
/* COPY 1: RPB-8-1-2:TMX,TUMX,CLKSEL0 */
/* Copy 0: CDB-8-1-1:CLKSELSAM */
/* Copy 1: CDB-8-1-2:CLKSELOPP */
/* O1B-8-1-3:CLKSEL0 */
/* COPY1 CID */
/* TO VT1: OC3VT1-66-2-1-1:DATASEL0 */
/* FLTLOC-PATH-VT1::OC3VT1-65-2-1-1,OC3VT1-66-2-1-1 [Pad569] (3) */
;

```

RELATED COMMANDS

DGN-EQPT
DLT-EQPT
ED-EQPT
ENT-CRS-VT1
ENT-EQPT
OPR-ISGLP-VT1
OPR-ISGLP-ST51
FLTLOC-PATH-T1
RLS-ISGLP-VT1
RLS-ISGLP-ST51
RMV-EQPT
RST-EQPT
RTRV-CRS
RTRV-CRS-VT1
RTRV-DGN-STATUS
RTRV-EQPT
RTRV-FL-EQPT
RTRV-PATH-T1
RTRV-PATH-VT1
RTRV-STATE-EQPT
RTRV-VT1
RTRV-XIDMISM

COMMAND CODE: **INH-CBIT-T1**
COMMAND NAME: **INHIBIT CBIT T1**

PURPOSE

The INH-CBIT-T1 command disables a received C-bit loop back request in the supporting DS2 signal from causing a DS1 loop back of the specified embedded DS1.

Successful execution of an INH-CBIT-T1 command also releases any existing C-bit loopback caused by a received C-bit loop back request in the supporting DS2 signal.

Executing an INH-CBIT-T1 clears an ALWCBLPBK condition type, and any RCVCBLPBK condition type that may exist, for the specified DS1.

An INH-CBIT-T1 command is denied if:

- The specified DS1 port is not provisioned.
- C-bit loop back is not enabled for the specified DS1 port (ALWCBLPBK condition type is not set).
- The specified DS1 port is either embedded within VT1.5 or is an electrical (stand-alone) DS1.
- An invalid parameter value is entered.

INPUT FORMAT

INH-CBIT-T1 : [TID] : AID : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >		
	Default:	<SID>	
	Addressing:	None	
	Description:	Target Identifier, specifies the network node TID for the command.	
AID	DS1_AID:		
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)	
	{EC1T1-{1-3840}-{1-28}}	(EC1T1-EC1/STS1/DS3#-DS1#)	
	{OC3T1-{1-2240}-{1-3}-{1-28}}	(OC3T1-OC3#-STS1/DS3#-DS1#)	
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}	(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)	
	Default:	Entry Required	
	Addressing:	&&-ranging and &-grouping	
	Description:	DS1 AID, identifies the DS1 port.	
CTAG	< 1-6 VALID CTAG CHARACTERS >		
	Default:	< System assigned CTAG value >	
	Addressing:	None	
	Description:	Correlation Tag, associates input command with its output responses.	

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
SAIN	Status, Already INhibited /* Cbit already inhibited */
SDBE	Status, internal Data Base Error /* <DATABASE TYPE> Database Error: <STATUS> for <AID STRING> */
SNVS	Status, Not in Valid State /* Port is unprovisioned */
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, INH-CBIT-T1 disables any automatic loop back on DS1 port T3T1-1009-5 that would occur if a C-bit loop back request is received in the supporting DS2 signal.

```
INH-CBIT-T1::T3T1-1009-5;
```

RELATED COMMANDS

```
ALW-CBIT-T1  
RTRV-COND-ALL  
RTRV-COND-T1
```


COMMAND CODE: **INH-FL-EQPT**
COMMAND NAME: **INHIBIT FAULT LOCATION EQUIPMENT**

PURPOSE

The INH-FL-EQPT command disables (inhibits) fault location (isolation) data collection and updating of the system's fault isolation database and disables the setting and clearing of equipment INTERR condition types. When INH-FL-EQPT is executed, the system's fault isolation database is no longer updated with any changes in equipment status that occurs until re-enabled (via the ALW-FL-EQPT command). As a result, INTERR condition types that subsequently occur are not set and INTERR condition types that no longer exist are not cleared. Executing an INH-FL-EQPT command also sets an INHFL condition type.

An INH-FL-EQPT command is denied if:

- Fault location data collection is already disabled/inhibited.
- An invalid parameter value is entered.

INPUT FORMAT

INH-FL-EQPT: [TID] : [AID] : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	EQUIPMENT_AID {ALL} Default: {ALL} Addressing: None Description: Equipment AID. ALL is the only entry accepted by the system.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* The INH-FL-EQPT completed. */]
  [/* Fault isolation inhibited. */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

ENRE	Equipage, Not Recognized Equipage /*The command was rejected. */ /* Invalid or unassigned equipment identifier specified. */
ICNV	Input, Command Not Valid /* Invalid command requested on equipment. */
IPNV	Input, Parameter Not Valid /* The INH-FL-EQPT was rejected. */ /* Invalid or unassigned equipment identifier specified. */
SAIN	Status, Already INhibited /* The INH-FL-EQPT was rejected. */ /* Fault isolation already inhibited. */
SDBE	Status, internal Data Base Error /* The INH-FL-EQPT aborted due to system error. */ /* Error reading system configuration data base. */ /* Error updating system configuration data base. */

EXAMPLES

In the following example, updating of the system's fault isolation data base and the setting and clearing of equipment INTERR condition types is disabled.

```
INH-FL-EQPT;
```

RELATED COMMANDS

```
ALW-FL-EQPT  
DGN-EQPT  
FLTLOC-PATH-STs1  
FLTLOC-PATH-STs3C  
FLTLOC-PATH-T1  
FLTLOC-PATH-T3  
FLTLOC-PATH-VT1  
RTRV-DGN-STATUS  
RTRV-EQPT  
RTRV-FL-EQPT  
RTRV-PATH-STs1  
RTRV-PATH-STs3C  
RTRV-PATH-T1  
RTRV-PATH-T3  
RTRV-PATH-VT1  
RTRV-STATE-EQPT  
RTRV-XIDMISM
```

COMMAND CODE: **INH-PMREPT-EC1**
COMMAND NAME: **INHIBIT PERFORMANCE MONITORING
REPORT EC1**

PURPOSE

The INH-PMREPT-EC1 command inhibits scheduled PM reporting (using the scheduled REPT^PM^EC1 message and binary PM report through RS-232) for the specified EC1 port.

Execution of an INH-PMREPT-EC1 command does not discontinue the collection of PM data for the specified EC1 port and the collected PM data can be retrieved with a RTRV-PM-EC1 command.

If NUMREPT (using SET-DFLTPMREPT-EC1) is any value other than {0} or {NULL}, it will still be decremented even while scheduled PM reporting is inhibited.

Executing an INH-PMREPT-EC1 causes an INHPMREPT condition type to be set for the specified EC1.

An INH-PMREPT-EC1 command is denied if:

- The specified EC1 port is not provisioned (using ENT-EC1).
- PM reporting is already inhibited (a EC1 condition type of INHPMREPT is set) for the specified EC1.
- An invalid parameter value is entered.

INPUT FORMAT

INH-PMREPT-EC1 : [TID] : AID : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	EC1_AID: {EC1-{1-3840} } (EC1-EC1/STS1#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: EC1 AID, identifies the EC1 port.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

ICNV	Input, Command Not Valid /* Invalid command requested. */
IIAC	Input, Invalid ACcess identifier /* Invalid AID entered. */ /* AID not in Partition. */
SAIN	Status, Already INhibited /* PM report already inhibited. */
SDBE	Status, internal Data Base Error /* Error reading pm report database. */ /* Error updating pm report database. */ /* Failed to set pointer to FM EC1 record. */
SNVS	Status, Not in Valid State /* Facility is unprovisioned. */ /* AID not as provisioned. */
SROF	Status, Requested Operation Failed /* Unable to determine facility type. */

EXAMPLES

In the following example, the PM reporting for EC1 port EC1-198 is inhibited.

```
INH-PMREPT-EC1 : : EC1-198 ;
```

RELATED COMMANDS

```
ALW-PMREPT-EC1  
ENT-EC1  
RTRV-DFLTPMREPT-EC1  
RTRV-PMSCHED-ALL  
RTRV-PMSCHED-EC1  
SCHED-PMREPT-ALL  
SCHED-PMREPT-EC1  
SET-DFLTPMREPT-EC1
```

RELATED AUTONOMOUS RESPONSES

```
REPT^PM^EC1
```

COMMAND CODE: **INH-PMREPT-F3**
COMMAND NAME: **INHIBIT PERFORMANCE MONITORING
REPORT F3**

PURPOSE

The INH-PMREPT-F3 command inhibits scheduled PM reporting (using the scheduled REPT^PM^F3 message and binary PM report through RS-232) for the specified F3 port.

Execution of an INH-PMREPT-F3 command does not discontinue the collection of PM data for the specified F3 port and the collected PM data can be retrieved with a RTRV-PM-F3 command.

If NUMREPT (using SET-DFLTPMREPT-F3) is any value other than {0} or {NULL}, it will still be decremented even while scheduled PM reporting is inhibited.

Executing an INH-PMREPT-F3 causes an INHPMREPT condition type to be set for the specified F3.

An INH-PMREPT-F3 command is denied if:

- The specified F3 port is not provisioned (using ENT-F3).
- PM reporting is already inhibited (an F3 condition type of INHPMREPT is set) for the specified F3.
- An invalid parameter value is entered.

INPUT FORMAT

INH-PMREPT-F3 : [TID] : AID : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	F3_AID: {T3F3-{1-4800}-{1-14}} (T3F3-DS3#-Fractional_DS3#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: F3 AID, identifies the F3 port.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

ICNV	Input, Command Not Valid /* Invalid command requested. */
IIAC	Input, Invalid ACcess identifier /* Invalid AID entered. */ /* AID not in Partition. */
SAIN	Status, Already INhibited /* PM report already inhibited. */
SDBE	Status, internal Data Base Error /* Error reading pm report database. */ /* Error updating pm report database. */ /* Failed to set pointer to FM F3 record. */
SNVS	Status, Not in Valid State /* Facility is unprovisioned. */ /* AID not as provisioned. */
SROF	Status, Requested Operation Failed /* Unable to determine facility type. */

EXAMPLES

In the following example, the PM reporting for F3 port T3F3-5-4 is inhibited.

```
INH-PMREPT-F3 : T3F3-5-4 ;
```

RELATED COMMANDS

```
ALW-PMREPT-F3  
ENT-F3  
RTRV-DFLTPMREPT-F3  
RTRV-PMSCHED-ALL  
RTRV-PMSCHED-F3  
SCHED-PMREPT-ALL  
SCHED-PMREPT-F3  
SET-DFLTPMREPT-F3
```

RELATED AUTONOMOUS RESPONSES

```
REPT^PM^F3
```

COMMAND CODE: **INH-PMREPT-OC12**
COMMAND NAME: **INHIBIT PERFORMANCE MONITORING
REPORT OC-12**

PURPOSE

The INH-PMREPT-OC12 command inhibits scheduled PM reporting (using the scheduled REPT^PM^OC12 message and binary PM report through RS-232) for the specified OC-12 port.

Execution of an INH-PMREPT-OC12 command does not discontinue the collection of PM data for the specified OC-12 port and the collected PM data can be retrieved using a RTRV-PM-OC12 command.

If NUMREPT (using SET-DFLT-PMREPT-OC12) is any value other than {0} or {NULL}, it will still be decremented even while scheduled PM reporting is inhibited.

Executing an INH-PMREPT-OC12 causes an INH-PMREPT condition type to be set for the specified OC-12.

An INH-PMREPT-OC12 command is denied if:

- The specified OC-12 port is not provisioned (using ENT-OC12).
- PM reporting is already inhibited (an OC-12 condition type of INH-PMREPT is set) for the specified OC-12.
- An invalid parameter value is entered.

INPUT FORMAT

INH-PMREPT-OC12 : [TID] : AID : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	OC12_AID: {OC12-{1-560}} (OC12-OC12#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: OC12 AID, identifies the OC-12 port.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* <Command Echo> [<CTAG>] (<CID [-VCNUM] >) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID [-VCNUM] >) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

ICNV	Input, Command Not Valid /* Invalid command requested. */
IIAC	Input, Invalid ACcess identifier /* Invalid AID entered. */ /* AID not in Partition. */
SAIN	Status, Already INhibited /* PM report already inhibited. */
SDBE	Status, internal Data Base Error /* Error reading pm report database. */ /* Error updating pm report database. */ /* Failed to set pointer to FM OC12 record. */
SNVS	Status, Not in Valid State /* Facility is unprovisioned. */ /* AID not as provisioned. */
SROF	Status, Requested Operation Failed /* Unable to determine facility type. */

EXAMPLES

In the following example, the PM reporting for OC-12 port OC12-118 is inhibited.

```
INH-PMREPT-OC12 : OC12-118 ;
```

RELATED COMMANDS

```
ALW-PMREPT-OC12  
ENT-OC12  
RTRV-DFLTPMREPT-OC12  
RTRV-PMSCHED-ALL  
RTRV-PMSCHED-OC12  
SCHED-PMREPT-ALL  
SCHED-PMREPT-OC12  
SET-DFLTPMREPT-OC12
```

RELATED AUTONOMOUS RESPONSES

```
REPT^PM^OC12
```


COMMAND CODE: **INH-PMREPT-OC3**
COMMAND NAME: **INHIBIT PERFORMANCE MONITORING
REPORT OC-3**

PURPOSE

The INH-PMREPT-OC3 command inhibits scheduled PM reporting (using the scheduled REPT^PM^OC3 message and binary PM report through RS-232) for the specified OC-3 port.

Execution of an INH-PMREPT-OC3 command does not discontinue the collection of PM data for the specified OC-3 port and the collected PM data can be retrieved using a RTRV-PM-OC3 command.

If NUMREPT (using SET-DFLTPMREPT-OC3) is any value other than {0} or {NULL}, it will still be decremented even while scheduled PM reporting is inhibited.

Executing an INH-PMREPT-OC3 causes an INHPMREPT condition type to be set for the specified OC-3.

An INH-PMREPT-OC3 command is denied if:

- The specified OC-3 port is not provisioned (using ENT-OC3).
- PM reporting is already inhibited (an OC-3 condition type of INHPMREPT is set) for the specified OC-3.
- An invalid parameter value is entered.

INPUT FORMAT

INH-PMREPT-OC3 : [TID] : AID : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	OC3_AID: {OC3-{1-2240}} (OC3-OC3#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: OC3 AID, identifies the OC-3 port.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

ICNV	Input, Command Not Valid /* Invalid command requested. */
IIAC	Input, Invalid ACcess identifier /* Invalid AID entered. */ /* AID not in Partition. */
SAIN	Status, Already INhibited /* PM report already inhibited. */
SDBE	Status, internal Data Base Error /* Error reading pm report database. */ /* Error updating pm report database. */ /* Failed to set pointer to FM OC3 record. */
SNVS	Status, Not in Valid State /* Facility is unprovisioned. */ /* AID not as provisioned. */
SROF	Status, Requested Operation Failed /* Unable to determine facility type. */

EXAMPLES

In the following example, the PM reporting for OC-3 port OC3-118 is inhibited.

```
INH-PMREPT-OC3 : : OC3-118 ;
```

RELATED COMMANDS

```
ALW-PMREPT-OC3  
ENT-OC3  
RTRV-DFLTPMREPT-OC3  
RTRV-PMSCHED-ALL  
RTRV-PMSCHED-OC3  
SCHED-PMREPT-ALL  
SCHED-PMREPT-OC3  
SET-DFLTPMREPT-OC3
```

RELATED AUTONOMOUS RESPONSES

```
REPT^PM^OC3
```

COMMAND CODE: **INH-PMREPT-STs1**
COMMAND NAME: **INHIBIT PERFORMANCE MONITORING
REPORT STS-1**

PURPOSE

The INH-PMREPT-STs1 command inhibits scheduled PM reporting (using the scheduled REPT^PM^STs1 message and binary PM report through RS-232) for the specified STS-1 port.

Execution of an INH-PMREPT-STs1 command does not discontinue the collection of PM data for the specified STS-1 port and the collected PM data can be retrieved using a RTRV-PM-STs1 command.

If NUMREPT (using SET-DFLTPMREPT-STs1) is any value other than {0} or {NULL}, it will still be decremented even while scheduled PM reporting is inhibited.

Executing an INH-PMREPT-STs1 causes an INHPMREPT condition type to be set for the specified STS-1.

An INH-PMREPT-STs1 command is denied if:

- The specified STS-1 port is not provisioned (using ENT-STs1).
- The specified STS-1 port is embedded within a protection OC-3/OC-12.
- PM reporting is already inhibited (an STS-1 condition type of INHPMREPT is set) for the specified STS-1.
- An invalid parameter value is entered.

INPUT FORMAT

INH-PMREPT-STs1 : [TID] : AID : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	STS1_AID: {EC1STS1-{1-3840}} (EC1STS1-EC1/STS1#) {OC3STS1-{1-2240}-{1-3}} (OC3STS1-OC3#-STS1#) {OC12STS1-{1-560}-{1-4}-{1-3}} (OC12STS1-OC12#-STM1#-STS1#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: STS1 AID, identifies the STS-1 port.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID [-VCNUM] >) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID [-VCNUM] >) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

ICNV	Input, Command Not Valid /* Invalid command requested. */
IIAC	Input, Invalid ACcess identifier /* Invalid AID entered. */ /* AID not in Partition. */
SAIN	Status, Already INhibited /* PM report already inhibited. */
SDBE	Status, internal Data Base Error /* Error reading pm report database. */ /* Error updating pm report database. */ /* Failed to set pointer to FM STS1 record. */
SNVS	Status, Not in Valid State /* Facility is unprovisioned. */ /* AID not as provisioned. */
SROF	Status, Requested Operation Failed /* Unable to determine facility type. */

EXAMPLES

In the following example, the PM reporting for STS-1 port EC1STS1-244 is inhibited.

```
INH-PMREPT-STs1 : EC1STS1-244 ;
```

RELATED COMMANDS

```
ALW-PMREPT-STs1  
ENT-STs1  
RTRV-DFLT-PMREPT-STs1  
RTRV-PMSCHED-ALL  
RTRV-PMSCHED-STs1  
SCHED-PMREPT-ALL  
SCHED-PMREPT-STs1  
SET-DFLT-PMREPT-STs1
```

RELATED AUTONOMOUS RESPONSES

```
REPT^PM^STs1
```

COMMAND CODE: **INH-PMREPT-STS3C**
COMMAND NAME: **INHIBIT PERFORMANCE MONITORING
REPORT STS-3C**

PURPOSE

The INH-PMREPT-STS3C command inhibits scheduled PM reporting (using the scheduled REPT^PM^STS3C message and binary PM report through RS-232) for the specified STS-3C port.

Execution of an INH-PMREPT-STS3C command does not discontinue the collection of PM data for the specified STS-3C port and the collected PM data can be retrieved with a RTRV-PM-STS3C command.

If NUMREPT (using SET-DFLTPMREPT-STS3C) is any value other than {0} or {NULL}, it will still be decremented even while scheduled PM reporting is inhibited.

Executing an INH-PMREPT-STS3C causes an INHPMREPT condition type to be set for the specified STS-3C.

An INH-PMREPT-STS3C command is denied if:

- The specified STS-3C port is not provisioned (using ENT-STS3C).
- PM reporting is already inhibited (an STS-3C condition type of INHPMREPT is set) for the specified STS-3C, unless a range of STS-3C ports is specified.
- An invalid parameter value is entered.

INPUT FORMAT

INH-PMREPT-STS3C: [TID] :AID: [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	STS3C_AID: {OC3STS3C-{1-2240}} (OC3STS3C-OC3#/STS3C#) {OC12STS3C-{1-560}-{1-4}} (OC12STS3C-OC12#-STM1/STS3C#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: STS3C AID, identifies the STS-3C port.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

ICNV	Input, Command Not Valid /* Invalid command requested. */
IIAC	Input, Invalid ACcess identifier /* Invalid AID entered. */ /* AID not in Partition. */
SAIN	Status, Already INhibited /* PM report already inhibited. */
SDBE	Status, internal Data Base Error /* Error reading pm report database. */ /* Error updating pm report database. */ /* Failed to set pointer to FM STS3C record. */
SNVS	Status, Not in Valid State /* Facility is unprovisioned. */ /* AID not as provisioned. */
SROF	Status, Requested Operation Failed /* Unable to determine facility type. */

EXAMPLES

In the following example, the PM reporting for STS-3C port OC3STS3C-4 is inhibited.

```
INH-PMREPT-ST3C: :OC3STS3C-4 ;
```

RELATED COMMANDS

```
ALW-PMREPT-ST3C  
ENT-ST3C  
RTRV-DFLTPMREPT-ST3C  
RTRV-PMSCHED-ALL  
RTRV-PMSCHED-ST3C  
SCHED-PMREPT-ALL  
SCHED-PMREPT-ST3C  
SET-DFLTPMREPT-ST3C
```

RELATED AUTONOMOUS RESPONSES

```
REPT^PM^ST3C
```

COMMAND CODE: INH-PMREPT-T1
COMMAND NAME: INHIBIT PERFORMANCE MONITORING REPORT T1

PURPOSE

The INH-PMREPT-T1 command inhibits scheduled PM reporting (using the scheduled REPT^PM^T1 message and binary PM report through RS-232) for the specified DS1 port.

Execution of an INH-PMREPT-T1 command does not discontinue the collection of PM data for the specified DS1 port and the collected PM data can be retrieved using a RTRV-PM-T1 command.

If NUMREPT (using SET-DFLTPMREPT-T1) is any value other than {0} or {NULL}, it will still be decremented even while scheduled PM reporting is inhibited.

Executing an INH-PMREPT-T1 causes an INHPMREPT condition type to be set for the specified DS1.

An INH-PMREPT-T1 command is denied if:

- The specified DS1 port is not provisioned (using ENT-T1).
- The specified DS1 port is embedded within a protection OC-3/OC-12.
- PM reporting is already inhibited (a DS1 condition type of INHPMREPT is set) for the specified DS1.
- An invalid parameter value is entered.

INPUT FORMAT

INH-PMREPT-T1: [TID] :AID: [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >	
	Default:	<SID>
	Addressing:	None
	Description:	Target Identifier, specifies the network node TID for the command.
AID	DS1_AID:	
	{T1-{1-59392}}	(T1-DS1#)
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)
	{EC1T1-{1-3840}-{1-28}}	(EC1T1-EC1/STS1/DS3#-DS1#)
	{EC1T1-{1-3840}-{1-7}-{1-4}}	(EC1T1-EC1/STS1#-VTGrp#-VT1/DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-28}}	(OC3T1-OC3#-STS1/DS3#-DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3T1-OC3#-STS1#-VTGrp#-VT1/DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}	(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	(OC12T1-OC12#-STM1#-STS1#-VTGrp#-VT1/DS1#)
	Default:	Entry Required
	Addressing:	&&-ranging and &-grouping
	Description:	DS1 AID, identifies the DS1 port.
CTAG	< 1-6 VALID CTAG CHARACTERS >	
	Default:	< System assigned CTAG value >
	Addressing:	None
	Description:	Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID [-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

ICNV	Input, Command Not Valid /* Invalid command requested. */
IIAC	Input, Invalid ACcess identifier /* Invalid AID entered. */ /* AID not in Partition. */
SAIN	Status, Already INhibited /* PM report already inhibited. */
SDBE	Status, internal Data Base Error /* Error reading pm report database. */ /* Error updating pm report database. */ /* Failed to set pointer to FM T1 record. */
SNVS	Status, Not in Valid State /* Facility is unprovisioned. */ /* AID not as provisioned. */
SROF	Status, Requested Operation Failed /* Unable to determine facility type. */

EXAMPLES

In the following example, the PM reporting for DS1 port T3T1-1204-5 is inhibited.

```
INH-PMREPT-T1 : T3T1-1204-5 ;
```

RELATED COMMANDS

```
ALW-PMREPT-T1
ENT-T1
RTRV-DFLT-PMREPT-T1
RTRV-PMSCHED-ALL
RTRV-PMSCHED-T1
SCHED-PMREPT-ALL
SCHED-PMREPT-T1
SET-DFLT-PMREPT-T1
```

RELATED AUTONOMOUS RESPONSES

```
REPT^PM^T1
```


COMMAND CODE: INH-PMREPT-T3
COMMAND NAME: INHIBIT PERFORMANCE MONITORING REPORT T3

PURPOSE

The INH-PMREPT-T3 command inhibits scheduled PM reporting (using the scheduled REPT^PM^T3 message and binary PM report through RS-232) for the specified DS3 port.

Execution of an INH-PMREPT-T3 command does not discontinue the collection of PM data for the specified DS3 port and the collected PM data can be retrieved using a RTRV-PM-T3 command.

If NUMREPT (using SET-DFLTPMREPT-T3) is any value other than {0} or {NULL}, it will still be decremented even while scheduled PM reporting is inhibited.

Executing an INH-PMREPT-T3 causes an INHPMREPT condition type to be set for the specified DS3.

An INH-PMREPT-T3 command is denied if:

- The specified DS3 port is not provisioned (using ENT-T3).
- The specified DS3 port is embedded within a protection OC-3/OC-12.
- PM reporting is already inhibited (a DS3 condition type of INHPMREPT is set) for the specified DS3.
- An invalid parameter value is entered.

INPUT FORMAT

INH-PMREPT-T3 : [TID] :AID: [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >		
	Default:	<SID>	
	Addressing:	None	
	Description:	Target Identifier, specifies the network node TID for the command.	
AID	DS3_AID:		
	{T3-{1-4800}}	(T3-DS3#)	
	{EC1T3-{1-3840}}	(EC1T3-EC1/STS1/DS3#)	
	{OC3T3-{1-2240}-{1-3}}	(OC3T3-OC3#-STS1/DS3#)	
	{OC12T3-{1-560}-{1-4}-{1-3}}	(OC12T3-OC12#-STM1#-STS1/DS3#)	
	Default:	Entry Required	
	Addressing:	&&-ranging and &-grouping	
	Description:	DS3 AID, identifies the DS3 port.	
CTAG	< 1-6 VALID CTAG CHARACTERS >		
	Default:	< System assigned CTAG value >	
	Addressing:	None	
	Description:	Correlation Tag, associates input command with its output responses.	

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID [-VCNUM] >) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID [-VCNUM] >) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

ICNV	Input, Command Not Valid /* Invalid command requested. */
IIAC	Input, Invalid ACcess identifier /* Invalid AID entered. */ /* AID not in Partition. */
SAIN	Status, Already INhibited /* PM report already inhibited. */
SDBE	Status, internal Data Base Error /* Error reading pm report database. */ /* Error updating pm report database. */ /* Failed to set pointer to FM T3 record. */
SNVS	Status, Not in Valid State /* Facility is unprovisioned. */ /* AID not as provisioned. */
SROF	Status, Requested Operation Failed /* Unable to determine facility type. */

EXAMPLES

In the following example, the PM reporting for DS3 port T3-1204 is inhibited.

```
INH-PMREPT-T3 : T3-1204 ;
```

RELATED COMMANDS

```
ALW-PMREPT-T3  
ENT-T3  
RTRV-DFLTPMREPT-T3  
RTRV-PMSCHED-ALL  
RTRV-PMSCHED-T3  
SCHED-PMREPT-ALL  
SCHED-PMREPT-T3  
SET-DFLTPMREPT-T3
```

RELATED AUTONOMOUS RESPONSES

```
REPT^PM^T3
```

COMMAND CODE: INH-PMREPT-VT1
COMMAND NAME: INHIBIT PERFORMANCE MONITORING REPORT VT1

PURPOSE

The INH-PMREPT-VT1 command inhibits scheduled PM reporting (using the scheduled REPT^PM^VT1 message and binary PM report through RS-232) for the specified VT1.5 port.

Execution of an INH-PMREPT-VT1 command does not discontinue the collection of PM data for the specified VT1.5 port and the collected PM data can be retrieved with a RTRV-PM-VT1 command.

If NUMREPT (using SET-DFLTPMREPT-VT1) is any value other than {0} or {NULL}, it will still be decremented even while scheduled PM reporting is inhibited.

Executing an INH-PMREPT-VT1 causes an INHPMREPT condition type to be set for the specified VT1.5.

An INH-PMREPT-VT1 command is denied if:

- The specified VT1.5 port is not provisioned (using ENT-VT1).
- The specified VT1.5 port is embedded within a protection OC-3/OC-12.
- PM reporting is already inhibited (a VT1.5 condition type of INHPMREPT is set) for the specified VT1.5.
- An invalid parameter value is entered.

INPUT FORMAT

INH-PMREPT-VT1 : [TID] : AID : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >		
	Default:	<SID>	
	Addressing:	None	
	Description:	Target Identifier, specifies the network node TID for the command.	
AID	VT1_AID:		
	{EC1VT1-{1-3840}-{1-7}-{1-4}}	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)	
	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)	
	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}		
	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)		
	Default:	Entry Required	
	Addressing:	&&-ranging and &-grouping	
	Description:	VT1 AID, identifies the VT1.5 port.	
CTAG	< 1-6 VALID CTAG CHARACTERS >		
	Default:	< System assigned CTAG value >	
	Addressing:	None	
	Description:	Correlation Tag, associates input command with its output responses.	

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

ICNV	Input, Command Not Valid /* Invalid command requested. */
IIAC	Input, Invalid ACcess identifier /* Invalid AID entered. */ /* AID not in Partition. */
SAIN	Status, Already INhibited /* PM report already inhibited. */
SDBE	Status, internal Data Base Error /* Error reading pm report database. */ /* Error updating pm report database. */ /* Failed to set pointer to FM VT1 record. */
SNVS	Status, Not in Valid State /* Facility is unprovisioned. */ /* AID not as provisioned. */
SROF	Status, Requested Operation Failed /* Unable to determine facility type. */

EXAMPLES

In the following example, the PM reporting for VT1.5 port EC1VT1-244-5-2 is inhibited.

```
INH-PMREPT-VT1 : : EC1VT1-244-5-2 ;
```

RELATED COMMANDS

```
ALW-PMREPT-VT1  
ENT-VT1  
RTRV-DFLTPMREPT-VT1  
RTRV-PMSCHED-ALL  
RTRV-PMSCHED-VT1  
SCHED-PMREPT-ALL  
SCHED-PMREPT-VT1  
SET-DFLTPMREPT-VT1
```

RELATED AUTONOMOUS RESPONSES

```
REPT^PM^VT1
```

COMMAND CODE: **INH-SW-EQPT**
COMMAND NAME: **INHIBIT SWITCH EQUIPMENT**

PURPOSE

The INH-SW-EQPT command disables (inhibits) automatic, but not manual, copy switching for the specified one-for-one redundant (duplex) CPU, IPU, or SPB equipment. Either copy of equipment can be specified; the command disables automatic copy switching for both copies of equipment.

Executing an INH-SW-EQPT command sets a SST of ASI for the specified equipment entity and the corresponding opposite copy equipment entity.

Executing an INH-SW-EQPT command sets an INHSWDX condition type for the specified equipment entity and the corresponding opposite copy equipment entity.

An INH-SW-EQPT command is denied if:

- Both copies of the specified equipment entity have not previously been provisioned with the ENT-EQPT command.
- Copy switching for the specified equipment is already disabled/inhibited (a SST of ASI and a condition type of INHSWDX).
- An invalid parameter value is entered.

Although an INH-SW-EQPT command is not inherently service affecting, execution of the command disables automatic copy switching for the specified equipment. Any hardware fault that occurs on the active copy of equipment after the execution of the command could be service affecting.

INPUT FORMAT

INH-SW-EQPT: [TID] :AID: [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	EQUIPMENT_AID: {CPU-1-2-{1-2}} {IPU-{44-63}-{1-4}-{1-8}} {SPB-{2-43, 102-111 , 112-135, 136-141 }-{1, 3}-{1-2}} {SPB-{5}-{1, 3}-{1, 2}} Default: Entry Required Addressing: None Description: Equipment AID, identifies the equipment object entity. Refer to Appendix B, Access Identifiers (AIDs) for a definition of equipment mnemonics.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
[/* The INH-SW-EQPT for <AID> was completed. */]
[/* Automatic switching inhibited for <AID>. */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

AID EQUIPMENT_AID:
 {CPU-1-2-{1-2}}
 {IPU-{44-63}-{1-4}-{1-8}}
 {SPB-{2-43, **102-111**, 112-135, **136-141**}-{1, 3}-{1-2}}
 {SPB-{5}-{1, 3}-{1, 2}}
Equipment AID, identifies the equipment entity.

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
SAIN	Status, Already INhibited
	/* Automatic switching already inhibited for <AID>. */
	/* Unexpected message response from <AID> – response expected from Slave. */
SDBE	Status, internal Data Base Error
	/* An invalid module type specified in request. */
	/* Error accessing auxiliary EM data area. */

EXAMPLES

In the following example, automatic copy switching is disabled for SPB-4-1-1 and its opposite copy SPB-4-1-2.

```
INH-SW-EQPT::SPB-4-1-1;
```

RELATED COMMANDS

```
ALW-SW-EQPT
ENT-EQPT
RTRV-EQPT
RTRV-STATE-EQPT
SW-DX-EQPT
```

COMMAND CODE: **INH-SWTOPROTN-EQPT**
COMMAND NAME: **INHIBIT SWITCH TO PROTECTION
EQUIPMENT**

PURPOSE

The INH-SWTOPROTN-EQPT command disables (inhibits) both automatic and manual I/O protection switching of a main (working) I/O circuit pack to a protection I/O circuit pack for the specified equipment entity. If an AID for a protection circuit pack is entered, automatic and manual I/O protection switching is inhibited for all I/O circuit packs in the protection group associated with the specified I/O protection circuit pack.

Executing an INH-SWTOPROTN-EQPT command sets a SST of PSI for the specified equipment entity.

Executing an INH-SWTOPROTN-EQPT command sets an INHSWPR condition type for the specified equipment entity.

An INH-SWTOPROTN-EQPT command is denied if:

- The specified equipment entity has not previously been provisioned with the ENT-EQPT command.
- Protection switching for the specified equipment is already inhibited (a SST of PSI and a condition type of INHSWPR).
- An invalid parameter value is entered.

Although an INH-SWTOPROTN-EQPT command is not inherently service affecting, execution of the command disables automatic and manual I/O protection switching for the specified I/O circuit pack. Any hardware fault that occurs on the I/O circuit pack after the execution of the command could be service affecting.

INPUT FORMAT

INH-SWTOPROTN-EQPT: [TID] :AID: [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	EQUIPMENT_AID: {DSI-{44-63}-{1-4}-{1-32}} {SI48: EP3-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42, 104-106,108-110, 136-141 }-{1, 3}-{1-18}, EP3-{9, 21, 35, 43, 107 }-3-{1-18}, EP3-{15, 27, 31, 39, 111 }-1-{1-18}} {SI36: EP3-{6-8, 12-14}-{1, 3}-{1-14}, EP3-9-3-{1-14}, EP3-15-1-{1-14}} {SI48: ES1-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42, 104-106,108-110,136-141 }-{1, 3}-{1-18}, ES1-{9, 21, 35, 43, 107 }-3-{1-18}, ES1-{15, 27, 31, 39, 111 }-1-{1-18}} {SI36: ES1-{6-8, 12-14}-{1, 3}-{1-14}, ES1-9-3-{1-14}, ES1-15-1-{1-14}} {HMU-{44-53}-{1-4}-{1-8}} {LMU-{44-53}-{1-4}-{1-32}} Default: Entry Required Addressing: None Description: Equipment AID, identifies the equipment object entity. Refer to Appendix B, Access Identifiers (AIDs) for a definition of equipment mnemonics.

CTAG < 1–6 VALID CTAG CHARACTERS >
Default: < System assigned CTAG value >
Addressing: None
Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* The INH-SWTOPROTN-EQPT for <AID> was completed */]
  [/* Switching to protection inhibited. */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

AID **EQUIPMENT_AID:**
 {DSI-{44-63}-{1-4}-{1-32}}
 {SI48: EP3-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42,
104-106,108-110, 136-141}-{1, 3}-{1-18},
 EP3-{9, 21, 35, 43, **107**}-3-{1-18},
 EP3-{15, 27, 31, 39, **111**}-1-{1-18}}
 {SI36: EP3-{6-8, 12-14}-{1, 3}-{1-14},
 EP3-9-3-{1-14},
 EP3-15-1-{1-14}}
 {SI48: ES1-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42,
104-106,108-110,136-141}-{1, 3}-{1-18},
 ES1-{9, 21, 35, 43,**107**}-3-{1-18},
 ES1-{15, 27, 31, 39,**111**}-1-{1-18}}
 {SI36: ES1-{6-8, 12-14}-{1, 3}-{1-14},
 ES1-9-3-{1-14},
 ES1-15-1-{1-14}}
 {HMU-{44-53}-{1-4}-{1-8}}
 {LMU-{44-53}-{1-4}-{1-32}}
 Equipment AID, identifies the equipment entity.

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC Input, Data Not Consistent
 /* Unable to read aux buffer for <AID>. */

IIAC Input, Invalid ACcess identifier
 /* The command was rejected. */
 /* Invalid command for a TGR card. */
 /* Invalid AID for the given slot. */
 /* Invalid or unassigned equipment identifier specified. */
 /* The INH-SWTOPROTN-EQPT for <AID> was rejected. */

SAIN Status, Already INhibited
 /* Switching to protection already inhibited. */
 /* The INH-SWTOPROTN-EQPT for <AID> was rejected. */

SARB Status, All Resources Busy
 /* The command was rejected. */
 /* Command already in progress on equipment. */
 /* Automatic system configuration active on equipment. */
 /* INIT-SYS command still active on shelf that equipment is on. */
 /* Automatic configuration of parent processor in progress */
 /* Level 2 processor software download in progress. Try again later. */

SDBE Status, internal Data Base Error
 /* Data base access failure. */
 /* The command was rejected. */
 /* HMU data base access failure. */
 /* LMU/DSI data base access failure. */
 /* The INH-SWTOPROTN-EQPT for <AID> was aborted. */

SNVS Status, Not in Valid State
 /* The INH-SWTOPROTN-EQPT for <AID> was rejected. */

SSRE Status, System Resources Exceeded
 /* The command was rejected. */
 /* Unable to allocate USI response buffer. */

EXAMPLES

In the following example, automatic and manual I/O protection switching is inhibited for EP3-8-1-4.

```
INH-SWTOPROTN-EQPT::EP3-8-1-4;  
  
  <SID> <YY-MM-DD> <HH:MM:SS>  
M  P70002 COMPLD  
  /* The INH-SWTOPROTN-EQPT for EP3-8-1-4 was completed. */  
  /* Switching to protection inhibited. */  
  /* INH-SWTOPROTN-EQPT::EP3-8-1-4: [P70002] (1) */
```

In the following example, automatic and manual I/O protection switching is inhibited for the EP3 circuit packs (EP3-9-3-2 through EP3-9-3-9) in the protection group associated with the protection circuit pack EP3-9-1-1.

```
INH-SWTOPROTN-EQPT::EP3-9-3-1;  
  
  <SID> <YY-MM-DD> <HH:MM:SS>  
M  P70004 COMPLD  
  /* The INH-SWTOPROTN-EQPT for EP3-9-3-1 was completed. */  
  /* Switching to protection inhibited. */  
  /* INH-SWTOPROTN-EQPT::EP3-9-3-1 [P70004] (1) */
```

RELATED COMMANDS

ALW-SWTOPROTN-EQPT
ALW-SWTOWKG-EQPT
ENT-EQPT
INH-SWTOWKG-EQPT
RTRV-EQPT
RTRV-STATE-EQPT
SW-TOPROTN-EQPT
SW-TOWKG-EQPT

COMMAND CODE: **INH-SWTOWKG-EQPT**
COMMAND NAME: **INHIBIT SWITCH TO WORKING
EQUIPMENT**

PURPOSE

The INH-SWTOWKG-EQPT command disables (inhibits) both automatic and manual I/O protection switching from the protection I/O circuit pack to the main (working) I/O circuit pack for the specified equipment entity. If an AID for a protection circuit pack is entered, automatic and manual I/O protection switching from the protection circuit pack back to the main (working) circuit pack is inhibited for any I/O circuit pack that is switched to the specified I/O protection circuit pack.

Executing an INH-SWTOWKG-EQPT command sets a SST of PRI for the specified equipment entity.

Executing an INH-SWTOWKG-EQPT command sets an INHSWWKG condition type for the specified equipment entity.

An INH-SWTOWKG-EQPT command is denied if:

- The specified equipment entity has not previously been provisioned with the ENT-EQPT command.
- Protection switching from the protection circuit pack to the main (working) circuit pack for the specified equipment is already inhibited (a SST of PRI and a condition type of INHSWWKG).
- An invalid parameter value is entered.

Although an INH-SWTOWKG-EQPT command is not inherently service affecting, execution of the command disables automatic and manual I/O switching from the I/O protection circuit pack to the specified I/O (working) circuit pack. Consequently, the I/O protection circuit pack would not be available to protect any hardware fault that occurs on a different I/O circuit pack within the protection group after the execution of the command, which could be service affecting.

INPUT FORMAT

INH-SWTOWKG-EQPT: [TID] :AID: [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >
Default:	<SID>
Addressing:	None
Description:	Target Identifier, specifies the network node TID for the command.

AID	<p>EQUIPMENT_AID:</p> <p>{DSI-{44-63}-{1-4}-{1-32}}</p> <p>{SI48: EP3-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42, 104-106,108-110, 136-141}-{1, 3}-{1-18}, EP3-{9, 21, 35, 43, 107}-3-{1-18}, EP3-{15, 27, 31, 39, 111}-1-{1-18}}</p> <p>{SI36: EP3-{6-8, 12-14}-{1, 3}-{1-14}, EP3-9-3-{1-14}, EP3-15-1-{1-14}}</p> <p>{SI48: ES1-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42, 104-106,108-110,136-141}-{1, 3}-{1-18}, ES1-{9, 21, 35, 43,107}-3-{1-18}, ES1-{15, 27, 31, 39,111}-1-{1-18}}</p> <p>{SI36: ES1-{6-8, 12-14}-{1, 3}-{1-14}, ES1-9-3-{1-14}, ES1-15-1-{1-14}}</p> <p>{HMU-{44-53}-{1-4}-{1-8}}</p> <p>{LMU-{44-53}-{1-4}-{1-32}}</p> <p>Default: Entry Required</p> <p>Addressing: None</p> <p>Description: Equipment AID, identifies the equipment object entity. Refer to Appendix B, Access Identifiers (AIDs) for a definition of equipment mnemonics.</p>
CTAG	<p><1-6 VALID CTAG CHARACTERS></p> <p>Default: <System Assigned CTAG Value></p> <p>Addressing: None</p> <p>Description: Correlation Tag, associates input command with its output responses.</p>

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* The INH-SWTOWKG-EQPT for <AID> was completed */]
  [/* Switching to working inhibited. */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

OUTPUT PARAMETERS

AID	<p>EQUIPMENT_AID:</p> <p>{DSI-{44-63}-{1-4}-{1-32}}</p> <p>{SI48: EP3-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42, 104-106,108-110, 136-141}-{1, 3}-{1-18}, EP3-{9, 21, 35, 43, 107}-3-{1-18}, EP3-{15, 27, 31, 39, 111}-1-{1-18}}</p> <p>{SI36: EP3-{6-8, 12-14}-{1, 3}-{1-14}, EP3-9-3-{1-14}, EP3-15-1-{1-14}}</p> <p>{SI48: ES1-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42, 104-106,108-110,136-141}-{1, 3}-{1-18}, ES1-{9, 21, 35, 43,107}-3-{1-18}, ES1-{15, 27, 31, 39,111}-1-{1-18}}</p> <p>{SI36: ES1-{6-8, 12-14}-{1, 3}-{1-14}, ES1-9-3-{1-14}, ES1-15-1-{1-14}}</p> <p>{HMU-{44-53}-{1-4}-{1-8}}</p> <p>{LMU-{44-53}-{1-4}-{1-32}}</p> <p>Equipment AID, identifies the equipment entity.</p>
-----	--

UNSUCCESSFUL RESPONSE FORMAT

```

        <SID> <YY-MM-DD> <HH:MM:SS>
M  <CTAG> DENY
    <ERROR CODE>
    [/ * <Informational Error Description Text> */]
    [/ * <Expanded Error Code Description> */]
    [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent /* Unable to read aux buffer for <AID>. */
IIAC	Input, Invalid ACcess identifier /* The command was rejected. */ /* Invalid command for a TGR card. */ /* Invalid AID for the given slot. */ /* Invalid or unassigned equipment identifier specified. */ /* The INH-SWTOWKG-EQPT for <AID> was rejected. */
SAIN	Status, Already INhibited /* Switching to working already inhibited. */ /* The INH-SWTOWKG-EQPT for <AID> was rejected. */
SARB	Status, All Resources Busy /* The command was rejected. */ /* Command already in progress on equipment. */ /* Automatic system configuration active on equipment. */ /* INIT-SYS command still active on shelf that equipment is on. */ /* Automatic configuration of parent processor in progress */ /* Level 2 processor software download in progress. Try again later. */
SDBE	Status, internal Data Base Error /* Data base access failure. */ /* The command was rejected. */ /* HMU data base access failure. */ /* LMU/DSI data base access failure. */ /* The INH-SWTOWKG-EQPT for <AID> was aborted. */
SNVS	Status, Not in Valid State /* The INH-SWTOWKG-EQPT for <AID> was rejected. */
SSRE	Status, System Resources Exceeded /* The command was rejected. */ /* Unable to allocate USI response buffer. */

EXAMPLES

In the following example, automatic and manual I/O protection switching (from protection) back to working (main) is inhibited for EP3-8-1-4.

```

INH-SWTOWKG-EQPT::EP3-8-1-4;

        <SID> <YY-MM-DD> <HH:MM:SS>
M  P70004 COMPLD
    /* The INH-SWTOWKG-EQPT for EP3-8-1-4 was completed. */
    /* Switching to working inhibited. */
    /* INH-SWTOWKG-EQPT::EP3-8-1-4 [P70004] (1) */

```

In the following example, automatic and manual I/O protection switching (from protection) back to working (main) is inhibited for any of the EP3 circuit cards (EP3-9-3-2 through EP3-9-3-9) that is switched to the protection circuit pack EP3-9-3-1.

```
INH-SWTOWKG-EQPT::EP3-9-3-1;  
  
  <SID> <YY-MM-DD> <HH:MM:SS>  
M  P70005 COMPLD  
  /* The INH-SWTOWKG-EQPT for EP3-9-3-1 was completed. */  
  /* Switching to working inhibited. */  
  /* INH-SWTOWKG-EQPT::EP3-9-3-1 [P70005] (1) */
```

RELATED COMMANDS

```
ALW-SWTOPROTN-EQPT  
ALW-SWTOWKG-EQPT  
ENT-EQPT  
INH-SWTOPROTN-EQPT  
RTRV-EQPT  
RTRV-STATE-EQPT  
SW-TOPROTN-EQPT  
SW-TOWKG-EQPT
```

COMMAND CODE: **INIT-REG-EC1**
COMMAND NAME: **INITIALIZE PERFORMANCE
MONITORING REGISTER EC1**

PURPOSE

The INIT-REG-EC1 command initializes the current 15-Minute or current 1-Day (specified by TMPER) PM collection registers for the monitored parameters (specified by MONTYPE and LOCN) pertaining to the specified EC1 port to the value specified by MONVAL.

An INIT-REG-EC1 command is denied if:

- The specified EC1 port is not provisioned (using ENT-EC1).
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

INIT-REG-EC1: [TID] : AID: [CTAG] :: [MONTYPE] , [MONVAL] , [LOCN] ,
[DIRN] , [TMPER] [,] [,] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	EC1_AID: {EC1-{1-3840} } (EC1-EC1/STS1#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: EC1 AID, identifies the EC1 port.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

MONTYPE {ALL},
NEAR_END_PARAMETERS:{CV-L, CVL, ES-L, ESL, ESA-L, ESAL, ESB-L, ESBL, LOSS, LOSS-S, SEFS, SEFS-S, SES-L, SESL, UAS-L, UASL},
FAR_END_PARAMETERS:{AISS, AISS-L, AISSL, ES-L, ESL, FC-L, FCL, SES-L, SESL, UAS-L, UASL}
Default: {ALL}
Addressing: None
Description: Monitored Parameter Type, identifies the type of monitored parameter whose PM register is to be initialized. A parameter may be specified by more than one value, e.g., parameter values may be entered with or without the dash (-). Refer to Appendix F, Monitored PM Parameters for a list of all monitored PM parameters. Values are:

ALL	All, all monitored parameter PM registers.
AISS, AISS-L, AISSL	Alarm Indication Signal Seconds – Line, AISS register. (Far-end only.)
CV-L, CVL	Coding Violations – Line, CV-L register. (Near-end only.)
ES-L, ESL	Errored Seconds – Line, ES-L register.
ESA-L, ESAL	Errored Seconds type A – Line, ESA-L register. (Near-end only.)
ESB-L, ESBL	Errored Seconds type B – Line, ESB-L register. (Near-end only.)
FC-L, FCL	Failure Counts – Line, FC-L register. (Far-end only.)
LOSS, LOSS-S	Loss Of Signal Seconds – Section, LOSS register. (Near-end only.)
SEFS, SEFS-S	Severely Errored Frame Seconds – Section, SEFS-S register. (Near-end only.)
SES-L, SESL	Severely Errored Seconds – Line, SES-L register.
UAS-L, UASL	Unavailable Seconds – Line, UAS-L register.

Restrictions: INIT-REG-EC1 is denied if the specified MONTYPE value is not supported for the specified LOCN value (e.g., MONTYPE of AISS and LOCN of NEND is entered).

MONVAL {0-4294967295}
Default: { 0 }
Addressing: None
Description: Monitor Value, specifies the value to be set in the register specified by the MONTYPE, LOCN, and TMBER. Values for each monitored parameter are:

MONVAL Values vs. MONTYPE		
MONTYPE	15-Minute PM Register	1-Day PM Register
ALL	{0-150}	{0-14400}
CV-L	{0-4294967295}	{0-4294967295}
FC-L	{0-150}	{0-14400}
<All other MONTYPES>	{0-900}	{0-65535}

Restrictions: INIT-REG-EC1 is denied if the entered MONVAL value is not valid for the specified MONTYPE.

LOCN	{FEND, NEND}	
	Default:	< All applicable locations for the selected monitored parameters >
	Addressing:	None
	Description:	Location, specifies whether PM registers for near-end or far-end PM monitoring are to be initialized. Values are:
	FEND	Far-End
DIRN	NEND	Near-End
	Restrictions:	INIT-REG-EC1 is denied if the specified MONTYPE value is not supported for the specified LOCN value (e.g., MONTYPE of AISS and LOCN of NEND is entered).
	{NA, RCV, TRMT}	
	Default:	< All applicable directions >
TMPER	Addressing:	None
	Description:	Direction, specifies the direction of the signal being monitored. The value for DIRN is verified, but does not affect the function of the INIT-REG-EC1 command.
	NA	Not Applicable
	RCV	Receive side
	TRMT	Transmit direction
	{15-MIN, 1-DAY}	
	Default:	{15-MIN}
	Addressing:	None
	Description:	Time Period, specifies whether the 15-minute or the daily (24 hour) PM collection register for the specified parameter is to be initialized. Values are:
	15-MIN	15-Minute PM collection register.
	1-DAY	1-Day (24 hour) PM collection register.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  /* Error occurred while provisioning equipment. */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

```

ICNV      Input, Command Not Valid
          /* Invalid command requested. */

```

IDNV	Input, Data Not Valid /* Invalid direction in request message. */ /* Invalid location in request message. */ /* Invalid montype in request message. */ /* Invalid monitor value in request message. */ /* Invalid time period in request message. */ /* Monitor value for this montype must not be greater than <max_monval>. */
IIAC	Input, Invalid ACcess identifier /* Invalid AID entered. */ /* AID not in Partition. */
IIPG	Input, Invalid Parameter Grouping /* Invalid location for requested montype. */
SDBE	Status, internal Data Base Error /* Failed to set pointer to FM EC1 record. */ /* Could not get controlling level 2 processor id. */
SNVS	Status, Not in Valid State /* Facility is unprovisioned. */ /* AID not as provisioned. */
SROF	Status, Requested Operation Failed /* Unable to determine facility type. */ /* Number of montypes exceeds the maximum number of montypes allowed. */ /* Unable to allocate memory for user data. */ /* Unable to send message to the Level 2 Processor. */ /* Unable to determine supporting facility entity. */ /* Unable to process montype <NUM>. */

EXAMPLES

In the following example, the near-end 15-minute coding violations, line (CV-L) PM collection register for EC1 port EC1-631 is initialized to zero.

```
INIT-REG-EC1::EC1-631:::CVL,, , 15-MIN;
```

In the following example, all near-end and far-end daily (1-Day) PM collection registers for EC1 port EC1-632 are initialized to zero.

```
INIT-REG-EC1::EC1-632:::ALL,, , 1-DAY;
```

RELATED COMMANDS

```
ENT-EC1
RTRV-DFLTTH-EC1
RTRV-PM-EC1
RTRV-PMATTR-ALL
RTRV-PMODE-EC1
RTRV-TH-EC1
SET-DFLTTH-EC1
SET-PMATTR-ALL
SET-PMODE-EC1
SET-TH-EC1
```

RELATED AUTONOMOUS RESPONSES

```
REPT^EVT^EC1
```

COMMAND CODE: **INIT-REG-F3**
COMMAND NAME: **INITIALIZE PERFORMANCE
MONITORING REGISTER F3**

PURPOSE

The INIT-REG-F3 command initializes the current 15-Minute or current 1-Day (specified by TMPER) PM collection registers for the monitored parameters (specified by MONTYPE and LOCN) pertaining to the specified Fractional-T3 to the value specified by MONVAL.

An INIT-REG-F3 command is denied if:

- The specified Fractional-T3 is not provisioned (using ENT-F3).
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

INIT-REG-F3 : [TID] : AID : [CTAG] : : [MONTYPE] , [MONVAL] , [LOCN] ,
[DIRN] , [TMPER] [,] [,] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	F3_AID: {T3F3-{1-4800}-{1-14}} (T3F3-DS3#-Fractional_DS3#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: F3 AID, identifies the Fractional-T3.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

MONTYPE {ALL, CV–N, CVN, ES–N, ESN, ESA–N, ESAN, ESB–N, ESBN, FC–N, FCN, SAS–N, SASN, SES–N, SESN, UAS–N, UASN}
Default: {ALL}
Addressing: None
Description: Monitored Parameter Type, identifies the type of monitored parameter whose PM register is to be initialized. A parameter may be specified by more than one value, e.g., parameter values may be entered with or without the dash (–). Refer to Appendix F, Monitored PM Parameters for a list of all monitored PM parameters. Values are:

ALL All, all monitored parameter PM registers.
CV–N, CVN Coding Violations – N, CV–N register contains a summary of CV–P counts for all DS1s assigned to the F3.
ES–N, ESN Errored Seconds – N, ES–N register contains a summary of ES–P counts for all DS1s assigned to the F3.
ESA–N, ESAN Errored Seconds type A – N, ESA–N register contains a summary of ESA–P counts for all DS1s assigned to the F3.
ESB–N, ESBN Errored Seconds type B – N, ESB–N register contains a summary of ESB–P counts for all DS1s assigned to the F3.
FC–N, FCN Failure Count – N, FC–N register contains a summary of FC–P counts for all DS1s assigned to the F3.
SAS–N, SASN Severe AIS Seconds – N, SAS–N register contains a summary of SAS–P counts for all DS1s assigned to the F3.
SES–N, SESN Severely Errored Seconds – N, SES–N register contains a summary of SES–P counts for all DS1s assigned to the F3.
UAS–N, UASN Unavailable Seconds – N, UAS–N register contains a summary of UAS–P counts for all DS1s assigned to the F3.

MONVAL {0–4294967295}
Default: { 0 }
Addressing: None
Description: Monitor Value, specifies the value to be set in the register specified by the MONTYPE, LOCN, and TPER. Values for each monitored parameter are:

MONVAL Values vs. MONTYPE		
MONTYPE	15–Minute PM Register	1–Day PM Register
ALL	{0–150}	{0–14400}
CV–N	{0–4294967295}	{0–4294967295}
FC–N	{0–150}	{0–14400}
<All other MONTYPES>	{0–900}	{0–65535}

Restrictions: INIT–REG–F3 is denied if the entered MONVAL value is not valid for the specified MONTYPE.

LOCN {NEND}
Default: <All applicable locations for the selected monitored parameters>
Addressing: None
Description: Location, specifies PM registers for near–end PM monitoring are to be retrieved. Value is:

NEND Near–End

DIRN	{NA, RCV, TRMT}
	Default: < All applicable directions >
	Addressing: None
	Description: Direction, specifies the direction of the signal being monitored. The value for DIRN is verified, but does not affect the function of the INIT-REG-F3 command.
	NA Not Applicable
	RCV Receive side
	TRMT Transmit direction
TMPER	{15-MIN, 1-DAY}
	Default: {15-MIN}
	Addressing: None
	Description: Time Period, specifies whether the 15-minute or the daily (24 hour) PM collection register for the specified parameter is to be initialized. Values are:
	15-MIN 15-Minute PM collection register
	1-DAY 1-Day (24 hour) PM collection register

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  /* Error occurred while provisioning equipment. */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

ICNV	Input, Command Not Valid /* Invalid command requested. */
IDNV	Input, Data Not Valid /* Invalid direction in request message. */ /* Invalid location in request message. */ /* Invalid montype in request message. */ /* Invalid monitor value in request message. */ /* Invalid time period in request message. */ /* Monitor value for this montype must not be greater than <max_monval>. */
IIAC	Input, Invalid ACcess identifier /* Invalid AID entered. */ /* AID not in Partition. */
IIPG	Input, Invalid Parameter Grouping /* Invalid location for requested montype. */
SDBE	Status, internal Data Base Error /* Failed to set pointer to FM F3 record. */ /* Could not get controlling level 2 processor id. */

SNVS	Status, Not in Valid State /* Facility is unprovisioned. */ /* AID not as provisioned. */
SROF	Status, Requested Operation Failed /* Unable to determine facility type. */ /* Number of montypes exceeds the maximum number of montypes allowed. */ /* Unable to allocate memory for user data. */ /* Unable to send message to the Level 2 Processor. */ /* Unable to determine supporting facility entity. */ /* Unable to process montype <NUM>. */

EXAMPLES

In the following example, both the 15-minute severely errored seconds (SES-N) PM collection register for Fractional-T3 T3F3-1495-3 is initialized to zero.

```
INIT-REG-F3::T3F3-1495-3::SESN,,,15-MIN;
```

In the following example, all daily (1-Day) PM collection registers for Fractional-T3 T3F3-1495-4 are initialized to zero.

```
INIT-REG-F3::T3F3-1495-4::ALL,,,1-DAY;
```

RELATED COMMANDS

```
ENT-F3  
RTRV-PM-F3  
RTRV-PMODE-F3  
SET-PMODE-F3
```

COMMAND CODE: **INIT-REG-OC12**
COMMAND NAME: **INITIALIZE PERFORMANCE
MONITORING REGISTER OC-12**

PURPOSE

The INIT-REG-OC12 command initializes the current 15-Minute or current 1-Day (specified by TMPER) PM collection registers for the monitored parameters (specified by MONTYPE and LOCN) pertaining to the specified OC-12 port to the value specified by MONVAL.

An INIT-REG-OC12 command is denied if:

- The specified OC-12 port is not provisioned (using ENT-OC12).
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

INIT-REG-OC12 : [TID] : AID : [CTAG] : : [MONTYPE] , [MONVAL] , [LOCN] ,
[DIRN] , [TMPER] [,] [,] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	OC12_AID: {OC12-{1-560}} (OC12-OC12#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: OC12 AID, identifies the OC-12 port.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

MONTYPE	{ALL}, NEAR_END_PARAMETERS:{AISS, AISS-L, AISSL, CV-L, CVL, CV-S, CVS, ES-L, ESL, ES-S, ESS, ESA-L, ESAL, ESA-S, ESAS, ESB-L, ESBL, ESB-S, ESBS, FC-L, FCL, LOSS, LOSS-S, PSC, PSC-L, PSCL, PSD, PSD-L, PSDL, SEFS, SEFS-S, SES-L, SESL, SES-S, SESS, UAS-L, UASL}, FAR_END_PARAMETERS:{AISS, AISS-L, AISSL, CV-L, CVL, ES-L, ESL, ESA-L, ESAL, ESB-L, ESBL, FC-L, FCL, SES-L, SESL, UAS-L, UASL}
Default:	{ALL}
Addressing:	None
Description:	Monitored Parameter Type, identifies the type of monitored parameter whose PM register is to be initialized. A parameter may be specified by more than one value, e.g., parameter values may be entered with or without the dash (-). Refer to Appendix F, Monitored PM Parameters for a list of all monitored PM parameters. Values are:
ALL	All, all monitored parameter PM registers.
AISS, AISS-L, AISSL	Alarm Indication Signal Seconds – Line, AISS register.
CV-L, CVL	Coding Violations – Line, CV-L register.
CV-S, CVS	Coding Violations – Section, CV-S register. (Near-end only.)
ES-L, ESL	Errored Seconds – Line, ES-L register.
ES-S, ESS	Errored Seconds – Section, ES-S register. (Near-end only.)
ESA-L, ESAL	Errored Seconds type A – Line, ESA-L register.
ESA-S, ESAS	Errored Seconds type A – Section, ESA-S register. (Near-end only.)
ESB-L, ESBL	Errored Seconds type B – Line, ESB-L register.
ESB-S, ESBS	Errored Seconds type B – Section, ESB-S register. (Near-end only.)
FC-L, FCL	Failure Counts – Line, FC-L register.
LOSS, LOSS-S	Loss Of Signal Seconds – Section, LOSS register. (Near-end only.)
PSC, PSC-L, PSCL	Protection Switch Counts – Line, PSC-L register. (Near-end only.)
PSD, PSD-L, PSDL	Protection Switch Duration – Line, PSD-L register. (Near-end only.)
SEFS, SEFS-S	Severely Errored Frame Seconds – Section, SEFS-S register. (Near-end only.)
SES-L, SESL	Severely Errored Seconds – Line, SES-L register.
SES-S, SESS	Severely Errored Seconds – Section, SES-S register. (Near-end only.)
UAS-L, UASL	Unavailable Seconds – Line, UAS-L register.
Restrictions:	INIT-REG-OC12 is denied if the specified MONTYPE value is not supported for the specified LOCN value (e.g., MONTYPE of CV-S and LOCN of FEND is entered).

MONVAL {0-4294967295}
Default: { 0 }
Addressing: None
Description: Monitor Value, specifies the value to be set in the register specified by the MONTYPE, LOCN, and TMPER. Values for each monitored parameter are:

MONVAL Values vs. MONTYPE		
MONTYPE	15-Minute PM Register	1-Day PM Register
ALL	{0-150}	{0-14400}
CV-L, CV-S	{0-4294967295}	{0-4294967295}
FC-L	{0-150}	{0-14400}
<All other MONTYPES>	{0-900}	{0-65535}

Restrictions: INIT-REG-OC12 is denied if the entered MONVAL value is not valid for the specified MONTYPE.

LOCN {FEND, NEND}
Default: < All applicable locations for the selected monitored parameters >
Addressing: None
Description: Location, specifies whether PM registers for near-end or far-end PM monitoring are to be initialized. Values are:
 FEND Far-End
 NEND Near-End
Restrictions: INIT-REG-OC12 is denied if the specified MONTYPE value is not supported for the specified LOCN value (e.g., MONTYPE of CV-S and LOCN of FEND is entered).

DIRN {NA, RCV, TRMT}
Default: < All applicable directions >
Addressing: None
Description: Direction, specifies the direction of the signal being monitored. The value for DIRN is verified, but does not affect the function of the INIT-REG-OC12 command.
 NA Not Applicable
 RCV Receive side
 TRMT Transmit direction

TMPER {15-MIN, 1-DAY}
Default: {15-MIN}
Addressing: None
Description: Time Period, specifies whether the 15-minute or the daily (24 hour) PM collection register for the specified parameter is to be initialized. Values are:
 15-MIN 15-Minute PM collection register.
 1-DAY 1-Day (24 hour) PM collection register.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* Error occurred while provisioning equipment. */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

ICNV	Input, Command Not Valid /* Invalid command requested. */
IDNV	Input, Data Not Valid /* Invalid direction in request message. */ /* Invalid location in request message. */ /* Invalid montype in request message. */ /* Invalid monitor value in request message. */ /* Invalid time period in request message. */ /* Monitor value for this montype must not be greater than <max_monval>. */
IIAC	Input, Invalid ACcess identifier /* Invalid AID entered. */ /* AID not in Partition. */
IIPG	Input, Invalid Parameter Grouping /* Invalid location for requested montype. */
SDBE	Status, internal Data Base Error /* Failed to set pointer to FM OC12 record. */ /* Could not get controlling level 2 processor id. */
SNVS	Status, Not in Valid State /* Facility is unprovisioned. */ /* AID not as provisioned. */
SROF	Status, Requested Operation Failed /* Unable to determine facility type. */ /* Number of montypes exceeds the maximum number of montypes allowed. */ /* Unable to allocate memory for user data. */ /* Unable to send message to the Level 2 Processor. */ /* Unable to determine supporting facility entity. */ /* Unable to process montype <NUM>. */

EXAMPLES

In the following example, the near-end and far-end 15-minute coding violations, line (CV-L) PM collection registers for OC-12 port OC12-106 are initialized to zero.

```
INIT-REG-OC12::OC12-106:::CVL,,,15-MIN;
```

In the following example, all near-end and far-end daily (1-Day) PM collection registers for OC-12 port OC12-107 are initialized to zero.

```
INIT-REG-OC12::OC12-107:::ALL,,,1-DAY;
```

RELATED COMMANDS

ENT-OC12
RTRV-DFLTTH-OC12
RTRV-PM-OC12
RTRV-PMATTR-ALL
RTRV-PMODE-OC12
RTRV-TH-OC12
SET-DFLTTH-OC12
SET-PMATTR-ALL
SET-PMODE-OC12
SET-TH-OC12

RELATED AUTONOMOUS RESPONSES

REPT^EVT^OC12

COMMAND CODE: **INIT-REG-OC3**
COMMAND NAME: **INITIALIZE PERFORMANCE
MONITORING REGISTER OC-3**

PURPOSE

The INIT-REG-OC3 command initializes the current 15-Minute or current 1-Day (specified by TMPER) PM collection registers for the monitored parameters (specified by MONTYPE and LOCN) pertaining to the specified OC-3 port to the value specified by MONVAL.

An INIT-REG-OC3 command is denied if:

- The specified OC-3 port is not provisioned (using ENT-OC3).
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

INIT-REG-OC3 : [TID] : AID : [CTAG] : : [MONTYPE] , [MONVAL] , [LOCN] ,
[DIRN] , [TMPER] [,] [,] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	OC3_AID: {OC3-{1-2240}} (OC3-OC3#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: OC3 AID, identifies the OC-3 port.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

MONTYPE	{ALL}, NEAR_END_PARAMETERS:{AISS, AISS-L, AISSL, CV-L, CVL, CV-S, CVS, ES-L, ESL, ES-S, ESS, ESA-L, ESAL, ESA-S, ESAS, ESB-L, ESBL, ESB-S, ESBS, FC-L, FCL, LOSS, LOSS-S, PSC, PSC-L, PSCL, PSD, PSD-L, PSDL, SEFS, SEFS-S, SES-L, SESL, SES-S, SESS, UAS-L, UASL}, FAR_END_PARAMETERS:{AISS, AISS-L, AISSL, CV-L, CVL, ES-L, ESL, ESA-L, ESAL, ESB-L, ESBL, FC-L, FCL, SES-L, SESL, UAS-L, UASL}
Default:	{ALL}
Addressing:	None
Description:	Monitored Parameter Type, identifies the type of monitored parameter whose PM register is to be initialized. A parameter may be specified by more than one value, e.g., parameter values may be entered with or without the dash (-). Refer to Appendix F, Monitored PM Parameters for a list of all monitored PM parameters. Values are:
ALL	All, all monitored parameter PM registers.
AISS, AISS-L, AISSL	Alarm Indication Signal Seconds – Line, AISS register.
CV-L, CVL	Coding Violations – Line, CV-L register.
CV-S, CVS	Coding Violations – Section, CV-S register. (Near-end only.)
ES-L, ESL	Errored Seconds – Line, ES-L register.
ES-S, ESS	Errored Seconds – Section, ES-S register. (Near-end only.)
ESA-L, ESAL	Errored Seconds type A – Line, ESA-L register.
ESA-S, ESAS	Errored Seconds type A – Section, ESA-S register. (Near-end only.)
ESB-L, ESBL	Errored Seconds type B – Line, ESB-L register.
ESB-S, ESBS	Errored Seconds type B – Section, ESB-S register. (Near-end only.)
FC-L, FCL	Failure Counts – Line, FC-L register.
LOSS, LOSS-S	Loss Of Signal Seconds – Section, LOSS register. (Near-end only.)
PSC, PSC-L, PSCL	Protection Switch Counts – Line, PSC-L register. (Near-end only.)
PSD, PSD-L, PSDL	Protection Switch Duration – Line, PSD-L register. (Near-end only.)
SEFS, SEFS-S	Severely Errored Frame Seconds – Section, SEFS-S register. (Near-end only.)
SES-L, SESL	Severely Errored Seconds – Line, SES-L register.
SES-S, SESS	Severely Errored Seconds – Section, SES-S register. (Near-end only.)
UAS-L, UASL	Unavailable Seconds – Line, UAS-L register.
Restrictions:	INIT-REG-OC3 is denied if the specified MONTYPE value is not supported for the specified LOCN value (e.g., MONTYPE of CV-S and LOCN of FEND is entered).

MONVAL {0–4294967295}
Default: { 0 }
Addressing: None
Description: Monitor Value, specifies the value to be set in the register specified by the MONTYPE, LOCN, and TMPER. Values for each monitored parameter are:

MONVAL Values vs. MONTYPE		
MONTYPE	15–Minute PM Register	1–Day PM Register
ALL	{0–150}	{0–14400}
CV–L, CV–S	{0–4294967295}	{0–4294967295}
FC–L	{0–150}	{0–14400}
<All other MONTYPES>	{0–900}	{0–65535}

Restrictions: INIT–REG–OC3 is denied if the entered MONVAL value is not valid for the specified MONTYPE.

LOCN {FEND, NEND}
Default: < All applicable locations for the selected monitored parameters >
Addressing: None
Description: Location, specifies whether PM registers for near–end or far–end PM monitoring are to be initialized. Values are:
 FEND Far–End
 NEND Near–End
Restrictions: INIT–REG–OC3 is denied if the specified MONTYPE value is not supported for the specified LOCN value (e.g., MONTYPE of CV–S and LOCN of FEND is entered).

DIRN {NA, RCV, TRMT}
Default: < All applicable directions >
Addressing: None
Description: Direction, specifies the direction of the signal being monitored. The value for DIRN is verified, but does not affect the function of the INIT–REG–OC3 command.
 NA Not Applicable
 RCV Receive side
 TRMT Transmit direction

TMPER {15–MIN, 1–DAY}
Default: {15–MIN}
Addressing: None
Description: Time Period, specifies whether the 15–minute or the daily (24 hour) PM collection register for the specified parameter is to be initialized. Values are:
 15–MIN 15–Minute PM collection register.
 1–DAY 1–Day (24 hour) PM collection register.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* Error occurred while provisioning equipment. */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

ICNV	Input, Command Not Valid /* Invalid command requested. */
IDNV	Input, Data Not Valid /* Invalid direction in request message. */ /* Invalid location in request message. */ /* Invalid montype in request message. */ /* Invalid monitor value in request message. */ /* Invalid time period in request message. */ /* Monitor value for this montype must not be greater than <max_monval>. */
IIAC	Input, Invalid ACcess identifier /* Invalid AID entered. */ /* AID not in Partition. */
IIPG	Input, Invalid Parameter Grouping /* Invalid location for requested montype. */
SDBE	Status, internal Data Base Error /* Failed to set pointer to FM OC3 record. */ /* Could not get controlling level 2 processor id. */
SNVS	Status, Not in Valid State /* Facility is unprovisioned. */ /* AID not as provisioned. */
SROF	Status, Requested Operation Failed /* Unable to determine facility type. */ /* Number of montypes exceeds the maximum number of montypes allowed. */ /* Unable to allocate memory for user data. */ /* Unable to send message to the Level 2 Processor. */ /* Unable to determine supporting facility entity. */ /* Unable to process montype <NUM>. */

EXAMPLES

In the following example, the near-end and far-end 15-minute coding violations, line (CV-L) PM collection registers for OC-3 port OC3-106 are initialized to zero.

```
INIT-REG-OC3::OC3-106::CVL,,,15-MIN;
```

In the following example, all near-end and far-end daily (1-Day) PM collection registers for OC-3 port OC3-107 are initialized to zero.

```
INIT-REG-OC3::OC3-107::ALL,,,1-DAY;
```


RELATED COMMANDS

ENT-OC3
RTRV-DFLTTH-OC3
RTRV-PM-OC3
RTRV-PMATTR-ALL
RTRV-PMODE-OC3
RTRV-TH-OC3
SET-DFLTTH-OC3
SET-PMATTR-ALL
SET-PMODE-OC3
SET-TH-OC3

RELATED AUTONOMOUS RESPONSES

REPT^EVT^OC3

COMMAND CODE: INIT-REG-STS1
COMMAND NAME: INITIALIZE PERFORMANCE
MONITORING REGISTER STS-1

PURPOSE

The INIT-REG-STS1 command initializes the current 15-Minute or current 1-Day (specified by TMPER) PM collection registers for the monitored parameters (specified by MONTYPE and LOCN) pertaining to the specified STS-1 port to the value specified by MONVAL.

An INIT-REG-STS1 command is denied if:

- The specified STS-1 port is not provisioned (using ENT-STS1).
- The specified STS-1 port is embedded within a protection OC-3/OC-12.
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

INIT-REG-STS1: [TID] :AID: [CTAG] : : [MONTYPE] , [MONVAL] , [LOCN] ,
[DIRN] , [TMPER] [,] [,] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >		
	Default:	<SID>	
	Addressing:	None	
	Description:	Target Identifier, specifies the network node TID for the command.	
AID	STS1_AID:		
	{EC1STS1-{1-3840}}	(EC1STS1-EC1/STS1#)	
	{OC3STS1-{1-2240}-{1-3}}	(OC3STS1-OC3#-STS1#)	
	{OC12STS1-{1-560}-{1-4}-{1-3}}	(OC12STS1-OC12#-STM1#-STS1#)	
	Default:	Entry Required	
	Addressing:	&&-ranging and &-grouping	
	Description:	STS1 AID, identifies the STS-1 port.	
CTAG	< 1-6 VALID CTAG CHARACTERS >		
	Default:	< System assigned CTAG value >	
	Addressing:	None	
	Description:	Correlation Tag, associates input command with its output responses.	

MONTYPE {ALL},
NEAR_END_PARAMETERS:{ALS-P, ALSP, CV-P, CVP, ES-P, ESP, ESA-P, ESAP,
ESB-P, ESBP, FC-P, FCP, SES-P, SESP, UAS-P, UASP},
FAR_END_PARAMETERS:{ALS-P, ALSP, CV-P, CVP, ES-P, ESP, ESA-P, ESAP,
ESB-P, ESBP, FC-P, FCP, SES-P, SESP, UAS-P, UASP}
Default: {ALL}
Addressing: None
Description: Monitored Parameter Type, identifies the type of monitored parameter whose PM register is to be initialized. A parameter may be specified by more than one value, e.g., parameter values may be entered with or without the dash (-). Refer to Appendix F, Monitored PM Parameters for a list of all monitored PM parameters. Values are:

ALL	All, all monitored parameter PM registers.
ALS-P, ALSP	Alarm Indication Signal/Loss of Pointer – Path, ALS-P register.
CV-P, CVP	Coding Violations – Path, CV-P register.
ES-P, ESP	Errored Seconds – Path, ES-P register.
ESA-P, ESAP	Errored Seconds type A – Path, ESA-P register.
ESB-P, ESBP	Errored Seconds type B – Path, ESB-P register.
FC-P, FCP	Failure Counts – Path, FC-P register.
SES-P, SESP	Severely Errored Seconds – Path, SES-P register.
UAS-P, UASP	Unavailable Seconds – Path, UAS-P register.

MONVAL {0-4294967295}
Default: { 0 }
Addressing: None
Description: Monitor Value, specifies the value to be set in the register specified by the MONTYPE, LOCN, and TMPER. Values for each monitored parameter are:

MONVAL Values vs. MONTYPE		
MONTYPE	15-Minute PM Register	1-Day PM Register
ALL	{0-150}	{0-14400}
CV-P	{0-4294967295}	{0-4294967295}
FC-P	{0-150}	{0-14400}
<All other MONTYPES>	{0-900}	{0-65535}

Restrictions: INIT-REG-STs1 is denied if the entered MONVAL value is not valid for the specified MONTYPE.

LOCN {FEND, NEND}
Default: < All applicable locations for the selected monitored parameters >
Addressing: None
Description: Location, specifies whether PM registers for near-end or far-end PM monitoring are to be initialized. Values are:

FEND	Far-End
NEND	Near-End

DIRN	{NA, RCV, TRMT}	
	Default:	< All applicable directions >
	Addressing:	None
	Description:	Direction, specifies the direction of the signal being monitored. The value for DIRN is verified, but does not affect the function of the INIT-REG-STS1 command.
	NA	Not Applicable
TMPER	RCV	Receive side
	TRMT	Transmit direction
	{15-MIN, 1-DAY}	
	Default:	{15-MIN}
	Addressing:	None
	Description:	Time Period, specifies whether the 15-minute or the daily (24 hour) PM collection register for the specified parameter is to be initialized. Values are:
	15-MIN	15-Minute PM collection register.
	1-DAY	1-Day (24 hour) PM collection register.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  /* Error occurred while provisioning equipment. */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

ICNV	Input, Command Not Valid
	/* Invalid command requested. */
IDNV	Input, Data Not Valid
	/* Invalid direction in request message. */
	/* Invalid location in request message. */
	/* Invalid montype in request message. */
	/* Invalid monitor value in request message. */
	/* Invalid time period in request message. */
	/* Monitor value for this montype must not be greater than <max_monval>. */
IIAC	Input, Invalid ACcess identifier
	/* Invalid AID entered. */
	/* AID not in Partition. */
IIPG	Input, Invalid Parameter Grouping
	/* Invalid location for requested montype. */
SDBE	Status, internal Data Base Error
	/* Failed to set pointer to FM STS1 record. */
	/* Could not get controlling level 2 processor id. */

SNVS	Status, Not in Valid State /* Facility is unprovisioned. */ /* AID not as provisioned. */
SROF	Status, Requested Operation Failed /* Unable to determine facility type. */ /* Number of montypes exceeds the maximum number of montypes allowed. */ /* Unable to allocate memory for user data. */ /* Unable to send message to the Level 2 Processor. */ /* Unable to determine supporting facility entity. */ /* Unable to process montype <NUM>. */

EXAMPLES

In the following example, the near-end and far-end 15-minute coding violations, path (CV-P) PM collection register for STS-1 port EC1STS1-632 is initialized to zero.

```
INIT-REG-STs1::EC1STS1-632::CVP,,,15-MIN;
```

In the following example, all near-end and far-end daily (1-Day) PM collection registers for STS-1 port EC1STS1-633 are initialized to zero.

```
INIT-REG-STs1::EC1STS1-633::ALL,,,1-DAY;
```

RELATED COMMANDS

```
ENT-EC1  
ENT-OC3  
ENT-STs1  
RTRV-DFLTTH-STs1  
RTRV-PM-STs1  
RTRV-PMATTR-ALL  
RTRV-PMODE-STs1  
RTRV-TH-STs1  
SET-DFLTTH-STs1  
SET-PMATTR-ALL  
SET-PMODE-STs1  
SET-TH-STs1
```

RELATED AUTONOMOUS RESPONSES

```
REPT^EVT^STs1
```

COMMAND CODE: INIT-REG-STS3C
COMMAND NAME: INITIALIZE PERFORMANCE
MONITORING REGISTER STS-3C

PURPOSE

The INIT-REG-STS3C command initializes the current 15-Minute or current 1-Day (specified by TMPER) PM collection registers for the monitored parameters (specified by MONTYPE and LOCN) pertaining to the specified STS-3C port to the value specified by MONVAL.

An INIT-REG-STS3C command is denied if:

- The specified STS-3C port is not provisioned (using ENT-STS3C).
- The specified STS-3C port is embedded within a protection OC-3/OC-12.
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

INIT-REG-STS3C: [TID] :AID: [CTAG] : : [MONTYPE] , [MONVAL] , [LOCN] ,
[DIRN] , [TMPER] [,] [,] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.																		
AID	STS3C_AID: {OC3STS3C-{1-2240}} (OC3STS3C-OC3#/STS3C#) {OC12STS3C-{1-560}-{1-4}} (OC12STS3C-OC12#-STM1/STS3C#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: STS3C AID, identifies the STS-3C port.																		
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.																		
MONTYPE	{ALL}, NEAR_END_PARAMETERS:{ALS-P, ALSP, CV-P, CVP, ES-P, ESP, ESA-P, ESAP, ESB-P, ESBP, FC-P, FCP, SES-P, SESP, UAS-P, UASP}, FAR_END_PARAMETERS:{ALS-P, ALSP, CV-P, CVP, ES-P, ESP, ESA-P, ESAP, ESB-P, ESBP, FC-P, FCP, SES-P, SESP, UAS-P, UASP} Default: {ALL} Addressing: None Description: Monitored Parameter Type, identifies the type of monitored parameter whose PM register is to be initialized. A parameter may be specified by more than one value, e.g., parameter values may be entered with or without the dash (-). Refer to Appendix F, Monitored PM Parameters for a list of all monitored PM parameters. Values are: <table> <tr> <td>ALL</td><td>All, all monitored parameter PM registers.</td></tr> <tr> <td>ALS-P, ALSP</td><td>Alarm Indication Signal/Loss of Pointer - Path, ALS-P register.</td></tr> <tr> <td>CV-P, CVP</td><td>Coding Violations - Path, CV-P register.</td></tr> <tr> <td>ES-P, ESP</td><td>Errored Seconds - Path, ES-P register.</td></tr> <tr> <td>ESA-P, ESAP</td><td>Errored Seconds type A - Path, ESA-P register.</td></tr> <tr> <td>ESB-P, ESBP</td><td>Errored Seconds type B - Path, ESB-P register.</td></tr> <tr> <td>FC-P, FCP</td><td>Failure Counts - Path, FC-P register.</td></tr> <tr> <td>SES-P, SESP</td><td>Severely Errored Seconds - Path, SES-P register.</td></tr> <tr> <td>UAS-P, UASP</td><td>Unavailable Seconds - Path, UAS-P register.</td></tr> </table>	ALL	All, all monitored parameter PM registers.	ALS-P, ALSP	Alarm Indication Signal/Loss of Pointer - Path, ALS-P register.	CV-P, CVP	Coding Violations - Path, CV-P register.	ES-P, ESP	Errored Seconds - Path, ES-P register.	ESA-P, ESAP	Errored Seconds type A - Path, ESA-P register.	ESB-P, ESBP	Errored Seconds type B - Path, ESB-P register.	FC-P, FCP	Failure Counts - Path, FC-P register.	SES-P, SESP	Severely Errored Seconds - Path, SES-P register.	UAS-P, UASP	Unavailable Seconds - Path, UAS-P register.
ALL	All, all monitored parameter PM registers.																		
ALS-P, ALSP	Alarm Indication Signal/Loss of Pointer - Path, ALS-P register.																		
CV-P, CVP	Coding Violations - Path, CV-P register.																		
ES-P, ESP	Errored Seconds - Path, ES-P register.																		
ESA-P, ESAP	Errored Seconds type A - Path, ESA-P register.																		
ESB-P, ESBP	Errored Seconds type B - Path, ESB-P register.																		
FC-P, FCP	Failure Counts - Path, FC-P register.																		
SES-P, SESP	Severely Errored Seconds - Path, SES-P register.																		
UAS-P, UASP	Unavailable Seconds - Path, UAS-P register.																		

MONVAL {0–4294967295}
Default: { 0 }
Addressing: None
Description: Monitor Value, specifies the value to be set in the register specified by the MONTYPE, LOCN, and TMPER. Values for each monitored parameter are:

MONVAL Values vs. MONTYPE		
MONTYPE	15–Minute PM Register	1–Day PM Register
ALL	{0–150}	{0–14400}
CV–P	{0–4294967295}	{0–4294967295}
FC–P	{0–150}	{0–14400}
<All other MONTYPES>	{0–900}	{0–65535}

Restrictions: INIT–REG–STS3C is denied if the entered MONVAL value is not valid for the specified MONTYPE.

LOCN {FEND, NEND}
Default: < All applicable locations for the selected monitored parameters >
Addressing: None
Description: Location, specifies whether PM registers for near–end or far–end PM monitoring are to be initialized. Values are:

FEND	Far–End
NEND	Near–End

DIRN {NA, RCV, TRMT}
Default: {NA}
Addressing: None
Description: Direction, specifies the direction of the signal being monitored. The value for DIRN is verified, but does not affect the function of the INIT–REG–STS3C command.

NA	Not Applicable
RCV	Receive side
TRMT	Transmit direction

TMPER {15–MIN, 1–DAY}
Default: {15–MIN}
Addressing: None
Description: Time Period, specifies whether the 15–minute or the daily (24 hour) PM collection register for the specified parameter is to be initialized. Values are:

15–MIN	15–Minute PM collection register.
1–DAY	1–Day (24 hour) PM collection register.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* Error occurred while provisioning equipment. */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```


UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

ICNV	Input, Command Not Valid /* Invalid command requested. */
IDNV	Input, Data Not Valid /* Invalid direction in request message. */ /* Invalid location in request message. */ /* Invalid montype in request message. */ /* Invalid monitor value in request message. */ /* Invalid time period in request message. */ /* Monitor value for this montype must not be greater than <max_monval>. */
IIAC	Input, Invalid ACcess identifier /* Invalid AID entered. */ /* AID not in Partition. */
IIPG	Input, Invalid Parameter Grouping /* Invalid location for requested montype. */
SDBE	Status, internal Data Base Error /* Failed to set pointer to FM STS3C record. */ /* Could not get controlling level 2 processor id. */
SNVS	Status, Not in Valid State /* Facility is unprovisioned. */ /* AID not as provisioned. */
SROF	Status, Requested Operation Failed /* Unable to determine facility type. */ /* Number of montypes exceeds the maximum number of montypes allowed. */ /* Unable to allocate memory for user data. */ /* Unable to send message to the Level 2 Processor. */ /* Unable to determine supporting facility entity. */ /* Unable to process montype <NUM>. */

EXAMPLES

In the following example, the near-end and far-end 15-minute coding violations, path (CV-P) PM collection register for STS-3C port OC3STS3C-632 is initialized to zero.

```
INIT-REG-ST3C::OC3STS3C-632::CVP,,,15-MIN;
```

In the following example, all near-end and far-end daily (1-Day) PM collection registers for STS-3C port OC3STS3C-633 are initialized to zero.

```
INIT-REG-ST3C::OC3STS3C-633::ALL,,,1-DAY;
```

RELATED COMMANDS

```

ENT-ST3C
RTRV-DFLTTH-ST3C

```

3AL45392AJ

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RTRV-PM-STS3C
RTRV-PMATTR-ALL
RTRV-PMODE-STS3C
RTRV-TH-STS3C
SET-DFLTTH-STS3C
SET-PMATTR-ALL
SET-PMODE-STS3C
SET-TH-STS3C

RELATED AUTONOMOUS RESPONSES

REPT^EVT^STS3C

COMMAND CODE: INIT-REG-T1
COMMAND NAME: INITIALIZE PERFORMANCE
MONITORING REGISTER T1

PURPOSE

The INIT-REG-T1 command initializes the current 15-Minute or current 1-Day (specified by TMPER) PM collection registers for the monitored parameters (specified by MONTYPE and LOCN) pertaining to the specified DS1 port to the value specified by MONVAL.

An INIT-REG-T1 command is denied if:

- The specified DS1 port is not provisioned (using ENT-T1).
- The specified DS1 port is embedded within a protection OC-3/OC-12.
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

INIT-REG-T1: [TID] :AID: [CTAG] :: [MONTYPE] , [MONVAL] , [LOCN] ,
[DIRN] , [TMPER] [,] [,] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >	
	Default:	<SID>
	Addressing:	None
	Description:	Target Identifier, specifies the network node TID for the command.
AID	DS1_AID:	
	{T1-{1-59392}}	(T1-DS1#)
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)
	{EC1T1-{1-3840}-{1-28}}	(EC1T1-EC1/STS1/DS3#-DS1#)
	{EC1T1-{1-3840}-{1-7}-{1-4}}	(EC1T1-EC1/STS1#-VTGrp#-VT1/DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-28}}	(OC3T1-OC3#-STS1/DS3#-DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3T1-OC3#-STS1#-VTGrp#-VT1/DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}	(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	(OC12T1-OC12#-STM1#-STS1#-VTGrp#-VT1/DS1#)
	Default:	Entry Required
	Addressing:	&&-ranging and &-grouping
	Description:	DS1 AID, identifies the DS1 port.
CTAG	< 1-6 VALID CTAG CHARACTERS >	
	Default:	< System assigned CTAG value >
	Addressing:	None
	Description:	Correlation Tag, associates input command with its output responses.

MONTYPE	{ALL}, NEAR_END_PARAMETERS:{AISS, AISS-P, AISSP, CV-L, CVL, CV-P, CVP, ES-L, ESL, ES-P, ESP, ESA-P, ESAP, ESB-P, ESBP, FC-P, FCP, LOSS, LOSS-L, LOSSL, QRSSS, QRSSS-P, QRSSSP, SAS-P, SASP, SES-L, SESL, SES-P, SESP, UAS-P, UASP}, FAR_END_PARAMETERS:{CSS, CSS-P, CSSP, CV-P, CVP, ES-L, ESL, ES-P, ESP, ESA-P, ESAP, ESB-P, ESBP, FC-P, FCP, SEFS, SEFS-P, SEFSP, SES-P, SESP, UAS-P, UASP}
Default:	{ALL}
Addressing:	None
Description:	Monitored Parameter Type, identifies the type of monitored parameter whose PM register is to be initialized. A parameter may be specified by more than one value, e.g., parameter values may be entered with or without the dash (-). Refer to Appendix F, Monitored PM Parameters for a list of all monitored PM parameters. Values are:
ALL	All, all monitored parameter PM registers.
AISS, AISS-P, AISSP	Alarm Indication Signal Seconds – Path, AISS register. (Near-end only.)
CSS, CSS-P, CSSP	Controlled Slip Seconds – Path, CSS register. (Far-end only.)
CV-L, CVL	Coding Violations – Line, CV-L register. (Near-end electrical T1 only.)
CV-P, CVP	Coding Violations – Path, CV-P register.
ES-L, ESL	Errored Seconds – Line, ES-L register. (Near-end electrical T1 or Far-end embedded T1.)
ES-P, ESP	Errored Seconds – Path, ES-P register.
ESA-P, ESAP	Errored Seconds type A – Path, ESA-P register.
ESB-P, ESBP	Errored Seconds type B – Path, ESB-P register.
FC-P, FCP	Failure Count – Path, FC-P register.
LOSS, LOSS-L, LOSSL	Loss of Signal Seconds – Line, LOSS register. (Near-end electrical T1 only.)
QRSSS, QRSSS-P, QRSSSP	QRSS Seconds – Path, QRSSS-P register. (Near-end only.)
SAS-P, SASP	Severe AIS Seconds – Path, SAS-P register. (Near-end only.)
SEFS, SEFS-P, SEFSP	Severely Errored Frame Seconds, SEFS register. (Far-end only.)
SES-L, SESL	Severely Errored Seconds – Line, SES-L register. (Near-end electrical T1 only.)
SES-P, SESP	Severely Errored Seconds – Path, SES-P register.
UAS-P, UASP	Unavailable Seconds – Path, UAS-P register.
Restrictions:	INIT-REG-T1 is denied if the specified MONTYPE value is not supported for the specified LOCN value (e.g., MONTYPE of AISS and LOCN of FEND is entered).

MONVAL {0–4294967295}
Default: { 0 }
Addressing: None
Description: Monitor Value, specifies the value to be set in the register specified by the MONTYPE, LOCN, and TMPER. Values for each monitored parameter are:

MONVAL Values vs. MONTYPE		
MONTYPE	15–Minute PM Register	1–Day PM Register
ALL	{0–150}	{0–14400}
CV–L, CV–P	{0–4294967295}	{0–4294967295}
FC–P	{0–150}	{0–14400}
<All other MONTYPES>	{0–900}	{0–65535}

Restrictions: INIT–REG–T1 is denied if the entered MONVAL value is not valid for the specified MONTYPE.

LOCN {FEND, NEND}
Default: < All applicable locations for the selected monitored parameters >
Addressing: None
Description: Location, specifies whether PM registers for near–end or far–end PM monitoring are to be initialized. Values are:
 FEND Far–End
 NEND Near–End
Restrictions: INIT–REG–T1 is denied if the specified MONTYPE value is not supported for the specified LOCN value (e.g., MONTYPE of AISS and LOCN of FEND is entered).

DIRN {NA, RCV, TRMT}
Default: < All applicable directions >
Addressing: None
Description: Direction, specifies the direction of the signal being monitored. The value for DIRN is verified, but does not affect the function of the INIT–REG–T1 command.
 NA Not Applicable
 RCV Receive side
 TRMT Transmit direction

TMPER {15–MIN, 1–DAY}
Default: {15–MIN}
Addressing: None
Description: Time Period, specifies whether the 15–minute or the daily (24 hour) PM collection register for the specified parameter is to be initialized. Values are:
 15–MIN 15–Minute PM collection register
 1–DAY 1–Day (24 hour) PM collection register

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* Error occurred while provisioning equipment. */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

ICNV	Input, Command Not Valid /* Invalid command requested. */
IDNV	Input, Data Not Valid /* Invalid direction in request message. */ /* Invalid location in request message. */ /* Invalid montype in request message. */ /* Invalid monitor value in request message. */ /* Invalid time period in request message. */ /* Monitor value for this montype must not be greater than <max_monval>. */
IIAC	Input, Invalid ACcess identifier /* Invalid AID entered. */ /* AID not in Partition. */
IIPG	Input, Invalid Parameter Grouping /* Invalid location for requested montype. */
SDBE	Status, internal Data Base Error /* Failed to set pointer to FM T1 record. */ /* Could not get controlling level 2 processor id. */
SNVS	Status, Not in Valid State /* Facility is unprovisioned. */ /* AID not as provisioned. */
SROF	Status, Requested Operation Failed /* Unable to determine facility type. */ /* Number of montypes exceeds the maximum number of montypes allowed. */ /* Unable to allocate memory for user data. */ /* Unable to send message to the Level 2 Processor. */ /* Unable to determine supporting facility entity. */ /* Unable to process montype <NUM>. */

EXAMPLES

In the following example, both the near-end and far-end 15-minute severely errored seconds, path (SES-P) PM collection register for DS1 port T3T1-1495-3 are initialized to zero.

```
INIT-REG-T1::T3T1-1495-3::SESP,,,15-MIN;
```

In the following example, all near-end and far-end daily (1-Day) PM collection registers for DS1 port T3T1-1495-4 are initialized to zero.

```
INIT-REG-T1::T3T1-1495-4::ALL,,,1-DAY;
```

RELATED COMMANDS

ENT-T1
RTRV-DFLTTH-T1
RTRV-PM-T1
RTRV-PMATTR-ALL
RTRV-PMODE-T1
RTRV-TH-T1
SET-DFLTTH-T1
SET-PMATTR-ALL
SET-PMODE-T1
SET-TH-T1

RELATED AUTONOMOUS RESPONSES

REPT^EVT^T1

COMMAND CODE: **INIT-REG-T3**
 COMMAND NAME: **INITIALIZE PERFORMANCE
 MONITORING REGISTER T3**

PURPOSE

The INIT-REG-T3 command initializes the current 15-Minute or current 1-Day (specified by TMPER) PM collection registers for the monitored parameters (specified by MONTYPE and LOCN) pertaining to the specified DS3 port to the value specified by MONVAL.

An INIT-REG-T3 command is denied if:

- The specified DS3 port is not provisioned (using ENT-T3).
- The specified DS3 port is embedded within a protection OC-3/OC-12.
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

```
INIT-REG-T3: [TID]:AID:[CTAG]:[MONTYPE], [MONVAL], [LOCN],
[DIRN], [TMPER] [, ] [, ];
```

INPUT PARAMETERS

TID	< 1–20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	DS3_AID: {T3-{1-4800}} (T3-DS3#) {EC1T3-{1-3840}} (EC1T3-EC1/STS1/DS3#) {OC3T3-{1-2240}-{1-3}} (OC3T3-OC3#-STS1/DS3#) {OC12T3-{1-560}-{1-4}-{1-3}} (OC12T3-OC12#-STM1#-STS1/DS3#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: DS3 AID, identifies the DS3 port.
CTAG	< 1–6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
MONTYPE	{ALL}, NEAR_END_PARAMETERS:{AISS, AISS-P, AISSP, CV-L, CVL, CV-P, CVP, CVCP-P, CVCPP, ES-L, ESL, ES-P, ESP, ESA-L, ESAL, ESA-P, ESAP, ESACP-P, ESACPP, ESB-L, ESDL, ESB-P, ESBP, EBCP-P, EBCPP, ESCP-P, ESCPP, FC-P, FCP, LOSS, LOSS-L, LOSSL, SAS-P, SASP, SES-L, SESL, SES-P, SESP, SESCP-P, SESCPP, UAS-P, UASP, UASCP-P, UASCPP}, FAR_END_PARAMETERS:{CVCP-P, CVCPP, ESACP-P, ESACPP, EBCP-P, EBCPP, ESCP-P, ESCPP, FCCP-P, FCCPP, SASCP-P, SASCPP, SESC-P, SESCP, UASCP-P, UASCPP} Default: {ALL} Addressing: None Description: Monitored Parameter Type, identifies the type of monitored parameter whose PM register is to be initialized. A parameter may be specified by more than one value, e.g., parameter values may be entered with or without dashes.

without the dash (–). Refer to Appendix F, Monitored PM Parameters for a list of all monitored PM parameters. Values are:

ALL	All, all monitored parameter PM registers.
AISS, AISS–P, AISSP	Alarm Indication Signal Seconds – Path, AISS register. (Near–end only.)
CV–L, CVL	Coding Violations – Line, CV–L register. (Near–end electrical T3 only.)
CV–P, CVP	Coding Violations – Path, CV–P register. (Near–end only.)
CVCP–P, CVCPP	Code Violations, CP–bit parity – Path, CVCP–P register.
ES–L, ESL	Errored Seconds – Line, ES–L register. (Near–end electrical T3 only.)
ES–P, ESP	Errored Seconds – Path, ES–P register. (Near–end only.)
ESA–L, ESAL	Errored Seconds type A – Line, ESA–L register. (Near–end electrical T3 only.)
ESA–P, ESAP	Errored Seconds type A – Path, ESA–P register. (Near–end only.)
ESACP–P, ESACPP	Errored Seconds type A, CP–bit parity – Path, ESACP–P register.
ESB–L, ESBL	Errored Seconds type B – Line, ESB–L register. (Near–end electrical T3 only.)
ESB–P, ESBP	Errored Seconds type B – Path, ESB–P register. (Near–end only.)
ESBCP–P, ESBCPP	Errored Seconds type B, CP–bit parity – Path, ESBCP–P register.
ESCP–P, ESCPP	Errored Seconds, CP–bit parity – Path, ESCP–P register.
FC–P, FCP	Failure Counts – Path, FC–P register. (Near–end only.)
FCCP–P, FCCPP	Failure Counts, CP–bit parity – Path, FC–P register. (Far–end only.)
LOSS, LOSS–L, LOSSL	Loss Of Signal Seconds – Line, LOSS register. (Near–end electrical T3 only.)
SAS–P, SASP	Severe AIS Seconds – Path, SAS–P register. (Near–end only.)
SASCP–P, SASCPP	Severe AIS Seconds, CP–bit parity – Path, SASCP–P register. (Far–end only.)
SES–L, SESL	Severely Errored Seconds – Line, SES–L register. (Near–end electrical T3 only.)
SES–P, SESP	Severely Errored Seconds – Path, SES–P register. (Near–end only.)
SESCP–P, SES CPP	Severely Errored Seconds, CP–bit parity – Path, SESCP–P register.

UAS-P, UASP Unavailable Seconds – Path, UAS-P register. (Near-end only.)
UASCP-P, UASCPP Unavailable Seconds, CP-bit parity – Path, UASCP-P register.

Restrictions: INIT-REG-T3 is denied if the specified MONTYPE value is not supported for the specified LOCN value (e.g., MONTYPE of AISS and LOCN of FEND is entered).

MONVAL {0-4294967295}
Default: { 0 }
Addressing: None
Description: Monitor Value, specifies the value to be set in the register specified by the MONTYPE, LOCN, and TMPER. Values for each monitored parameter are:

MONVAL Values vs. MONTYPE		
MONTYPE	15-Minute PM Register	1-Day PM Register
ALL	{0-150}	{0-14400}
CV-L, CV-P, CVCP-P	{0-4294967295}	{0-4294967295}
FC-P, FCCP-P	{0-150}	{0-14400}
<All other MONTYPES>	{0-900}	{0-65535}

Restrictions: INIT-REG-T3 is denied if the entered MONVAL value is not valid for the specified MONTYPE.

LOCN {FEND, NEND}
Default: < All applicable locations for the selected monitored parameters >
Addressing: None
Description: Location, specifies whether PM registers for near-end or far-end PM monitoring are to be initialized. Values are:
 FEND Far-End
 NEND Near-End
Restrictions: INIT-REG-T3 is denied if the specified MONTYPE value is not supported for the specified LOCN value (e.g., MONTYPE of AISS and LOCN of FEND is entered).

DIRN {NA, RCV, TRMT}
Default: < All applicable directions >
Addressing: None
Description: Direction, specifies the direction of the signal being monitored. The value for DIRN is verified, but does not affect the function of the INIT-REG-T3 command.
 NA Not Applicable
 RCV Receive side
 TRMT Transmit direction

TMPER {15-MIN, 1-DAY}
Default: {15-MIN}
Addressing: None
Description: Time Period, specifies whether the 15-minute or the daily (24 hour) PM collection register for the specified parameter is to be initialized. Values are:
 15-MIN 15-Minute PM collection register.
 1-DAY 1-Day (24 hour) PM collection register.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  /* Error occurred while provisioning equipment. */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

ICNV	Input, Command Not Valid /* Invalid command requested. */
IDNV	Input, Data Not Valid /* Invalid direction in request message. */ /* Invalid location in request message. */ /* Invalid montype in request message. */ /* Invalid monitor value in request message. */ /* Invalid time period in request message. */ /* Monitor value for this montype must not be greater than <max_monval>. */
IIAC	Input, Invalid ACcess identifier /* Invalid AID entered. */ /* AID not in Partition. */
IIPG	Input, Invalid Parameter Grouping /* Invalid location for requested montype. */
SDBE	Status, internal Data Base Error /* Failed to set pointer to FM T3 record. */ /* Could not get controlling level 2 processor id. */
SNVS	Status, Not in Valid State /* Facility is unprovisioned. */ /* AID not as provisioned. */
SROF	Status, Requested Operation Failed /* Unable to determine facility type. */ /* Number of montypes exceeds the maximum number of montypes allowed. */ /* Unable to allocate memory for user data. */ /* Unable to send message to the Level 2 Processor. */ /* Unable to determine supporting facility entity. */ /* Unable to process montype <NUM>. */

EXAMPLES

In the following example, the near-end 15-minute coding violations, line (CV-L) PM collection register for DS3 port T3-1592 is initialized to zero.

```
INIT-REG-T3::T3-1592::CVL,,,15-MIN;
```

In the following example, all near-end and far-end daily (1-Day) PM collection registers for DS3 port T3-1593 are initialized to zero.

```
INIT-REG-T3::T3-1593::ALL,,,1-DAY;
```

RELATED COMMANDS

```
ENT-T3  
RTRV-DFLTTH-T3  
RTRV-PM-T3  
RTRV-PMATTR-ALL  
RTRV-PMODE-T3  
RTRV-TH-T3  
SET-DFLTTH-T3  
SET-PMATTR-ALL  
SET-PMODE-T3  
SET-TH-T3
```

RELATED AUTONOMOUS RESPONSES

```
REPT^EVT^T3
```


COMMAND CODE: INIT-REG-VT1
COMMAND NAME: INITIALIZE PERFORMANCE
MONITORING REGISTER VT1

PURPOSE

The INIT-REG-VT1 command initializes the current 15-Minute or current 1-Day (specified by TMPER) PM collection registers for the monitored parameters (specified by MONTYPE and LOCN) pertaining to the specified VT1.5 port to the value specified by MONVAL.

An INIT-REG-VT1 command is denied if:

- The specified VT1.5 port is not provisioned (using ENT-VT1).
- The specified VT1.5 port is embedded within a protection OC-3/OC-12.
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

INIT-REG-VT1: [TID] : AID: [CTAG] :: [MONTYPE] , [MONVAL] , [LOCN] ,
[DIRN] , [TMPER] [,] [,] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >		
	Default:	<SID>	
	Addressing:	None	
	Description:	Target Identifier, specifies the network node TID for the command.	
AID	VT1_AID:		
	{EC1VT1-{1-3840}-{1-7}-{1-4}}	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)	
	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)	
	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}		
	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)		
	Default:	Entry Required	
	Addressing:	&&-ranging and &-grouping	
	Description:	VT1 AID, identifies the VT1.5 port.	
CTAG	< 1-6 VALID CTAG CHARACTERS >		
	Default:	< System assigned CTAG value >	
	Addressing:	None	
	Description:	Correlation Tag, associates input command with its output responses.	

MONTYPE {ALL},
NEAR_END_PARAMETERS:{ALS-V, ALSV, CV-V, CVV, ES-V, ESV, ESA-V, ESAV,
ESB-V, ESBV, FC-V, FCV, SES-V, SESV, UAS-V, UASV},
FAR_END_PARAMETERS:{ALS-V, ALSV, CV-V, CVV, ES-V, ESV, ESA-V, ESAV,
ESB-V, ESBV, FC-V, FCV, SES-V, SESV, UAS-V, UASV}
Default: {ALL}
Addressing: None
Description: Monitored Parameter Type, identifies the type of monitored parameter whose PM register is to be initialized. A parameter may be specified by more than one value, e.g., parameter values may be entered with or without the dash (-). Refer to Appendix F, Monitored PM Parameters for a list of all monitored PM parameters. Values are:

ALL	All, all monitored parameter PM registers.
ALS-V, ALSV	Alarm Indication Signal/Loss of Pointer – VT Path, ALS-V register.
CV-V, CVV	Coding Violations – VT Path, CV-V register.
ES-V, ESV	Errored Seconds – VT Path, ES-V register.
ESA-V, ESAV	Errored Seconds type A – VT Path, ESA-V register.
ESB-V, ESBV	Errored Seconds type B – VT Path, ESB-V register.
FC-V, FCV	Failure Counts – VT Path, FC-V register.
SES-V, SESV	Severely Errored Seconds – VT Path, SES-V register.
UAS-V, UASV	Unavailable Seconds – VT Path, UAS-V register.

MONVAL {0-4294967295}
Default: { 0 }
Addressing: None
Description: Monitor Value, specifies the value to be set in the register specified by the MONTYPE, LOCN, and TMPER. Values for each monitored parameter are:

MONVAL Values vs. MONTYPE		
MONTYPE	15-Minute PM Register	1-Day PM Register
ALL	{0-150}	{0-14400}
CV-V	{0-4294967295}	{0-4294967295}
FC-V	{0-150}	{0-14400}
<All other MONTYPES>	{0-900}	{0-65535}

Restrictions: INIT-REG-VT1 is denied if the entered MONVAL value is not valid for the specified MONTYPE.

LOCN {FEND, NEND}
Default: < All applicable locations for the selected monitored parameters >
Addressing: None
Description: Location, specifies whether PM registers for near-end or far-end PM monitoring are to be initialized. Values are:

FEND	Far-End
NEND	Near-End

DIRN	{NA, RCV, TRMT}					
	Default: < All applicable directions >					
	Addressing: None					
	Description: Direction, specifies the direction of the signal being monitored. The value for DIRN is verified, but does not affect the function of the INIT-REG-VT1 command.					
	<table> <tr> <td>NA</td><td>Not Applicable</td></tr> <tr> <td>RCV</td><td>Receive side</td></tr> <tr> <td>TRMT</td><td>Transmit direction</td></tr> </table>	NA	Not Applicable	RCV	Receive side	TRMT
NA	Not Applicable					
RCV	Receive side					
TRMT	Transmit direction					
TMPER	{15-MIN, 1-DAY}					
	Default: {15-MIN}					
	Addressing: None					
	Description: Time Period, specifies whether the 15-minute or the daily (24 hour) PM collection register for the specified parameter is to be initialized. Values are:					
	<table> <tr> <td>15-MIN</td><td>15-Minute PM collection register.</td></tr> <tr> <td>1-DAY</td><td>1-Day (24 hour) PM collection register.</td></tr> </table>	15-MIN	15-Minute PM collection register.	1-DAY	1-Day (24 hour) PM collection register.	
15-MIN	15-Minute PM collection register.					
1-DAY	1-Day (24 hour) PM collection register.					

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  /* Error occurred while provisioning equipment. */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

ICNV	Input, Command Not Valid /* Invalid command requested. */
IDNV	Input, Data Not Valid /* Invalid direction in request message. */ /* Invalid location in request message. */ /* Invalid montype in request message. */ /* Invalid monitor value in request message. */ /* Invalid time period in request message. */
IDRG	Input, Data RanGe /* Monitor value for this montype must not be greater than <max_monval>. */
IIAC	Input, Invalid ACcess identifier /* Invalid AID entered. */ /* AID not in Partition. */
IIPG	Input, Invalid Parameter Grouping /* Invalid location for requested montype. */

SDBE	Status, internal Data Base Error /* Failed to set pointer to FM VT1 record. */ /* Could not get controlling level 2 processor id. */
SNVS	Status, Not in Valid State /* Facility is unprovisioned. */ /* AID not as provisioned. */
SROF	Status, Requested Operation Failed /* Unable to determine facility type. */ /* Number of montypes exceeds the maximum number of montypes allowed. */ /* Unable to allocate memory for user data. */ /* Unable to send message to the Level 2 Processor. */ /* Unable to determine supporting facility entity. */ /* Unable to process montype <NUM>. */

EXAMPLES

In the following example, the near-end and far-end 15-minute coding violations, VT path (CV-V) PM collection register for VT1.5 port EC1VT1-632-5-2 is initialized to zero.

```
INIT-REG-VT1::EC1VT1-632-5-2:::CVV, , , 15-MIN;
```

In the following example, all near-end and far-end daily (1-Day) PM collection registers for VT1.5 port EC1VT1-633-3-4 are initialized to zero.

```
INIT-REG-VT1::EC1VT1-633-3-4:::ALL, , , 1-DAY;
```

RELATED COMMANDS

```
ENT-EC1  
ENT-OC3  
ENT-STS1  
ENT-VT1  
RTRV-DFLTTH-VT1  
RTRV-PM-VT1  
RTRV-PMATTR-ALL  
RTRV-PMODE-VT1  
RTRV-TH-VT1  
SET-DFLTTH-VT1  
SET-PMATTR-ALL  
SET-PMODE-VT1  
SET-TH-VT1
```

RELATED AUTONOMOUS RESPONSES

```
REPT^EVT^VT1
```

COMMAND CODE: **INIT-SYS**
COMMAND NAME: **INITIALIZE SYSTEM**

PURPOSE

The INIT-SYS command resets and downloads (initializes) the processor-based circuit packs in the system. All existing cross-connections remain intact during the system initialization. A REPT^INITZN autonomous response is generated when the system initialization is complete.

The INIT-SYS command provides three levels (defined by the PH parameter) of “cold start” and “warm start” of the processor-based circuit packs that are provisioned and installed in the system, where a cold start results in a processor reset and download of both the processor executable (the software object code) and database and a warm start results in a download of only the processor database.

- If PH of 1 is entered, the (Administration Processing System) level-one processor-based circuit packs (ACM, CPU, CIM, ICM, SIO circuit packs) are cold started and the level-two (IPU, SPB) and level-three (DSB, EP3, ES1, M16, M32, M40, O1B, OXB, RPB) processor-based circuit packs are warm started.
- If PH of 2 is entered, the level-one and level-two (ACM, CPU, CIM, ICM, IPU, SIO, SPB) processor-based circuit packs are cold started and the level-three (DSB, EP3, ES1, M16, M32, M40, O1B, OXB, RPB) processor-based circuit packs are warm started.
- If PH of 3 is entered, the level-one, level-two, and level-three (ACM, CPU, CIM, ICM, IPU, SIO, SPB, DSB, EP3, ES1, M16, M32, M40, O1B, OXB, RPB) processor-based circuit packs are all cold started.

When an INIT-SYS is executed, all users are logged-off the system. During the system initialization process, CPORTs (Communication Ports) provisioned as a UID auto-login communication port are automatically initialized with the auto-login user logged-in. Non-auto-login users can login (via an ACT-USER command) to the system before the system initialization is complete when a CID (Communications Interface Device) receives a login prompt.

An INIT-SYS command can be scheduled for delayed activation. However, command parsing and parameter validation is not performed until the command is executed (at the delay activated scheduled date and time).

An INIT-SYS command is denied if:

- An invalid parameter value or combination of parameter values is entered.

An INIT-SYS does not affect existing cross-connections, but may prevent a user from adding or deleting cross-connections while the system initialization is in-progress. In addition, if an I/O circuit pack fails while the download to the supporting IPU or SPB circuit pack is in-progress, I/O protection switching of the failed I/O circuit pack will not occur until the supporting IPU or SPB circuit pack and the I/O protection circuit pack have completed downloading.

NOTE: Although the ON parameter value can be an integer from 0 to 999999, the user should limit the number of delayed activation commands at any given time to 500.

INPUT FORMAT

INIT-SYS: [TID] : [AID] : [CTAG] : [ON] , [DATE] , [TIME] , [FLAG] : PH;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	{SHELF_AID:{SHELF-{6-9, 12-15, 18-21, 24-43, 104-111, 136-141 }-{1, 3}-1}, <NoVal>} Default: < NoVal > Addressing: None Description: SHELF AID, specifies the Access IDentifier of the SHELF to be initialized.

CTAG	<p>< 1–6 VALID CTAG CHARACTERS ></p> <p>Default: < System assigned CTAG value ></p> <p>Addressing: None</p> <p>Description: Correlation Tag, associates input command with its output responses.</p>																														
ON	<p>{ON_AID:0–999999, <NoVal>}</p> <p>Default: <NoVal></p> <p>Addressing: None</p> <p>Description: Order Number, unique user–assigned integer number (up to six digits) used to identify scheduled (delay activated) commands. Values are:</p> <table> <tr> <td>{0–999999}</td><td>User–assigned Order Number. The command is scheduled to be executed as specified by DATE and TIME. If no value is entered for DATE or TIME, the command is scheduled for delayed manual activation (the command is entered in the delayed activation table and manually scheduled by using the ACT–DA command).</td></tr> <tr> <td><NoVal></td><td>No Value, the command is executed immediately. (No value is entered for ON (Order Number), DATE, and TIME if INIT–SYS is to be executed immediately – not delay activated.)</td></tr> </table> <p>Restrictions: INIT–SYS is denied if no value is entered for ON (Order Number) and a value is entered for either DATE, TIME, or FLAG.</p>	{0–999999}	User–assigned Order Number. The command is scheduled to be executed as specified by DATE and TIME. If no value is entered for DATE or TIME, the command is scheduled for delayed manual activation (the command is entered in the delayed activation table and manually scheduled by using the ACT–DA command).	<NoVal>	No Value, the command is executed immediately. (No value is entered for ON (Order Number), DATE, and TIME if INIT–SYS is to be executed immediately – not delay activated.)																										
{0–999999}	User–assigned Order Number. The command is scheduled to be executed as specified by DATE and TIME. If no value is entered for DATE or TIME, the command is scheduled for delayed manual activation (the command is entered in the delayed activation table and manually scheduled by using the ACT–DA command).																														
<NoVal>	No Value, the command is executed immediately. (No value is entered for ON (Order Number), DATE, and TIME if INIT–SYS is to be executed immediately – not delay activated.)																														
DATE	<p>{YY–MM–DD:{00–37,70–99} – {1–12, ALL} – {1–31, ALL}, {DAY:{SUN, MON, TUE, WED, THU, FRI, SAT, EVEN, ODD, ALL} }, <NoVal>}</p> <p>Default: <NoVal></p> <p>Addressing: None</p> <p>Description: Date, specifies the date the command is scheduled to be executed. A specific date is specified by the value format <YY> – <MM> – <DD> where <YY> is the year, <MM> is the month, <DD> is the day. Values for <YY> from 70 through 99 are interpreted as the year 1970 through the year 1999 and 00 through 37 are interpreted as the year 2000 through the year 2037. Values are:</p> <table> <tr> <td><YY> – <MM> – <DD></td><td>Command is scheduled to be executed on the specified year, month, and day.</td></tr> <tr> <td><YY> – <MM> – ALL</td><td>Command is scheduled to be executed every day on the specified year and month.</td></tr> <tr> <td><YY> –ALL– <DD></td><td>Command is scheduled to be executed every month on the specified year and day.</td></tr> <tr> <td><YY> –ALL–ALL</td><td>Command is scheduled to be executed every day of every month of the specified year.</td></tr> <tr> <td>ALL– <MM> – <DD></td><td>Command is scheduled to be executed every year on the specified month and day.</td></tr> <tr> <td>ALL– <MM> –ALL</td><td>Command is scheduled to be executed every day of every year on the specified month.</td></tr> <tr> <td>ALL–ALL– <DD></td><td>Command is scheduled to be executed every month of every year on the specified day.</td></tr> <tr> <td>SUN</td><td>Command is scheduled to be executed every Sunday.</td></tr> <tr> <td>MON</td><td>Command is scheduled to be executed every Monday.</td></tr> <tr> <td>TUE</td><td>Command is scheduled to be executed every Tuesday.</td></tr> <tr> <td>WED</td><td>Command is scheduled to be executed every Wednesday.</td></tr> <tr> <td>THU</td><td>Command is scheduled to be executed every Thursday.</td></tr> <tr> <td>FRI</td><td>Command is scheduled to be executed every Friday.</td></tr> <tr> <td>SAT</td><td>Command is scheduled to be executed every Saturday.</td></tr> <tr> <td>EVEN</td><td>Command is scheduled to be executed every even day</td></tr> </table>	<YY> – <MM> – <DD>	Command is scheduled to be executed on the specified year, month, and day.	<YY> – <MM> – ALL	Command is scheduled to be executed every day on the specified year and month.	<YY> –ALL– <DD>	Command is scheduled to be executed every month on the specified year and day.	<YY> –ALL–ALL	Command is scheduled to be executed every day of every month of the specified year.	ALL– <MM> – <DD>	Command is scheduled to be executed every year on the specified month and day.	ALL– <MM> –ALL	Command is scheduled to be executed every day of every year on the specified month.	ALL–ALL– <DD>	Command is scheduled to be executed every month of every year on the specified day.	SUN	Command is scheduled to be executed every Sunday.	MON	Command is scheduled to be executed every Monday.	TUE	Command is scheduled to be executed every Tuesday.	WED	Command is scheduled to be executed every Wednesday.	THU	Command is scheduled to be executed every Thursday.	FRI	Command is scheduled to be executed every Friday.	SAT	Command is scheduled to be executed every Saturday.	EVEN	Command is scheduled to be executed every even day
<YY> – <MM> – <DD>	Command is scheduled to be executed on the specified year, month, and day.																														
<YY> – <MM> – ALL	Command is scheduled to be executed every day on the specified year and month.																														
<YY> –ALL– <DD>	Command is scheduled to be executed every month on the specified year and day.																														
<YY> –ALL–ALL	Command is scheduled to be executed every day of every month of the specified year.																														
ALL– <MM> – <DD>	Command is scheduled to be executed every year on the specified month and day.																														
ALL– <MM> –ALL	Command is scheduled to be executed every day of every year on the specified month.																														
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MON	Command is scheduled to be executed every Monday.																														
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WED	Command is scheduled to be executed every Wednesday.																														
THU	Command is scheduled to be executed every Thursday.																														
FRI	Command is scheduled to be executed every Friday.																														
SAT	Command is scheduled to be executed every Saturday.																														
EVEN	Command is scheduled to be executed every even day																														

	<p>(from January 1, 1970).</p> <p>ODD Command is scheduled to be executed every odd day (from January 1, 1970).</p> <p>ALL Command is scheduled to be executed every day.</p> <p><NoVal> No Value, the command is executed immediately if no value is entered for ON (Order Number), DATE, and TIME (not delay activated), or the command is scheduled to be executed at the next occurrence of the time specified by TIME.</p>
	<p>Restrictions: INIT–SYS is denied if a value is entered for DATE and no value is entered for ON (Order Number).</p>
TIME	<p>{HH–MM–SS:{0–23, ALL} – {0–59} – {0–59, HLF, QTR}, <NoVal>}</p> <p>Default: <NoVal></p> <p>Addressing: None</p> <p>Description: Time, specifies the time the command is scheduled to be executed. A specific time is specified by the value format <HH> – <MM> – <SS> where <HH> is the hour, <MM> is the minute, and <SS> is the second. A value for <SS> must be entered, but the system uses a value of 0 when an integer value is entered. Values are:</p> <p><HH> – <MM> – <SS> The command is scheduled to be executed at the specified hour and minute.</p> <p>ALL– <MM> – <SS> The command is scheduled to be executed every hour at the specified minute.</p> <p><HH> – <MM> –HLF Two commands are scheduled to be executed, one command at the hour and minute specified by <HH> and <MM> and one command a half–hour (30 minutes) later. (<MM> must be less than 30.)</p> <p><HH> – <MM> –QTR Four commands are scheduled to be executed, one command at the hour and minute specified by <HH> and <MM> and one command each quarter–hour (15 minutes) later. (<MM> must be less than 15.)</p> <p>ALL– <MM> –HLF Two commands are scheduled to be executed every hour, one command at the minute specified by <MM> and one command a half–hour (30 minutes) later. (<MM> must be less than 30.)</p> <p>ALL– <MM> –QTR Four commands are scheduled to be executed every hour, one command at the minute specified by <MM> and one command each quarter–hour (15 minutes) later. (<MM> must be less than 15.)</p> <p><NoVal> No Value, the command is executed immediately if no value is entered for ON (Order Number), DATE, and TIME (not delay activated), or the command is scheduled to be executed at the current time on the date specified by DATE.</p> <p>Restrictions: INIT–SYS is denied if a value is entered for TIME and no value is entered for ON (Order Number). INIT–SYS is denied if <SS> of HLF or QTR is entered and <MM> is not less than 30 or 15, respectively.</p>
FLAG	<p>{0, <NoVal>}</p> <p>Default: <NoVal></p> <p>Addressing: None</p> <p>Description: Flag. The value for FLAG is verified, but not processed by the system.</p> <p>Restrictions: INIT–SYS is denied if a value is entered for FLAG and no value is entered for ON (Order Number).</p>

PH	{1, 2, 3}	
	Default:	Entry Required
	Addressing:	None
	Description:	Initialization Phase, specifies the level of system initialization for processor-based circuit packs that are provisioned and installed in the system. A cold start results in a processor reset and download of both the processor executable and database. A warm start results in a download of only the processor database. Values are:
	1	Cold start of the level-one processor-based circuit packs and warm start of any level-two and level-three processor-based circuit packs.
	2	Cold start of the level-one and level-two processor-based circuit packs and warm start of any level-three processor-based circuit packs.
	3	Cold start of the level-one, level-two, and level-three processor-based circuit packs.
	Restrictions:	If the AID is SHELF, an INIT-SYS command is only allowed with a PH value of 3 and is only allowed on I/O shelves.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  /* Cold start requested */
  /* Warm start requested */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Optional Suggested Action Text> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent "Invalid or unassigned equipment identifier specified."
IDNV	Input, Data Not Valid "Specified AID must be of type SHELF." "Error retrieving initialization level for shelf." "Error retrieving AID."
IIAC	Input, Invalid ACcess identifier "The INIT-SYS was rejected."
IPMS	Input, Parameter MiSSing "No AID was specified." "Initialization level for shelf not specified."
IPNV	Input, Parameter Not Valid "Invalid initialization level <NUM> specified."

SARB	Status, All Resources Busy "Command already in progress on equipment." "Automatic system configuration active on equipment."
SDBE	Status, internal Data Base Error "<AID> database read error."
SNVS	Status, Not in Valid State "Command not valid during system restart." "Only shelves that are IS can be initialized." "At least 1 SPB must be active in order to initialize this shelf."
SROF	Status, Requested Operation Failed "No response received."
SSRE	Status, System Resources Exceeded "Unable to allocate USI response buffer."

EXAMPLES

In the following example, the executable and database is downloaded for all processor-based circuit packs that are provisioned and installed in the system (i.e., a cold start of the system is performed).

```
INIT-SYS:::::3;
```

The output responses, shown below, assumes CID 3 was used to enter the command and a system generated CTAG value of P19003. The response headers would contain the provisioned Site ID of the system. The example assumes the INIT-SYS command was executed at 16:12:40 on 8/30/94.

For simplicity, only some of the autonomous output messages that could be generated are shown. The example also assumes that the user is not provisioned with an OSL containing R or S (the user is not provisioned to receive REPT^HWSW, REPT^INFORMATION, or REPT^STAT autonomous messages – refer to the ENT-USER or ED-PRVG-USER commands).

```
<SID> 94-08-30 16:12:40
M P19003 COMPLD
/* Cold start requested */
/* INIT-SYS:::::3 [P19003] (3) */
;
.....

<SID> 94-08-30 16:22:19
A 3 REPT DBCHG
"DATE=94-08-30,TIME=16-22-19:FAULT-EQPT:ACL-0-9::OOS-AU"
;
.....

<SID> 94-08-30 16:23:20
M P2e005 COMPLD
/* ACT-USER tabpm1 on CID 8 */
;
.....

<SID> 94-08-30 16:24:29
A 25 REPT DBCHG
"DATE=94-08-30,TIME=16-24-29:CLEAR-FAULT-EQPT:ACL-0-9::IS"
;
.....

<SID> 94-08-30 16:26:08
A 43 REPT DBCHG
"DATE=94-08-30,TIME=16-26-08:FAULT-EQPT:SPB-4-1::OOS-AU"
;
```

```
.....  
      <SID> 94-08-30 16:30:57  
A 45 REPT DBCHG  
    "DATE=94-08-30,TIME=16-30-57:CLEAR-FAULT-EQPT:SPB-4-1:::IS"  
    ;
```

```
.....  
      <SID> 94-08-30 17:06:09  
A 55 REPT INITZN  
    /* All test access connections released */  
    ;
```

The example assumes the user executes a RTRV-PRMTR-NE command to verify that the system initialization is complete.

```
RTRV-PRMTR-NE;  
  
      <SID> 94-08-30 17:12:40  
M P71089 COMPLD  
  ":1631SX,LMC-APS,R06.00.00,94-08-22,,18816,672:::COMPLETE"  
  /* RTRV-PRMTR-NE [P71089] (3) */  
  ;
```

RELATED COMMANDS

ACT-DA
CANC-DA
RPGM-EQPT
RTRV-DA
RTRV-PRMTR-NE

COMMAND CODE: **INIT-SYS-NEW**
COMMAND NAME: **INITIALIZE SYSTEM WITH NEW
UPGRADE**

PURPOSE

The INIT-SYS-NEW command performs the actual commit of the upgraded generic as the current executing software/firmware load in the system. This command uses information created and stored on a separate disk partition by a previously issued STA-ISU command and makes it active in the system. Generic upgrade indicators are redirected to indicate the newly upgraded load is now the active load for the system. On successful execution of INIT-SYS-NEW, the system is reset as if an INIT-SYS, Phase 3 (INIT-SYS:::3), had been issued.

The INIT-SYS-NEW command returns a completion message to the user prior to system initialization and sets/clears the INIT condition as is set/cleared for the INIT-SYS command.

An INIT-SYS-NEW command is denied if:

- A STA-ISU command has not been previously and successfully completed, and/or an STP-ISU command has been previously entered.
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

INIT-SYS-NEW: [TID] : : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID [-VCNUM] >) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Optional Suggested Action Text> */]
  [/ * <Command Echo> [<CTAG>] (<CID [-VCNUM] >) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IPNV	Input, Parameter Not Valid
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, the executable and database is downloaded for all processor-based circuit packs that are provisioned and installed in the system (i.e., a cold start of the system is performed).

```
INIT-SYS-NEW;
```

The output responses, shown below, assumes CID 9-2 was used to enter the command and a system generated CTAG value of P58079. The response headers would contain the provisioned Site ID of the system. The example assumes the INIT-SYS-NEW command was executed at 09:17:32 on 4/9/00.

For simplicity, only some of the autonomous output messages that could be generated are shown. The example also assumes that the user is not provisioned with an OSL containing R or S (the user is not provisioned to receive REPT^HWSW, REPT^INFORMATION, or REPT^STAT autonomous messages – refer to the ENT-USER or ED-PRVG-USER commands).

```
<SID> 00-04-09 09:17:32
M P58079 COMPLD
/* INIT-SYS-NEW Complete. */
/* INIT-SYS-NEW [P58079] (9-2) */
;
```

RELATED COMMANDS

INIT-SYS
INIT-SYS-OLD
RMV-ISU-OLD
RTRV-ISU-STATUS
STA-ISU
STP-ISU

COMMAND CODE: **INIT-SYS-OLD**
COMMAND NAME: **INITIALIZE SYSTEM WITH OLD
UPGRADE**

PURPOSE

The INIT-SYS-OLD command allows the reversion of the system to the previous generic software and data-base disk partition file system that was available on the hard disk prior to the latest Generic Upgrade process. All system indicators are reset and the system restarted to indicate the currently active generic is a previous release generic. The system is reset as if an INIT-SYS, Phase 3 (INIT-SYS:::3) has been issued.

The INIT-SYS-OLD command returns a completion message to the user prior to system initialization and sets/clears the INIT condition as is set/cleared for the INIT-SYS command.

The INIT-SYS-OLD command can be executed while in the Limited Command Execution mode (i.e., after execution of a STOP-OPS command) or the Normal Command Execution mode.

An INIT-SYS-OLD command is denied if:

- An INIT-SYS-NEW is not in-progress or successfully completed.
- A STA-ISU command is in progress.
- No previous generic partition exists (including a system that does not have the larger disk drive).
- An In-Service Upgrade Key (ISUKEY) does not match the ISUKEY of the P1 in the STA-ISU command.
- The command is issued subsequent to a RMV-ISU-OLD command.
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

INIT-SYS-OLD: [TID] : : [CTAG] : : ISUKEY, [MODE] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >
Default:	<SID>
Addressing:	None
Description:	Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS >
Default:	< System assigned CTAG value >
Addressing:	None
Description:	Correlation Tag, associates input command with its output responses.
ISUKEY	<1-5 ALPHANUMERIC CHARACTERS>
Default:	Entry Required
Addressing:	None
Description:	In-Service Upgrade Key, specifies the logical in-service upgrade reversion key. Valid values for ISUKEY are a string of 1 through 5 ASCII alphanumeric characters from the set {0-9, A-Z}. Note that spaces and special characters are not included.
Restrictions:	INIT-SYS-OLD is denied if the ISUKEY does not match the ISUKEY of the P1 entered in the STA-ISU command.
MODE=	{NORM, FRCD}
Default:	{NORM}
Addressing:	None
Description:	Command Execution Mode. Values are:
NORM	Normal. The command is accepted and the system is initialized with a previous software generic.
FRCD	Forced. The command is accepted even if a previous INIT-SYS-NEW command is not successfully completed.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Optional Suggested Action Text> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IPMS	Input, Parameter MiSsing
IPNV	Input, Parameter Not Valid
SDNC	Status, Data Not Consistent
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, the executable and database is downloaded for all processor-based circuit packs that are provisioned and installed in the system (i.e., a cold start of the system is performed).

```
INIT-SYS-OLD;
```

The output responses, shown below, assumes CID 3 was used to enter the command and a system generated CTAG value of P19003. The response headers would contain the provisioned Site ID of the system. The example assumes the INIT-SYS-OLD command was executed at 16:12:40 on 8/30/94.

For simplicity, only some of the autonomous output messages that could be generated are shown. The example also assumes that the user is not provisioned with an OSL containing R or S (the user is not provisioned to receive REPT^HWSW, REPT^INFORMATION, or REPT^STAT autonomous messages – refer to the ENT-USER or ED-PRVG-USER commands).

```
<SID> 94-08-30 16:12:40
M P19003 COMPLD
/* Cold start requested */
/* INIT-SYS-OLD [P19003] (3) */
;

.....

<SID> 94-08-30 16:22:19
A 3 REPT DBCHG
"DATE=94-08-30,TIME=16-22-19:FAULT-EQPT:ACL-1-2-9:::OOS-AU"
;
```

RELATED COMMANDS

```
INIT-SYS
INIT-SYS-NEW
RMV-ISU-OLD
RTRV-ISU-STATUS
STA-ISU
```


COMMAND CODE: **OPR-ACO-ALL**
COMMAND NAME: **OPERATE AUDIBLE ALARM CUTOFF
ALL**

PURPOSE

The OPR-ACO-ALL command actuates a system-wide audible alarm cutoff (ACO) causing any existing audible alarm indication in the system to be turned-off (silenced) and the ACO lamp in the APS bay/rack to be activated.

Visual alarm indications and alarm reporting through the man-machine interface are not affected by the OPR-ACO-ALL command. Future audible alarm indications are generated for any alarm conditions occurring after the command is executed.

An OPR-ACO-ALL command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

OPR-ACO-ALL: [TID] :: [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
/* ACO set on bay <APS_BAY_ID>. */
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

APS_BAY_ID {1}
Bay/Rack Identification number of the Administration Processing System (APS).

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

ICNV Input, Command Not Valid

EXAMPLES

In the following example, the OPR-ACO-ALL command is used to silence any current audible alarm.

```
OPR-ACO-ALL;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of P18004. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M P18004 COMPLD  
/* ACO set on bay 1 */  
/* OPR-ACO-ALL [P18004] (2) */  
;
```

RELATED COMMANDS

RTRV-ACO-ALL

SET-ACO-ALL

COMMAND CODE: **OPR-ISGLP-STS1**
COMMAND NAME: **OPERATE IN-SERVICE GROWTH
LOOPBACK STS1**

PURPOSE

The OPR-ISGLP-STS1 command provides a pre-service path verification test for newly installed STS-1 I/O equipment when the supporting end-stage equipment is not provisioned to carry traffic. The command performs a center-stage matrix loopback test (using the specified center-stage) of the embedded VT1.5s in the specified STS-1 prior to the in-service provisioning of the supporting I/O and matrix equipment or the provisioning of the STS-1 port. Results of the loopback are obtained by executing a FLTLOC-PATH-VT1 command and specifying the AID of the supported VT1.5 port.

The OPR-ISGLP-STS1 command performs a matrix loopback of a generated VT1.5 idle signal in the specified center-stage equipment for each of the embedded VT1.5s in the specified STS-1. "Inversion" of the time-slot assignments for the VT1.5 signals through the first-stage and third-stage matrix is specified by the MODE parameter.

While an OPR-ISGLP-STS1 command is in effect, the default signal on any of the other unused ports on the supporting EP3 or ES1 circuit pack changes to the STS-1 default signal.

For an OPR-ISGLP-STS1 command to execute, the supporting I/O circuit pack and the four supporting M16/M32 end-stage circuit packs (one in each redundant copy of the first-stage and third-stage matrix) must be in an OOS-MA,MT or OOS-AUMA,UEQ&MT state, and the specified STS-1 port must not be provisioned (the STS-1 is in an OOS-AUMA,UAS&MT state). Refer to Appendix G, State Transitions for additional information on state values and state transitions.

Executing an OPR-ISGLP-STS1 causes an STS-1 SST of LPBK to be applied to the specified STS-1 and a VT1.5 SST of LPBK to be applied to each of the embedded VT1.5s in the STS-1.

A maximum of 672 STS-1, VT1.5, T3, and/or T1 ISGLP operations can be in-progress at any given time. The 672 OPR-ISGLP-STS1|VT1|T3|T1 commands can be executed in any combination without being released (using RLS-ISGLP-STS1|VT1|T3|T1, but the 673rd OPR-ISGLP-STS1|VT1|T3|T1 command will be denied.

An OPR-ISGLP-STS1 command is denied if:

- The supporting I/O circuit pack and the four supporting M16/M32 end-stage circuit packs (one in each redundant copy of the first-stage and third-stage matrix) are not in an OOS-MA,MT or OOS-AUMA,UEQ&MT state.
- The specified STS-1 port is not in an OOS-AUMA,UAS&MT state.
- Any of the embedded VT1.5s in the specified STS-1 are in an in-service growth loopback (a VT1.5 state of OOS-AUMA,UAS&MT&LPBK).
- An OPR-ISGLP-T1|T3 is in effect on any of the other two ports supported by the EP3 circuit pack that supports the specified STS-1 (i.e., an STS-1 in-service-growth-loopback cannot be performed on an EP3, O1B, O4M or S3M that is currently supporting DS3 ports).
- The required bandwidth in the End-Stage to Center-Stage matrix cable (selected by the specified AID and CS parameters) is already being utilized by another In-Service-Growth loopback or by existing connections. Typically, three ISG loopback per ES-CS cable can be established at a time, provided the specified STS-1 AIDs are not a multiple of three apart, e.g., STS-1 ports EC1STS1-1, EC1STS1-3, EC1STS1-6, etc. are a multiple of 3 apart. The matrix bandwidth could also be utilized by connections within an existing I/O shelf that shares that same End-Stage module.
- The specified STS-1 port resides on an EP3, O1B, O4M or module that itself resides in a half shelf that is defined as standard or enhanced.
- The specified STS-1 is embedded within a protection OC-3/OC-12.
- An invalid parameter value is entered.
- The value of CS is greater than 4 on a 240 port system.

INPUT FORMAT

OPR-ISGLP-STS1 : [TID] : AID : [CTAG] : : [MODE] , CS ;

INPUT PARAMETERS

TID	<p>< 1–20 VALID TID CHARACTERS ></p> <p>Default: <SID></p> <p>Addressing: None</p> <p>Description: Target Identifier, specifies the network node TID for the command.</p>								
AID	<p>STS1_AID:</p> <p>{EC1STS1–{1–3840}} (EC1STS1–EC1/STS1#)</p> <p>{OC3STS1–{1–2240}–{1–3}} (OC3STS1–OC3#–STS1#)</p> <p>{OC12STS1–{1–560}–{1–4}–{1–3}} (OC12STS1–OC12#–STM1#–STS1#)</p> <p>Default: Entry Required</p> <p>Addressing: &&–ranging and &–grouping</p> <p>Description: STS1 AID, identifies the STS–1 port whose embedded VT1.5s are to be looped back.</p>								
CTAG	<p>< 1–6 VALID CTAG CHARACTERS ></p> <p>Default: < System assigned CTAG value ></p> <p>Addressing: None</p> <p>Description: Correlation Tag, associates input command with its output responses.</p>								
MODE	<p>{BOTH, INV1, INV3, NORM}</p> <p>Default: { NORM}</p> <p>Addressing: None</p> <p>Description: Loop–back Test Mode, specifies how the embedded VT1.5s within the specified STS–1 are assigned matrix time slots for the loopback test. Values are:</p> <table> <tr> <td>BOTH</td><td>Inverted time slot assignments in Both the first–stage and third–stage matrix, specifies that time slot assignments for the loopback test are to be inverted in both the first–stage and third–stage matrix. VT1.5 #1–1 is assigned time slot #28, VT1.5 #1–2 is assigned time slot #27, ..., VT1.5 #7–4 is assigned time slot #1 in the first–stage and third–stage matrix. Time–slot assignments inverted in both the first–stage and third–stage matrix return to the I/O module with normal (non–inverted) time slot assignments.</td></tr> <tr> <td>INV1</td><td>Inverted time slot assignments in the First–stage matrix, specifies that time slot assignments for the loopback test are to be inverted in the first–stage matrix. VT1.5 #1–1 is assigned time slot #28, VT1.5 #1–2 is assigned time slot #27, ..., VT1.5 #7–4 is assigned time slot #1 in the first–stage matrix. Time–slot assignments in the third–stage matrix are not inverted.</td></tr> <tr> <td>INV3</td><td>Inverted time slot assignments in the Third–Stage matrix, specifies that time slot assignments for the loopback test are to be inverted in the third–stage matrix. VT1.5 #1–1 is assigned time slot #28, VT1.5 #1–2 is assigned time slot #27, ..., VT1.5 #7–4 is assigned time slot #1 in the third–stage matrix. Time–slot assignments in the first–stage matrix are not inverted.</td></tr> <tr> <td>NORM</td><td>Normal time slot assignments in the first and third–stage matrix, specifies no change in the time slot assignments for the loopback test are to be made in the first–stage and third–stage matrix. VT1.5 #1–1 is assigned time slot #1, VT1.5 #1–2 is assigned time slot #2, ..., VT1.5 #7–4 is assigned time slot #1.</td></tr> </table>	BOTH	Inverted time slot assignments in Both the first–stage and third–stage matrix, specifies that time slot assignments for the loopback test are to be inverted in both the first–stage and third–stage matrix. VT1.5 #1–1 is assigned time slot #28, VT1.5 #1–2 is assigned time slot #27, ..., VT1.5 #7–4 is assigned time slot #1 in the first–stage and third–stage matrix. Time–slot assignments inverted in both the first–stage and third–stage matrix return to the I/O module with normal (non–inverted) time slot assignments.	INV1	Inverted time slot assignments in the First–stage matrix, specifies that time slot assignments for the loopback test are to be inverted in the first–stage matrix. VT1.5 #1–1 is assigned time slot #28, VT1.5 #1–2 is assigned time slot #27, ..., VT1.5 #7–4 is assigned time slot #1 in the first–stage matrix. Time–slot assignments in the third–stage matrix are not inverted.	INV3	Inverted time slot assignments in the Third–Stage matrix, specifies that time slot assignments for the loopback test are to be inverted in the third–stage matrix. VT1.5 #1–1 is assigned time slot #28, VT1.5 #1–2 is assigned time slot #27, ..., VT1.5 #7–4 is assigned time slot #1 in the third–stage matrix. Time–slot assignments in the first–stage matrix are not inverted.	NORM	Normal time slot assignments in the first and third–stage matrix, specifies no change in the time slot assignments for the loopback test are to be made in the first–stage and third–stage matrix. VT1.5 #1–1 is assigned time slot #1, VT1.5 #1–2 is assigned time slot #2, ..., VT1.5 #7–4 is assigned time slot #1.
BOTH	Inverted time slot assignments in Both the first–stage and third–stage matrix, specifies that time slot assignments for the loopback test are to be inverted in both the first–stage and third–stage matrix. VT1.5 #1–1 is assigned time slot #28, VT1.5 #1–2 is assigned time slot #27, ..., VT1.5 #7–4 is assigned time slot #1 in the first–stage and third–stage matrix. Time–slot assignments inverted in both the first–stage and third–stage matrix return to the I/O module with normal (non–inverted) time slot assignments.								
INV1	Inverted time slot assignments in the First–stage matrix, specifies that time slot assignments for the loopback test are to be inverted in the first–stage matrix. VT1.5 #1–1 is assigned time slot #28, VT1.5 #1–2 is assigned time slot #27, ..., VT1.5 #7–4 is assigned time slot #1 in the first–stage matrix. Time–slot assignments in the third–stage matrix are not inverted.								
INV3	Inverted time slot assignments in the Third–Stage matrix, specifies that time slot assignments for the loopback test are to be inverted in the third–stage matrix. VT1.5 #1–1 is assigned time slot #28, VT1.5 #1–2 is assigned time slot #27, ..., VT1.5 #7–4 is assigned time slot #1 in the third–stage matrix. Time–slot assignments in the first–stage matrix are not inverted.								
NORM	Normal time slot assignments in the first and third–stage matrix, specifies no change in the time slot assignments for the loopback test are to be made in the first–stage and third–stage matrix. VT1.5 #1–1 is assigned time slot #1, VT1.5 #1–2 is assigned time slot #2, ..., VT1.5 #7–4 is assigned time slot #1.								

CS	{1–32}	
	Default:	Entry Required
	Addressing:	None
	Description:	Logical Center–Stage Number, identifies the copy 0 and copy 1 center–stage circuit packs to be used in the matrix loopback test. The CS value corresponds to a center–stage equipment AID. On a 240–port system, values 1–4 correspond to M40 – 5 – {1,3} – {4, 5, 9,10}.
	Restrictions:	OPR–ISGLP–STS1 is denied for a 240–port LMC system if the CS value entered is greater than 4.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non–Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid /*CS value greater than 4 not valid for 240 port system*/
IIAC	Input, Invalid ACcess identifier
IPMS	Input, Parameter MiSSing
SARB	Status, All Resources Busy
SDBE	Status, internal Data Base Error /* Error getting shelf information for record <RECORD NUMBER> for status <STATUS> */ /* Failed(status <STATUS>) to convert STS TP <RECORD NUMBER> to T3 TP */ /* Failed(status <STATUS>) to convert T3 TP <RECORD NUMBER> to EC1 TP */ /* Failed(status <STATUS>) to send PROV message for TP <RECORD NUMBER> */ /* Failed(status <STATUS>) to get supported entity of TP <RECORD NUMBER> */ /* <DATABASE TYPE> Database Error: <STATUS> for <AID STRING> */ /* <DATABASE TYPE> Database Error: <STATUS> for record number <RECORD NUMBER> */ /* <DATABASE TYPE> Database Error: <STATUS> */
SNVS	Status, Not in Valid State
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, the embedded VT1.5s within STS–1 EC1STS1–102 are looped back through the center–stage matrix circuit packs M16–300–4 and M16–301–4 with time–slot assignments inverted in the first–stage matrix.

```
OPR-ISGLP-STs1:EC1STS1-102:::INV1,4;
```

RELATED COMMANDS

FLTLOC-PATH-VT1

OPR-ISGLP-T1

OPR-ISGLP-T3

OPR-ISGLP-VT1

RLS-ISGLP-STS1

RLS-ISGLP-VT1

RLS-ISGLP-T1

RLS-ISGLP-T3

RTRV-ISGLP-ALL

COMMAND CODE: **OPR-ISGLP-T1**
COMMAND NAME: **OPERATE IN-SERVICE GROWTH**
LOOPBACK T1

PURPOSE

The OPR-ISGLP-T1 command provides a pre-service path verification test for newly installed DS3 or DS1 I/O equipment when the supporting end-stage equipment is provisioned to carry traffic (the supporting I/O circuit pack is connected to end-stage equipment that is already provisioned to carry traffic). The command performs a center-stage matrix loopback test of the specified DS1 prior to the in-service provisioning of the supporting I/O circuit pack, the provisioning of a supporting DS3 port, or the provisioning of the DS1 port. Results of the loopback are obtained by executing a FLTLOC-PATH-T1 command and specifying the AID of the DS1 port.

When OPR-ISGLP-T1 is executed, either an internally generated ESF QRS signal, or an external signal connected to the DS1 port, is transmitted and looped back to itself through the matrix.

While an OPR-ISGLP-T1 command is in effect, the default signal on any of the other unused ports on a supporting EP3, O1B, O4M or S3M circuit pack changes to the DS3 default signal.

For an OPR-ISGLP-T1 command to execute, the supporting I/O circuit pack must be in an OOS-MA,MT state, and the specified DS1 port must not be provisioned (the DS1 is in an OOS-AUMA,UAS&MT state). Refer to Appendix G, State Transitions for additional information on state values and state transitions.

Executing an OPR-ISGLP-I1 causes a DS1 SST of LPBK to be applied to the specified DS1, and a DS3 SST change from UAS&MT to UAS&DSBLD&MT on the supporting DS3, if it exists.

A maximum of 672 STS-1, VT1.5, T3, and/or T1 ISGLP operations can be in-progress at any given time. The 672 OPR-ISGLP-STs1|VT1|T3|T1 commands can be executed in any combination without being released (using RLS-ISGLP-STs1|VT1|T3|T1, but the 673rd OPR-ISGLP-STs1|VT1|T3|T1 command will be denied.

An OPR-ISGLP-T1 command is denied if:

- The supporting I/O circuit pack is not in an OOS—MA,MT state
- The specified DS1 port is not in an OOS—AUMA,UAS&MT state.
- The specified DS1 is stand-alone and the CS parameter is specified and all four end-stage modules (2 in copy 0 and 2 in copy 1) to which the I/O shelf is connected, are not in an MT state.
- The specified DS1 is stand-alone and all available bandwidth has been used up between the I/O equipment supported by the end-stage equipment and the specified CS matrix module.
- The supporting DS3 is in an in-service growth loopback (a DS3 state of OOS—AUMA,UAS&MT&LPBK, this causes a DS1 state of OOS—AUMA,UAS&MT&LPBK).
- Five In-Service-Growth-Loopback connections are already established for DS3 I/O equipment supported by the end-stage equipment in the same end-stage shelf.
- An invalid parameter value is entered.
- CS value is greater than 4 on a 240 port system.

INPUT FORMAT

```
OPR-ISGLP-T1:[TID]:AID:[CTAG]::[CS],[SIGSRC];
```

INPUT PARAMETERS

TID	< 1–20 VALID TID CHARACTERS >	
	Default:	<SID>
	Addressing:	None
	Description:	Target Identifier, specifies the network node TID for the command.
AID	DS1_AID:	
	{T1–{1–59392}}	(T1–DS1#)
	{T3T1–{1–4800}–{1–28}}	(T3T1–DS3#–DS1#)
	Default:	Entry Required
	Addressing:	&&–ranging and &–grouping
	Description:	DS1 AID, identifies the DS1 port to be looped back.

CTAG	< 1–6 VALID CTAG CHARACTERS >	
	Default:	< System assigned CTAG value >
	Addressing:	None
	Description:	Correlation Tag, associates input command with its output responses.
CS	{1–32}	
	Default:	<System assigned CS value>
	Addressing:	None
	Description:	Logical Center–Stage Number, identifies the copy 0 and copy 1 center–stage circuit packs to be used in the matrix loopback test. The CS value corresponds to the logical slot/location number of the center–stage equipment AID. On a 240–port system, values 1–4 correspond to M40 – 5 – {1,3} – {4, 5, 9, 10}.
	Restrictions:	OPR–ISGLP–T1 is denied if the CS parameter is specified and the AID does not specify an electrical (stand–alone) T1. OPR–ISGLP–T1 is denied for a 240–port LMC system if the CS value entered is greater than 4.
SIGSRC	{EXTERNAL, INTERNAL}	
	Default:	{INTERNAL}
	Addressing:	None
	Description:	Loopback Signal Source, specifies whether an internally generated signal source or an external signal source connected to the I/O port, is to be used for the loopback signal. Values are:
	EXTERNAL	An externally connected signal is used as the loopback signal.
	INTERNAL	An internally generated signal is used as the loopback signal.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID [-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID [-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non–Parser Error Codes used with this command are:

IPNV	Input, Parameter Not Valid /*CS value greater than 4 not valid for 240 port system*/
IIAC	Input, Invalid ACcess identifier
SARB	Status, All Resources Busy

SDBE Status, internal Data Base Error
 /* Error getting shelf information for record <RECORD NUMBER> for status <STATUS>
 */
 /* Failed to Update Sptg Tps: Status=<STATUS> */
 /* Failed to get supporting entity records */
 /* Failed(status <STATUS>) to convert STS TP <RECORD NUMBER> to T3 TP */
 /* Failed(status <STATUS>) to convert T3 TP <RECORD NUMBER> to EC1 TP*/ */
 /* Failed(status <STATUS>) to send PROV message for TP <RECORD NUMBER> */
 /* Failed(status <STATUS>) to get supported entity of TP <RECORD NUMBER> */
 /* Failed(status <STATUS>) to send PROV message for TP <RECORD NUMBER> */
 /* <DATABASE TYPE> Database Error: <STATUS> for <AID STRING> */
 /* <DATABASE TYPE> Database Error: <STATUS> for record number <RECORD NUM-
 BER> */
 /* <DATABASE TYPE> Database Error: <STATUS> */

SNVS Status, Not in Valid State
SROF Status, Requested Operation Failed

EXAMPLES

In the following example, DS1 port T3T1-1446-22 generates an ESF QRS signal that is looped back to itself through the matrix.

```
OPR-ISGLP-T1::T3T1-1446-22;
```

RELATED COMMANDS

```
FLTLOC-PATH-T1  
OPR-ISGLP-STs1  
OPR-ISGLP-T3  
OPR-ISGLP-VT1  
RLS-ISGLP-STs1  
RLS-ISGLP-T1  
RLS-ISGLP-T3  
RLS-ISGLP-VT1  
RTRV-ISGLP-ALL
```


COMMAND CODE: **OPR-ISGLP-T3**
COMMAND NAME: **OPERATE IN-SERVICE GROWTH
LOOPBACK T3**

PURPOSE

The OPR-ISGLP-T3 command provides a pre-service path verification test for newly installed DS3 I/O equipment when the supporting end-stage equipment is not provisioned to carry traffic. The command performs a center-stage matrix loopback test (using the specified center-stage) of the embedded DS1s in the specified DS3 prior to the in-service provisioning of the supporting I/O and matrix equipment or the provisioning of the DS3 port. Results of the loopback are obtained by executing a FLTLOC-PATH-T1 command and specifying the AID of the supported DS1 port.

The OPR-ISGLP-T3 command performs a matrix loopback of a generated ESF QRS signal in the specified center-stage equipment for each of the embedded DS1s in the specified DS3. "Inversion" of the time-slot assignments for the DS1 signals through the first-stage and third-stage matrix is specified by the MODE parameter.

While an OPR-ISGLP-T3 command is in effect, the default signal on any of the other unused ports on the supporting EP3 circuit pack changes to the DS3 default signal.

For an OPR-ISGLP-T3 command to execute, the supporting I/O circuit pack and the four supporting M16/M32 end-stage circuit packs (one in each redundant copy of the first-stage and third-stage matrix) must be in an OOS-MA,MT or OOS-AUMA,UEQ&MT state, and the specified DS3 port must not be provisioned (the DS3 is in an OOS-AUMA,UAS&MT state). Refer to Appendix G, State Transitions for additional information on state values and state transitions.

Executing an OPR-ISGLP-T3 causes a DS3 SST of LPBK to be applied to the specified DS3 and a DS1 SST of LPBK to be applied to each of the embedded DS1s in the DS3.

A maximum of 672 STS-1, VT1.5, T3, and/or T1 ISGLP operations can be in-progress at any given time. The 672 OPR-ISGLP-STs1|VT1|T3|T1 commands can be executed in any combination without being released (using RLS-ISGLP-STs1|VT1|T3|T1, but the 673rd OPR-ISGLP-STs1|VT1|T3|T1 command will be denied.

An OPR-ISGLP-T3 command is denied if:

- The supporting I/O circuit pack and the four supporting M16/32 end-stage circuit packs (one in each redundant copy of the first-stage and third-stage matrix) are not in an OOS-MA,MT or OOS-AUMA,UEQ&MT state.
- The specified DS3 port is not in an OOS-AUMA,UAS&MT state.
- Any of the embedded DS1s in the specified DS3 are in an in-service growth loopback (a DS1 state of OOS-AUMA,UAS&MT&LPBK).
- An OPR-ISGLP-STs1|VT1 is in effect on any of the other two ports supported by the EP3 circuit pack that supports the specified DS3 (i.e., a DS3 in-service-growth-loopback cannot be performed on an EP3 that is currently supporting STS-1 ports).
- The required bandwidth in the End-Stage to Center-Stage matrix cable (selected by the specified AID and CS parameters) is already being utilized by another In-Service-Growth loopback or by existing connections. Typically, three ISG loopbacks per ES-CS cable can be established at a time, provided the specified DS3 AIDs are not a multiple of three apart, e.g., DS3 ports T3T1-961, T3T1-963, T3T1-966, etc. are a multiple of 3 apart. The matrix bandwidth could also be utilized by connections within an existing I/O shelf that shares that same End-Stage module.
- The specified T3 resides on an HMU that does not have all of the LMUs in the MT state.
- An invalid parameter value is entered.
- CS value is greater than 4 on a 240 port system.

INPUT FORMAT

OPR-ISGLP-T3 : [TID] : AID : [CTAG] : : [MODE] , CS ;

INPUT PARAMETERS

TID	<p>< 1–20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.</p>								
AID	<p>DS3_AID: {T3–{1–4800}} (T3–DS3#) Default: Entry Required Addressing: &&–ranging and &–grouping Description: DS3 AID, identifies the DS3 port whose embedded DS1s are to be looped back.</p>								
CTAG	<p>< 1–6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.</p>								
MODE	<p>{BOTH, INV1, INV3, NORM} Default: { NORM} Addressing: None Description: Loop–back Test Mode, specifies how the embedded DS1s within the specified DS3 are assigned matrix time slots for the loopback test. Values are:</p> <table> <tr> <td>BOTH</td><td>Inverted time slot assignments in Both the first–stage and third–stage matrix, specifies that time slot assignments for the loopback test are to be inverted in both the first–stage and third–stage matrix. DS1 #1 is assigned time slot #28, DS1 #2 is assigned time slot #27, ..., DS1 #28 is assigned time slot #1 in the first–stage and third–stage matrix. Time–slot assignments inverted in both the first–stage and third–stage matrix return to the I/O module with normal (non–inverted) time slot assignments.</td></tr> <tr> <td>INV1</td><td>Inverted time slot assignments in the First–stage matrix, specifies that time slot assignments for the loopback test are to be inverted in the first–stage matrix. DS1 #1 is assigned time slot #28, DS1 #2 is assigned time slot #27, ..., DS1 #28 is assigned time slot #1 in the first–stage matrix. Time–slot assignments in the third–stage matrix are not inverted.</td></tr> <tr> <td>INV3</td><td>Inverted time slot assignments in the Third–Stage matrix, specifies that time slot assignments for the loopback test are to be inverted in the third–stage matrix. DS1 #1 is assigned time slot #28, DS1 #2 is assigned time slot #27, ..., DS1 #28 is assigned time slot #1 in the third–stage matrix. Time–slot assignments in the third–stage matrix are not inverted.</td></tr> <tr> <td>NORM</td><td>Normal time slot assignments in the first and third–stage matrix, specifies no change in the time slot assignments for the loopback test are to be made in the first–stage and third–stage matrix. DS1 #1 is assigned time slot #1, DS1 #2 is assigned time slot #2, ..., DS1 #28 is assigned time slot #28.</td></tr> </table>	BOTH	Inverted time slot assignments in Both the first–stage and third–stage matrix, specifies that time slot assignments for the loopback test are to be inverted in both the first–stage and third–stage matrix. DS1 #1 is assigned time slot #28, DS1 #2 is assigned time slot #27, ..., DS1 #28 is assigned time slot #1 in the first–stage and third–stage matrix. Time–slot assignments inverted in both the first–stage and third–stage matrix return to the I/O module with normal (non–inverted) time slot assignments.	INV1	Inverted time slot assignments in the First–stage matrix, specifies that time slot assignments for the loopback test are to be inverted in the first–stage matrix. DS1 #1 is assigned time slot #28, DS1 #2 is assigned time slot #27, ..., DS1 #28 is assigned time slot #1 in the first–stage matrix. Time–slot assignments in the third–stage matrix are not inverted.	INV3	Inverted time slot assignments in the Third–Stage matrix, specifies that time slot assignments for the loopback test are to be inverted in the third–stage matrix. DS1 #1 is assigned time slot #28, DS1 #2 is assigned time slot #27, ..., DS1 #28 is assigned time slot #1 in the third–stage matrix. Time–slot assignments in the third–stage matrix are not inverted.	NORM	Normal time slot assignments in the first and third–stage matrix, specifies no change in the time slot assignments for the loopback test are to be made in the first–stage and third–stage matrix. DS1 #1 is assigned time slot #1, DS1 #2 is assigned time slot #2, ..., DS1 #28 is assigned time slot #28.
BOTH	Inverted time slot assignments in Both the first–stage and third–stage matrix, specifies that time slot assignments for the loopback test are to be inverted in both the first–stage and third–stage matrix. DS1 #1 is assigned time slot #28, DS1 #2 is assigned time slot #27, ..., DS1 #28 is assigned time slot #1 in the first–stage and third–stage matrix. Time–slot assignments inverted in both the first–stage and third–stage matrix return to the I/O module with normal (non–inverted) time slot assignments.								
INV1	Inverted time slot assignments in the First–stage matrix, specifies that time slot assignments for the loopback test are to be inverted in the first–stage matrix. DS1 #1 is assigned time slot #28, DS1 #2 is assigned time slot #27, ..., DS1 #28 is assigned time slot #1 in the first–stage matrix. Time–slot assignments in the third–stage matrix are not inverted.								
INV3	Inverted time slot assignments in the Third–Stage matrix, specifies that time slot assignments for the loopback test are to be inverted in the third–stage matrix. DS1 #1 is assigned time slot #28, DS1 #2 is assigned time slot #27, ..., DS1 #28 is assigned time slot #1 in the third–stage matrix. Time–slot assignments in the third–stage matrix are not inverted.								
NORM	Normal time slot assignments in the first and third–stage matrix, specifies no change in the time slot assignments for the loopback test are to be made in the first–stage and third–stage matrix. DS1 #1 is assigned time slot #1, DS1 #2 is assigned time slot #2, ..., DS1 #28 is assigned time slot #28.								

CS	{1–32}	
	Default:	Entry Required
	Addressing:	None
	Description:	Logical Center–Stage Number, identifies the copy 0 and copy 1 center–stage circuit packs to be used in the matrix loopback test. The CS value corresponds to a center–stage (M40 – {2,3} – 3 – {1–16}) equipment AID. On a 240–port system, values 1–4 correspond to M40 – 5 – {1,3} – {4, 5, 9,10}.
	Restrictions:	OPR–ISGLP–T3 is denied for a 240–port LMC system if the CS value entered is greater than 4.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID [-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID [-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non–Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid
	/*CS value greater than 4 not valid on 240 port system*/
IIAC	Input, Invalid ACcess identifier
IPMS	Input, Parameter MiSsing
SARB	Status, All Resources Busy
SDBE	Status, internal Data Base Error
	/* Error getting shelf information for record <RECORD NUMBER> for status <STATUS> */
	/* Failed(status <STATUS>) to convert STS TP <RECORD NUMBER> to T3 TP */
	/* Failed(status <STATUS>) to convert T3 TP <RECORD NUMBER> to EC1 TP*/ */
	/* Failed(status <STATUS>) to send PROV message for TP <RECORD NUMBER> */
	/* Failed(status <STATUS>) to get supported entity of TP <RECORD NUMBER> */
	/* Failed(status <STATUS>) to send PROV message for TP <RECORD NUMBER> */
	/* <DATABASE TYPE> Database Error: <STATUS> for <AID STRING> */
	/* <DATABASE TYPE> Database Error: <STATUS> for record number <RECORD NUMBER> */
	/* <DATABASE TYPE> Database Error: <STATUS> */
SNVS	Status, Not in Valid State
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, the embedded DS1s within DS3 T3–1062 are looped back through the center–stage matrix circuit packs M16–300–4 and M16–301–4 with time–slot assignments inverted in the first–stage matrix.

```
OPR–ISGLP–T3::T3–1062:::INV1,4;
```

RELATED COMMANDS

FLTLOC-PATH-T1

OPR-ISGLP-T1

OPR-ISGLP-ST51

OPR-ISGLP-VT1

RLS-ISGLP-ST51

RLS-ISGLP-T1

RLS-ISGLP-T3

RLS-ISGLP-VT1

RTRV-ISGLP-ALL

COMMAND CODE: **OPR-ISGLP-VT1**
COMMAND NAME: **OPERATE IN-SERVICE GROWTH
LOOPBACK VT1**

PURPOSE

The OPR-ISGLP-VT1 command provides a pre-service path verification test for newly installed STS-1 I/O equipment when the supporting end-stage equipment is provisioned to carry traffic (the supporting I/O circuit pack is connected to end-stage equipment that is already provisioned to carry traffic). The command performs a center-stage matrix loopback test of the specified embedded VT1.5 prior to the in-service provisioning of the supporting I/O circuit pack, the provisioning of the supporting STS-1 port, or the provisioning of the VT1.5 port. Results of the loopback are obtained by executing a FLTLOC-PATH-VT1 command and specifying the AID of the VT1.5 port.

When OPR-ISGLP-VT1 is executed, a VT idle signal is generated on the VT1.5 port and looped back to itself through the matrix.

While an OPR-ISGLP-VT1 command is in effect, the default signal on any of the other unused ports on the supporting EP3, O1B, O4M, or S3M circuit pack changes to the STS-1 default signal.

For an OPR-ISGLP-VT1 command to execute, the supporting I/O circuit pack must be in an OOS-MA,MT state, and the specified VT1.5 port must not be provisioned (the VT1.5 is in an OOS-AUMA,UAS&MT state). Refer to Appendix G, State Transitions for additional information on state values and state transitions.

Executing an OPR-ISGLP-VT1 causes an SST of LPBK to be applied to the specified VT1.5, and an STS1 SST change from UAS&MT to UAS&DSBLD&MT on the supporting STS1.

A maximum of 672 STS1, VT1.5, T3, and/or T1 ISGLP operations can be in-progress at any given time. The 672 OPR-ISGLP-STS1|VT1|T3|T1 commands can be executed in any combination without being released (using RLS-ISGLP-STS1|VT1|T3|T1, but the 673rd OPR-ISGLP-STS1|VT1|T3|T1 command is denied.

An OPR-ISGLP-VT1 command is denied if:

- The supporting I/O circuit pack is not in an OOS-MA,MT state
- The specified VT1.5 port is not in an OOS-AUMA,UAS&MT state.
- The supporting STS-1 is in an in-service growth loopback (an STS-1 state of OOS-AUMA,UAS&MT&LPBK – this causes a VT1.5 state of OOS-AUMA,UAS&MT&LPBK).
- Five In-Service-Growth-Loopback connections are already established for STS-1 I/O equipment supported by the end-stage equipment in the same end-stage shelf.
- The specified VT1.5 port resides on an EP3, O1B, O4M, or S3M module that itself resides in a half shelf that is defined as standard or enhanced.
- The specified VT1.5 is embedded within a protection OC3/OC12.
- An invalid parameter value is entered.

INPUT FORMAT

OPR-ISGLP-VT1 : [TID] : AID : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	VT1_AID: {EC1VT1-{1-3840}-{1-7}-{1-4}} (EC1VT1-EC1/STS1#-VTGrp#-VT1.5#) {OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}} (OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#) {OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}} (OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: VT1 AID, identifies the VT1.5 port to be looped back.

CTAG	< 1–6 VALID CTAG CHARACTERS >
Default:	< System assigned CTAG value >
Addressing:	None
Description:	Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
SARB	Status, All Resources Busy
SDBE	Status, internal Data Base Error

```

/* Error getting shelf information for record <RECORD NUMBER> for status <STATUS>
*/
/* Failed to Update Sptg Tps: Status=<STATUS> */
/* Failed to get supporting entity records */
/* Failed(status <STATUS>) to convert STS TP <RECORD NUMBER> to T3 TP */
/* Failed(status <STATUS>) to convert T3 TP <RECORD NUMBER> to EC1 TP */
/* Failed(status <STATUS>) to send PROV message for TP <RECORD NUMBER> */
/* Failed(status <STATUS>) to get supported entity of TP <RECORD NUMBER> */
/* <DATABASE TYPE> Database Error: <STATUS> for <AID STRING> */
/* <DATABASE TYPE> Database Error: <STATUS> for record number <RECORD NUM-
BER> */
/* <DATABASE TYPE> Database Error: <STATUS> */

SNVS    Status, Not in Valid State
SROF    Status, Requested Operation Failed
```

EXAMPLES

In the following example, VT1.5 port OC3VT1-166-1-6-2 generates a VT1.5 idle signal that is looped back to itself through the matrix.

```
OPR-ISGLP-VT1:OC3VT1-166-1-6-2;
```

RELATED COMMANDS

```

FLTLOC-PATH-VT1
OPR-ISGLP-STs1
OPR-ISGLP-T1
OPR-ISGLP-T3
RLS-ISGLP-STs1
```

RLS-ISGLP-T1
RLS-ISGLP-T3
RLS-ISGLP-VT1
RTRV-ISGLP-ALL

COMMAND CODE: **OPR-LPBK-EC1**
COMMAND NAME: **OPERATE LOOPBACK EC1**

PURPOSE

The OPR-LPBK-EC1 command establishes a near-end (in the system) EC1 loopback on the specified EC1 port.

A near-end loopback can be established at the receive-side (from the network) of the specified EC1 port (a facility loopback).

To execute an OPR-LPBK-EC1, the specified EC1 must have a PST of OOS-AUMA or OOS-MA and not have an SST of TRM or LPBK. Refer to Appendix G, State Transitions for additional information on state values and state transitions.

Executing OPR-LPBK-EC1 sets an ACTLPBK condition type on the specified EC1 port.

An OPR-LPBK-EC1 command is denied if:

- The specified EC1 port is not provisioned.
- The specified EC1 port does not have a PST of OOS-AUMA or OOS-MA.
- The specified EC1 port is already in a loopback (a EC1 SST of LPBK).
- Any embedded STS-1s, DS3s, DS1s, or VT1.5s within the specified EC1 port are cross-connected (an EC1 SST of TRM, are connected to a Test Access Port (an STS-1/DS3/VT1.5 SST of TS), are involved in a rolling operation (a VT1.5/DS1 SST of ROLL).
- The specified EC1 port has fault propagation active on it, or any of its embedded facilities have fault propagation set.
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

OPR-LPBK-EC1 : [TID] : AID : [CTAG] : : [LOCN] , , , [LPBKTYPE] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	EC1_AID: {EC1-{1-3840} } (EC1-EC1/STS1#) Default: Entry Required Addressing: None Description: EC1 AID, identifies the EC1 port.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
LOCN	{NEND} Default: {NEND} Addressing: None Description: Location, specifies the location (near-end) where the loopback is established. Value is: NEND Near-End, specifies that the loopback is to occur in the system.
LPBKTYPE	{FACILITY} Default: {FACILITY} Addressing: None Description: Loopback Type, specifies the type of loopback. Values are: FACILITY Facility, specifies a EC1 loopback at the receive-side (from the network) of the specified EC1 port.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent
IDNV	Input, Data Not Valid
IIAC	Input, Invalid ACcess identifier
SAOP	Status Already Operated
SDBE	Status, internal Data Base Error
	/* <DATABASE TYPE> Database Error: <STATUS> for <AID STRING> */
	/* <DATABASE TYPE> Database Error: <STATUS> for record number <RECORD NUMBER> */
SNVS	Status, Not in Valid State
SROF	Status, Requested Operation Failed
SRQN	Status, invalid ReQuest

EXAMPLES

In the following example, the OPR-LPBK-EC1 performs a FACILITY loopback (at the receive-side of the port) on EC1 port EC1-591.

```
OPR-LPBK-EC1::EC1-591;
```

RELATED COMMANDS

```
ENT-EC1
RLS-LPBK-EC1
RTRV-COND-EC1
RTRV-LPBK-EC1
RTRV-EC1
```

COMMAND CODE: **OPR-LPBK-OC12**
COMMAND NAME: **OPERATE LOOPBACK OC12**

PURPOSE

The OPR-LPBK-OC12 command establishes a near-end (in the system) OC12 loopback on the specified OC12 port.

A near-end loopback can be established at the receive-side (from the network) of the specified OC12 port (a facility loopback).

To execute an OPR-LPBK-OC12, the specified OC12 must have a PST of OOS-AUMA or OOS-MA and not have an SST of WRK or LPBK (i.e., the OC12 is not carrying traffic and is not in a loopback). Refer to Appendix G, State Transitions for additional information on state values and state transitions.

Executing OPR-LPBK-OC12 sets an ACTLPBK condition type on the specified OC12 port, and causes the fault propagation feature to be disabled on this port if set.

An OPR-LPBK-OC12 command is denied if:

- The specified OC12 port is not provisioned.
- The specified OC12 port does not have a PST of OOS-AUMA or OOS-MA.
- The specified OC12 port is already in a loopback (i.e., has an OC12 SST of LPBK).
- The specified OC12 is carrying traffic (i.e., has an OC12 SST of WRK).
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

OPR-LPBK-OC12 : [TID] : AID : [CTAG] : : [LOCN] , , , [LPBKTYPE] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	OC12_AID: {OC12-{1-560}} Default: Entry Required Addressing: None Description: OC12 AID, identifies the OC12 port. (OC12-OC12#)
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
LOCN	{NEND} Default: {NEND} Addressing: None Description: Location, specifies the location (near-end) where the loopback is established. Value is: NEND Near-End, specifies that the loopback is to occur in the system.
LPBKTYPE	{FACILITY} Default: {FACILITY} Addressing: None Description: Loopback Type, specifies the type of loopback. Values are: FACILITY Facility, specifies an OC12 loopback at the receive-side (from the network) of the specified OC12 port.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent
IDNV	Input, Data Not Valid
IIAC	Input, Invalid ACcess identifier
SAOP	Status Already Operated
SDBE	Status, internal Data Base Error
	/* <DATABASE TYPE> Database Error: <STATUS> for <AID STRING> */
	/* <DATABASE TYPE> Database Error: <STATUS> for record number <RECORD NUMBER> */
SNVS	Status, Not in Valid State
SROF	Status, Requested Operation Failed
SRQN	Status, invalid ReQuest

EXAMPLES

In the following example, the OPR-LPBK-OC12 performs a FACILITY loopback (at the receive-side of the port) on OC12 port OC12-207.

```
OPR-LPBK-OC12::OC12-207;
```

RELATED COMMANDS

```
ENT-OC12
RLS-LPBK-OC12
RTRV-COND-OC12
RTRV-LPBK-OC12
RTRV-OC12
```

COMMAND CODE: **OPR-LPBK-OC3**
COMMAND NAME: **OPERATE LOOPBACK OC3**

PURPOSE

The OPR-LPBK-OC3 command establishes a near-end (in the system) OC3 loopback on the specified OC3 port.

A near-end loopback can be established at the receive-side (from the network) of the specified OC3 port (a facility loopback).

To execute an OPR-LPBK-OC3, the specified OC3 must have a PST of OOS-AUMA or OOS-MA and not have an SST of WRK or LPBK (i.e., the OC3 is not carrying traffic and is not in a loopback). Refer to Appendix G, State Transitions for additional information on state values and state transitions.

Executing OPR-LPBK-OC3 sets an ACTLPBK condition type on the specified OC3 port, and causes the fault propagation feature to be disabled on this port if set.

An OPR-LPBK-OC3 command is denied if:

- The specified OC3 port is not provisioned.
- The specified OC3 port does not have a PST of OOS-MA or OOS-AUMA.
- The specified OC3 port is already in a loopback (i.e., has an OC3 SST of LPBK).
- The specified OC3 is carrying traffic (i.e., has an OC3 SST of WRK).
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

```
OPR-LPBK-OC3:[TID]:AID:[CTAG]::[LOCN],,,[LPBKTYPE];
```

INPUT PARAMETERS

TID	< 1–20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	OC3_AID: {OC3–{1–2240}} (OC3–OC3#) Default: Entry Required Addressing: None Description: OC3 AID, identifies the OC3 port.
CTAG	< 1–6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
LOCN	{NEND} Default: {NEND} Addressing: None Description: Location, specifies the location (near–end) where the loopback is established. Value is: NEND Near–End, specifies that the loopback is to occur in the system.
LPBKTYPE	{FACILITY} Default: {FACILITY} Addressing: None Description: Loopback Type, specifies the type of loopback. Values are: FACILITY Facility, specifies an OC3 loopback at the receive–side (from the network) of the specified OC3 port.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent
IDNV	Input, Data Not Valid
IIAC	Input, Invalid ACcess identifier
SAOP	Status Already Operated
SDBE	Status, internal Data Base Error
	/* <DATABASE TYPE> Database Error: <STATUS> for <AID STRING> */
	/* <DATABASE TYPE> Database Error: <STATUS> for record number <RECORD NUMBER> */
SNVS	Status, Not in Valid State
SROF	Status, Requested Operation Failed
SRQN	Status, invalid ReQuest

EXAMPLES

In the following example, the OPR-LPBK-OC3 performs a FACILITY loopback (at the receive-side of the port) on OC3 port OC3-207.

```
OPR-LPBK-OC3::OC3-207;
```

RELATED COMMANDS

```
ENT-OC3
RLS-LPBK-OC3
RTRV-COND-OC3
RTRV-LPBK-OC3
RTRV-OC3
```

COMMAND CODE: **OPR-LPBK-STST1**
COMMAND NAME: **OPERATE LOOPBACK STST1**

PURPOSE

The OPR-LPBK-STST1 command establishes a near-end (in the system) STST1 loopback on the specified STST1 port in the system cross-connect matrix (a matrix loopback). A loopback is allowed on an STST1 port that is not cross-connected, or that is one-way or two-way cross-connected.

To execute an OPR-LPBK-STST1, the specified STST1 must have a PST of OOS-AUMA or OOS-MA and the SST cannot be {TS, LPBK, TRM}. If the STST1 is cross-connected (it has an SST of ACT or BUSY), the command is completed and STST1 AIS is sent in the outgoing direction (the incoming signal is prevented from going out). Refer to Appendix G, State Transitions for additional information on state values and state transitions.

Executing OPR-LPBK-STST1 to establish a near-end loopback sets an ACTLPBK condition type on the specified STST1 port, and causes the fault propagation feature to be disabled on this port if set.

If OPR-LPBK-STST1 is issued to set up a matrix loopback on an STST1, embedded within a ring OC3/OC12, and is 2WAYPR cross-connected, both the addressed STST1 and its mate STST1 will enter SST of LPBK.

When OPR-LPBK-STST1 is successfully issued on an STST1, embedded within a ring OC3/OC12, with LPBKTYPE as PAYLOAD, the system will loopback the specified path inside the RPB.

When OPR-LPBK-STST1 is successfully issued on an STST1, embedded within a ring OC3/OC12, with LPBKTYPE as PAYLOAD and the specified path is cross-connected to its mate path to form a pass through path, the system will allow the "preferred" and "alternate" STST1 paths to be under PAYLOAD loopback at the same time.

An OPR-LPBK-STST1 command is denied if:

- The specified STST1 port is not provisioned.
- The specified STST1 port does not have a PST of OOS-AUMA or OOS-MA.
- The specified STST1 is already in a loopback (an STST1 SST of LPBK).
- OPR-LPBK-STST1 is issued with LPBKTYPE of MATRIX and the specified STST1 is cross-connected to another port which is also in a matrix loopback (an SST of ACT&LPBK or BUSY&LPBK).
- The specified STST1 is connected to a Test Access port (an STST1 SST of TS).
- The subordinated objects within the STST1 (i.e., VT1.5, DS3, or DS1) are cross-connected (i.e., the STST1 has a secondary state of TRM).
- Any embedded VT1.5s within the specified STST1 are under roll operation (a VT1.5 SST of ROLL) or are under test access operation (a VT1.5 SST of TS).
- Any embedded VT1.5s within the specified STST1 are provisioned (an STST1 SST of SDEE) and LPBKTYPE is specified as MATRIX.
- The specified STST1 is embedded within a protection OC3/OC12.
- The mate port of the specified STST1, embedded within a ring OC3/OC12, is not provisioned or not in a OOS-MA or OOS-AUMA state and a 2WAYDC connection exists.
- The specified STST1 whose mate STST1, embedded within a ring OC3/OC12, is already 2WAY cross-connected to an STST1, embedded within a non-ring OC3/OC12 or a different ring OC3/OC12, to form an unprotected 2WAY cross-connect.
- The specified STST1, embedded within a ring OC3/OC12, is unconnected and an attempt is made to perform matrix loopback on one path while its mate path is in matrix loopback.
- The value of LPBKTYPE is PAYLOAD and the specified STST1 is not embedded within a ring OC3/OC12.
- The port identified by the AID is involved in a redlined (RDL=Y) connection.
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

OPR-LPBK-STST1 : [TID] : AID : [CTAG] : : [LOCN] , , , [LPBKTYPE] ;

INPUT PARAMETERS

TID	< 1–20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	STS1_AID: {EC1STS1–{1–3840}} (EC1STS1–EC1/STS1#) {OC3STS1–{1–2240}–{1–3}} (OC3STS1–OC3#–STS1#) {OC12STS1–{1–560}–{1–4}–{1–3}} (OC12STS1–OC12#–STM1#–STS1#) Default: Entry Required Addressing: None Description: STS1 AID, identifies the STS1 port. Restrictions: OPR–LPBK–STS1 is denied if the VT1.5, DS3, or DS1 within it are cross–connected are under test access connection.
CTAG	< 1–6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
LOCN	{NEND} Default: {NEND} Addressing: None Description: Location, specifies the location (near–end) where the loopback is established. Values are: NEND Near–End, specifies that the loopback is to occur in the system.
LPBKTYPE	{MATRIX, PAYLOAD} Default: {MATRIX} Addressing: None Description: Loopback Type; specifies the type of loopback. Values are: MATRIX Matrix, specifies an STS1 loopback in the system matrix. PAYLOAD Payload, specifies an STS1 loopback in the system payload. Payload is only valid on STS1s embedded within a ring OC3/OC12 and performs loopback of the addressed STS1 in the RPB. Restrictions: OPR–LPBK–STS1 is denied if the specified STS1 has one or more embedded VT1.5s provisioned.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```


ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent
IDNV	Input, Data Not Valid
IIAC	Input, Invalid ACcess identifier
SAOP	Status Already OPERated
SARB	Status, All Resources Busy
SDBE	Status, internal Data Base Error
	/* <DATABASE TYPE> Database Error: <STATUS> for <AID STRING> */
	/* <DATABASE TYPE> Database Error: <STATUS> for record number <RECORD NUMBER> */
	/* Failed to update the STS database,status=<STATUS> */
SNVS	Status, Not in Valid State
SROF	Status, Requested Operation Failed
SRQN	Status, invalid ReQuest
	/* STS1 is connected to a port in MTRX lpbk */

EXAMPLES

In the following example, a loopback in the system's matrix is established for STS1 port OC3STS1-150-2.

```
OPR-LPBK-STs1::OC3STS1-150-2::,,MATRIX;
```

RELATED COMMANDS

```
ENT-STs1  
RLS-LPBK-STs1  
RTRV-COND-STs1  
RTRV-LPBK-STs1  
RTRV-STs1
```


COMMAND CODE: **OPR-LPBK-ST3C**
COMMAND NAME: **OPERATE LOOPBACK ST3C**

PURPOSE

The OPR-LPBK-ST3C command establishes a near-end (in the system) ST3C loopback on the specified ST3C port in the system cross-connect matrix (a matrix loopback). A loopback is allowed on an ST3C port that is not cross-connected.

To execute an OPR-LPBK-ST3C, the specified ST3C must have a PST of OOS-AUMA or OOS-MA and the SST cannot be TS, LPBK, or TRM. Refer to Appendix G, State Transitions for additional information on state values and state transitions.

Executing OPR-LPBK-ST3C to establish a near-end loopback sets a MAN condition type on the specified ST3C port, and causes the fault propagation feature to be disabled on this port if set.

An OPR-LPBK-ST3C command is denied if:

- The specified ST3C port is not provisioned.
- The specified ST3C port does not have a PST of OOS-AUMA or OOS-MA.
- The specified ST3C is already in a loopback (an ST3C SST of LPBK).
- OPR-LPBK-ST3C is issued with LPBKTYPE of MATRIX and the specified ST3C is cross-connected to another port which is also in a matrix loopback (an SST of ACT&LPBK or BUSY&LPBK).
- The specified ST3C is connected to a Test Access port (an ST3C SST of TS).
- The subordinated objects within the ST3C (i.e., OC3/OC12) are cross connected (i.e., the ST3C has a secondary state of TRM).
- The specified ST3C is cross-connected (i.e., has a secondary state of ACT or BUSY).
- The specified ST3C is embedded within a protection OC3/OC12.
- The port identified by the AID is involved in a redlined (RDL=Y) connection.
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

OPR-LPBK-ST3C: [TID] :AID: [CTAG] :: [LOCN] , , , [LPBKTYPE] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	STS3C_AID: {OC3STS3C-{1-2240}} (OC3STS3C-OC3#/STS3C#) {OC12STS3C-{1-560}-{1-4}} (OC12STS3C-OC12#-STM1/STS3C#) Default: Entry Required Addressing: None Description: STS3C AID, identifies the STS3C port. Restrictions: OPR-LPBK-ST3C is denied if the OC3/OC12 within it are cross-connected are under test access connection.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
LOCN	{NEND} Default: {NEND} Addressing: None Description: Location, specifies the location (near-end) where the loopback is established. Values are: NEND Near-End, specifies that the loopback is to occur in the system.

LPBKTYPE	{MATRIX}
Default:	{MATRIX}
Addressing:	None
Description:	Loopback Type; specifies the type of loopback. Values are: MATRIX Matrix, specifies an STS3C loopback in the system matrix.
Restrictions:	OPR-LPBK-STS3C is denied if the specified STS3C has one or more embedded OC3s/OC12s provisioned and LPBKTYPE=MATRIX.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID [-VCNUM] >) */]
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID [-VCNUM] >) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent
IDNV	Input, Data Not Valid
IIAC	Input, Invalid ACcess identifier
SAOP	Status Already Operated
SARB	Status, All Resources Busy
SDBE	Status, internal Data Base Error
	/* <DATABASE TYPE> Database Error: <STATUS> for <AID STRING> */
	/* <DATABASE TYPE> Database Error: <STATUS> for record number <RECORD NUMBER> */
	/*Failed to update the STS database,status=<STATUS>*/
SNVS	Status, Not in Valid State
SROF	Status, Requested Operation Failed
SRQN	Status, invalid ReQuest
	/* STS3 is connected to a port in MTRX lpbk */

EXAMPLES

In the following example, a loopback in the system's matrix is established for STS3C port OC3STS3C-3.

```
OPR-LPBK-STS3C::OC3STS3C-3::,,MATRIX;
```

RELATED COMMANDS

ENT-STS3C
RLS-LPBK-STS3C
RTRV-COND-STS3C
RTRV-LPBK-STS3C
RTRV-STS3C

COMMAND CODE: **OPR-LPBK-T1**
COMMAND NAME: **OPERATE LOOPBACK T1**

PURPOSE

The OPR-LPBK-T1 command establishes a near-end (in the system) DS1 loopback or far-end DS1 C-bit loopback request (to the far-end of the facility) on the specified DS1 port.

A near-end loopback can be established at the receive-side (from the network) of the specified DS1 port (a facility loopback) or in the system cross-connect matrix (a matrix loopback).

A near-end facility or matrix loopback is allowed on a DS1 port that is not cross-connected, or that is one-way or two-way cross-connected, but is not allowed on a DS1 port that is the head (Master) or tail of a broadcast conference cross-connection. If the facility or matrix loopback is executed on a DS1 that is one-way or two-way cross-connected (i.e., it has an SST of ACT or BUSY), DS1 AIS is transmitted in the outgoing direction if cross-connected to a DS1, or VT1.5 AIS is transmitted in the outgoing direction if cross-connected to a VT1.5, and the incoming DS1 signal is looped back.

A far-end C-bit loopback request is established by transmitting a C-bit loopback request in the supporting DS2 signal to the far-end of the facility for the specified DS1, regardless of whether the specified port is cross connected.

Only one loopback at a time (near-end or far-end) can be established for each DS1 port.

To execute an OPR-LPBK-T1, the specified DS1 must have a PST of OOS-AUMA or OOS-MA. If a facility (near-end or far-end) or matrix loopback is specified, the SST cannot be {TS, LPBK}. Refer to Appendix G, State Transitions for additional information on state values and state transitions.

Executing OPR-LPBK-T1 to establish a near-end loopback sets an ACTLPBK condition type on the specified DS1 port. Executing OPR-LPBK-T1 to establish a far-end loopback request sets an XMTCLPBK condition type on the specified DS1 port.

Executing OPR-LPBK-T1 causes the fault propagation feature to be disabled on the specified port if set.

An OPR-LPBK-T1 command is denied if:

- The specified DS1 port is not provisioned.
- The specified DS1 port is provisioned as a Idle Signal Source port.
- The specified DS1 port does not have a PST of OOS-AUMA or OOS-MA.
- The specified DS1 is already in a loopback (a DS1 SST of LPBK).
- OPR-LPBK-T1 is issued with LPBKTYPE of MATRIX and the specified DS1 is cross-connected to another port which is also in a matrix loopback (a DS1 SST of ACT&LPBK or BUSY&LPBK).
- The specified DS1 is connected to a Test Access port (a DS1 SST of TS) or is a connected Test Access port (a DS1 SST of TS).
- The specified DS1 is the head (Master) or tail of a broadcast conference cross-connection.
- The specified DS1 is embedded within VT1.5.
- The specified port is in roll operation (a DS1 SST of ROLL).
- The specified DS1 is embedded within a protection OC3/OC12.
- The specified DS1 is embedded within an OC3 that is part of an OC3/OC12 ring (using ENT-RNG-OC3 or ENT-RNG-OC12).
- The port identified by the AID is involved in a redlined (RDL=Y) connection.
- An invalid parameter value or combination of parameter values is entered.

- The following combinations of specified AIDs and LPBKTYPE, when the LOCN is NEND, are specified:

AID	LOCN of NEND and LPBKTYPE of :	
	FACILITY	MATRIX
Electrical T1	Allowed	Allowed
DS1 embedded within T3	Allowed	Allowed
DS1 embedded within DS3 which itself is embedded within an EC1, OC3 or OC12	Allowed	Allowed
DS1 embedded within VT1.5 which itself is embedded within an EC1, OC3 or OC12	Denied. Use OPR-LPBK-VT1	Denied. Use OPR-LPBK-VT1

INPUT FORMAT

OPR-LPBK-T1 : [TID] : AID : [CTAG] : : [LOCN] , , , [LPBKTYPE] ;

INPUT PARAMETERS

TID	<p>< 1-20 VALID TID CHARACTERS ></p> <p>Default: <SID></p> <p>Addressing: None</p> <p>Description: Target Identifier, specifies the network node TID for the command.</p>
AID	<p>DS1_AID:</p> <p>{T1-{1-59392}} (T1-DS1#)</p> <p>{T3T1-{1-4800}-{1-28}} (T3T1-DS3#-DS1#)</p> <p>{EC1T1-{1-3840}-{1-28}} (EC1T1-EC1/STS1/DS3#-DS1#)</p> <p>{OC3T1-{1-2240}-{1-3}-{1-28}} (OC3T1-OC3#-STS1/DS3#-DS1#)</p> <p>{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}} (OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)</p> <p>Default: Entry Required</p> <p>Addressing: None</p> <p>Description: DS1 AID, identifies the DS1 port.</p> <p>Restrictions: OPR-LPBK-T1 is denied if AID of DS1 embedded within VT1.5 is specified.</p>
CTAG	<p>< 1-6 VALID CTAG CHARACTERS ></p> <p>Default: < System assigned CTAG value ></p> <p>Addressing: None</p> <p>Description: Correlation Tag, associates input command with its output responses.</p>
LOCN	<p>{FEND, NEND}</p> <p>Default: {NEND}</p> <p>Addressing: None</p> <p>Description: Location, specifies the location (near-end or far-end) where the loopback is established. Values are:</p> <p>FEND Far-End, specifies that a C-bit loopback request is to be transmitted in the supporting DS2 signal to loopback the specified DS1 at the far-end of the facility.</p> <p>NEND Near-End, specifies that the loopback is to occur in the system.</p> <p>Restrictions: OPR-LPBK-T1 is denied if LOCN of FEND and LPBKTYPE of MATRIX is entered.</p> <p>OPR-LPBK-T1 is denied if LOCN of FEND is entered and the specified AID identifies an electrical (non-embedded) T1.</p>

LPBKTYPE {FACILITY, MATRIX}
Default: {FACILITY}
Addressing: None
Description: Loopback Type; specifies the type of loopback. Values are:
 FACILITY Facility, specifies a DS1 loopback at the receive-side (from the network) of the specified DS1 port if LOCN of NEND is entered, or specifies a C-bit loopback request is to be transmitted if LOCN of FEND is entered.
 MATRIX Matrix, specifies a DS1 loopback in the system matrix.
Restrictions: OPR-LPBK-T1 is denied if LPBKTYPE of MATRIX and LOCN of FEND is entered.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent /*The alternate VT1 is already in PAYLOAD/MTRX lpbk */ /*MATRIX lpbktype is invalid on a 2WAYPR port */ /*The alternate VT1 is in 2WAYPR connection */
IDNV	Input, Data Not Valid
IIAC	Input, Invalid ACcess identifier
SAOP	Status Already Operated
SDBE	Status, internal Data Base Error /* <DATABASE TYPE> Database Error: <STATUS> for <AID STRING> */ /* <DATABASE TYPE> Database Error: <STATUS> for record number <RECORD NUMBER> */ /* Failed to update the STS database,status=<STATUS> */
SNVS	Status, Not in Valid State /* Port is embedded in ring OC3 */
SROF	Status, Requested Operation Failed
SRQN	Status, invalid ReQuest /* Loopback not allowed when supporting entities are connected */ /* Loopback not allowed when supporting entity under MATRIX loopback */ /* Loopback not allowed on head or tail of a bridge */ /* T1 is connected to a port in MTRX lpbk */

EXAMPLES

In the following example, a loopback in the system's matrix is established for DS1 port T3T1-1398-3.

```
OPR-LPBK-T1::T3T1-1398-3::,,MATRIX;
```

In the following example, a far-end loopback for DS1 port T3T1-1398-4 is established by transmitting a C-bit loopback request in the supporting DS2 signal.

```
OPR-LPBK-T1::T3T1-1398-4:::FEND;
```

RELATED COMMANDS

```
ENT-T1
```

```
RLS-LPBK-T1
```

```
RTRV-COND-T1
```

```
RTRV-LPBK-T1
```

```
RTRV-T1
```

COMMAND CODE: **OPR-LPBK-T3**
COMMAND NAME: **OPERATE LOOPBACK T3**

PURPOSE

The OPR-LPBK-T3 command establishes a near-end (in the system) DS3 loopback on the specified electrical DS3 port.

A near-end loopback can be established at the receive-side (from the network) of the specified DS3 port (a facility loopback) or in the system cross-connect matrix (a matrix loopback).

A near-end facility or matrix loopback is allowed on a DS3 port that is not cross-connected, or that is one-way or two-way cross-connected (it has an SST of ACT or BUSY), in which case DS3 AIS is transmitted in the outgoing direction and the incoming signal is looped back.

To execute an OPR-LPBK-T3, the specified DS3 must have a PST of OOS-AUMA or OOS-MA. If a facility or matrix loopback is specified, the SST cannot be {TS, LPBK, TRM}. Refer to Appendix G, State Transitions for additional information on state values and state transitions.

Executing OPR-LPBK-T3 sets an ACTLPBK condition type on the specified DS3 port, and causes the fault propagation feature to be disabled on this port if set.

An OPR-LPBK-T3 command is denied if:

- The specified DS3 port is not provisioned.
- The specified DS3 is embedded within an OC3 or OC12 that is part of an OC3/OC12 ring (using ENT-RNG-OC3 or ENT-RNG-OC12).
- The specified DS3 port does not have a PST of OOS-AUMA or OOS-MA.
- The specified DS3 port is already in a loopback (a DS3 SST of LPBK).
- OPR-LPBK-T3 is issued with LPBKTYPE of MATRIX and the specified DS3 is cross-connected to another port which is also in a matrix loopback (a DS3 SST of ACT&LPBK or BUSY&LPBK).
- The specified DS3 port is connected to a Test Access port (a DS3 SST of TS).
- Any embedded DS1s within the specified DS3 port are cross-connected (a DS3 SST of TRM, or a DS1 SST of ACT or BUSY), are connected to a Test Access port (a DS1 SST of TS), are a connected Test Access port (a DS1 SST of TS), are under Roll operation (a DS1 SST of ROLL), or are in loopback (a DS1 SST of LPBK) and LPBKTYPE of MATRIX is specified.
- The specified DS3 has fault propagation active on it, or any of its embedded facilities have fault propagation set.
- The specified DS3 is an electrical (stand-alone) DS3 which resides in a quad or an Standard EP3 shelf.
- The port identified by the AID is involved in a redlined (RDL=Y) connection.
- An invalid parameter value or combination of parameter values is entered.
- The following combinations of specified AIDs and LPBKTYPE, when the LOCN is NEND, are specified:

AID	LOCN of NEND and LPBKTYPE of:		
	FACILITY	MATRIX	TERMINAL
Electrical DS3	Allowed	Allowed	Denied
DS3 embedded within EC1, OC3 or OC12	Denied	Denied. Use OPR-LPBK-STS1	Denied

INPUT FORMAT

OPR-LPBK-T3 : [TID] : AID : [CTAG] : : [LOCN] , , , [LPBKTYPE] ;

INPUT PARAMETERS

TID < 1-20 VALID TID CHARACTERS >
Default: <SID>
Addressing: None
Description: Target Identifier, specifies the network node TID for the command.

AID	DS3_AID: {T3-{1-4800}} Default: Entry Required Addressing: None Description: DS3 AID, identifies the DS3 port.	(T3-DS3#)
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.	
LOCN	{NEND} Default: {NEND} Addressing: None Description: Location, specifies the location (near-end) where the loopback is established. Value is: NEND Near-End, specifies that the loopback is to occur in the system.	
LPBKTYPE	{FACILITY, MATRIX} Default: {FACILITY} Addressing: None Description: Loopback Type, specifies the type of loopback. Values are: FACILITY Facility, specifies a DS3 loopback at the receive-side (from the network) of the specified DS3 port. MATRIX Matrix, specifies a DS3 loopback in the system matrix.	

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

```

IDNC    Input, Data Not Consistent
IDNV    Input, Data Not Valid
IIAC    Input, Invalid ACcess identifier
SAOP    Status Already OPerated
SARB    Status, All Resources Busy
SDBE    Status, internal Data Base Error
        /* <DATABASE TYPE> Database Error: <STATUS> for <AID STRING> */
        /* <DATABASE TYPE> Database Error: <STATUS> for record number <RECORD NUM-
        BER> */
        /* Failed to update the STS database,status=<STATUS> */
```

SNVS	Status, Not in Valid State
SROF	Status, Requested Operation Failed
SRQN	Status, invalid ReQuest

/* T3 is connected to a port in MTRX lpbk */

EXAMPLES

In the following example, the OPR-LPBK-T3 performs a FACILITY loopback (at the receive-side of the port) on DS3 port T3-1551.

```
OPR-LPBK-T3::T3-1551;
```

RELATED COMMANDS

```
ENT-T3  
RLS-LPBK-T3  
RTRV-COND-T3  
RTRV-LPBK-T3  
RTRV-T3
```


COMMAND CODE: **OPR-LPBK-VT1**
COMMAND NAME: **OPERATE LOOPBACK VT1**

PURPOSE

The OPR-LPBK-VT1 command establishes a near-end (in the system) VT1.5 loopback on the specified VT1.5 port.

A near-end loopback can be established in the system cross-connect matrix (a matrix loopback). A matrix loopback is allowed on a VT1.5 port that is not cross-connected, or that is one-way or two-way cross-connected (i.e., it has an SST of ACT or BUSY), but is not allowed on a VT1.5 port that is the head (Master) or tail of a broadcast conference cross-connection. If the matrix loopback is executed on a VT1.5 that is one-way or two-way cross-connected, VT1.5 AIS is transmitted in the outgoing direction and the incoming signal is looped back.

To execute an OPR-LPBK-VT1, the specified VT1.5 must have a PST of OOS-AUMA or OOS-MA. If a matrix loopback is specified, the SST cannot be {TS, LPBK}. Refer to Appendix G, State Transitions for additional information on state values and state transitions.

Executing OPR-LPBK-VT1 to establish a near-end loopback sets an ACTLPBK condition type on the specified VT1.5 port.

Executing OPR-LPBK-VT1 causes the fault propagation feature to be disabled on the specified port if set.

If OPR-LPBK-VT1 is issued to set up a matrix loopback on an VT1.5, embedded within a ring OC3/OC12, and is 2WAYPR cross-connected, both the addressed VT1.5 and its mate VT1.5 will enter an SST of LPBK.

When OPR-LPBK-VT1 is successfully issued on a VT1.5, embedded within a ring OC3/OC12, with LPBKTYPE as PAYLOAD, the system will loopback the specified path inside the RPB.

When OPR-LPBK-VT1 is successfully issued on a VT1.5, embedded within a ring OC3/OC12, with LPBKTYPE as PAYLOAD and the specified path is cross-connected to its mate path to form a pass-through path, the system will allow the "preferred" and "alternate" VT1.5 paths to be under PAYLOAD loopback at the same time.

An OPR-LPBK-VT1 command is denied if:

- The specified VT1.5 port is not provisioned.
- The specified VT1.5 port does not have a PST of OOS-AUMA or OOS-MA.
- The specified VT1.5 is already in a loopback (a VT1.5 SST of LPBK).
- OPR-LPBK-VT1 is issued LPBKTYPE of MATRIX and the specified VT1.5 is cross-connected to another port which is also in a matrix loopback (an SST of ACT&LPBK or BUSY&LPBK).
- The specified VT1.5 is connected to a Test Access port (a VT1.5 SST of TS).
- The specified VT1.5 is embedded within an STS-1 which itself is embedded within a protection OC3/OC12.
- The specified VT1.5 is the head (Master) or tail of a broadcast conference cross-connection.
- The specified VT1.5 is under roll operation (a VT1.5 SST of ROLL).
- The mate port of the specified VT1.5, embedded within a ring OC3/OC12, is not provisioned or not in a OOS-MA or OOS-AUMA state.
- The specified VT1.5 whose mate VT1.5, embedded within a ring OC3/OC12, is already 2WAY cross-connected to an VT1.5, embedded within a non-ring EC1 or a different ring OC3/OC12, to form an unprotected 2WAY cross-connect.
- The specified VT1.5, embedded within a ring OC3/OC12, is unconnected and an attempt is made to perform matrix loopback on one path while its mate path is in matrix loopback.
- The value of LPBKTYPE is PAYLOAD and the specified VT1.5 is not embedded within a ring OC3/OC12.
- The port identified by the AID is involved in a redlined (RDL=Y) connection.
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

OPR-LPBK-VT1 : [TID] : AID : [CTAG] : : [LOCN] , , , [LPBKTYPE] ;

INPUT PARAMETERS

TID	< 1–20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	VT1_AID: {EC1VT1–{1–3840}–{1–7}–{1–4}} (EC1VT1–EC1/STS1#–VTGrp#–VT1.5#) {OC3VT1–{1–2240}–{1–3}–{1–7}–{1–4}} (OC3VT1–OC3#–STS1#–VTGrp#–VT1.5#) {OC12VT1–{1–560}–{1–4}–{1–3}–{1–7}–{1–4}} (OC12VT1–OC12#–STM1#–STS1#–VTGrp#–VT1.5#) Default: Entry Required Addressing: None Description: VT1 AID, identifies the VT1.5 port.
CTAG	< 1–6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
LOCN	{NEND} Default: {NEND} Addressing: None Description: Location, specifies the location (near–end) where the loopback is established. Values are: NEND Near–End, specifies that the loopback is to occur in the system.
LPBKTYPE	{MATRIX, PAYLOAD} Default: {MATRIX} Addressing: None Description: Loopback Type; specifies the type of loopback. Values are: MATRIX Matrix, specifies a VT1.5 loopback in the system matrix. PAYLOAD Payload, specifies a VT1.5 loopback in the system payload. Payload is only valid on VT1.5s embedded within a ring OC3/OC12 and performs loopback of the addressed VT1.5 in the RPB.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non–Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent /*The alternate VT1 is already in PAYLOAD/MTRX lpbk */ /*MATRIX lpbktype is invalid on a 2WAYPR port */ /*The alternate VT1 is in 2WAYPR connection */
IDNV	Input, Data Not Valid
IIAC	Input, Invalid ACcess identifier
SAOP	Status Already Operated
SDBE	Status, internal Data Base Error /* <DATABASE TYPE> Database Error: <STATUS> for <AID STRING> */ /* <DATABASE TYPE> Database Error: <STATUS> for record number <RECORD NUMBER> */ /* Failed to update the STS database,status=<STATUS> */
SNVS	Status, Not in Valid State
SROF	Status, Requested Operation Failed
SRQN	Status, invalid ReQuest /* VT1 is connected to a port in MTRX lpbk */ /* Loopback not allowed on head or tail of a bridge */

EXAMPLES

In the following example, a loopback in the system's matrix is established for VT1.5 port OC3VT1-150-2-1-3.

```
OPR-LPBK-VT1::OC3VT1-150-2-1-3::,, ,MATRIX;
```

RELATED COMMANDS

```
ENT-VT1  
RLS-LPBK-VT1  
RTRV-COND-VT1  
RTRV-LPBK-VT1  
RTRV-VT1
```


COMMAND CODE: **OPR-PROTNSW-OC12**
COMMAND NAME: **OPERATE PROTECTION SWITCH OC-12**

PURPOSE

The OPR-PROTNSW-OC12 command instructs the system to initiate a SONET line (OC-12) protection switch. User switch requests initiated with this command (i.e., forced switch, lockout and manual switch) remain active until they are released using RLS-PROTNSW-OC12 command or overridden by a higher priority protection switch request.

This command may not require a switch to occur. It may be used to upgrade the priority of the OC-12 line already on protection, for example, to upgrade the priority of a channel automatically switched to protection to a “forced switch”.

An OPR-PROTNSW-OC12 command is denied if:

- The specified OC-12 and its redundant OC-12 line have not been defined as an FFP pair (using ENT-FFP-OC12).
- The command is issued with SC=MAN and a Forced Switch, automatic switch due to Signal failure, or an automatic switch due to Signal Degrade or lockout of protection is in effect.
- The command is issued with SC=FRCD and either another Forced Switch is being honored, or there is a lockout of protection.
- The redundant OC-12 line is not provisioned.
- An invalid parameter value is entered.

INPUT FORMAT

```
OPR-PROTNSW-OC12:[TID]:AID:[CTAG]::SC:[DIRN];
```

INPUT PARAMETERS

TID	< 1–20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	OC12_AID: {OC12–{1–560}} (OC12–OC12#) Default: Entry Required Addressing: None Description: OC12 AID, identifies the OC–12 port to be switched to protection.
CTAG	< 1–6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SC	{FRCD, LOCKOUT, MAN}	
	Default:	Entry Required
	Addressing:	None
	Description:	The Switch Command that is to be initiated on the specified line. Values are:
	FRCD	Forced Switch. If the AID refers to working line (odd numbered OC–12), the Forced Switch of Working Line (to Protection Line – even numbered OC–12) will be executed only if the protection line is not satisfying a higher or equal priority request. If the AID identifies a working line that has already been switched to protection by an automatic or manual switch, no switch occurs. However, the priority of the existing switch will be raised to “forced”. If the AID refers to the protection line (even numbered OC–12), the Forced Switch of the Protection Line to Working line (odd numbered OC–12) will be executed only if the working line is not satisfying a higher or equal priority request. If the AID identifies a protection line that has already been switched to working by an automatic or manual switch, no switch occurs. However, the priority of the existing switch will be raised to “forced”. The forced switch of protection to working is applicable only to 1+1 unidirectional APS architecture.
	LOCKOUT	Lockout. If the AID identifies a protection line, then any working line will be prevented from using the protection resources. If the working line is on protection at the time of issuance of this command, the service will be switched back to working line. Since in a 1+1 architecture there is only one working line, the lockout of the working line and protection line are the same, hence no lockout of the working line will be supported in this release.
	MAN	Manual Switch. If the AID refers to working line (odd numbered OC–12), the Manual Switch of Working Line (to Protection Line – even numbered OC–12) will be executed only if the protection line is not in a Signal Fail (SF) state or is not satisfying a higher or equal priority request. If the AID refers to the protection line (even numbered OC–12), the Manual Switch of the Protection Line to Working line (odd numbered OC–12) will be executed only if the working line is not in a Signal Fail (SF) state or is not satisfying a higher or equal priority request. The manual switch of protection to working is applicable only to 1+1 unidirectional APS architecture.
DIRN	{RCV}	
	Default:	{ RCV }
	Addressing:	None
	Description:	Direction. This parameter determines the direction of transmission in which the switching is to be made and is relative to the SONET line identified by the AID. Values are:
	RCV	Receive direction.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

SARB	Status, All Resources Busy /* A manual switch is in progress for this protection group. */
SDBE	Status, internal Data Base Error /* Failure in FFPidToGlobFFPid, ffp %d, status %d */ /* TP Database Error: <ERROR-STRING> for <AID-STRING> */ /* FFP Database Error: <ERROR-STRING> */
SROF	Status, Requested Operation Failed /* No response received from L3P. */ /* SPB timeout occurred. */ /* SPB failure response, status=%d */
SSRD	Status, Switch Request Denied /* Signal Failure detected. */ /* Signal Degrade detected. */ /* A higher priority switch request is being serviced. */

EXAMPLES

In the following example, a manual switch of the working OC-12 line OC12-1 to protection line OC12-2 is done. It is assumed that the OC12-1 and OC12-2 are good lines and no other manual switch/automatic switch is present on these lines.

```
OPR-PROTNSW-OC12::OC12-1::MAN;
```

In the following example, a manual switch of the working line OC12-1 is requested while there is signal failure on the line OC12-2.

```
OPR-PROTNSW-OC12::OC12-1::MAN;
```

For this example, the output response shown assumes CID 1 was used to enter the command and a system generated CTAG value of Pfc518. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pfc518 PRTL
"OC12-1:ERRCDE=SSRD"
/* Status, Switch Request Denied. */
/* Signal Failure detected. */
```

RELATED COMMANDS

```
RLS-PROTNSW-OC12
```


COMMAND CODE: **OPR-PROTNSW-OC3**
COMMAND NAME: **OPERATE PROTECTION SWITCH OC-3**

PURPOSE

The OPR-PROTNSW-OC3 command instructs the system to initiate a SONET line (OC-3) protection switch. User switch requests initiated with this command (i.e., forced switch, lockout and manual switch) remain active until they are released using RLS-PROTNSW-OC3 command or overridden by a higher priority protection switch request.

This command may not require a switch to occur. It may be used to upgrade the priority of the OC-3 line already on protection, for example, to upgrade the priority of a channel automatically switched to protection to a "forced switch".

An OPR-PROTNSW-OC3 command is denied if:

- The specified OC-3 and its redundant OC-3 line have not been defined as an FFP pair (using ENT-FFP-OC3).
- The command is issued with SC=MAN and a Forced Switch, automatic switch due to Signal failure, or an automatic switch due to Signal Degrade or lockout of protection is in effect.
- The redundant OC-3 line is not provisioned.
- An invalid parameter value is entered.

INPUT FORMAT

OPR-PROTNSW-OC3 : [TID] : AID : [CTAG] : : SC : [DIRN] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >		
	Default:	<SID>	
	Addressing:	None	
	Description:	Target Identifier, specifies the network node TID for the command.	
AID	OC3_AID:		
	{OC3-{1-2240}}		(OC3-OC3#)
	Default:	Entry Required	
	Addressing:	None	
	Description:	OC3 AID, identifies the OC-3 port to protection switched.	
CTAG	< 1-6 VALID CTAG CHARACTERS >		
	Default:	< System assigned CTAG value >	
	Addressing:	None	
	Description:	Correlation Tag, associates input command with its output responses.	

SC	{FRCD, LOCKOUT, MAN}	
	Default:	Entry Required
	Addressing:	None
	Description:	The Switch Command that is to be initiated on the specified line. Values are:
	FRCD	Forced Switch. If the AID refers to working line (odd numbered OC-3), the Forced Switch of Working Line (to Protection Line – even numbered OC-3) will be executed only if the protection line is not satisfying a higher or equal priority request. If the AID identifies a working line that has already been switched to protection by an automatic or manual switch, no switch occurs. however, the priority of the existing switch will be raised to “forced”. If the AID refers to the protection line (even numbered OC-3), the Forced Switch of the Protection Line to Working line (odd numbered OC-3) will be executed only if the working line is not satisfying a higher or equal priority request. If the AID identifies a protection line that has already been switched to working by an automatic or manual switch, no switch occurs. however, the priority of the existing switch will be raised to “forced”. The forced switch of protection to working is applicable only to 1+1 unidirectional APS architecture.
	LOCKOUT	Lockout. If the AID identifies a protection line, then any working line will be prevented from using the protection resources. If the working line is on protection at the time of issuance of this command, the service will be switched back to working line. Since in a 1+1 architecture there is only one working line, the lockout of the working line and protection line are the same, hence no lockout of the working line will be supported in this release.
	MAN	Manual Switch. If the AID refers to working line (odd numbered OC-3), the Manual Switch of Working Line (to Protection Line – even numbered OC-3) will be executed only if the protection line is not in a Signal Fail (SF) state or is not satisfying a higher or equal priority request. If the AID refers to the protection line (even numbered OC-3), the Manual Switch of the Protection Line to Working line (odd numbered OC-3) will be executed only if the working line is not in a Signal Fail (SF) state or is not satisfying a higher or equal priority request. The manual switch of protection to working is applicable only to 1+1 unidirectional APS architecture.
DIRN	{RCV}	
	Default:	{ RCV }
	Addressing:	None
	Description:	Direction. This parameter determines the direction of transmission in which the switching is to be made and is relative to the SONET line identified by the AID. Values are:
	RCV	Receive direction.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```


UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

SARB	Status, All Resources Busy /* A manual switch is in progress for this protection group. */
SDBE	Status, internal Data Base Error /* Failure in FFPidToGlobFFPid, ffp %d, status %d */ /* TP Database Error: <ERROR-STRING> for <AID-STRING> */ /* FFP Database Error: <ERROR-STRING> */
SROF	Status, Requested Operation Failed /* No response received from L3P. */ /* SPB timeout occurred. */ /* SPB failure response, status=%d */
SSRD	Status, Switch Request Denied /* Signal Failure detected. */ /* Signal Degrade detected. */ /* A higher priority switch request is being serviced. */

EXAMPLES

In the following example, a manual switch of the working OC3 line OC3-1 to protection line OC3-2 is done. It is assumed that the OC3-1 and OC3-2 are good lines and no other manual switch/automatic switch is present on these lines.

```
OPR-PROTNSW-OC3::OC3-1:::MAN;
```

In the following example, a manual switch of the working line OC3-1 is requested while there is a failed signal on the line OC3-2.

```
OPR-PROTNSW-OC3::OC3-1:::MAN;
```

For this example, the output response shown assumes CID 1 was used to enter the command and a system generated CTAG value of Pfc518. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pfc518 PRTL
"OC3-1:ERRCDE=SSRD"
/* Status, Switch Request Denied. */
/* Signal Failure detected. */
```

RELATED COMMANDS

```
RLS-PROTNSW-OC3
```


COMMAND CODE: **OPR-PROTNSW-ST51**
COMMAND NAME: **OPERATE PROTECTION SWITCH ST5-1**

PURPOSE

The OPR-PROTNSW-ST51 command instructs the system to initiate a SONET ST5-1 path level protection switch. User switch requests initiated with this command (i.e., forced switch, manual switch) remain active until they are released via RLS-PROTNSW-ST51 command or overridden by a higher priority protection switch request. Switch requests are not queued; a switch request overridden by a higher priority request is not saved. This command is only applicable to ring configurations (refer to ENT-RNG-OC3).

This command may not require a switch to occur. It may be used to upgrade the priority of the ST5-1 path already on alternate (i.e., protecting), for example, to upgrade the priority of a channel automatically switched to alternate (i.e., protecting) to a "forced switch".

Executing an OPR-PROTNSW-ST51 command causes the path to which the traffic was switched to carry an SST of WRK and the path from which the traffic was switched (if the path has a PST of IS) to carry an SST of STBYH.

An OPR-PROTNSW-ST51 command is denied if:

- The specified ST5-1 and its alternate (i.e., protecting) ST5-1 ring path are not dropped (i.e., CCT is not equal to 2WAYPR/2WAYDC).
- The command is issued with SC=MAN, while an automatic switch, FS (Forced Switch), or MS (Manual Switch) exists on the ST5-1 path pair.
- The command is issued with SC=FRCD, and FS exists on the ST5-1 path pair.
- The command is issued with SC=MAN or FRCD, and the alternate facility to which the ST51 would switch or the O1B module in which the facility resides is logically removed (i.e., in the OOS-MA state) or faulty (OOS-AU).
- An invalid parameter value is entered.

INPUT FORMAT

OPR-PROTNSW-ST51 : [TID] : AID : [CTAG] : : SC : [DIRN] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >		
	Default:	<SID>	
	Addressing:	None	
	Description:	Target Identifier, specifies the network node TID for the command.	
AID	STS1_AID:		
	{OC3STS1-{1-2240}-{1-3}}	(OC3STS1-OC3#-STS1#)	
	{OC12STS1-{1-560}-{1-4}-{1-3}}	(OC12STS1-OC12#-STM1#-STS1#)	
	Default:	Entry Required	
	Addressing:	None	
	Description:	STS1 AID, identifies the STS-1 path from which to switch.	
CTAG	< 1-6 VALID CTAG CHARACTERS >		
	Default:	< System assigned CTAG value >	
	Addressing:	None	
	Description:	Correlation Tag, associates input command with its output responses.	

SC	{FRCD, MAN}	
	Default:	Entry Required
	Addressing:	None
	Description:	The Switch Command that is to be initiated on the specified STS–1 path. Values are:
	FRCD	Forced Switch. If the AID refers to preferred (i.e., protected) path, the Forced Switch of preferred path (to alternate path) will be executed unless another Forced Switch (e.g., Forced Switch of alternate path to preferred path) is in effect. If the AID identifies a preferred path that has already been switched to alternate by an automatic or manual switch, no switch occurs. However, the priority of the existing switch will be raised to “forced”. If the AID refers to the alternate (i.e., protecting) path, the Forced Switch of the alternate path (to preferred path) will be executed unless another Forced Switch (e.g., Forced Switch of preferred path to alternate path) is in effect. If the AID identifies an alternate path that has already been switched to preferred by an automatic or manual switch, no switch occurs. However, the priority of the existing switch will be raised to “forced”.
	MAN	Manual Switch. If the AID refers to preferred (i.e., protected) path, the Manual Switch of preferred path (to alternate path) will be executed unless a request of equal or higher priority (e.g., Forced Switch or Automatic Selector Criteria (e.g., AIS)) is in effect. If the AID refers to the alternate (i.e., protecting) path, the Manual Switch of the alternate path (to preferred path) will be executed unless a request of equal or higher priority (e.g., Forced Switch or Automatic Selector Criteria (e.g., AIS)) is in effect.
DIRN	{RCV}	
	Default:	{ RCV }
	Addressing:	None
	Description:	Direction. This parameter determines the direction of transmission in which the switching is to be made. Values are:
	RCV	Receive direction only.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non–Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid
IIAC	Input, Invalid ACcess identifier
SARB	Status, All Resources Busy /* A switch is in progress for this protection group.*/ /* Please try the command again later.*/
SDBE	Status, internal Data Base Error /* Failed to get RPP database for type %d record %d */ /* Failed to get supporting entity records */ /* Failure in FFPidToGlobFFPid, rpp %d, status %d */ /* TPidToTbss() Error: % */
SNVS	Status, Not in Valid State /* The AID entered in not part of 2WAYPR or 2WAYDC*/ /* The ring path pair is not dropped */
SROF	Status, Requested Operation Failed /* No response received from L3P. */ /* SPB failure response, status=%d */ /* SPB timeout occurred. */
SSRD	Status, Switch Request Denied /* Signal Failure detected. */ /* Signal Degrade detected. */ /* A higher priority switch request is being serviced. */

EXAMPLES

In the following example, a manual switch of the preferred STS-1 path OC3STS1-15-1 to alternate path OC3STS1-16-1 is done. It is assumed that the OC3STS1-15-1 and OC3STS1-16-1 are good paths and no other manual switch/automatic switch is present on these paths.

```
OPR-PROTNSW-STs1 : : OC3STS1-15-1 : : MAN ;
```

RELATED COMMANDS

```
ED-CRS-STs1  
ENT-CRS-STs1  
RLS-PROTNSW-STs1
```


COMMAND CODE: **OPR-PROTNSW-VT1**
COMMAND NAME: **OPERATE PROTECTION SWITCH VT1**

PURPOSE

The OPR-PROTNSW-VT1 command instructs the system to initiate a SONET VT-1 path level protection switch. User switch requests initiated with this command (i.e., forced switch or manual switch) remain active until they are released using RLS-PROTNSW-VT1 command or overridden by a higher priority protection switch request. Switch requests are not queued; a switch request overridden by a higher priority request is not saved. This command is only applicable to ring configurations (refer to ENT-RNG-OC3 or ENT-RNG-OC12).

This command may not require a switch to occur. It may be used to upgrade the priority of the VT1.5 path already on alternate (protecting), for example, to upgrade the priority of a channel automatically switched to alternate (protecting) to a “forced switch”.

Executing an OPR-PROTNSW-VT1 command causes the path to which the traffic was switched to carry an SST of WRK and the path from which the traffic was switched (if the path has a PST of IS) to carry an SST of STBYH.

An OPR-PROTNSW-VT1 command is denied if:

- The specified VT1.5 and its alternate (i.e., protecting) VT1.5 ring path are not dropped (i.e., CCT is not equal to 2WAYPR/2WAYDC).
- The command is issued with SC=MAN, while an automatic switch, FS (Forced Switch), or MS (Manual Switch) exists on the VT1.5 path pair.
- The command is issued with SC=FRCD, and FS exists on the VT1.5 path pair.
- The command is issued with SC=MAN or FRCD, and the alternate facility to which the VT1.5 would switch or the O1B module in which the facility resides is logically removed (i.e., in the OOS-MA state) or faulty (OOS-AU).
- An invalid parameter value is entered.

INPUT FORMAT

```
OPR-PROTNSW-VT1:[TID]:AID:[CTAG]::SC:[DIRN];
```

INPUT PARAMETERS

TID	<p>< 1–20 VALID TID CHARACTERS ></p> <p>Default: <SID></p> <p>Addressing: None</p> <p>Description: Target Identifier, specifies the network node TID for the command.</p>
AID	<p>VT1_AID:</p> <p style="margin-left: 40px;">{OC3VT1–{1–2240}–{1–3}–{1–7}–{1–4}} (OC3VT1–OC3#–STS1#–VTGrp#–VT1.5#)</p> <p style="margin-left: 40px;">{OC12VT1–{1–560}–{1–4}–{1–3}–{1–7}–{1–4}} (OC12VT1–OC12#–STM1#–STS1#–VTGrp#–VT1.5#)</p> <p>Default: Entry Required</p> <p>Addressing: None</p> <p>Description: VT1 AID, identifies the VT1.5 path from which to switch.</p>
CTAG	<p>< 1–6 VALID CTAG CHARACTERS ></p> <p>Default: < System assigned CTAG value ></p> <p>Addressing: None</p> <p>Description: Correlation Tag, associates input command with its output responses.</p>

SC	{FRCD, MAN}	
	Default:	Entry Required
	Addressing:	None
	Description:	The Switch Command that is to be initiated on the specified VT1.5 path. Values are:
	FRCD	Forced Switch. If the AID refers to preferred (i.e., protected) path, the Forced Switch of preferred path (to alternate path) will be executed unless another Forced Switch (e.g., Forced Switch of alternate path to preferred path) is in effect. If the AID identifies a preferred path that has already been switched to alternate by an automatic or manual switch, no switch occurs. However, the priority of the existing switch will be raised to "forced". If the AID refers to the alternate (i.e., protecting) path, the Forced Switch of the alternate path (to preferred path) will be executed unless another Forced Switch (e.g., Forced Switch of preferred path to alternate path) is in effect. If the AID identifies an alternate path that has already been switched to preferred by an automatic or manual switch, no switch occurs. However, the priority of the existing switch will be raised to "forced".
	MAN	Manual Switch. If the AID refers to preferred (i.e., protected) path, the Manual Switch of preferred path (to alternate path) will be executed unless a request of equal or higher priority (e.g., Forced Switch or Automatic Selector Criteria (e.g., AIS)) is in effect. If the AID refers to the alternate (i.e., protecting) path, the Manual Switch of the alternate path (to preferred path) will be executed unless a request of equal or higher priority (e.g., Forced Switch or Automatic Selector Criteria (e.g., AIS)) is in effect.
DIRN	{RCV}	
	Default:	{ RCV }
	Addressing:	None
	Description:	Direction. This parameter determines the direction of transmission in which the switching is to be made. Values are:
	RCV	Receive direction only.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid
IIAC	Input, Invalid ACcess identifier
SARB	Status, All Resources Busy /* A switch is in progress for this protection group. */ /* Please try the command again later. */
SDBE	Status, internal Data Base Error /* Failed to get RPP database for type %d record %d */ /* Failed to get supporting entity records */ /* Failure in RPPidToGlobRPPid, rpp %d, status %d */ /* TPidToTbss() Error: %s */
SNVS	Status, Not in Valid State /* The AID entered in not part of 2WAYPR or 2WAYDC */ /* The ring path pair is not dropped */
SROF	Status, Requested Operation Failed /* No response received from L3P. */ /* SPB failure response, status=%d */ /* SPB timeout occurred. */
SSRD	Status, Switch Request Denied /* Signal Failure detected. */ /* Signal Degrade detected. */ /* A higher priority switch request is being serviced. */

EXAMPLES

In the following example, a manual switch of the preferred VT1.5 path OC3VT1-17-3-7-1 to alternate path OC3VT1-18-3-7-1 is done. It is assumed that the OC3VT1-17-3-7-1 and OC3VT1-18-3-7-1 are good paths and no other manual switch/automatic switch is present on these paths.

```
OPR-PROTNSW-VT1::OC3VT1-17-3-7-1:::MAN;
```

RELATED COMMANDS

```
ED-CRS-VT1  
ENT-CRS-VT1  
RLS-PROTNSW-VT1
```


COMMAND CODE: **OPR-SYNCNSW**
COMMAND NAME: **OPERATE SYNCHRONIZATION SWITCH**

PURPOSE

The OPR-SYNCNSW command causes the clock subsystem to select (switch to) the specified (Primary or Secondary) clock reference source for system clock synchronization.

When a clock synchronization switch is initiated (via an OPR-SYNCNSW), the system continues to select the specified clock reference source until the synchronization switch is released (via a RLS-SYNCNSW) or the synchronization switch is automatically overridden because of a clock reference source failure.

An OPR-SYNCNSW command is denied if:

- The specified clock reference source has failed.
- The specified clock reference is switched to a clock reference having a lower synchronization status message.
- The MCB subsystem is provisioned for the internal timing reference mode of operation (refer to the MCB TMG parameter in the ED-EQPT command).
- An OPR-SYNCNSW command is currently active (OPR-SYNCNSW entered but not released via a RLS-SYNCNSW command).
- The MCB subsystem is currently in the Free Running, Holdover, or Fast Tracking mode of operation (due to a SET-SYNCN command).
- An invalid parameter value is entered.

INPUT FORMAT

OPR-SYNCNSW: [TID] : : [CTAG] : : SWITCHTO;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >
Default:	<SID>
Addressing:	None
Description:	Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS >
Default:	< System assigned CTAG value >
Addressing:	None
Description:	Correlation Tag, associates input command with its output responses.
SWITCHTO	{PRI, SEC}
Default:	Entry Required
Addressing:	None
Description:	Switch To Reference, specifies the clock reference source that is to be selected as the system clock synchronization source. Values are:
PRI	Primary, the primary clock reference source is selected as the system clock synchronization source.
SEC	Secondary, the secondary clock reference source is selected as the system clock synchronization source.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
["<Parsable Output Data>"]
[/* <Free Form Informational Text> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```

    <SID> <YY-MM-DD> <HH:MM:SS>
M  <CTAG> DENY
    <ERROR CODE>
    [/* <Informational Error Description Text> */]
    [/* <Expanded Error Code Description> */]
    [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

ENSI	<p>Equipage, Not equipped for Setting specified Information</p> <p>/*The OPR-SYNCNSW was rejected */</p>
IDNC	<p>Input, Data Not Consistent</p> <p>/*Unable to read aux buffer for <AID> */</p>
IDNV	<p>Input, Data Not Valid</p> <p>/*The OPR-SYNCNSW was rejected */</p> <p>/*Can't switch because PRI's clock level is lower than current ref's level */</p> <p>/*Can't switch because SEC's clock level is lower than current ref's level */</p>
IIAC	<p>Input, Invalid ACcess identifier</p> <p>/*The command was rejected */</p> <p>/*Invalid or unassigned equipment identifier specified */</p> <p>/*The OPR-SYNCNSW was rejected */</p> <p>/*The OPR-SYNCNSW for <AID> was rejected */</p> <p>/*Command not supported for this equipment */</p> <p>/*Unsupported card type for this command */</p> <p>/*An invalid module type specified in request */</p> <p>/*Invalid I/O <AID> specified */</p> <p>/*Invalid I/O quad specified */</p> <p>/*Invalid replacement I/O shelf specified */</p> <p>/*Invalid QUAD number <QUAD> specified */</p> <p>/*EOBs cannot be provisioned on a Subrack */</p> <p>/*Invalid rack type for <AID> */</p>
IPNV	<p>Input, Parameter Not Valid</p> <p>/*The OPR-SYNCNSW was rejected */</p>
SAOP	<p>Status Already OPerated</p> <p>/*Current mode: <REFERENCE_MODE> */</p> <p>/*The OPR-SYNCNSW was aborted */</p>
SARB	<p>Status, All Resources Busy</p> <p>/* Command already in progress on equipment. */</p> <p>/* Automatic system configuration active on equipment. */</p> <p>/* Automatic configuration (database download) of parent processor in progress. */</p> <p>/* Level 2 processor software download in progress. Try again later. */</p> <p>/* INIT-SYS command still active on shelf that equipment is on. */</p>

SDBE	<p>Status, internal Data Base Error</p> <p>/*Unable to access TMG database*/</p> <p>/*Unable to read system configuration file */</p> <p>/*Error reading reference table for <AID> */</p> <p>/*Error updating reference table for <AID> */</p> <p>/*Error reading shelf database record for <AID> */</p> <p>/*Error initializing shelf database record for <AID> */</p> <p>/*Error updating shelf database record for <AID> */</p> <p>/*Error reading system configuration database for <AID> */</p> <p>/*Error obtaining auxiliary buffer for <AID> */</p> <p>/*Error determining equipment for <AID> */</p> <p>/*Error initializing database for <AID> */</p> <p>/*Error updating system size in database */</p> <p>/*<AID> database read error */</p> <p>/*Error updating database for <AID> */</p> <p>/*Error reading database for card <<AID>> */</p> <p>/*<AID> database update error */</p> <p>/*Error reading database for card <AID> */</p> <p>/*Error accessing auxiliary buffer for card <AID> */</p> <p>/*Error updating database for card <AID> */</p> <p>/*Invalid or unassigned equipment identifier specified */</p> <p>/*Data base access failure */</p> <p>/*Error accessing auxiliary EM data area */</p> <p>/*<AID> database update error/*</p> <p>/*MCB data base access failure */</p> <p>/*The OPR–SYNCNSW was rejected */</p> <p>/*The OPR_SYNCNSW was aborted */</p> <p>/*Error reading shelf database for <AID> *</p>
SNVS	<p>Status, Not in Valid State</p> <p>/*The OPR–SYNCNSW was aborted */</p> <p>/*OPR–SYNCNSW:::PRI should be followed by RLS–SYNCNSW */</p> <p>/*OPR–SYNCNSW:::SEC should be followed by RLS–SYNCNSW */</p>
SSRD	<p>Status, Switch Request Denied</p> <p>/* Primary reference has failed. */</p> <p>/* Secondary reference has failed. */</p> <p>/* Primary reference does not exist. */</p> <p>/* Secondary reference does not exist. */</p> <p>/* Both references have failed. */</p> <p>/* OPR–SYNCNSW:::PRI is not Active. */</p> <p>/* OPR–SYNCNSW:::SEC is not Active. */</p> <p>/* OPR–SYNCNSW:::PRI SEC is not Active. */</p> <p>/* OPR–SYNCNSW:::PRI should be followed by RLS–SYNCNSW. */</p> <p>/* OPR–SYNCNSW:::SEC should be followed by RLS–SYNCNSW. */</p> <p>/* The OPR–SYNCNSW for <AID> was rejected. */</p> <p>/* SET–SYNCRN::%s::%s should be followed by SET–SYNCRN::%s::NORM */</p> <p>/* Current mode: <REFERENCE_MODE> */</p> <p>/* Current mode: <CLKMODE> */</p> <p>/* Unrecognized clock mode: <CLOCK_MODE> */</p> <p>/* The command was rejected. */</p> <p>/* Unable to allocate USI response buffer. */</p>
SWFA	<p>Status, Working unit Failed</p> <p>/* <AID> has failed. */</p>

EXAMPLES

In the following example, the MCB clock subsystem is switched to the secondary clock reference source for system clock synchronization.

```
OPR-SYNCNSW:::::SEC;
```

RELATED COMMANDS

```
ED-EQPT  
RLS-SYNCNSW  
RTRV-EQPT  
SET-SYCN
```

COMMAND CODE: **REPT-INITZN**
COMMAND NAME: **REPORT INITIALIZATION**

PURPOSE

The REPT-INITZN command disconnects all existing Test Access Port Pair (TAPP) connections established by the user that are link associated (refer to the CONN-TACC-Tx commands); TAPP connections that are not link associated are not disconnected. After REPT-INITZN is executed, the disconnected TAPPs are available for other test access operations.

The REPT-INITZN command only operates on TAPP connections.

An OK acknowledgement response is generated upon completion of the REPT-INITZN command. REPT-INITZN does not generate a successful output response.

Executing a REPT-INITZN command removes the SST value of TS from the affected TAPPs and any equipment-side and facility-side DS1, DS3, STS1 or VT1 ports involved in the associated test access operations. If an associated cross-connection exists, the cross-connection SST of TS is removed from the cross-connection entity.

A REPT-INITZN command is denied if:

- The user does not have any test access connections established.
- An invalid parameter value is entered.

INPUT FORMAT

REPT-INITZN: [TID] :: [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >
Default:	<SID>
Addressing:	None
Description:	Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS >
Default:	< System assigned CTAG value >
Addressing:	None
Description:	Correlation Tag, associates input command with its output responses.

ACKNOWLEDGEMENT RESPONSE FORMAT

```
OK <P8d009>
/* REPT-INITZN [P8d009] (1) */
<
```

SUCCESSFUL RESPONSE FORMAT

None

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

SRQN Status, invalid ReQuest

EXAMPLES

No examples are provided. (See Acknowledgement Response format above)

RELATED COMMANDS

CHG-ACCMD-STS1
CHG-ACCMD-T1
CHG-ACCMD-T3
CHG-ACCMD-VT1
CHG-TL-DIG
CONN-TACC-STS1
CONN-TACC-T1
CONN-TACC-T3
CONN-TACC-VT1
DISC-TACC
DISC-TACC-PRVG
REPT-INITZN
REPT-STAT
RST-TAP-DIG
RTRV-TACC

COMMAND CODE: **REPT-STAT**
COMMAND NAME: **REPORT STATUS**

PURPOSE

The REPT-STAT command resets the communication link timer associated with the communication port (refer to the LNKTM parameter in ENT-USER and ED-PRVG-USER) and generates an OK acknowledgement response. REPT-STAT can be used to provide a “keep-alive handshake” to ensure the communication link between a user and the system is operational.

An OK acknowledgement response is generated upon completion of the REPT-STAT command. REPT-STAT does not generate a successful output response.

A REPT-STAT command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

REPT-STAT: [TID] : : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >
Default:	<SID>
Addressing:	None
Description:	Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS >
Default:	< System assigned CTAG value >
Addressing:	None
Description:	Correlation Tag, associates input command with its output responses.

ACKNOWLEDGEMENT RESPONSE FORMAT

OK <CTAG>
<

SUCCESSFUL RESPONSE FORMAT

None

UNSUCCESSFUL RESPONSE FORMAT

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

To Be Determined.

EXAMPLES

No examples are provided.

3AL45392AJ

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RELATED COMMANDS

ED-PRVG-USER

ENT-USER

CONN-TACC-T1

CONN-TACC-T3

RELATED AUTONOMOUS RESPONSES

REPT^INITZN

COMMAND CODE: **RESTORE-DB**
COMMAND NAME: **RESTORE DATABASE**

PURPOSE

The RESTORE-DB command restores the existing system database with that stored on the optical disk media that is inserted in the specified optical disk drive. The existing system database is overwritten by the successful execution of this command.

The RESTORE-DB command can be executed while in the Limited Command Execution mode (i.e., after execution of a STOP-OPS command) or the Normal Command Execution mode. If the RESTORE-DB command is executed while in the Normal Command Execution mode (as opposed to the Limited Command Execution mode), full TL1 functionality (commands to perform provisioning, cross-connection, manual protection switching, etc.) is allowed, and the existing system database is overwritten only after the execution of the START-OPS command.

After completion of the database restoral operation by either the Limited Command Execution mode or the Normal Command Execution mode and the restored database is the desired active database, the START-OPS command is issued in order to install the restored database and reset the system.

After completion of the database restoral operation by only the Normal Command Execution mode and the restored database is not the desired active database, the INIT-SYS command is issued to invalidate the restored database and restart the system on the old database. (Note: Since the system remains on the previous database, the INIT-SYS command is not absolutely necessary; however, to prevent START-OPS from installing the restored database at a later time, the INIT-SYS command is used).

The database restoral operation verifies the System Type, Release Stream, software Release Number, and Site ID (SID) of the system against that stored on the optical disk media. A database restoral with a System Type and Release Stream mismatch cannot be performed. A database restoral with a software Release Number or SID mismatch cannot be performed unless CMDMDE of FRCD is specified.

The database restoral operation also verifies the 32-bit CRC (Cyclic Redundancy Code) calculated from the data stored on the optical disk media against the CRC stored on the media. A database restoral with a CRC mismatch cannot be performed.

If the user executing the RESTORE-DB command is provisioned with RUSURE of YES (refer to ENT-USER or ED-PRVG-USER), an R-U-Sure prompt text message is transmitted to the user before the database restoral operation is performed. The R-U-Sure prompt provides the user with an intermediate step to manually accept the software Release Number and SID stored on the backup media or to stop the database restoral operation, if desired, before the system database is overwritten. Refer to the R-U-SURE RESPONSE FORMAT section, below, for the possible prompt messages.

The RUSURE step is not available currently in normal mode.

If the user does not enter "YES" within 120 seconds after the R-U-Sure prompt, the RESTORE-DB command is cancelled (a CANCLD response message is transmitted to the user).

The RESTORE-DB command is denied if:

- The read operation from the optical disk drive cannot be performed (e.g., the media is not inserted in the drive, the drive door is not closed, the drive is currently in use, the media cannot be read, etc.).
- A database restoral operation is currently in-progress.
- The type of system (1631 SX) does not match the System Type stored on the media.
- The system's SID and Software Release number do not match the SID and Software Release number, respectively, stored on the media, unless CMDMDE of FRCD is specified.
- The 32-bit CRC calculated from the data stored on the media does not match the CRC stored on the media.
- The database restoral media has not been loaded into the required drive.
- The Normal Command mode is executed and the larger hard disk is not installed.
- The DSK AID specified is not in an in-service state.
- An invalid parameter value is entered.

INPUT FORMAT

RESTORE-DB: [TID] :AID: [CTAG] :: [CMDMDE] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	EQUIPMENT_AID: {DSK-1-3-1, DSK-1-4-2} {OPD-1-3-1, OPD-1-4-2} Default: Entry Required Addressing: None Description: Equipment AID, specifies the equipment entity that contains the backup database to be loaded onto the system. Refer to Appendix B, Access Identifiers (AIDs) for a definition of equipment mnemonics. For both DSK and OPD devices, 1-3-1 indicates Copy 0, and 1-4-2 indicates Copy1.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
CMDMDE	{FRCD, NORM} Default: {NORM} Addressing: None Description: Command Execution Mode. Values are: FRCD Forced, the database restoral operation is performed regardless of whether there is a match between the SID or software release number of the system and that stored on the optical disk media. NORM Normal, the command is denied if there is a mismatch between the SID or software release number of the system and that stored on the optical disk media.

ACKNOWLEDGEMENT RESPONSE FORMAT

If CMDMDE of FRCD is specified and a Software Version (Release Number) mismatch is detected, the following IP message is generated.

```

    <SID> <YY-MM-DD> <HH:MM:SS>
IP  <CTAG>
/* Warning: Software Version Mismatch */
/* <SYSTYPE>,<STREAM>,<RLSTYPE><RLSNUM>.<IREV>.<MREV>,<DBSID> */
/* Creation Date: <DBDATE> <DBTIME> */
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
<

```

If CMDMDE of FRCD is specified and a SID mismatch is detected, the following IP message is generated.

```

    <SID> <YY-MM-DD> <HH:MM:SS>
IP  <CTAG>
/* Warning: SID Mismatch */
/* <SYSTYPE>,<STREAM>,<RLSTYPE><RLSNUM>.<IREV>.<MREV>,<DBSID> */
/* Creation Date: <DBDATE> <DBTIME> */
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
<

```

If CMDMDE of FRCD is specified and a SID mismatch and Software Version (Release Number) mismatch is detected, the following IP message is generated.

```

    <SID> <YY-MM-DD> <HH:MM:SS>
IP  <CTAG>
    /* Warning: SID and Software Version Mismatch */
    /* <SYSTYPE>,<STREAM>,<RLSTYPE><RLSNUM>.<IREV>.<MREV>,<DBSID> */
    /* Creation Date: <DBDATE> <DBTIME> */
    [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
<

```

If the SID and Software Version (Release Number) match, the following IP message is generated.

```

    <SID> <YY-MM-DD> <HH:MM:SS>
IP  <CTAG>
    /* Media Header Matched */
    /* <SYSTYPE>,<STREAM>,<RLSTYPE><RLSNUM>.<IREV>.<MREV>,<DBSID> */
    /* Creation Date: <DBDATE> <DBTIME> */
    [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
<

```

R-U-SURE RESPONSE FORMAT

If a Software Version (Release Number) mismatch is detected and the user executing the RESTORE-DB command is provisioned with RUSURE of YES (refer to ENT-USER or ED-PRVG-USER), the following R-U-Sure text message is transmitted to the user.

```

Software Version Mismatch: Continue Restore? [YES/NO]
Confirm <CTAG>:

```

If a SID mismatch is detected and the user executing the RESTORE-DB command is provisioned with RUSURE of YES (refer to ENT-USER or ED-PRVG-USER), the following R-U-Sure text message is transmitted to the user.

```

SID Mismatch: Continue Restore? [YES/NO]
Confirm <CTAG>:

```

If a SID mismatch and Software Version (Release Number) mismatch is detected and the user executing the RESTORE-DB command is provisioned with RUSURE of YES (refer to ENT-USER or ED-PRVG-USER), the following R-U-Sure text message is transmitted to the user.

```

SID and Software Version Mismatch: Continue Restore? [YES/NO]
Confirm <CTAG>:

```

If the SID and Software Version (Release Number) match and the user executing the RESTORE-DB command is provisioned with RUSURE of YES (refer to ENT-USER or ED-PRVG-USER), the following R-U-Sure text message is transmitted to the user.

```

Media Header Match: Continue Restore? [YES/NO]
Confirm <CTAG>:

```

SUCCESSFUL RESPONSE FORMAT

```

    <SID> <YY-MM-DD> <HH:MM:SS>
M  <CTAG> COMPLD
    /* DATABASE RESTORAL COMPLETE */
    [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

UNSUCCESSFUL RESPONSE FORMAT

The following unsuccessful response format is generated if an incorrect or invalid command is entered.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Optional Suggested Action Text> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

The following unsuccessful response message is generated if a System Type or Release Stream mismatch is detected.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <SYSTYPE>,<STREAM>,<RLSTYPE><RLSNUM>.<IREV>.<MREV>,<DBSID> */
  /* Creation Date: <DBDATE> <DBTIME> */
  /* Media Write Count: <WRCNT> */
  /* System Type mismatch */
  /* Restore cannot be forced. Please use proper media. */
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

The following unsuccessful response message is generated if a SID or Software Version (Release Number) mismatch is detected and CMDMDE of NORM is entered.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <SYSTYPE>,<STREAM>,<RLSTYPE><RLSNUM>.<IREV>.<MREV>,<DBSID> */
  /* Creation Date: <DBDATE> <DBTIME> */
  /* Media Write Count: <WRCNT> */
  /* SID or Software Version mismatch */
  /* Restore may be forced by using FRCD in CMDMDE field of RESTORE-DB */
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

The following unsuccessful response message is generated if a CRC mismatch or media read error is detected.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* CRC Mismatch or Read Error */
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

The following unsuccessful response is generated if the command is cancelled after an R-U-Sure prompt.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> CANCLD
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

SYSTYPE	{1631SX} System Type of the system software for the database on the optical disk or tape media.
STREAM	{LMC-APS} Release Stream of the system software for the database on the optical disk media. Value is: LMC-APS Large Matrix Configuration-Administration Processing System.
RLSTYPE	{F, P, R} Software Release Type of the system software for the database on the optical disk media. Refer to the Software Support Agreement for applicable terms and conditions. Values are: F First Office Application, the software load is intended for FOA evaluation and testing and is qualified to carry traffic under specified conditions or constraints. P Preliminary, the software load is only intended for evaluation and testing under controlled, non-traffic bearing conditions. R Released, the software load is fully qualified to carry traffic per applicable Alcatel specifications.
RLSNUM	{06} Software Release Number of the system software for the database on the optical disk media.
IREV	{00-99} Intermediate Release Revision of the system software for the database on the optical disk media. Refer to the Software Support Agreement.
MREV	{00-99} Maintenance Release Revision of the system software for the database on the optical disk media. Refer to the Software Support Agreement.
DBSID	<1-20 CHARACTER SID> Data Base Backup Site Identification, identifies the SID of the system from which the database on the optical disk media originated.
DBDATE	{YY-MM-DD:{00-37,70-99} - {1-12} - {1-31} } Database Backup Date, identifies the date the data was written to the optical disk media. The format of DBDATE is <YY> - <MM> - <DD> where <YY> is the year, <MM> is the month, <DD> is the day. Values for <YY> from 70 through 99 are interpreted as the year 1970 through the year 1999 and 00 through 37 are interpreted as the year 2000 through the year 2037.
DBTIME	{ {00-23}:{00-59}:{00-59} } Database Backup Time, identifies the time of the database backup stored on the optical disk media. The format of TIME is <HH>:<MM>:<SS> where <HH> is the hour, <MM> is the minute, and <SS> is the second.
WRCNT	{0-999} Disk/Tape Write Count, indicates the number of times data has been written to the optical disk media.

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IITA	Input, Invalid TArget identifier /* Invalid AID specified */
SROF	Status, Requested Operation Failed /* CRC Mismatch or Read Error */ /* Media does not contain a valid DB Backup label */ /* Couldn't build database command */ /* Invalid AID specified, operation terminated */ /* Communication error termination, DBBU/DSKMGR */ /* SIGTERM received, operation terminated */ /* Media permission denied, operation terminated */ /* Unknown termination code, operation terminated */ /* disk open error, operation terminated */ /* disk seek error, operation terminated */ /* super block read error, operation terminated */ /* Media drive open error, operation aborted */ /* free block seek error, operation terminated */ /* disk data seek error, operation terminated */ /* disk read error, operation terminated */ /* media read error, operation terminated */ /* media verification error, operation terminated */ /* free block read error, operation terminated */ /* Media write protected, operation aborted */ /* The CRC and the data on the media do not match */ /* 1631 SX <Version> <SID> */ /* Creation Date: <DATE> <TIME> */ /* Media Write Count: <WRITECOUNT> */ /* SID or Software Version mismatch */ /* Restore may be forced by using FRCD in CMDMDE field of RESTORE-DB */ /* System Type mismatch */ /* Restore cannot be forced. Please use proper media */ /* CRC Mismatch or Read Error */

EXAMPLES

In the following example, the system database is restored to that stored on the disk media in OPD-1-3-1.

```
RESTORE-DB::OPD-1-3-1;
```

The output responses, shown below, assume CID 3 was used to enter the command and a system generated CTAG value of P26023. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

The example assumes the command is issued by a user provisioned with the RUSURE parameter (in ENT-USER) enabled. The Site ID field in the IP message below would contain the SID stored on the media, which in this example would also match the system's SID.

```
<SID> <YY-MM-DD> <HH:MM:SS>
IP P26023
/* Media Header Matched */
/* 1631SX,LMC-APS,R06.00.00,ANSDSL672 */
/* Creation Date: 95-09-03 14:05:01 */
/* RESTORE-DB::OPD-1-3-1 [P26023] (3) */
;
Media Header Match: Continue Restore? [YES/NO]
Confirm [P26023]:YES;
<SID> <YY-MM-DD> <HH:MM:SS>
M P26023 COMPLD
/* DATABASE RESTORAL COMPLETE */
/* RESTORE-DB::OPD-1-3-1 [P26023] (3) */
;
```

RELATED COMMANDS

```
ACT-DB-BACKUP
CANC-DB-BACKUP
RTRV-DB-LABEL
START-OPS
STOP-OPS
```


COMMAND CODE: **RLS-ISGLP-STs1**
COMMAND NAME: **RELEASE IN-SERVICE GROWTH
LOOPBACK STs-1**

PURPOSE

The RLS-ISGLP-STs1 command releases the matrix loopback of the embedded VT1.5s in the specified STs-1 previously established by an OPR-ISGLP-STs1 command. Generation of the VT1.5 idle signals being looped back is discontinued.

For a RLS-ISGLP-STs1 command to execute, the specified STs-1 must be in an OOS-AUMA,UAS&MT&LPBK state. Refer to Appendix G, State Transitions for additional information on state values and state transitions.

Executing a RLS-ISGLP-STs1 removes the STs-1 SST of LPBK from the specified STs-1 and removes the VT1.5 SST of LPBK from each of the embedded VT1.5s in the STs-1.

A RLS-ISGLP-STs1 command is denied if:

- The specified STs-1 port is not in an OOS-AUMA,UAS&MT&LPBK state.
- The specified STs-1 is embedded within a protection OC-3 or OC-12.
- An invalid parameter value is entered.

INPUT FORMAT

RLS-ISGLP-STs1: [TID]:AID:[CTAG];

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	STS1_AID: {EC1STS1-{1-3840}} (EC1STS1-EC1/STS1#) {OC3STS1-{1-2240}-{1-3}} (OC3STS1-OC3#-STS1#) {OC12STS1-{1-560}-{1-4}-{1-3}} (OC12STS1-OC12#-STM1#-STS1#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: STS1 AID, identifies the STs-1 port whose embedded VT1.5s are being looped back.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
SDBE	Status, internal Data Base Error /* Error getting shelf information for record <RECORD NUMBER> for status <STATUS> */ /* Failed(status <STATUS>) to convert STS TP <RECORD_NUMBER> to T3 TP */ /* Failed(status <STATUS>) to convert T3 TP <RECORD_NUMBER> to EC1 TP */ /* Failed(status <STATUS>) to send PROV message for TP <RECORD NUMBER> */ /* Failed(status <STATUS>) to get supported entity of TP <RECORD NUMBER> */ /* <DATABASE TYPE> Database Error: <STATUS> for <AID STRING> */ /* <DATABASE TYPE> Database Error: <STATUS> for record number <RECORD NUM- BER> */ /* <DATABASE TYPE> Database Error: <STATUS> */
SNVS	Status, Not in Valid State
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, the matrix loop back of the embedded VT1.5s within STS-1 EC1STS1-102 is released.

```
RLS-ISGLP-STs1: :EC1STS1-102;
```

RELATED COMMANDS

```
FLTLOC-PATH-VT1  
OPR-ISGLP-T1  
OPR-ISGLP-T3  
OPR-ISGLP-VT1  
RLS-ISGLP-STs1  
RLS-ISGLP-VT1  
RLS-ISGLP-T1  
RLS-ISGLP-T3  
RTRV-ISGLP-ALL
```

COMMAND CODE: **RLS-ISGLP-T1**
COMMAND NAME: **RELEASE IN-SERVICE GROWTH
LOOPBACK T1**

PURPOSE

The RLS-ISGLP-T1 command releases the matrix loopback of the specified DS1 previously established by an OPR-ISGLP-T1 command. Generation of the ESF QRS signal being looped back is discontinued.

For a RLS-ISGLP-T1 command to execute, the specified DS1 must be in an OOS-AUMA,UAS&MT&LPBK state. Refer to Appendix G, State Transitions for additional information on state values and state transitions.

Executing a RLS-ISGLP-T1 removes the DS1 SST of LPBK from the specified DS1, and causes a DS3 SST change from UAS&DSBLD&MT to UAS&MT on the supporting DS3 when the DS1 SST of LPBK is removed from all of the DS1s supported by the DS3.

A RLS-ISGLP-T1 command is denied if:

- The specified DS1 port is not in an OOS-AUMA,UAS&MT&LPBK state.
- An invalid parameter value is entered.

INPUT FORMAT

RLS-ISGLP-T1: [TID] :AID: [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	DS1_AID: {T3T1-{1-4800}-{1-28}} (T3T1-DS3#-DS1#) {T1-{1-59392}} (T1-DS1#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: DS1 AID, identifies the DS1 port being looped back.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
SDBE	Status, internal Data Base Error
	/* Failed to get supporting entity records */
	/* Error getting shelf information for record <RECORD NUMBER> for status <STATUS>
	*/
	/* Failed to Update Sptg Tps: Status=<STATUS> */
	/* Failed to get supporting entity records */
	/* Failed(status <STATUS>) to convert STS TP <RECORD_NUMBER> to T3 TP */
	/* Failed(status <STATUS>) to convert T3 TP <RECORD_NUMBER> to EC1 TP */
	/* Failed(status <STATUS>) to send PROV message for TP <RECORD NUMBER> */
	/* Failed(status <STATUS>) to get supported entity of TP <RECORD NUMBER> */
	/* <DATABASE TYPE> Database Error: <STATUS> for <AID STRING> */
	/* <DATABASE TYPE> Database Error: <STATUS> for record number <RECORD NUM-
	BER> */
	/* <DATABASE TYPE> Database Error: <STATUS> */
SNVS	Status, Not in Valid State
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, the matrix loop back of DS1 port T3T1-1494-22 is released.

```
RLS-ISGLP-T1::T3T1-1494-22;
```

RELATED COMMANDS

```
FLTLOC-PATH-T1
OPR-ISGLP-STs1
OPR-ISGLP-T1
OPR-ISGLP-T3
OPR-ISGLP-VT1
RLS-ISGLP-STs1
RLS-ISGLP-T3
RLS-ISGLP-VT1
RTRV-ISGLP-ALL
```

COMMAND CODE: **RLS-ISGLP-T3**
COMMAND NAME: **RELEASE IN-SERVICE GROWTH
LOOPBACK T3**

PURPOSE

The RLS-ISGLP-T3 command releases the matrix loopback of the embedded DS1s in the specified DS3 previously established by an OPR-ISGLP-T3 command. Generation of the ESF QRS signals being looped back is discontinued.

For a RLS-ISGLP-T3 command to execute, the specified DS3 must be in an OOS-AUMA,UAS&MT&LPBK state. Refer to Appendix G, State Transitions for additional information on state values and state transitions.

Executing a RLS-ISGLP-T3 removes the DS3 SST of LPBK from the specified DS3 and removes the DS1 SST of LPBK from each of the embedded DS1s in the DS3.

A RLS-ISGLP-T3 command is denied if:

- The specified DS3 port is not in an OOS-AUMA,UAS&MT&LPBK state.
- An invalid parameter value is entered.

INPUT FORMAT

RLS-ISGLP-T3 : [TID] : AID : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	DS3_AID: {T3-{1-4800}} (T3-DS3#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: DS3 AID, identifies the DS3 port whose embedded DS1s are being looped back.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
SDBE	Status, internal Data Base Error /* Error getting shelf information for record <RECORD NUMBER> for status <STATUS> */ /* Failed(status <STATUS>) to convert STS TP <RECORD_NUMBER> to T3 TP */ /* Failed(status <STATUS>) to convert T3 TP <RECORD_NUMBER> to EC1 TP */ /* Failed(status <STATUS>) to send PROV message for TP <RECORD NUMBER> */ /* Failed(status <STATUS>) to get supported entity of TP <RECORD NUMBER> */ /* <DATABASE TYPE> Database Error: <STATUS> for <AID STRING> */ /* <DATABASE TYPE> Database Error: <STATUS> for record number <RECORD NUM- BER> */ /* <DATABASE TYPE> Database Error: <STATUS> */
SNVS	Status, Not in Valid State
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, the matrix loop back of the embedded DS1s within DS3 T3-1062 is released.

```
RLS-ISGLP-T3::T3-1062;
```

RELATED COMMANDS

```
FLTLOC-PATH-T1  
OPR-ISGLP-STs1  
OPR-ISGLP-T1  
OPR-ISGLP-T3  
OPR-ISGLP-VT1  
RLS-ISGLP-STs1  
RLS-ISGLP-T1  
RLS-ISGLP-VT1  
RTRV-ISGLP-ALL
```


COMMAND CODE: **RLS-ISGLP-VT1**
COMMAND NAME: **RELEASE IN-SERVICE GROWTH
LOOPBACK VT1**

PURPOSE

The RLS-ISGLP-VT1 command releases the matrix loopback of the specified VT1.5 previously established by an OPR-ISGLP-VT1 command. Generation of the VT1.5 idle signal being looped back is discontinued.

For a RLS-ISGLP-VT1 command to execute, the specified VT1.5 must be in an OOS-AUMA,UAS&MT&LPBK state. Refer to Appendix G, State Transitions for additional information on state values and state transitions.

Executing a RLS-ISGLP-VT1 removes the VT1.5 SST of LPBK from the specified VT1.5, and causes an STS-1 SST change from UAS&DSBLD&MT to UAS&MT on the supporting STS-1 when the VT1.5 SST of LPBK is removed from all of the VT1.5s supported by the STS-1.

A RLS-ISGLP-VT1 command is denied if:

- The specified VT1.5 port is not in an OOS-AUMA,UAS&MT&LPBK state.
- The specified VT1.5 is embedded within a protection OC-3/OC-12.
- An invalid parameter value is entered.

INPUT FORMAT

RLS-ISGLP-VT1: [TID] :AID: [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	VT1_AID: {EC1VT1-{1-3840}-{1-7}-{1-4}} (EC1VT1-EC1/STS1#-VTGrp#-VT1.5#) {OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}} (OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#) {OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}} (OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: VT1 AID, identifies the VT1.5 port being looped back.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
SDBE	Status, internal Data Base Error
	/* Error getting shelf information for record <RECORD NUMBER> for status <STATUS> */
	/* Failed to Update Sptg Tps: Status=<STATUS> */
	/* Failed to get supporting entity records */
	/* Failed(status <STATUS>) to convert STS TP <RECORD_NUMBER> to T3 TP */
	/* Failed(status <STATUS>) to convert T3 TP <RECORD_NUMBER> to EC1 TP */
	/* Failed(status <STATUS>) to send PROV message for TP <RECORD NUMBER> */
	/* Failed(status <STATUS>) to get supported entity of TP <RECORD NUMBER> */
	/* <DATABASE TYPE> Database Error: <STATUS> for <AID STRING> */
	/* <DATABASE TYPE> Database Error: <STATUS> for record number <RECORD NUMBER> */
	/* <DATABASE TYPE> Database Error: <STATUS> */
SNVS	Status, Not in Valid State
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, the matrix loop back of VT1.5 port OC3VT1-166-1-5-2 is released.

```
RLS-ISGLP-VT1::OC3VT1-166-1-5-2;
```

RELATED COMMANDS

```
FLTLOC-PATH-VT1
OPR-ISGLP-STs1
OPR-ISGLP-T1
OPR-ISGLP-T3
OPR-ISGLP-VT1
RLS-ISGLP-STs1
RLS-ISGLP-T1
RLS-ISGLP-T3
RTRV-ISGLP-ALL
```

COMMAND CODE: **RLS-LPBK-EC1**
COMMAND NAME: **RELEASE LOOPBACK EC1**

PURPOSE

The RLS-LPBK-EC1 command releases a facility loopback (at the receive-side of the port), previously established by an OPR-LPBK-EC1 command, on the specified EC1 port.

To execute an RLS-LPBK-EC1, the specified EC1 must have a PST,SST of OOS-AUMA,LPBK or OOS-MA,LPBK. Refer to Appendix G, State Transitions for additional information on state values and state transitions.

Executing RLS-LPBK-EC1 clears the ACTLPBK condition type on the specified EC1 port.

A RLS-LPBK-EC1 command is denied if:

- The specified EC1 is not in a loopback (an EC1 PST,SST of OOS–AUMA,LPBK or OOS–MA,LPBK).
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

```
RLS-LPBK-EC1:[TID]:AID:[CTAG]::[LOCN],,,[LPBKTYPE];
```

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	EC1_AID: {EC1-{1-3840} } (EC1-EC1/STS1#) Default: Entry Required Addressing: None Description: EC1 AID, identifies the EC1 port.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
LOCN	{NEND} Default: {NEND} Addressing: None Description: Location, specifies the location (near-end) where the loopback is to be released. Values are: NEND Near-End, specifies that the loopback in the system is to be released.
LPBKTYPE	{FACILITY} Default: <Any Existing Loopback Type> Addressing: None Description: Loopback Type, specifies the type of loopback to be released. Value is: FACILITY Facility, specifies an EC1 loopback at the receive-side (from the network) of the specified EC1 port.

SUCCESSFUL RESPONSE FORMAT

```

M  <SID> <YY-MM-DD> <HH:MM:SS>
    <CTAG> COMPLD
    [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent
IDNV	Input, Data Not Valid
IIAC	Input, Invalid ACcess identifier
SARL	Status, Already ReLeased
SDBE	Status, internal Data Base Error
	/* <DATABASE TYPE> Database Error: <STATUS> for <AID STRING> */
	/* <DATABASE TYPE> Database Error: <STATUS> for record number <RECORD NUMBER> */
SNVS	Status, Not in Valid State
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, the RLS-LPBK-EC1 releases the EC1 facility loopback on EC1 port EC1-337.

```
RLS-LPBK-EC1 : EC1-337 ;
```

RELATED COMMANDS

```
OPR-LPBK-EC1
RTRV-COND-EC1
RTRV-LPBK-EC1
RTRV-EC1
```

COMMAND CODE: **RLS-LPBK-OC12**
COMMAND NAME: **RELEASE LOOP BACK OC12**

PURPOSE

The RLS-LPBK-OC12 command releases a facility loopback (at the receive-side of the port), previously established by an OPR-LPBK-OC12 command, on the specified OC12 port.

To execute a RLS-LPBK-OC12, the specified OC12 must have a PST,SST of OOS-AUMA,LPBK or OOS-MA,LPBK. Refer to Appendix G, State Transitions for additional information on state values and state transitions.

Executing RLS-LPBK-OC12 clears the ACTLPBK condition type on the specified OC12 port, and causes the fault propagation feature to be again enabled if it was disabled when the corresponding OPR-LPBK-OC12 was issued.

A RLS-LPBK-OC12 command is denied if:

- The specified OC12 is not in a loopback (an OC12 PST,SST of OOS-AUMA,LPBK or OOS-MA,LPBK).
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RLS-LPBK-OC12 : [TID] : AID : [CTAG] : : [LOCN] , , , [LPBKTYPE] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	OC12_AID: {OC12-{1-560}} (OC12-OC12#) Default: Entry Required Addressing: None Description: OC12 AID, identifies the OC12 port.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
LOCN	{NEND} Default: {NEND} Addressing: None Description: Location, specifies the location (near-end) where the loopback is to be released. Values are: NEND Near-End, specifies that the loopback in the system is to be released.
LPBKTYPE	{FACILITY} Default: <Any Existing Loopback Type> Addressing: None Description: Loopback Type, specifies the type of loopback to be released. Value is: FACILITY Facility, specifies an OC12 loopback at the receive-side (from the network) of the specified OC12 port.

SUCCESSFUL RESPONSE FORMAT

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent
IDNV	Input, Data Not Valid
IIAC	Input, Invalid ACcess identifier
SARL	Status, Already ReLeased
SDBE	Status, internal Data Base Error
	/* <DATABASE TYPE> Database Error: <STATUS> for <AID STRING> */
	/* <DATABASE TYPE> Database Error: <STATUS> for record number <RECORD NUMBER> */
SNVS	Status, Not in Valid State
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, the RLS-LPBK-OC12 releases the OC12 facility loopback on OC12 port OC12-113.

```
RLS-LPBK-OC12:OC12-113;
```

RELATED COMMANDS

```
OPR-LPBK-OC12
RTRV-COND-OC12
RTRV-LPBK-OC12
RTRV-OC12
```

COMMAND CODE: **RLS-LPBK-OC3**
COMMAND NAME: **RELEASE LOOPBACK OC3**

PURPOSE

The RLS-LPBK-OC3 command releases a facility loopback (at the receive-side of the port), previously established by an OPR-LPBK-OC3 command, on the specified OC3 port.

To execute an RLS-LPBK-OC3, the specified OC3 must have a PST,SST of OOS-AUMA,LPBK or OOS-MA,LPBK. Refer to Appendix G, State Transitions for additional information on state values and state transitions.

Executing RLS-LPBK-OC3 clears the ACTLPBK condition type on the specified OC3 port, and causes the fault propagation feature to be again enabled if it was disabled when the corresponding OPR-LPBK-OC3 was issued.

A RLS-LPBK-OC3 command is denied if:

- The specified OC3 is not in a loopback (an OC3 PST,SST of OOS-AUMA,LPBK or OOS-MA,LPBK).
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RLS-LPBK-OC3 : [TID] : AID : [CTAG] : : [LOCN] , , , [LPBKTYPE] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	OC3_AID: {OC3-{1-2240}} (OC3-OC3#) Default: Entry Required Addressing: None Description: OC3 AID, identifies the OC3 port.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
LOCN	{NEND} Default: {NEND} Addressing: None Description: Location, specifies the location (near-end) where the loopback is to be released. Values are: NEND Near-End, specifies that the loopback in the system is to be released.
LPBKTYPE	{FACILITY} Default: <Any Existing Loopback Type> Addressing: None Description: Loopback Type, specifies the type of loopback to be released. Value is: FACILITY Facility, specifies an OC3 loopback at the receive-side (from the network) of the specified OC3 port.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID [-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent
IDNV	Input, Data Not Valid
IIAC	Input, Invalid ACcess identifier
SARL	Status, Already ReLeased
SDBE	Status, internal Data Base Error
	/* <DATABASE TYPE> Database Error: <STATUS> for <AID STRING> */
	/* <DATABASE TYPE> Database Error: <STATUS> for record number <RECORD NUMBER> */
SNVS	Status, Not in Valid State
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, the RLS-LPBK-OC3 releases the OC3 facility loopback on OC3 port OC3-113.

```
RLS-LPBK-OC3 : : OC3-113 ;
```

RELATED COMMANDS

```
OPR-LPBK-OC3
RTRV-COND-OC3
RTRV-LPBK-OC3
RTRV-OC3
```


COMMAND CODE: **RLS-LPBK-STs1**
COMMAND NAME: **RELEASE LOOPBACK STs1**

PURPOSE

The RLS-LPBK-STs1 command releases the near-end (in the system) STs1 loopback, previously established by an OPR-LPBK-STs1 command, on the specified STs1 port. If the port was cross-connected prior to establishing a loopback, then the cross-connection is re-established when the RLS-LPBK-STs1 is executed.

To execute an RLS-LPBK-STs1, the specified STs1 must have a PST of OOS-AUMA or OOS-MA and a SST of LPBK. Refer to Appendix G, State Transitions for additional information on state values and state transitions.

Executing RLS-LPBK-STs1 clears the ACTLPBK condition type on the specified STs1 port.

A RLS-LPBK-STs1 command is denied if:

- The specified STs1 is not in a loopback (an STs1 PST,SST of OOS-AUMA,LPBK or OOS-MA,LPBK).
- The specified STs1 is embedded within a protection OC3 or OC12.
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RLS-LPBK-STs1: [TID] :AID: [CTAG] :: [LOCN] , , , [LPBKTYPE] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	STs1_AID: {EC1STs1-{1-3840}} (EC1STs1-EC1/STs1#) {OC3STs1-{1-2240}-{1-3}} (OC3STs1-OC3#-STs1#) {OC12STs1-{1-560}-{1-4}-{1-3}} (OC12STs1-OC12#-STM1#-STs1#) Default: Entry Required Addressing: None Description: STs1 AID, identifies the STs1 port.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
LOCN	{NEND} Default: {NEND} Addressing: None Description: Location, specifies the location (near-end) where the loopback is to be released. Values are: NEND Near-End, specifies that the loopback in the system is to be released.
LPBKTYPE	{MATRIX, PAYLOAD} Default: <Any Existing Loopback Type> Addressing: None Description: Loopback Type, specifies the type of loopback to be released. Value is: MATRIX Matrix, specifies an STs1 loopback in the system matrix to be released. PAYLOAD Payload, specifies an STs1 loopback in the RPB module to be released.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent
IDNV	Input, Data Not Valid
	/* PAYLOAD valid only on a port within a ring */
IIAC	Input, Invalid ACcess identifier
SARB	Status, All Resources Busy
SARL	Status, Already ReLeased
	/* There is no loopback on the port */
SDBE	Status, internal Data Base Error
	/* <DATABASE TYPE> Database Error: <STATUS> for <AID STRING> */
	/* <DATABASE TYPE> Database Error: <STATUS> for record number <RECORD NUMBER> */
	/* Failure to update the STS database, status <STATUS> */
	/* Failed to get supported entity records */
SNVS	Status, Not in Valid State
SROF	Status, Requested Operation Failed
	/* The requested port is supporting loopback */
	/* The requested loopback does not match the existing loopback */

EXAMPLES

In the following example, the RLS-LPBK-STs1 releases the STS1 matrix loopback on STS1 port OC3STS1-113-1.

```
RLS-LPBK-STs1::OC3STS1-113-1;
```

RELATED COMMANDS

OPR-LPBK-STs1
RTRV-COND-STs1
RTRV-LPBK-STs1
RTRV-STs1

COMMAND CODE: **RLS-LPBK-STS3C**
COMMAND NAME: **RELEASE LOOPBACK STS3C**

PURPOSE

The RLS-LPBK-STS3C command releases the near-end (in the system) STS3C loopback, previously established by an OPR-LPBK-STS3C command, on the specified STS3C port. If the port was cross-connected prior to establishing a loopback, then the cross-connection is re-established when the RLS-LPBK-STS3C is executed.

To execute an RLS-LPBK-STS3C, the specified STS3C must have a PST of OOS-AUMA or OOS-MA and an SST of LPBK. Refer to Appendix G, State Transitions for additional information on state values and state transitions.

Executing RLS-LPBK-STS3C clears the secondary state of LPBK on the specified STS3C port.

A RLS-LPBK-STS3C command is denied if:

- The specified STS3C is not in a loopback (an STS3C PST,SST of OOS-AUMA,LPBK or OOS-MA,LPBK).
- The specified STS3C is not in a secondary state of LPBK, i.e., no loopback exists on this STS3C.
- The specified STS3C is embedded within a protection OC3/OC12.
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RLS-LPBK-STS3C: [TID] :AID: [CTAG] :: [LOCN] , , , [LPBKTYPE] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	STS3C_AID: {OC3STS3C-{1-2240}} (OC3STS3C-OC3#/STS3C#) {OC12STS3C-{1-560}-{1-4}} (OC12STS3C-OC12#-STM1/STS3C#) Default: Entry Required Addressing: None Description: STS3C AID, identifies the STS3C port.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
LOCN	{NEND} Default: {NEND} Addressing: None Description: Location, specifies the location (near-end) where the loopback is to be released. Values are: NEND Near-End, specifies that the loopback in the system is to be released.
LPBKTYPE	{MATRIX} Default: <Any Existing Loopback Type> Addressing: None Description: Loopback Type, specifies the type of loopback to be released. Value is: MATRIX Matrix, specifies an STS3C loopback in the system matrix.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent
IDNV	Input, Data Not Valid
	/* PAYLOAD valid only on a port within a ring */
IIAC	Input, Invalid ACcess identifier
SARB	Status, All Resources Busy
SARL	Status, Already ReLeased
	/* There is no loopback on the port */
SDBE	Status, internal Data Base Error
	/* <DATABASE TYPE> Database Error: <STATUS> for <AID STRING> */
	/* <DATABASE TYPE> Database Error: <STATUS> for record number <RECORD NUMBER> */
	/* Failure to update the STS database, status <STATUS> */
	/* Failed to get supported entity records */
SNVS	Status, Not in Valid State
SROF	Status, Requested Operation Failed
	/* The command supports only MATRIX loopback */
	/* The requested loopback does not match the existing loopback */

EXAMPLES

In the following example, the RLS-LPBK-ST3C releases the ST3C matrix loopback on ST3C port OC3ST3C-1.

```
RLS-LPBK-ST3C: :OC3ST3C-1;
```

RELATED COMMANDS

```
OPR-LPBK-ST3C
RTRV-COND-ST3C
RTRV-LPBK-ST3C
RTRV-ST3C
```

COMMAND CODE: **RLS-LPBK-T1**
COMMAND NAME: **RELEASE LOOPBACK T1**

PURPOSE

The RLS-LPBK-T1 command releases the near-end (in the system) DS1 loopback or far-end DS1 loopback request (to the far-end of the facility), previously established by an OPR-LPBK-T1 command, on the specified DS1 port. If the port was cross-connected prior to establishing a near-end loopback, then the cross-connection is re-established when the RLS-LPBK-T1 is executed.

To execute an RLS-LPBK-T1, the specified DS1 must have a PST of OOS-AUMA or OOS-MA and an SST of LPBK. Refer to Appendix G, State Transitions for additional information on state values and state transitions.

Executing RLS-LPBK-T1 to release a near-end loopback clears the ACTLPBK condition type on the specified DS1 port. Executing RLS-LPBK-T1 to release a far-end loopback request clears the XMTCLPBK condition type on the specified DS1 port.

Executing RLS-LPBK-T1 also causes the fault propagation feature to again be enabled on the specified port if it was disabled when the corresponding OPR-LPBK-T1 was issued.

A RLS-LPBK-T1 command is denied if:

- The specified DS1 is not in a loopback (a DS1 PST,SST of OOS-AUMA,LPBK or OOS-MA,LPBK).
- The specified type of loopback (values for LOCN and LPBKTYPE are explicitly entered) to be released does not exist.
- The specified DS1 is embedded within a protection OC3/ OC12.
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RLS-LPBK-T1 : [TID] : AID : [CTAG] : : [LOCN] , , , [LPBKTYPE] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >	
	Default:	<SID>
	Addressing:	None
	Description:	Target Identifier, specifies the network node TID for the command.
AID	DS1_AID:	
	{T1-{1-59392}}	(T1-DS1#)
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)
	{EC1T1-{1-3840}-{1-28}}	(EC1T1-EC1/STS1/DS3#-DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-28}}	(OC3T1-OC3#-STS1/DS3#-DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}	(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)
	Default:	Entry Required
	Addressing:	None
	Description:	DS1 AID, identifies the DS1 port.
CTAG	< 1-6 VALID CTAG CHARACTERS >	
	Default:	< System assigned CTAG value >
	Addressing:	None
	Description:	Correlation Tag, associates input command with its output responses.

LOCN	{FEND, NEND}	
	Default:	<Any Existing Near-End or Far-End loopback>
	Addressing:	None
	Description:	Location, specifies the location (near-end or far-end) where the loopback is to be released. Values are:
	FEND	Far-End, specifies that the C-bit loopback request being transmitted in the supporting DS2 signal to loopback the specified DS1 at the far-end of the facility is to be released.
	NEND	Near-End, specifies that the loopback in the system is to be released.
	Restrictions:	RLS-LPBK-T1 is denied if LOCN of FEND and LPBKTYPE of MATRIX is entered.
LPBKTYPE	{FACILITY, MATRIX}	
	Default:	<Any Existing Loopback Type>
	Addressing:	None
	Description:	Loopback Type, specifies the type of loopback to be released. Values are:
	FACILITY	Facility, if LOCN of NEND is entered, specifies the DS1 loopback at the receive-side (from the network) of the specified DS1 port is to be released, or if LOCN of FEND is entered, specifies the C-bit loopback request being transmitted is to be released.
	MATRIX	Matrix, specifies the DS1 loopback in the system matrix is to be released.
	Restrictions:	RLS-LPBK-T1 is denied if LPBKTYPE of MATRIX and LOCN of FEND is entered.

SUCCESSFUL RESPONSE FORMAT

```

        <SID> <YY-MM-DD> <HH:MM:SS>
M  <CTAG> COMPLD
    [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

        <SID> <YY-MM-DD> <HH:MM:SS>
M  <CTAG> DENY
    <ERROR CODE>
    [/* <Informational Error Description Text> */]
    [/* <Expanded Error Code Description> */]
    [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent
IDNV	Input, Data Not Valid
IIAC	Input, Invalid ACcess identifier
SARL	Status, Already ReLeased
SDBE	Status, internal Data Base Error

```

/* <DATABASE TYPE> Database Error: <STATUS> for <AID STRING> */
/* <DATABASE TYPE> Database Error: <STATUS> for record number <RECORD NUMBER> */
/* Failed to update the STS database,status=<STATUS> */

```


SNVS	Status, Not in Valid State
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, the RLS-LPBK-T1 releases the DS1 matrix loopback on DS1 port T3T1-1292-1.

```
RLS-LPBK-T1::T3T1-1292-1::,, ,MATRIX;
```

In the following example, the C-bit loopback request on DS1 port T3T1-1398-4 is released.

```
RLS-LPBK-T1::T3T1-1398-4:::FEND,, ,FACILITY;
```

RELATED COMMANDS

```
OPR-LPBK-T1  
RTRV-COND-T1  
RTRV-LPBK-T1  
RTRV-T1
```


COMMAND CODE: **RLS-LPBK-T3**
COMMAND NAME: **RELEASE LOOPBACK T3**

PURPOSE

The RLS-LPBK-T3 command releases the near-end (in the system) DS3 loopback, previously established by an OPR-LPBK-T3 command, on the specified DS3 port. If the port was cross-connected prior to establishing a near-end loopback, then the cross-connection is re-established when the RLS-LPBK-T3 is executed.

To execute an RLS-LPBK-T3, the specified DS3 must have a PST of OOS-AUMA or OOS-MA and an SST of LPBK. Refer to Appendix G, State Transitions for additional information on state values and state transitions.

Executing RLS-LPBK-T3 clears the ACTLPBK condition type on the specified DS3 port.

A RLS-LPBK-T3 command is denied if:

- The specified DS3 is not in a loopback (a DS3 PST,SST of OOS-AUMA,LPBK or OOS-MA,LPBK).
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RLS-LPBK-T3 : [TID] : AID : [CTAG] : : [LOCN] , , , [LPBKTYPE] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	DS3_AID: {T3-{1-4800}} (T3-DS3#) Default: Entry Required Addressing: None Description: DS3 AID, identifies the DS3 port.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
LOCN	{NEND} Default: {NEND} Addressing: None Description: Location, specifies the location (near-end) where the loopback is to be released. Values are: NEND Near-End, specifies that the loopback in the system is to be released.
LPBKTYPE	{FACILITY, MATRIX} Default: <Any Existing Loopback Type> Addressing: None Description: Loopback Type, specifies the type of loopback to be released. Values are: FACILITY Facility, specifies a DS3 loopback at the receive-side (from the network) of the specified DS3 port. MATRIX Matrix, specifies a DS3 loopback in the system matrix.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID [-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent
IDNV	Input, Data Not Valid
IIAC	Input, Invalid ACcess identifier
SARB	Status, All Resources Busy
SARL	Status, Already ReLeased
	/* There is no loopback on the port */
SDBE	Status, internal Data Base Error
	/* <DATABASE TYPE> Database Error: <STATUS> for <AID STRING> */
	/* <DATABASE TYPE> Database Error: <STATUS> for record number <RECORD NUMBER> */
	/* Failed to update the STS database,status=<STATUS> */
	/* Failure in GetSptdTPid, status <STATUS> */
SNVS	Status, Not in Valid State
SROF	Status, Requested Operation Failed
	/* The requested port is supporting loopback */
	/* The requested loopback does not match the existing loopback */

EXAMPLES

In the following example, the RLS-LPBK-T3 releases the DS3 facility loopback on DS3 port EC1T3-1297.

```
RLS-LPBK-T3::EC1T3-1297;
```

RELATED COMMANDS

```
OPR-LPBK-T3
RTRV-COND-T3
RTRV-LPBK-T3
RTRV-T3
```

COMMAND CODE: **RLS-LPBK-VT1**
COMMAND NAME: **RELEASE LOOPBACK VT1**

PURPOSE

The RLS-LPBK-VT1 command releases the near-end (in the system) VT1.5 loopback, previously established by an OPR-LPBK-VT1 command, on the specified VT1.5 port. If the port was cross-connected prior to establishing a near-end loopback, then the cross-connection is re-established when the RLS-LPBK-T1 is executed.

To execute an RLS-LPBK-VT1, the specified VT1.5 must have a PST of OOS-AUMA or OOS-MA and an SST of LPBK. Refer to Appendix G, State Transitions for additional information on state values and state transitions.

Executing RLS-LPBK-VT1 to release a near-end loopback clears the ACTLPBK condition type on the specified VT1.5 port.

Executing RLS-LPBK-VT1 also causes the fault propagation feature to be again enabled if it was disabled when the corresponding OPR-LPBK-VT1 was issued.

A RLS-LPBK-VT1 command is denied if:

- The specified VT1.5 is not in a loopback (a VT1.5 PST,SST of OOS-AUMA,LPBK or OOS-MA,LPBK).
- The specified type of loopback (values for LOCN and LPBKTYPE are explicitly entered) to be released does not exist.
- The specified VT1.5 is embedded within a protection OC3/OC12.
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RLS-LPBK-VT1 : [TID] : AID : [CTAG] : : [LOCN] , , , [LPBKTYPE] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	VT1_AID: {EC1VT1-{1-3840}-{1-7}-{1-4}} (EC1VT1-EC1/STS1#-VTGrp#-VT1.5#) {OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}} (OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#) {OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}} (OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#) Default: Entry Required Addressing: None Description: VT1 AID, identifies the VT1.5 port.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
LOCN	{NEND} Default: {NEND} Addressing: None Description: Location, specifies the location (near-end) where the loopback is to be released. Values are: NEND Near-End, specifies that the loopback in the system is to be released.

LPBKTYPE	{MATRIX, PAYLOAD}
Default:	<Any Existing Loopback Type>
Addressing:	None
Description:	Loopback Type, specifies the type of loopback to be released. Values are:
	MATRIX Matrix, specifies the VT1.5 loopback in the system matrix to be released.
	PAYLOAD Payload, specifies the VT1.5 loopback in the RPB module to be released.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid /* PAYLOAD valid only on a port within a ring */
IIAC	Input, Invalid ACcess identifier
SARL	Status, Already ReLeased
SDBE	Status, internal Data Base Error /* <DATABASE TYPE> Database Error: <STATUS> for <AID STRING> */ /* <DATABASE TYPE> Database Error: <STATUS> for record number <RECORD NUMBER> */ /* Failed to get supporting entity records */ /* Failed to update the STS database,status=<STATUS> */
SNVS	Status, Not in Valid State
SROF	Status, Requested Operation Failed /* The requested port is supporting loopback */

EXAMPLES

In the following example, the RLS-LPBK-VT1 releases the VT1.5 matrix loopback on VT1.5 port OC3VT1-118-3-1-1.

```
RLS-LPBK-VT1::OC3VT1-118-3-1-1::,, ,MATRIX;
```

RELATED COMMANDS

```

OPR-LPBK-VT1
RTRV-COND-VT1
RTRV-LPBK-VT1
RTRV-VT1

```

COMMAND CODE: **RLS-PROTNSW-OC12**
COMMAND NAME: **RELEASE PROTECTION SWITCH OC-12**

PURPOSE

The RLS-PROTNSW-OC12 command instructs the system to release or clear an OC-12 line protection switch request between the working OC-12 line and protection OC-12 line.

On successful completion of this command, the system will reassess the switching conditions existing on the pair of lines, one of which is specified by the AID, and will honor the highest priority request. This request might not have been honored earlier because of an earlier requested higher priority protection switch command.

Executing an RLS-PROTNSW-OC12 command causes the OC-12 object entity to be released to a Normal state. The FSW (Forced Switch of Working to Protection), MSW (Manual Switch of Working to Protection), FSP (Forced Switch of Protection to Working), MSP (Manual Switch of Protection to Working), or LKP (Lockout of protection) protection switching controls are released or the ESW (Excessive Switching) condition is cleared.

Note that the ESW condition is set by the system after four consecutive switch transitions from the working line to the protection line and back to the working line occur within a 10 minute period. The ESW condition is cleared by the system at midnight or can be cleared by a restart of the SPB controller which supports the OC12 interface.

WARNING: A RLS-PROTNSW-OC12 command is the preferred way to clear an ESW auto lockout condition. When an ESW is active on an OC-12 pair, the user should not RMV/RST-OC12 FRCD on the main facility, for it causes a hard facility failure which affects downstream traffic.

An RLS-PROTNSW-OC12 command is denied if:

- At the time of issuance of this command, no FSW, MSW, ESW, FSP, MSP or LKP protection switching controls or conditions are present, i.e., a OPR-PROTNSW-OC12 was not performed.
- An invalid parameter value is entered.

INPUT FORMAT

```
RLS-PROTNSW-OC12: [TID] :AID: [CTAG] :: [DIRN] ;
```

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	OC12_AID: {OC12-{1-560}} (OC12-OC12#) Default: Entry Required Addressing: None Description: OC12 AID, identifies the OC-12 port that is to be cleared of protection.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
DIRN	{RCV} Default: { RCV } Addressing: None Description: Direction. This parameter determines the direction of transmission in which the switching is to be made and is relative to the SONET line identified by the AID. Values are: RCV Receive direction.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

SARB	Status, All Resources Busy /*A manual switch is in progress for this protection group.*/
SDBE	Status, internal Data Base Error /*TP Database Error: <ERROR-STRING> for <AID-STRING> */ /* RPP Database Error: <ERROR-STRING>*/

EXAMPLES

In the following example, a manual switch of the working OC-12 line OC12-1 to protection line OC12-2 is in effect and is being cleared.

```
RLS-PROTNSW-OC12::OC12-1;
```

RELATED COMMANDS

```
OPR-PROTNSW-OC12
```


COMMAND CODE: **RLS-PROTNSW-OC3**
COMMAND NAME: **RELEASE PROTECTION SWITCH OC-3**

PURPOSE

The RLS-PROTNSW-OC3 command instructs the system to release or clear an OC-3 line protection switch request between the working OC-3 line and protection OC-3 line.

On successful completion of this command, the system will reassess the switching conditions existing on the pair of lines, one of which is specified by the AID, and will honor the highest priority request. This request might not have been honored earlier because of an earlier requested higher priority protection switch command.

Executing an RLS-PROTNSW-OC3 command causes the OC-3 object entity to be released to a Normal state. The FSW (Forced Switch of Working to Protection), MSW (Manual Switch of Working to Protection), FSP (Forced Switch of Protection to Working), MSP (Manual Switch of Protection to Working), or LKP (Lockout of protection) protection switching controls are released or the ESW (Excessive Switching) condition is cleared.

Note that the ESW condition is set by the system after four consecutive switch transitions from the working line to the protection line and back to the working line occur within a 10 minute period. The ESW condition is cleared by the system at midnight or can be cleared by a restart of the SPB controller which supports the O1B interface module.

WARNING: A RLS-PROTNSW-OC3 command is the preferred way to clear an ESW auto lockout condition. When an ESW is active on an OC-3 pair, the user should not RMV/RST-OC3 FRCD on the main facility, for it causes a hard facility failure which affects downstream traffic.

An RLS-PROTNSW-OC3 command is denied if:

- At the time of issuance of this command, no FSW, MSW, ESW, FSP, MSP or LKP protection switching controls or conditions are present, i.e., a OPR-PROTNSW-OC3 was not performed.
- An invalid parameter value is entered.

INPUT FORMAT

RLS-PROTNSW-OC3 : [TID] : AID : [CTAG] : : [DIRN] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	OC3_AID: {OC3-{1-2240}} (OC3-OC3#) Default: Entry Required Addressing: None Description: OC3 AID, identifies the OC-3 port that is to be cleared of protection.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
DIRN	{RCV} Default: { RCV } Addressing: None Description: Direction. This parameter determines the direction of transmission in which the switching is to be made and is relative to the SONET line identified by the AID. Values are: RCV Receive direction.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

SARB	Status, All Resources Busy /*A manual switch is in progress for this protection group.*/
SDBE	Status, internal Data Base Error /*TP Database Error: <ERROR-STRING> for <AID-STRING> */ /* RPP Database Error: <ERROR-STRING>*/

EXAMPLES

In the following example, a manual switch of the working OC-3 line OC3-1 to protection line OC3-2 is in effect and is being cleared.

```
RLS-PROTNSW-OC3 : : OC3-1 ;
```

RELATED COMMANDS

```
OPR-PROTNSW-OC3
```

COMMAND CODE: **RLS-PROTNSW-STS1**
COMMAND NAME: **RELEASE PROTECTION SWITCH STS-1**

PURPOSE

The RLS-PROTNSW-STS1 command instructs the system to release or clear an STS-1 path protection switch request initiated by the OPR-PROTNSW-STS1 command between the preferred STS-1 path and alternate STS-1 path.

On successful completion of this command, the system will reassess the switching conditions existing on the pair of paths, one of which is specified by the AID, and will honor the highest priority request. This request might not have been honored earlier because of an earlier requested higher priority protection switch command.

Executing an RLS-PROTNSW-STS1 command causes the STS-1 object entity to be released to a Normal state. The FSW (Forced Switch of Working to Protection), MSW (Manual Switch of Working to Protection), FSP (Forced Switch of Protection to Working), or MSP (Manual Switch of Protection to Working) protection switching controls are released.

An RLS-PROTNSW-STS1 command is denied if:

- At the time of issuance of this command, no FSW, MSW, FSP, or MSP protection switching controls are present.
- An invalid parameter value is entered.

INPUT FORMAT

RLS-PROTNSW-STS1: [TID] :AID: [CTAG] :: [DIRN] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	STS1_AID: {OC3STS1-{1-2240}-{1-3}} (OC3STS1-OC3#-STS1#) {OC12STS1-{1-560}-{1-4}-{1-3}} (OC12STS1-OC12#-STM1#-STS1#) Default: Entry Required Addressing: None Description: STS1 AID, identifies the STS-1 path (preferred or alternate) that is to be cleared of protection.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
DIRN	{RCV} Default: { RCV } Addressing: None Description: Direction. This parameter determines the direction of transmission in which the switching is to be made and is relative to the SONET line identified by the AID. Values are: RCV Receive direction.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M <CTAG> COMPLD  
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]  
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid
IIAC	Input, Invalid ACcess identifier
SARB	Status, All Resources Busy /*A switch is in progress for this protection group.*/ /*Please try the command again later.*/
SDBE	Status, internal Data Base Error /* Failed to get RPP database for type %d record %d */ /* TP Database Error: <ERROR-STRING> FOR <AID-STRING> */ /*RPP Database Error: <ERROR-STRING>*/
SNVS	Status, Not in Valid State /*The AID entered in not part of 2WAYPR or 2WAYDC*/
SSRD	Status, Switch Request Denied

EXAMPLES

In the following example, a manual switch of the preferred STS-1 path OC3STS1-33-1 to alternate path OC3STS1-34-1 is in effect and is being cleared.

```
RLS-PROTNSW-STs1: :OC3STS1-33-1;
```

RELATED COMMANDS

```
OPR-PROTNSW-STs1
```

COMMAND CODE: **RLS-PROTNSW-VT1**
COMMAND NAME: **RELEASE PROTECTION SWITCH VT1**

PURPOSE

The RLS-PROTNSW-VT1 command instructs the system to release or clear a VT1.5 path protection switch request initiated by the OPR-PROTNSW-VT1 command between the preferred VT1.5 path and alternate VT1.5 path.

On successful completion of this command, the system will reassess the switching conditions existing on the pair of paths, one of which is specified by the AID, and will honor the highest priority request. This request might not have been honored earlier because of an earlier requested higher priority protection switch command.

Executing an RLS-PROTNSW-VT1 command causes the VT1.5 object entity to be released to a Normal state. The FSW (Forced Switch of Working to Protection), MSW (Manual Switch of Working to Protection), FSP (Forced Switch of Protection to Working), or MSP (Manual Switch of Protection to Working) protection switching controls are released.

An RLS-PROTNSW-VT1 command is denied if:

- At the time of issuance of this command, no FSW, MSW, FSP, or MSP protection switching controls are present.
- An invalid parameter value is entered.

INPUT FORMAT

RLS-PROTNSW-VT1 : [TID] : AID : [CTAG] : : [DIRN] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	VT1_AID: {OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}} (OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#) {OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}} (OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#) Default: Entry Required Addressing: None Description: VT1 AID, identifies the VT1.5 path (preferred or alternate) that is to be cleared of protection.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
DIRN	{RCV} Default: { RCV } Addressing: None Description: Direction. This parameter determines the direction of transmission in which the switching is to be made and is relative to the SONET line identified by the AID. Values are: RCV Receive direction.

SUCCESSFUL RESPONSE FORMAT

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid
IIAC	Input, Invalid ACcess identifier
SARB	Status, All Resources Busy /* A switch is in progress for this protection group.*/ /* Please try the command again later.*/
SDBE	Status, internal Data Base Error /* Failed to get RPP database for type %d record %d */ /* TP Database Error: <ERROR-STRING> for <AID-STRING> */ /* RPP Database Error: <ERROR-STRING>*/
SNVS	Status, Not in Valid State /* The AID entered in not part of 2WAYPR or 2WAYDC*/
SSRD	Status, Switch Request Denied

EXAMPLES

In the following example, a manual switch of the preferred VT1.5 path OC3VT1-41-3-7-1 to alternate path OC3VT1-42-3-7-1 is in effect and is being cleared.

```
RLS-PROTNSW-VT1::OC3VT1-41-3-7-1;
```

RELATED COMMANDS

```
OPR-PROTNSW-VT1
```

COMMAND CODE: **RLS-SYNCNSW**
COMMAND NAME: **RELEASE SYNCHRONIZATION SWITCH**

PURPOSE

The RLS-SYNCNSW command releases a previously executed clock reference source synchronization switch (initiated via an OPR-SYNCNSW command). If the MCB clock subsystem is provisioned for reverive clock reference source switching (refer to the RVRTV parameter in the ED-EQPT command), the clock reference is switched back to the previously primary clock reference source, provided the clock reference source is not failed.

A RLS-SYNCNSW command is denied if:

- An OPR-SYNCNSW command is not currently active.
- The clock reference source that would be selected has failed.
- The MCB subsystem is provisioned for the internal timing reference mode of operation (refer to the MCB TMG parameter in the ED-EQPT command).
- An invalid parameter value is entered.

INPUT FORMAT

RLS-SYNCNSW: [TID] :: [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  /* <Free Form Informational Text> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

ENSI Equipage, Not equipped for Setting specified Information
 /* The RLS-SYNCNSW was rejected. */

IDNC	Input, Data Not Consistent /* Unable to read aux buffer for <AID> */
IIAC	Input, Invalid ACcess identifier /* The command was rejected. */ /* Invalid or unassigned equipment identifier specified. */ /* The RLS-SYNCNSW was rejected. */ /* The RLS-SYNCNSW for <AID> was rejected. */ /* Command not supported for this equipment. */ /* Unsupported card type for this command. */ /* An invalid module type specified in request. */ /* Invalid I/O <AID> specified. */ /* Invalid I/O quad specified. */ /* Invalid replacement I/O shelf specified. */ /* Invalid QUAD number <QUAD> specified. */ /* EOB's cannot be provisioned on a Subrack. */ /* Invalid rack type for <AID>. */
SARB	Status, All Resources Busy /* Command already in progress on equipment.*/ /* Automatic system configuration active on equipment. */ /* Automatic configuration (database download) of parent processor in progress. */ /* Level 2 processor software download in progress. Try again later. */ /* INIT-SYS command still active on shelf that equipment is on. */
SDBE	Status, internal Data Base Error /* Error accessing auxiliary EM data area. */ /* The RLS-SYNCNSW was rejected. */ /* The RLS_SYNCNSW was aborted. */ /* Error reading shelf database for <AID> */ /* Unable to access TMG database */ /* Unable to read system configuration file. */ /* Error reading reference table for <AID>. */ /* Error updating reference table for <AID>. */ /* Error reading shelf database record for <AID>. */ /* Error initializing shelf database record for <AID>. */ /* Error updating shelf database record for <AID>. */ /* Error reading system configuraion database for <AID>. */ /* Error obtaining auxiliary buffer for <AID>. */ /* Error determinining equipment for <AID>. */ /* Error initializing database for <AID>. */ /* Error updating system size in database. */ /* <AID> database read error. */ /* Error updating database for <AID>. */ /* Error reading database for card <<AID>>. */ /* <AID> database update error. */ /* Error reading database for card <AID>. */ /* Error accessing auxillary buffer for card <AID>. */ /* Error updating database for card <AID>. */ /* Invalid or unassigned equipment identifier specified. */ /* Data base access failure. */ /* MCB data base access failure. */
SNSR	Status, No Switch Request outstanding /* The RLS-SYNCNSW was rejected. */ /* OPR-SYNCNSW:::PRI is not Active. */ /* OPR-SYNCNSW:::SEC is not Active. */ /* OPR-SYNCNSW:::PRI SEC is not Active. */

SNVS Status, Not in Valid State
 /* The RLS-SYNCNSW was aborted. */
 /* Improper state. */

SSRD Status, Switch Request Denied
 /* SET-SYCN::%s::%s should be followed by SET-SYCN::%s::NORM */
 /* Unrecognized clock mode: <CLKMODE> */
 /* Current mode: <REFERENCE_MODE> */
 /* OPR-SYNCNSW::::PRI is not Active. */
 /* OPR-SYNCNSW::::SEC is not Active. */
 /* OPR-SYNCNSW::::PRI|SEC is not Active. */

EXAMPLES

In the following example, a previously executed OPR-SYNCNSW is released.

```
RLS-SYNCNSW;
```

RELATED COMMANDS

```
OPR-SYNCNSW  
ED-EQPT  
RTRV-EQPT  
SET-SYCN
```


COMMAND CODE: **RMV-CID**
COMMAND NAME: **REMOVE COMMUNICATIONS
INTERFACE DEVICE**

PURPOSE

The RMV-CID command logically removes the specified CPORT and any associated specified X.25 virtual channels and TCP session, and logs-off any user currently logged-on to the specified CPORT and virtual channel.

The RMV-CID command can be executed while in the Limited Command Execution mode (i.e., after execution of a STOP-OPS command).

A RMV-CID command with a value for VCNUM specified logically removes the specified VCNUM(s). A RMV-CID with <NoVal> specified for VCNUM must be executed to logically remove the X.25 or TCP CPORT.

A RMV-CID command must be executed before any provisioned configuration changes (made via an ED-CID command) are applied to the CPORT by executing a RST-CID command.

A RMV-CID command must be executed from a CPORT or virtual channel other than the CPORT or virtual channel that is being logically removed (a user is not allowed to logically remove the communication interface that the user is using to execute the RMV-CID command).

A RMV-CID command is denied if:

- The specified CPORT has not previously been provisioned (via ENT-CID).
- The CPORT is already logically removed (via a RMV-CID).
- A VCNUM value of {1-8} is entered and the CPORT's PROTOCOL parameter (refer to ENT-CID and ED-CID commands) is not set to X25.
- The RMV-CID command is executed from the CPORT, X.25 virtual channel, or TCP session, specified by the CPORT and VCNUM parameters.
- A value for VCNUM is entered and the specified CPORT refers to a LAN (i.e. CPORT's PROTOCOL is TCP) on the ICM.
- A value for VCNUM is entered and the system is in Limited Command Execution mode.
- System is in Limited Command Execution mode, and CPORT other than 3, 5, 7, 9 or 11 is specified.
- An invalid parameter value is entered.

INPUT FORMAT

RMV-CID: [TID] :CPORT, [VCNUM] : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CPORT	{1-12} Default: Entry Required Addressing: None Description: Control Port, specifies the physical communication port number on the APS control system. Restrictions: RMV-CID is denied if system is in Limited Command Execution mode, and CPORT other than 3, 5, 7, 9 or 11 is specified.

VCNUM	{1–24, <NoVal>}
	Default: <All applicable provisioned virtual channels>
	Addressing: None
	Description: Virtual Channel Number, specifies the X.25 virtual channel within the specified CPORT. Values are:
	<div> <div>{1–24}</div> <div>X.25 virtual channel number within the specified X.25 CPORT.</div> </div> <div> <div><NoVal></div> <div>No Value, all applicable provisioned virtual channels are selected.</div> </div>
	Restrictions:
	RMV–CID is denied if VCNUM is entered and the CPORT's PROTOCOL parameter (refer to ENT–CID and ED–CID commands) is not set to either X.25 or TCP.
	RMV–CID is denied if VCNUM is entered, and the Virtual Channel does not exist.
	RMV–CID is denied if VCNUM is entered, and the system is in the Limited Command Execution mode.
CTAG	< 1–6 VALID CTAG CHARACTERS >
	Default: < System assigned CTAG value >
	Addressing: None
	Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Optional Suggested Action Text> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non–Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid
IPNV	Input, Parameter Not Valid
	/* Invalid CID <CPORT> entered */
	/* CID <CPORT> does not exist */
	/* X25 vc <VCNUM> does not exist */
SDBE	Status, internal Data Base Error
SROF	Status, Requested Operation Failed
	/* Cannot remove yourself */
	/* This CID is pending removal */
	/* CID is already removed */
	/* This CID <CPORT> is in a REMOVED state */
	/* Unknown state for CID <CPORT> */
	/* This X.25 vc is in a REMOVED state */

EXAMPLES

In the following example, CPORT 3 is logically removed.

```
RMV-CID::3;
```

RELATED COMMANDS

```
DLT-CID  
DLT-CID-VC  
DLT-OSADDR-SITE  
ED-CID  
ED-CID-OSPORT  
ED-CID-VC  
ED-OSADDR-SITE  
ED-PRMTR-SITE  
ENT-CID  
ENT-CID-VC  
ENT-EQPT  
ENT-OSADDR-SITE  
RST-CID  
RTRV-CID  
RTRV-EQPT  
RTRV-OSADDR-SITE  
RTRV-PRMTR-SITE  
START-CID  
STOP-CID  
STOP-OPS
```


COMMAND CODE: **RMV-EC1**
COMMAND NAME: **REMOVE EC1**

PURPOSE

The RMV-EC1 command causes the specified EC1 port to be placed in an OOS-MA or OOS-AUMA state.

Executing a RMV-EC1 command causes a state transition for the specified EC1 from

- IS to OOS-MA
- OOS-AU to OOS-AUMA

When an EC1 is in an OOS-MA or OOS-AUMA state, all EC1 transmission condition types are cleared and a MAN condition type is set for the specified EC1.

When an EC1 is in an OOS-MA or OOS-AUMA state, no EC1 transmission condition types or performance monitoring threshold crossing alerts are autonomously reported for the EC1, but EC1 alarm conditions are monitored (retrievable with the RTRV-EC1 command) and performance monitoring data is collected (if provisioned for PM collection by the SET-PMODE-EC1 command) for the EC1.

A RMV-EC1 command is denied if:

- The specified EC1 is not previously provisioned (with the ENT-EC1 command).
- The specified EC1 is already in an OOS-MA or OOS-AUMA state.
- The specified EC1 is in a TRM secondary state and the command is issued with MODE as NORM.
- The specified EC1 is in OOS-AU, AINS state.
- An invalid parameter value is entered.

INPUT FORMAT

RMV-EC1 : [TID] : AID : [CTAG] : : [MODE] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	EC1_AID: {EC1-{1-3840} } (EC1-EC1/STS1#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: EC1 AID, identifies the EC1 port.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
MODE	{NORM, FRCD} Default: {NORM} Addressing: None Description: Command Execution Mode. Values are: NORM Normal. The command is denied if the EC1 is terminated (i.e. the EC1 has a SST of TRM). FRCD Forced. The command is accepted even if the EC1 is terminated.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid
IIAC	Input, Invalid ACcess identifier
SAOS	Status, Already Out of Service
SDBE	Status, internal Data Base Error
	/* TP Database Error: <ERROR-STRING> for <AID-STRING> */
	/* Error updating supported STS1 */
SNVS	Status, Not in Valid State
	/* To remove a terminated port, CMDMDE must be FRCD*/
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, EC1 port EC1-21 placed in an OOS-MA state by executing a RMV-EC1 command.

```
RMV-EC1::EC1-21;
```

RELATED COMMANDS

```
RTRV-EC1
ENT-EC1
ED-EC1
RST-EC1
DLT-EC1
```


COMMAND CODE: **RMV-EQPT**
COMMAND NAME: **REMOVE EQUIPMENT**

PURPOSE

The RMV-EQPT command causes the specified equipment entity to be placed in an OOS-MA or OOS-AUMA state (the command logically removes the equipment entity from equipment-specific alarm reporting service).

Executing a RMV-EQPT command on a one-for-one redundant equipment entity causes an automatic-copy switch (if the "master" equipment unit is being removed). The master MCB denies attempts to RMV-EQPT, but the slave MCB can be logically removed from service. The RMV-EQPT command on MCB denies, unless the CONSTAT=SLAVE. The master will never be removed; the unit must first be switched to CONSTAT=SLAVE. Executing a RMV-EQPT command on an EP3 or DSI equipment entity does not cause a protection switch to the entity's redundant equipment unit. If RMV-EQPT is executed on an EP3 or ES1 with MODE of FRCD, the command completes successfully regardless of whether the equipment unit is switched to protection.

If a one-plus-one redundant equipment entity (i.e., a DSB, IOB, or SI48 EOB) is specified and MODE of NORM is entered and the redundant equipment is in an IS state, RMV-EQPT completes successfully if and only if all functions supported are transferred (switched) to the redundant equipment. Upon successful completion, an NSA MAN condition is set and any clock references are switched to the applicable redundant module. If an IOB or EOB is specified and MODE of FRCD is entered, RMV-EQPT completes successfully regardless of the state of the redundant copy. If all functions supported are switched to the redundant equipment, an NSA MAN condition is set and clock references are switched. If not all functions are switched to the redundant equipment, an SA MAN condition is set.

Executing a RMV-EQPT command on a one-plus-one redundant equipment entity (i.e., an IOB or SI48 EOB) which supports an active data or clock copy causes a protection switch (of all functions) to the entity's redundant equipment unit. In this case, the data or clock copy switch is non-revertive.

Executing a RMV-EQPT command causes the following state transition for the specified equipment, provided the indicated state is supported by the specified equipment. Secondary states associated with the equipment entity before and after the command is executed depend upon events detected by the system. Refer to Appendix G, State Transitions for additional information on state values and state transitions for each type of equipment entity.

- IS to OOS-MA
- IS-ANR to OOS-MA
- OOS-AU to OOS-AUMA

When an equipment entity is in an OOS-MA or OOS-AUMA state, any equipment specific condition types are cleared and a MAN condition type is set for the specified entity. If an OC-3 or OC-12 had a ESW condition set due to excessive switching, the ESW condition is cleared for the facility residing on the specified O1B or O4M, respectively.

When the DSB is successfully edited to a PST of OOS, the OSIPARMISM, DUPTARPENRTY, DUPMACADDR, CARLOS, or DCCEQPT conditions are cleared if set, on the addressed DSB or its mate.

When an O1B or O4M is successfully edited to an OOS state with MODE of FRCD, the Section and/or Line DCC on the contained OC-3 or OC-12 (if enabled) is disabled and the DUPTARPENRTY (if set) is cleared on the addressed facility.

WARNING: A RLS-PROTNSW-OC3 or RLS-PROTNSW-OC12 command is the preferred way to clear an ESW auto lockout condition. When an ESW is active on an OC-3 or OC-12 pair, the user should not RMV/RST FRCD on the main facility, for it causes a hard facility failure which affects downstream traffic.

A RMV-EQPT command is denied if:

- The specified equipment entity has not previously been provisioned via the ENT-EQPT command.
- The specified equipment entity is already in an OOS-MA or OOS-AUMA state without an SST of MT.
- A DSI, HMU, LMU, EP3, ES1, O1B, or O4M circuit pack is specified and has a PST of IS or IS-ANR without an SST of STBYH, unless MODE of FRCD is entered.
- An O1B or O4M circuit pack is specified and it has an SST of MT and any of the supported STS-1 ports or embedded VT1.5 ports are in a loopback (an STS-1 or VT1.5 state of OOS-AUMA,UAS&MT&LPBK).

- An EP3 circuit pack is specified and it has an SST of MT and any of the supported DS3 ports or embedded DS1 ports are in a loop back (a DS3 or DS1 state of OOS–AUMA,UAS&MT&LPBK).
- An ES1 circuit pack is specified and it has an SST of MT and any of the supported STS–1 ports or embedded VT1.5 ports are in a loop back (an STS–1 or VT1.5 state of OOS–AUMA,UAS&MT&LPBK).
- A DSI circuit pack is specified and it has an SST of MT and any of the supported DS1 ports are in a loop back (a DS1 state of OOS–AUMA,UAS&MT&LPBK).
- A HMU/LMU circuit pack is specified and it has an SST of MT and any of the supported DS3 ports or embedded DS1 ports are in a loop back (a DS3 or DS1 state of OOS–AUMA,UAS&MT&LPBK).
- A one–for–one redundant equipment entity, other than a CPU or SIO is specified and the corresponding redundant equipment is not available but required for service (e.g., the “master” is to be removed and the “slave” unit does not have a PST of IS or automatic copy switching is inhibited), unless MODE of FRCD is entered.
- A CPU circuit pack is specified and its corresponding opposite copy CPU is not available for service (regardless if MODE of NORM or FRCD is entered).
- An ICM or SIO circuit pack and MODE of NORM is specified and its corresponding opposite copy ICM or SIO is not available for service, or MODE of FRCD is specified and all of the ICM’s or SIO’s supported LTx circuit packs have not been deleted.
- An EP3, ES1, or O1B circuit pack and MODE of NORM is specified and the EP3, ES1, or O1B circuit pack is not switched to protection (regardless of the circuit pack having a PST of IS, IS–ANR, or OOS–AU).
- An O1B circuit pack and MODE of NORM is specified and any of the supported STS1 or VT1.5 ports are involved in path switching and are in a WRK state.
- An O1B circuit pack is specified, MODE is either not specified or specified as NORM, the OC–3 on the O1B is defined as part of a ring (via ENT–RNG–OC3), and the Section and/or Line DCC is enabled.
- A P56 circuit pack and MODE of NORM or FRCD is specified and the P56 provides power to an MCB that is simultaneously involved in a copy switch with another MCB.
- An I/O or matrix P39 or P56 and MODE of NORM is specified, and that P39 or P56 would cause a copy lock to a copy residing on a shelf with GTI alarms.
- An SI36 CDB or SI48 CDB and MODE of NORM is specified, and the CDB’s opposite copy of IOB/EOB in the shelf has GTI alarms.
- An end–stage or center–stage matrix module and MODE of NORM is specified, and the module’s opposite copy has GTI alarms.
- An IPB or RPB and MODE of NORM is specified, and the IPB’s or RPB’s opposite copy has GTI alarms on the matrix modules (i.e., IOB, IOB, IPB, M16, M32, M40, OXB, RPB).
- A one–plus–one protected circuit pack (i.e., a DSB, IOB or SI48 EOB) AID is specified and MODE of NORM is entered and the redundant equipment is in an OOS or IS–ANR state (not fully functional or already removed).
- An invalid parameter value is entered.

Executing a RMV–EQPT command with MODE of FRCD is service–affecting in the following situations:

- A DSI, EP3, ES1, HMU, LMU, or O1B circuit pack is specified and the DSI, HMU, LMU, EP3, ES1 or O1B is not switched to the corresponding protection circuit pack.
- A DSB, IOB, or SI48 EOB circuit pack is specified and not all functions supported by the specified equipment have been switched to the corresponding protection circuit pack.
- A CDA, CDB, IPB, M16, M32, M40, MCB, or RPB circuit pack/entity is specified and the corresponding redundant equipment is not in an IS state, or the opposite copy of the cross–connect matrix has lost signal transmission.
- A CIM, CPU, DSK, EOB, ICM, IPU, OXB, SIO, or SPB circuit pack/entity is specified and the corresponding redundant equipment is not in an IS state.
- A P39, P56, or PSF circuit pack in an I/O bay/rack or APS bay/rack is specified and all of the power supplies within the specified power supply’s power group are not in an IS state (one or more of power supplies in the power group have a fault or have been removed).
- A P39, P56, or PSF circuit pack in an end–stage or matrix bay/rack is specified and one or more of the power supplies within the specified power supply’s power group are not in an IS state and the redundant matrix power supply group is similarly limited in power capacity, or the associated I/O shelves are not able to switch to the opposite copy of the matrix.

INPUT FORMAT

RMV-EQPT: [TID] :AID: [CTAG] :: [MODE] ;

INPUT PARAMETERS

TID	<p><1-20 VALID TID CHARACTERS></p> <p>Default: <SID></p> <p>Addressing: None</p> <p>Description: Target Identifier, specifies the network node TID for the command.</p>
AID	<p>EQUIPMENT_AID:</p> <p>{ACM-1-2-{3-7, 10-14}}</p> <p>{CDA-{4, 5, 10, 11, 16, 17, 22, 23, 102, 103}-3-1}</p> <p>{CDB-{5}-{1, 3}-{1, 2}}</p> <p>CDB-{2-43,104-111,112-135,136-141}-{1, 3}-{1, 2}</p> <p>{SI36: CDB-{6-9, 12-15, 18-21, 24-43}-{1, 3}-{1-2},</p> <p>{SI48: CDB-{2-43,104-111,112-135,136-141}-{1, 3}-{1, 2}</p> <p>{CIM-1-2-{3-7, 10-14}}</p> <p>{CPU-1-2-{1-2}}</p> <p>{DSB-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{1-2}}</p> <p>{DSI-{44-63}-{1-4}-{1-32}}</p> <p>{DSK-1-3-1,</p> <p>DSK-1-4-2}</p> <p>{EOB-{5}-{1, 3}-{1-5}}</p> <p>{SI48: EOB-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{1-2},</p> <p>EOC: EOB-{4-5, 10-11, 16-17, 22-23, 102, 103}-1-{1-7, 9-15}}</p> <p>{SI48: EP3-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42,</p> <p>104-106,108-110, 136-141}-{1, 3}-{1-18},</p> <p>EP3-{9, 21, 35, 43, 107}-3-{1-18},</p> <p>EP3-{15, 27, 31, 39, 111}-1-{1-18}}</p> <p>{SI36: EP3-{6-8, 12-14}-{1, 3}-{1-14},</p> <p>EP3-9-3-{1-14},</p> <p>EP3-15-1-{1-14}}</p> <p>{SI48: ES1-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42,</p> <p>104-106,108-110,136-141}-{1, 3}-{1-18},</p> <p>ES1-{9, 21, 35, 43,107}-3-{1-18},</p> <p>ES1-{15, 27, 31, 39,111}-1-{1-18}}</p> <p>{SI36: ES1-{6-8, 12-14}-{1, 3}-{1-14},</p> <p>ES1-9-3-{1-14},</p> <p>ES1-15-1-{1-14}}</p> <p>{HMU-{44-53}-{1-4}-{1-8}}</p> <p>{ICM-1-2-{1, 2, 8, 9}}</p> <p>{IOB-{6-8, 12-14}-{1, 3}-{1, 3, 5, 7},</p> <p>IOB-9-3-{1, 3, 5, 7},</p> <p>IOB-15-1-{1, 3, 5, 7}}</p> <p>{IPB-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{1-2}}</p> <p>{IPU-{44-63}-{1-4}-{1-8}}</p> <p>{LMU-{44-53}-{1-4}-{1-32}}</p> <p>{M16-{2-5, 10-11, 16-17, 22-23}-3-{1-16}}</p> <p>{M32-{4-5, 10-11, 16-17, 22-23, 102, 103}-3-{1-16},</p> <p>M32-{5}-{1, 3}-{1-3, 6-8}}</p> <p>{M40-{2-3}-{1, 3}-{1-16}}</p> <p>{M40-{5}-{1, 3}-{4, 5, 9, 10}}</p> <p>{MCB-{2,3}-3-1}</p>

{MCB-{5}-{1, 3}-{1}}
 {O1B-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{2-9, 11-18}}
 {O4M-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{2-3, 11-12}}
 {OXB-{44-63}-{1-4}-{1-2}}
 {P39-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-3},
 P39-{4, 5, 10, 11, 16, 17, 22, 23, **102**, **103**}-1-{1-3},
 P39-{4, 5, 10, 11, 16, 17, 22, 23, **102**, **103**}-3-{1-4},
 P39-{5}-{1, 3}-{1-4}}
 {P56-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-5},
 P56-{2-3}-{1, 3}-{1-4},
 P56-{4, 5, 10, 11, 16, 17, 22, 23, **102**, **103**}-1,3-{1-5},
 P56-{5}-{1, 3}-{1-4}}
 {PSF-1-{3, 4}-{1, 2},
 PSF-{44-63}-{1-4}-{1-2}}
 {RPB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2}}
 {S3M-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{4-9, 13-18}}
 {SIO-1-2-{1-2, 8-9}}
 {SPB-{2-43, **102-111**, 112-135, **136-141**}-{1, 3}-{1-2}}
 {SPB-{5}-{1, 3}-{1, 2}}
Default: Entry Required
Addressing: None
Description: Equipment AID, identifies the equipment entity. Refer to Appendix B, Access Identifiers (AIDs) for a definition of equipment mnemonics.

CTAG <1-6 VALID CTAG CHARACTERS>
Default: <System Assigned CTAG Value>
Addressing: None
Description: Correlation Tag, associates input command with its output responses.

MODE {FRCD, NORM}
Default: {NORM}
Addressing: None
Description: Command Execution Mode. Values are:
 FRCD Forced. The command is completed even if the result of its execution is service-affecting.
 NORM Normal. The command is denied if the result of its execution is service-affecting.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* The RMV-EQPT for <AID> was completed. */]
  [/* The RMV-EQPT for <AID> was completed with errors. */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

AID EQUIPMENT_AID:
 {ACM-1-2-{3-7, 10-14}}
 {CDA-{4, 5, 10, 11, 16, 17, 22, 23, **102**, **103**}-3-1}
 {CDB-{5}-{1, 3}-{1, 2}}
 CDB-{2-43,**104-111**,112-135,**136-141**}-{1, 3}-{1, 2}
 {SI36: CDB-{6-9, 12-15, 18-21, 24-43}-{1, 3}-{1-2},

{SI48: CDB-{2-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1, 2}}
 {CIM-1-2-{3-7, 10-14}}
 {CPU-1-2-{1-2}}
 {DSB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2}}
 {DSI-{44-63}-{1-4}-{1-32}}
 {DSK-1-3-1,
 DSK-1-4-2}
 {EOB-{5}-{1, 3}-{1-5}}
 {SI48: EOB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2},
 EOC: EOB-{4-5, 10-11, 16-17, 22-23, **102**, **103**}-1-{1-7, 9-15}}
 {SI48: EP3-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42,
 104-106, **108-110**, **136-141**}-{1, 3}-{1-18},
 EP3-{9, 21, 35, 43, **107**}-3-{1-18},
 EP3-{15, 27, 31, 39, **111**}-1-{1-18}}
 {SI36: EP3-{6-8, 12-14}-{1, 3}-{1-14},
 EP3-9-3-{1-14},
 EP3-15-1-{1-14}}
 {SI48: ES1-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42,
 104-106, **108-110**, **136-141**}-{1, 3}-{1-18},
 ES1-{9, 21, 35, 43, **107**}-3-{1-18},
 ES1-{15, 27, 31, 39, **111**}-1-{1-18}}
 {SI36: ES1-{6-8, 12-14}-{1, 3}-{1-14},
 ES1-9-3-{1-14},
 ES1-15-1-{1-14}}
 {HMU-{44-53}-{1-4}-{1-8}}
 {ICM-1-2-{1, 2, 8, 9}}
 {IOB-{6-8, 12-14}-{1, 3}-{1, 3, 5, 7},
 IOB-9-3-{1, 3, 5, 7},
 IOB-15-1-{1, 3, 5, 7}}
 {IPB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2}}
 {IPU-{44-63}-{1-4}-{1-8}}
 {LMU-{44-53}-{1-4}-{1-32}}
 {M16-{2-5, 10-11, 16-17, 22-23}-3-{1-16}}
 {M32-{4-5, 10-11, 16-17, 22-23, **102**, **103**}-3-{1-16},
 M32-{5}-{1, 3}-{1-3, 6-8}}
 {M40-{2-3}-{1, 3}-{1-16}}
 {M40-{5}-{1, 3}-{4, 5, 9, 10}}
 {MCB-{2,3}-3-1}
 {MCB-{5}-{1, 3}-{1}}
 {O1B-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{2-9, 11-18}}
 {O4M-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{2-3, 11-12}}
 {OXB-{44-63}-{1-4}-{1-2}}
 {P39-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-3},
 P39-{4, 5, 10, 11, 16, 17, 22, 23, **102**, **103**}-1-{1-3},
 P39-{4, 5, 10, 11, 16, 17, 22, 23, **102**, **103**}-3-{1-4},
 P39-{5}-{1, 3}-{1-4}}
 {P56-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-5},
 P56-{2-3}-{1, 3}-{1-4},
 P56-{4, 5, 10, 11, 16, 17, 22, 23, **102**, **103**}-1,3-{1-5},
 P56-{5}-{1, 3}-{1-4}}
 {PSF-1-{3, 4}-{1, 2},
 PSF-{44-63}-{1-4}-{1-2}}
 {RPB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2}}
 {S3M-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{4-9, 13-18}}

```
{SIO-1-2-{1-2, 8-9}}
{SPB-{2-43, 102-111, 112-135, 136-141}-{1, 3}-{1-2}}
{SPB-{5}-{1, 3}-{1, 2}}
Equipment AID, identifies the equipment entity.
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent /* Unable to read aux buffer for <AID>. */
IIAC	Input, Invalid ACcess identifier /* An invalid module type specified in request. */ /* Invalid or unassigned equipment identifier specified. */ /* Invalid MODE for the TGR card */ /* Invalid AID for the given slot. */ /* SHELF has been provisioned the PBTYPE as <CARD_TYPE> */ /* Invalid AID specified */
SARB	Status, All Resources Busy /* The command was rejected. */ /* Command already in progress on equipment. */ /* Automatic system configuration active on equipment. */ /* INIT-SYS command still active on shelf that equipment is on. */ /* Automatic configuration (database download) of parent processor in progress. */ /* Level 2 processor software download in progress. Try again later. */
SCSN	Status, invalid Command SequeNce /* In service growth Loopbacks on supported facilities must first be released */
SDBE	Status, internal Data Base Error /* Database read error for <AID>. */ /* Invalid or unassigned equipment identifier specified. */ /* <CARD_TYPE> data base access failure */ /* Error accessing auxiliary EM data area. */ /* Error in get_rec_ptr accessing record of the Mate <AID>. */ /* Error accessing auxiliary buffer for card <AID>. */ /* Error reading database for <AID>. */ /* Error reading database for <AID> or its mate. */ /* Error updating database for card <AID>. */ /* OC facility database access failure. */ /* DCC database access failure. */ /* Unable to read facility database */ /* Error reading MCB clock copy table - <AID> not found */ /* Error reading <AID> database. */ /* Error updating <AID> database. */ /* Error reading <AID> auxiliary buffer. */

SDNA Status, Duplex unit Not Available
 /* MCB Switching Inhibited */
 /* MCB equipment not ready to switch. Try again later. */
 /* MCB equipment not warmed up. Try again later. */
 /* MCB link not up. It must be repaired. */
 /* OXB locked to a copy */

SNVS Status, Not in Valid State
 /* Command not valid for current state of equipment. */
 /* Restore response message not valid for current state for card <AID> */
 /* MCB master cannot be removed normally. */
 /* MCB master cannot be removed forced */
 /* Card is Protect Card. */
 /* To remove a traffic carrying port, CMDMDE must be FRCD */
 /* An STS1 or VT1.5 is in WRK state, CMDMDE must be FRCD */
 /* Section and/or Line DCC In-Service, CMDMDE must be FRCD */
 /* Only FRCD mode is valid for removing TGRs */
 /* Invalid MODE for the TGR card. Only FRCD mode is valid for removing TGRs */
 /* <AID> must be taken out of maintenance state first */

SROF Status, Requested Operation Failed
 /* Error accessing auxiliary EM data area. */
 /* Switch to working must be done first. */
 /* Switch to protection must be done first. */
 /* Did not receive a response from parent processor card */
 /* The request could cause service effect if performed. */
 /* Could not retrieve the aux buffer for <AID>. */
 /* <AID> has command active on it. */
 /* Automatic system configuration active on <AID>. */
 /* Switchover not possible. */
 /* No equipment available for switchover. */
 /* SPB failed activate request for <AID>. */
 /* No response from SPB for MCB on-line request. */
 /* The CDB's on <AID> can not switch. */
 /* IO <AID> can not switch. */
 /* <AID> can not switch. */
 /* No response from the IPB. */
 /* Error reading CDB clock copy table – <AID> not found. */
 /* <AID> is OOS-AU,UAS. */
 /* Error accessing data base for <AID>. */
 /* <AID> is not IS. */
 /* <AID> is OOS. */
 /* <AID> is not powered. */
 /* <AID> has been Deleted. */
 /* Error reading aux buffer for <AID>. */
 /* Error reading Database for <AID>. */
 /* <AID> has a SYNC 166 error. */
 /* Unrecognized slot in AID <AID>. */
 /* SELECT-COPY has locked the matrix to <AID>. */
 /* Automatic Switching Disabled for <AID>. */
 /* Unexpected card id <AID>. */
 /* Unable to switch IO data copy. */
 /* <AID> had a data error. */
 /* IO locked to copy. */
 /* Reference clock loss. */

/* 26/49 MHz clock error. */
/* Data parity error. */
/* CID error. */
/* Unable to copy switch for an unknown reason. */
/* Loss of frame on copy 0. */
/* Loss of connect ID on copy 0. */
/* Loss of parity on copy 0. */
/* CS byte error on copy 0. */
/* Asymmetrical AIS error on copy 0. */
/* Loss of frame on copy 1. */
/* Loss of connect ID on copy 1. */
/* Loss of parity on copy 1. */
/* CS byte error on copy 1. */
/* Asymmetrical AIS error on copy 1. */
/* OXB Switching Inhibited */
/* EOB connected to mate OXB has a GT4 alarm. */
/* Card type <card_type> not supported. */
/* This card's copy value <copy> not supported. */
/* LMU/DSI data base access failure. */
/* Protect power module not available. */
/* Problem reading Mate's Optical Mate EOB. */
/* Mate's Optical Mate EOB has a GT1 alarm. */
/* Mate EOB has a GT1 alarm. */
/* Mate's Optical Mate EOB has a GT4 alarm. */
/* Mate EOB has a GT4 alarm. */
/* Power group <#> has insufficient power. <AID> not available. */
/* Power card unable to provide power. */
/* Power modules are unable to provide power */
/* Protect power module <AID> is currently protecting another card. */
/* Protect power module is already protecting another main power module */
/* Protect power module is OUT OF SERVICE. */
/* Power group <#> has insufficient power. <AID> and other copy <AID>, <AID> not available. */
/* Power group <#> has insufficient power. <AID> and <AID> not available. */
/* <AID> is not available. */
/* <AID> and <AID> are not available. */
/* <AID>, <AID>, <AID>, and <AID> are not available */
/* <AID> and <AID> cannot provide clock. */
/* Auto system action caused override. */
/* Error reading matrix shelf. */
/* Error reading database for <AID>. */
/* Error reading database for card <CARD_TYPE>. */
/* Error reading database for <AID> or its mate. */
/* Currently locked to copy 0 due to <LOCK REASON> */
/* Currently locked to copy 1 due to <LOCK REASON> */
/* CDB command denied because data on <AID> cannot switch. */
/* No switch over response was received for <AID>. */
/* Currently copy <OPPOSITE COPY> has GTI alarms on the matrix modules. */
/* One or more IO shelves are partially locked to each matrix side */
/* Encountered unsupported card type <#>. */
/* <AID> failed can-you-switch-clock. */
/* Can-you-switch-data timeout. */
/* Can-you-switch-clock timeout. */


```
/* Encountered unsupported clock AID <AID>. */  
/* AID> is <CARD_STATE>. */  
/* Error converting power group <#> to clock id. */  
/* Unrecognized subrack type <#> */  
/* Input AID <AID> is not a matrix module on the remote IO shelf.. */  
/* Input AID <AID> is not a matrix module on EOC shelf.. */  
/* <AID> is not a matrix module on EOC shelf. */  
/* <AID> is not an EOB on the matrix shelf. */  
/* SELECT-COPY has locked the matrix to copy <COPY_NUMBER>.. */  
/* Could not retrieve auxiliary buffer for <AID>. */  
SSRE      Status, System Resources Exceeded  
          /* Unable to allocate USI response buffer. */
```

EXAMPLES

In the following example, EP3-6-1-2 is placed in an OOS-MA state by executing a RMV-EQPT command.

```
RMV-EQPT: :EP3-6-1-2;
```

RELATED COMMANDS

```
DLT-EQPT  
ED-EQPT  
ENT-EQPT  
RST-EQPT  
RTRV-EQPT  
RTRV-STATE-EQPT
```


COMMAND CODE: **RMV-ISU-OLD**
COMMAND NAME: **REMOVE IN-SERVICE UPGRADE OLD**

PURPOSE

The RMV-ISU-OLD command allows the deletion of previous Generic Upgrade disk partitions and the setting of the current generic as the permanently active generic. The command removes the disk partition as well as all database, interim, and load files used by the previous Generic Upgrade process. It effectively prevents reversion back to a previous software generic once it has been determined that the capability is no longer required and the command is executed.

After successful completion of the RMV-ISU-OLD command (subsequent to the STA-ISU and INIT-SYS-NEW commands), all generic/database indicators are set to indicate that the current generic is now the permanently active generic. The system remains in service on the currently active release and all system functionalities remain operational. The RMV-ISU-OLD command also invalidates the In-Service Upgrade Key (ISUKEY) entered in the STA-ISU command.

A RMV-ISU-OLD command is denied if:

- A STA-ISU command is in progress.
- No previous generic partition exists (including a system that does not have the larger disk drive).
- An In-Service Upgrade Key (ISUKEY) does not match the ISUKEY of the P1 in the STA-ISU command.
- The command is issued prior to a STA-ISU command.
- The command is issued subsequent to a STA-ISU command but prior to an INIT-SYS-NEW command.
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RMV-ISU-OLD: [TID] : : [CTAG] : : ISUKEY;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
ISUKEY	<1-5 ALPHANUMERIC CHARACTERS> Default: Entry Required Addressing: None Description: In-Service Upgrade Key, specifies the logical in-service upgrade reversion key. Valid values for ISUKEY are a string of 1 through 5 ASCII alphanumeric characters from the set {0-9, A-Z}. Note that spaces and special characters are not included. Restrictions: RMV-ISU-OLD is denied if the ISUKEY does not match the ISUKEY of the P1 entered in the STA-ISU command.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID [-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Optional Suggested Action Text> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IPMS	Input, Parameter MiSsing
IPNV	Input, Parameter Not Valid
SDNC	Status, Data Not Consistent
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, the previous software generic is inaccessible.

```
RMV-ISU-OLD::::R6a1c;
```

RELATED COMMANDS

```
INIT-SYS-NEW
INIT-SYS-OLD
RTRV-ISU-STATUS
STA-ISU
```

COMMAND CODE: **RMV-OC12**
COMMAND NAME: **REMOVE OC-12**

PURPOSE

The RMV-OC12 command causes the specified OC-12 port to be placed in an OOS-MA or OOS-AUMA state.

Executing an RMV-OC12 command causes a state transition for the specified OC-12 from

- IS to OOS-MA
- OOS-AU to OOS-AUMA

When an OC-12 is in an OOS-MAN or OOS-AUMA state, all OC-12 transmission condition types are cleared and a MAN condition type is set for the specified OC-12. Additionally, the ESW condition is cleared for the specified OC-12 if it had a ESW condition set due to excessive switching.

When an OC-12 is in an OOS-MA or OOS-AUMA state, no OC-12 transmission condition types or performance monitoring threshold crossing alerts are autonomously reported for the OC-12, but OC-12 alarm conditions are monitored (retrievable with the RTRV-OC12 command) and performance monitoring data is collected (if provisioned for PM collection by the SET-PMMODE-OC12 command) for the OC-12.

When an OC-12 in ring mode (refer to ENT-RNG-OC12) is in an OOS state, path AIS is sent on all the pass through paths, AIS-L is also sent on the OC-12 in the upstream direction, and all the switched paths switch to the redundant paths. For a 2WAY cross connection from an odd-numbered ring OC-12 to either an EC1 or another non-ring OC-12, no maintenance action is taken by the system.

When an OC-12 in ring mode is in an OOS state and the STS1 or its subordinate VT1.5s are path switched via 2WAYPR, the system selects the STS1/VT1.5 from the redundant ring OC-12 (if that path has an SST of STBYH) and that STS1/VT1.5 enters an SST of WRK.

When an OC-12 is successfully edited to an OOS state with MODE of FRCD, the Section and/or Line DCC is disabled if enabled and the DUPTARPEENTRY is cleared if set on the addressed OC-12.

WARNING: A RLS-PROTNSW-OC12 command is the preferred way to clear an ESW auto lockout condition. When an ESW is active on an OC-12 pair, the user should not RMV/RST-OC12 FRCD on the main facility, for it causes a hard facility failure which affects downstream traffic.

An RMV-OC12 command is denied if:

- The specified OC-12 is not previously provisioned (with the ENT-OC12 command).
- The specified OC-12 is already in an OOS-MA or OOS-AUMA state.
- The specified OC-12 is carrying traffic and the command is issued with MODE as NORM.
- The specified OC-12 is in OOS-AU, AINS state.
- The specified OC-12 in ring mode has STS-1s or VT1.5s that are involved in path switching and have an SST of WRK, unless MODE=FRCD.
- The specified OC-12 in ring mode is issued with MODE either not specified or specified as NORMAL and all the STS-1s or VT1.5s within the OC-12 have an SST of WRK.
- The specified OC-12 is defined as part of a ring (via ENT-RNG-OC12) with MODE either not specified or specified as NORMAL and the Section and/or Line DCC is enabled.
- An invalid parameter value is entered.

I/O protection switching is disabled if the OC-12 line supported by the O4M I/O circuit pack is provisioned to an OOS-MA or OOS-AUMA state.

INPUT FORMAT

RMV-OC12: [TID] :AID: [CTAG] :: [MODE] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >
Default:	<SID>
Addressing:	None
Description:	Target Identifier, specifies the network node TID for the command.

AID	OC12_AID:	
	{OC12-{1-560}}	(OC12-OC12#)
	Default:	Entry Required
	Addressing:	&&-ranging and &-grouping
	Description:	OC12 AID, identifies the OC-12 port.
CTAG	< 1-6 VALID CTAG CHARACTERS >	
	Default:	< System assigned CTAG value >
	Addressing:	None
	Description:	Correlation Tag, associates input command with its output responses.
MODE	{NORM, FRCD}	
	Default:	{NORM}
	Addressing:	None
	Description:	Command Execution Mode. Values are:
	NORM	Normal. The command is denied if the OC-12 is carrying traffic.
	FRCD	Forced. The command is accepted even if the OC-12 is terminated.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid
IIAC	Input, Invalid ACcess identifier
SAOS	Status, Already Out of Service
SDBE	Status, internal Data Base Error
	/* TP Database Error: <ERROR-STRING> for <AID-STRING> */
	/* Error updating supported STS1s */
	/* DCC Database Error: <ERROR-STRING> for <AID-STRING> */
SNVS	Status, Not in Valid State
	/* To remove a traffic carrying port, CMDMDE must be FRCD*/
	/*Section and/or Line DCC In-Service, CMDMDE must be FRCD*/
	/*An In-Service non-STBYH STS1 or VT1.5 connection exists, must be FRCD*/
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, OC-12 port OC12-21 placed in an OOS-MA state by executing an RMV-OC12 command.

```
RMV-OC12::OC12-21;
```

RELATED COMMANDS

RTRV-OC12
ENT-OC12
ED-OC12
RST-OC12
DLT-OC12

COMMAND CODE: **RMV-OC3**
COMMAND NAME: **REMOVE OC-3**

PURPOSE

The RMV-OC3 command causes the specified OC-3 port to be placed in an OOS-MA or OOS-AUMA state.

Executing a RMV-OC3 command causes a state transition for the specified OC-3 from

- IS to OOS-MA
- OOS-AU to OOS-AUMA

When a OC-3 is in an OOS-MA or OOS-AUMA state, all OC-3 transmission condition types are cleared and a MAN condition type is set for the specified OC-3. Additionally, the ESW condition is cleared for the specified OC-3 if it had a ESW condition set due to excessive switching.

When an OC-3 is in an OOS-MA or OOS-AUMA state, no OC-3 transmission condition types or performance monitoring threshold crossing alerts are autonomously reported for the OC-3, but OC-3 alarm conditions are monitored (retrievable with the RTRV-OC3 command) and performance monitoring data is collected (if provisioned for PM collection by the SET-PMMODE-OC3 command) for the OC-3.

When an OC-3 in ring mode (refer to ENT-RNG-OC3) is in an OOS state, path AIS is sent on all the pass through paths, AIS-L is also sent on the OC-3 in the upstream direction, and all the switched paths switch to the redundant paths. For a 2WAY cross connection from an odd-numbered ring OC-3 to either an EC1 or another non-ring OC-3, no maintenance action is taken by the system.

When an OC-3 in ring mode is in an OOS state and the STS1 or its subordinate VT1.5s are path switched via 2WAYPR, the system selects the STS1/VT1.5 from the redundant ring OC-3 (if that path has an SST of STBYH) and that STS1/VT1.5 enters an SST of WRK.

When an OC-3 is successfully edited to an OOS state with MODE of FRCD, the Section and/or Line DCC is disabled if enabled and the DUPTARPEENTRY is cleared if set on the addressed OC-3.

WARNING: A RLS-PROTNSW-OC3 command is the preferred way to clear an ESW auto lockout condition. When an ESW is active on an OC3 pair, the user should not RMV/RST-OC3 FRCD on the main facility, for it causes a hard facility failure which affects downstream traffic.

A RMV-OC3 command is denied if:

- The specified OC-3 is not previously provisioned (with the ENT-OC3 command).
- The specified OC-3 is already in an OOS-MA or OOS-AUMA state.
- The specified OC-3 is carrying traffic and the command is issued with MODE as NORM.
- The specified OC-3 is in OOS-AU, AINS state.
- The specified OC-3 in ring mode has STS-1s or VT1.5s that are involved in path switching and have an SST of WRK, unless MODE=FRCD.
- The specified OC-3 in ring mode is issued with MODE either not specified or specified as NORMAL and all the STS-1s or VT1.5s within the OC-3 have an SST of WRK.
- The specified OC-3 is defined as part of a ring (using ENT-RNG-OC3 or ENT-RNG-OC12) with MODE either not specified or specified as NORMAL and the Section and/or Line DCC is enabled.
- An invalid parameter value is entered.

I/O protection switching is disabled if the OC-3 line supported by the O1B I/O circuit pack is provisioned to an OOS-MA or OOS-AUMA state.

INPUT FORMAT

RMV-OC3 : [TID] : AID : [CTAG] : : [MODE] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >
Default:	<SID>
Addressing:	None
Description:	Target Identifier, specifies the network node TID for the command.

AID	OC3_AID:	
	{OC3-{1-2240}}	(OC3-OC3#)
	Default:	Entry Required
	Addressing:	&&-ranging and &-grouping
	Description:	OC3 AID, identifies the OC-3 port.
CTAG	< 1-6 VALID CTAG CHARACTERS >	
	Default:	< System assigned CTAG value >
	Addressing:	None
	Description:	Correlation Tag, associates input command with its output responses.
MODE	{NORM, FRCD}	
	Default:	{NORM}
	Addressing:	None
	Description:	Command Execution Mode. Values are:
	NORM	Normal. The command is denied if the OC-3 is carrying traffic.
	FRCD	Forced. The command is accepted even if the OC-3 is terminated.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid
IIAC	Input, Invalid ACcess identifier
SAOS	Status, Already Out of Service
SDBE	Status, internal Data Base Error
	/* TP Database Error: <ERROR-STRING> for <AID-STRING> */
	/* Error updating supported STS1s */
	/* DCC Database Error: <ERROR-STRING> for <AID-STRING> */
SNVS	Status, Not in Valid State
	/* To remove a traffic carrying port, CMDMDE must be FRCD*/
	/*Section and/or Line DCC In-Service, CMDMDE must be FRCD*/
	/*An In-Service non-STBYH STS1 or VT1.5 connection exists, must be FRCD*/
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, OC-3 port OC3-21 placed in an OOS-MA state by executing a RMV-OC3 command.

```
RMV-OC3 : : OC3-21 ;
```

RELATED COMMANDS

RTRV-OC3
ENT-OC3
ED-OC3
RST-OC3
DLT-OC3

COMMAND CODE: **RMV-STS1**
COMMAND NAME: **REMOVE STS-1**

PURPOSE

The RMV-STS1 command causes the specified STS-1 port to be placed in an OOS-MA or OOS-AUMA state.

Executing a RMV-STS1 command causes a state transition for the specified STS-1 from

- IS to OOS-MA
- OOS-AU to OOS-AUMA

When an STS-1 is in an OOS-MA or OOS-AUMA state, all STS-1 transmission condition types are cleared and a MAN condition type is set for the specified STS-1.

When an STS-1 is in an OOS-MA or OOS-AUMA state, no STS-1 transmission condition types or performance monitoring threshold crossing alerts are autonomously reported for the STS-1, but STS-1 alarm conditions are monitored (retrievable using the RTRV-STS1 command) and performance monitoring data is collected (if provisioned for PM collection by the SET-PMODE-STS1 command) for the STS-1.

When an STS1 with an SST of WRK (refer to ENT-RNG-OC3 or ENT-RNG-OC12) is in an OOS state and the STS-1 or its subordinate VT1.5s are path switched using 2WAYPR, the system selects the STS-1/VT1.5 from the redundant ring OC-3/OC-12 (if that path has an SST of STBYH) and that STS-1/VT1.5 enters an SST of WRK. If the redundant path is in a PST of OOS-MA or OOS-AUMA, no switching is attempted. When the STS-1 or its subordinate VT1.5s are in a pass through connection using 2WAY, a path AIS is sent in the pass through direction.

A RMV-STS1 command is denied if:

- The specified STS-1 is not previously provisioned (using the ENT-STS1 command).
- The specified STS-1 is already in an OOS-MA or OOS-AUMA state.
- The specified STS-1 is in a TRM, ACT or BUSY secondary state and the command is issued with MODE as NORM.
- The specified STS-1, which is embedded within a ring OC-3/OC-12, and the embedded STS-1 or VT1.5s have an SST of WRK, unless MODE=FRCD.
- An invalid parameter value is entered.

INPUT FORMAT

RMV-STS1: [TID] :AID: [CTAG] :: [MODE] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >		
	Default:	<SID>	
	Addressing:	None	
	Description:	Target Identifier, specifies the network node TID for the command.	
AID	STS1_AID:		
	{EC1STS1-{1-3840}}	(EC1STS1-EC1/STS1#)	
	{OC3STS1-{1-2240}-{1-3}}	(OC3STS1-OC3#-STS1#)	
	{OC12STS1-{1-560}-{1-4}-{1-3}}	(OC12STS1-OC12#-STM1#-STS1#)	
	Default:	Entry Required	
	Addressing:	&&-ranging and &-grouping	
	Description:	STS1 AID, identifies the STS-1 port.	
CTAG	< 1-6 VALID CTAG CHARACTERS >		
	Default:	< System assigned CTAG value >	
	Addressing:	None	
	Description:	Correlation Tag, associates input command with its output responses.	

MODE	{NORM, FRCD}
Default:	{NORM}
Addressing:	None
Description:	Command Execution Mode. Values are:
NORM	Normal. The command is denied if the STS-1 is terminated or cross connected (i.e., the STS-1 has an SST of TRM, ACT, or BUSY).
FRCD	Forced. The command is accepted even if the STS-1 is terminated or cross connected.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid
IIAC	Input, Invalid ACcess identifier
SAOS	Status, Already Out of Service
SDBE	Status, internal Data Base Error /* TP Database Error: <ERROR-STRING> for <AID-STRING> */ /* Error updating supported entities */ /* GetSptgTps(<TP-TYPE>, <RECORD-NUMBER>): <ERROR-STRING>*/
SNVS	Status, Not in Valid State /*Terminated or connected ports must be FRCD*/ /*The port or a VT1.5 is connected In-Service non-STBYH, must be FRCD*/
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, STS-1 port EC1STS1-21 placed in an OOS-MA state by executing a RMV-STS1 command.

```
RMV-STS1::EC1STS1-21;
```

RELATED COMMANDS

```

DLT-STS1
ED-STS1
ENT-STS1
RST-STS1
RTRV-DFLT-STS1
RTRV-STS1

```

SET-DFLT-STS1

COMMAND CODE: **RMV-STS3C**
COMMAND NAME: **REMOVE STS-3C**

PURPOSE

The RMV-STS3C command causes the specified STS-3C port to be placed in an OOS-MA or OOS-AUMA state.

Executing a RMV-STS3C command causes a state transition for the specified STS-3C from

- IS to OOS-MA
- OOS-AU to OOS-AUMA

When an STS-3C is in an OOS-MA state, the STS-3C continues to detect occurrence and clearing of failures (LOS, LOF, AIS) and once detected transits into and out of OOS-AUMA, FAF state, respectively. However, no alarms are sent/cleared in this event.

When an STS-3C is in an OOS-MA or OOS-AUMA state, all STS-3C transmission condition types are cleared and a MAN condition type is set for the specified STS-3C.

When an STS-3C is in an OOS-MA or OOS-AUMA state, no STS-3C transmission condition types or performance monitoring threshold crossing alerts are autonomously reported for the STS-3C, but STS-3C alarm conditions are monitored (retrievable using the RTRV-STS3C command) and performance monitoring data is collected (if provisioned for PM collection by the SET-PMODE-STS3C command) for the STS-3C.

A RMV-STS3C command is denied if:

- The specified STS-3C is not previously provisioned (using the ENT-STS3C command).
- The specified STS-3C is already in an OOS-MA or OOS-AUMA state.
- The specified STS-3C is in an ACT or BUSY secondary state and the command is issued with MODE as NORM.
- An invalid parameter value is entered.

INPUT FORMAT

RMV-STS3C: [TID] :AID: [CTAG] :: [MODE] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	STS3C_AID: {OC3STS3C-{1-2240}} (OC3STS3C-OC3#/STS3C#) {OC12STS3C-{1-560}-{1-4}} (OC12STS3C-OC12#-STM1/STS3C#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: STS3C AID, identifies the STS-3C port.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
MODE	{NORM, FRCD} Default: {NORM} Addressing: None Description: Command Execution Mode. Values are: NORM Normal. The command is denied if the STS-3C is cross connected (i.e., the STS-3C has an SST of ACT or BUSY). FRCD Forced. The command is accepted even if the STS-3C is cross connected.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid
IIAC	Input, Invalid ACcess identifier
SAOS	Status, Already Out of Service
SDBE	Status, internal Data Base Error
	/* TP Database Error: <ERROR-STRING> for <AID-STRING> */
SNVS	Status, Not in Valid State
	/* To remove a terminated port, CMDMDE must be FRCD*/
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, STS-3C port OC3STS3C-21 placed in an OOS-MA state by executing a RMV-STS3C command.

```
RMV-STS3C::OC3STS3C-21;
```

RELATED COMMANDS

```
DLT-STS3C
ED-STS3C
ENT-STS3C
RST-STS3C
RTRV-DFLT-STS3C
RTRV-STS3C
SET-DFLT-STS3C
```

COMMAND CODE: **RMV-T1**
COMMAND NAME: **REMOVE T1**

PURPOSE

The RMV-T1 command causes the specified DS1 port to be placed in an OOS-MA or OOS-AUMA state.

Executing a RMV-T1 command causes a state transition for the specified DS1 from

- IS to OOS-MA
- OOS-AU to OOS-AUMA

When a DS1 is in an OOS-MA or OOS-AUMA state, all DS1 transmission condition types are cleared and a MAN condition type is set for the specified DS1.

When a DS1 is in an OOS-MA or OOS-AUMA state, no DS1 transmission condition types or performance monitoring threshold crossing alerts are autonomously reported for the DS1, but DS1 alarm conditions are monitored (retrievable using the RTRV-T1 command) and performance monitoring data is collected (if provisioned for PM collection by the SET-PMODE-T1 command) for the DS1.

A RMV-T1 command is denied if:

- The specified DS1 is not previously provisioned (using the ENT-T1 command).
- The specified DS1 is already in an OOS-MA or OOS-AUMA state.
- The specified DS1 is cross-connected (it has an SST of ACT or BUSY), unless MODE of FRCD is used.
- The specified DS1 is in OOS-AU, AINS state.
- An invalid parameter value is entered.

INPUT FORMAT

RMV-T1 : [TID] : AID : [CTAG] : : [MODE] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >		
	Default:	<SID>	
	Addressing:	None	
	Description:	Target Identifier, specifies the network node TID for the command.	
AID	DS1_AID:		
	{T1-{1-59392}}	(T1-DS1#)	
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)	
	{EC1T1-{1-3840}-{1-28}}	(EC1T1-EC1/STS1/DS3#-DS1#)	
	{EC1T1-{1-3840}-{1-7}-{1-4}}	(EC1T1-EC1/STS1#-VTGrp#-VT1/DS1#)	
	{OC3T1-{1-2240}-{1-3}-{1-28}}	(OC3T1-OC3#-STS1/DS3#-DS1#)	
	{OC3T1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3T1-OC3#-STS1#-VTGrp#-VT1/DS1#)	
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}	(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)	
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	(OC12T1-OC12#-STM1#-STS1#-VTGrp#-VT1/DS1#)	
	Default:	Entry Required	
	Addressing:	&&-ranging and &-grouping	
	Description:	DS1 AID, identifies the DS1 port.	
CTAG	< 1-6 VALID CTAG CHARACTERS >		
	Default:	< System assigned CTAG value >	
	Addressing:	None	
	Description:	Correlation Tag, associates input command with its output responses.	

MODE	{NORM, FRCD}
Default:	{NORM}
Addressing:	None
Description:	Command Execution Mode. Values are:
NORM	Normal. The command is denied if the DS1 is cross-connected (the DS1 has an SST of ACT or BUSY).
FRCD	Forced. The command is accepted and parameter values are modified even if the DS1 is cross-connected.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid
IIAC	Input, Invalid ACcess identifier
SAOS	Status, Already Out of Service
SDBE	Status, internal Data Base Error
	/* TP Database Error: <ERROR-STRING> for <AID-STRING> */
SNVS	Status, Not in Valid State
	/* To remove a cross connected port, set CMDMDE = FRCD*/
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, DS1 port T3T1-15-21 placed in an OOS-MA state by executing a RMV-T1 command.

```
RMV-T1::T3T1-15-21;
```

RELATED COMMANDS

```

RTRV-T1
ENT-T1
ED-T1
RST-T1
DLT-T1
```

COMMAND CODE: **RMV-T3**
COMMAND NAME: **REMOVE T3**

PURPOSE

The RMV-T3 command causes the specified DS3 port to be placed in an OOS-MA or OOS-AUMA state.

Executing a RMV-T3 command causes a state transition for the addressed DS3 from

- IS to OOS-MA
- OOS-AU to OOS-AUMA (Note. RMV-T3 is denied if the specified DS3 is in an OOS-AU,AINS state.)

When a DS3 is in an OOS-MA or OOS-AUMA state, all DS3 transmission condition types are cleared and a MAN condition type is set for the specified DS3.

When a DS3 is in an OOS-MA or OOS-AUMA state, no DS3 transmission condition types or performance monitoring threshold crossing alerts are autonomously reported for the DS3, but DS3 alarm conditions are monitored (retrievable using the RTRV-T3 command) and performance monitoring data is collected (if provisioned for PM collection by the SET-PMODE-T3 command) for the DS3.

A RMV-T3 command is denied if:

- The specified DS3 has not previously been provisioned using the ENT-T3 command.
- The specified DS3 is already in an OOS-MA or OOS-AUMA state.
- The specified DS3 is in an OOS-AU,AINS state.
- Any of the specified DS3's embedded DS1s are cross-connected (the DS3 has an SST of TRM), unless MODE=FRCD is used.
- The specified DS3 is cross-connected (the DS3 has an SST of ACT or BUSY), unless MODE=FRCD is used.
- An invalid parameter value is entered.

I/O protection switching is disabled if all three DS3 ports supported by the I/O circuit pack are in an OOS-MA or OOS-AUMA state. I/O protection switching only occurs if at least one of the supporting DS3s on the supporting I/O circuit pack is provisioned to an IS or an OOS-AU state.

INPUT FORMAT

RMV-T3 : [TID] : AID : [CTAG] : : [MODE] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >		
	Default:	<SID>	
	Addressing:	None	
	Description:	Target Identifier, specifies the network node TID for the command.	
AID	DS3_AID:		
	{T3-{1-4800}}	(T3-DS3#)	
	{EC1T3-{1-3840}}	(EC1T3-EC1/STS1/DS3#)	
	{OC3T3-{1-2240}-{1-3}}	(OC3T3-OC3#-STS1/DS3#)	
	{OC12T3-{1-560}-{1-4}-{1-3}}	(OC12T3-OC12#-STM1#-STS1/DS3#)	
	Default:	Entry Required	
	Addressing:	&&-ranging and &-grouping	
	Description:	DS3 AID, identifies the DS3 port.	
CTAG	< 1-6 VALID CTAG CHARACTERS >		
	Default:	< System assigned CTAG value >	
	Addressing:	None	
	Description:	Correlation Tag, associates input command with its output responses.	

MODE	{FRCD, NORM}
Default:	{NORM}
Addressing:	None
Description:	Command Execution Mode. Values are:
FRCD	Forced. The command is accepted, unless the DS3 is in an OOS–AU,AINS state, even if a constituent DS1 or specified DS3 is cross–connected (the DS3 has an SST of TRM or ACT or BUSY).
NORM	Normal. The command is denied if the DS3 is in an IS or OOS–AU state and any constituent DS1s are cross–connected or the specified DS3 is cross–connected (the DS3 has an SST of TRM or ACT or BUSY).

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non–Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid
IIAC	Input, Invalid ACcess identifier
SAOS	Status, Already Out of Service
SDBE	Status, internal Data Base Error
	/* TP Database Error: <ERROR–STRING> for <AID–STRING> */
	/* Error updating supported T1s */
	/* Error updating supported F3s */
SNVS	Status, Not in Valid State
	/* To remove a terminated port, set CMDMDE = FRCD. */
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, DS3 port T3–21 is placed in an OOS–MA state by executing a RMV–T3 command.

```
RMV-T3::T3-21;
```

RELATED COMMANDS

```

RTRV-T3
ENT-T3
ED-T3
RST-T3
DLT-T3
```

COMMAND CODE: **RMV-VT1**
COMMAND NAME: **REMOVE VT1**

PURPOSE

The RMV-VT1 command causes the specified VT1.5 port to be placed in an OOS-MA or OOS-AUMA state.

Executing a RMV-VT1 command causes a state transition for the specified VT1.5 from

- IS to OOS-MA
- OOS-AU to OOS-AUMA

When a VT1.5 is in an OOS-MA or OOS-AUMA state, all VT1.5 transmission condition types are cleared and a MAN condition type is set for the specified VT1.5.

When a VT1.5 is in an OOS-MA or OOS-AUMA state, no VT1.5 transmission condition types or performance monitoring threshold crossing alerts are autonomously reported for the VT1.5, but VT1.5 alarm conditions are monitored (retrievable using the RTRV-VT1 command) and performance monitoring data is collected (if provisioned for PM collection by the SET-PMODE-VT1 command) for the VT1.5.

When a VT1.5 with an SST of WRK (refer to ENT-RNG-OC3 or ENT-RNG-OC12) is in an OOS state and the VT1.5 is path switched using 2WAYPR, the system selects the VT1.5 from the redundant ring OC-3/OC-12 (if that path has an SST of STBYH) and that VT1.5 enters an SST of WRK. If the redundant path is in a PST of OOS, no switching is attempted. When the VT1.5 is in a pass through connection using 2WAY, a path AIS is sent in the pass through direction.

A RMV-VT1 command is denied if:

- The specified VT1.5 is not previously provisioned (using the ENT-VT1 command).
- The specified VT1.5 is already in an OOS-MA or OOS-AUMA state.
- The specified VT1.5 is in a TRM, ACT or BUSY secondary state and the command is issued with MODE as NORM.
- The specified VT1.5, which is embedded within a ring OC-3/OC-12, and the embedded VT1.5 has an SST of WRK, unless MODE=FRCD.
- An invalid parameter value is entered.

INPUT FORMAT

RMV-VT1 : [TID] : AID : [CTAG] : : [MODE] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >		
	Default:	<SID>	
	Addressing:	None	
	Description:	Target Identifier, specifies the network node TID for the command.	
AID	VT1_AID:		
	{EC1VT1-{1-3840}-{1-7}-{1-4}}	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)	
	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)	
	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}		
	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)		
	Default:	Entry Required	
	Addressing:	&&-ranging and &-grouping	
	Description:	VT1 AID, identifies the VT1.5 port.	
CTAG	< 1-6 VALID CTAG CHARACTERS >		
	Default:	< System assigned CTAG value >	
	Addressing:	None	
	Description:	Correlation Tag, associates input command with its output responses.	

MODE	{NORM, FRCD}
Default:	{NORM}
Addressing:	None
Description:	Command Execution Mode. Values are:
NORM	Normal. The command is denied if the VT1.5 is terminated or cross connected (i.e. the VT1.5 has an SST of TRM, ACT or BUSY).
FRCD	Forced. The command is accepted even if the VT1.5 is terminated or cross connected.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid
IIAC	Input, Invalid ACcess identifier
SAOS	Status, Already Out of Service
SDBE	Status, internal Data Base Error
	/*TP Database Error: <ERROR-STRING> for <AID-STRING>*/
	/*Error updating supported T1*/
	/*GetSptgTps(<TP-TYPE>, <RECORD-NUMBER>): <ERROR-STRING>*/
SNVS	Status, Not in Valid State
	/*Terminated or connected ports must be FRCD*/
	/*The port is connected In-Service non-STBYH, must be FRCD*/
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, VT1.5 port EC1VT1-21-7-4 placed in an OOS-MA state by executing a RMV-VT1 command.

```
RMV-VT1::EC1VT1-21-7-4;
```

RELATED COMMANDS

```

RTRV-VT1
ENT-VT1
ED-VT1
RST-VT1
DLT-VT1
```


COMMAND CODE: **RPGM-EQPT**
COMMAND NAME: **REPROGRAM EQUIPMENT**

PURPOSE

The RPGM-EQPT command reprograms (downloads) the Flash EEPROM (read/write non-volatile memory) on the specified MCB equipment with the appropriate application software, or application software and embedded firmware, from the system disk. RPGM-EQPT allows the application software and embedded firmware for these circuit packs to be upgraded (during a software generic upgrade, if necessary) without physically removing or modifying the circuit pack.

To execute a RPGM-EQPT command, the specified equipment entity must be installed and provisioned to an out-of-service state (has a PST of OOS-MA and does not have a SST of UEQ or UAS).

A RPGM-EQPT command is denied if:

- The specified equipment entity is not installed (has a SST of UEQ) or not provisioned (has SST of UAS).
- The specified equipment entity is not in an out-of-service state (has a PST of IS or IS-ANR).
- The reprogram operation cannot be executed due to a system hardware failure or because the appropriate files are not on the system disk.
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RPGM-EQPT: [TID] :AID: [CTAG] : :TYPE;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	EQUIPMENT_AID: {MCB-{2,3}-3-1} {MCB-{5}-{1, 3}-{1}} Default: Entry Required Addressing: None Description: Equipment AID, identifies the equipment entity. Refer to Appendix B, Access Identifiers (AIDs) for a definition of equipment mnemonics.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
TYPE	{ALL, APPS} Default: Entry Required Addressing: None Description: Type of software/firmware to be reprogrammed. Values are: ALL All, reprogram the embedded firmware and the application software. APPS Application Software, reprogram the application software only.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  /* The RPGM-EQPT for <AID> was completed. */
  /* The RPGM-EQPT for <AID> was completed with errors. */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;
```

UNSUCCESSFUL RESPONSE FORMAT

```

    <SID> <YY-MM-DD> <HH:MM:SS>
M  <CTAG> DENY
    <ERROR CODE>
    [/* <Informational Error Description Text> */]
    [/* <Expanded Error Code Description> */]
    [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

ENRE	Equipage, Not Recognized Equipage /* Invalid or unassigned equipment identifier specified. */
IDNC	Input, Data Not Consistent /* Unable to read aux buffer for <AID>. */
IDNV	Input, Data Not Valid /* The RPGM-EQPT was rejected. */ /* Requested TYPE parameter in command is not valid. */
IIAC	Input, Invalid ACcess identifier /* The command was rejected. */ /* Command not supported for this equipment. */ /* Invalid or unassigned equipment identifier specified. */
IPMS	Input, Parameter MiSsing /* The RPGM-EQPT was rejected. */ /* TYPE parameter not specified in command. */
SARB	Status, All Resources Busy /* The command was rejected. */ /* Command already in progress on equipment. */ /* Automatic system configuration active on equipment. */ /* INIT-SYS command still active on shelf that equipment is on. */ /* Automatic configuration (database download) of parent processor in progress. */ /* Level 2 processor software download in progress. Try again later. */
SDBE	Status, internal Data Base Error /* Invalid or unassigned equipment identifier specified. */ /* The command was rejected. */ /* Data base access failure. */ /* Error accessing auxiliary EM data area. */
SNVS	Status, Not in Valid State /* Command not valid for current state of equipment. */ /* The RMV-EQPT for <AID> was rejected. */
SROF	Status, Requested Operation Failed /* The RPGM-EQPT for <AID> was rejected. */ /* The firmware version loaded already matches the disk. */ /* The equipment was not reprogrammed successfully. */ /* The command was aborted. */ /* Auto system action caused override. */
SSRE	Status, System Resources Exceeded /* The command was rejected. */ /* Unable to allocate USI response buffer. */

EXAMPLES

In the following example, the application software in the Flash EPROM of MCB-2-3-1 is reprogrammed.

```
RPGM-EQPT::MCB-2-3-1:::APPS;
```

RELATED COMMANDS

ED-EQPT

INIT-SYS

RMV-EQPT

RST-EQPT

RTRV-EQPT

RTRV-STATE-EQPT

COMMAND CODE: **RST-CID**
COMMAND NAME: **RESTORE COMMUNICATIONS
INTERFACE DEVICE**

PURPOSE

The RST-CID command restores the specified CPORT and any associated specified X.25 virtual channels to service. The restored CPORT is configured with the provisioning contained in the system's CID (Communications Interface Device) configuration database for the specified CPORT (refer to the ENT-CID and ED-CID commands).

The RST-CID command can be executed while in the Limited Command Execution mode (i.e., after execution of a STOP-OPS command)..

If the specified CPORT or virtual channel is provisioned for automatic UID login and the CPORT is connected to a terminal, the provisioned UID is automatically logged-in upon completion of the restoral.

On successful completion of this command on the CID that is configured as the LAN on the ICM module, the lower layer parameters specific to the LAN on the working ICM and the parameters pertaining to the enabled Static, RIP and OSPF routers are initialized.

A RST-CID command is denied if:

- The specified CPORT has not previously been provisioned (via ENT-CID).
- The CPORT has not been logically removed (via a RMV-CID).
- A VCNUM value of {1-8} is entered and the CPORT's PROTOCOL parameter (refer to ENT-CID and ED-CID commands) is not set to X25.
- A value for VCNUM is entered and the specified CPORT refers to a LAN on the ICM.
- System is in Limited Command Execution mode, and CPORT other than 3, 5, 7, 9 or 11 is specified.
- System is in Limited Command Execution mode, and a value for VCNUM is entered.
- An invalid parameter value is entered.

INPUT FORMAT

RST-CID: [TID] : CPORT, [VCNUM] : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >	
	Default:	<SID>
	Addressing:	None
	Description:	Target Identifier, specifies the network node TID for the command.
CPORT	{1-12}	
	Default:	Entry Required
	Addressing:	None
	Description:	Control Port, specifies the physical communication port number on the APS control system.
VCNUM	{1-8}	
	Default:	<All applicable provisioned virtual channels>
	Addressing:	None
	Description:	Virtual Channel Number, specifies the X.25 virtual channel within the specified CPORT.
	Restrictions:	RST-CID is denied if VCNUM of {1-8} is entered and the CPORT's PROTOCOL parameter (refer to ENT-CID and ED-CID commands) is not set to X25. RST-CID is denied if a value for VCNUM is entered and the specified CPORT refers to a LAN on the ICM. RST-CID is denied if a value for VCNUM is entered while in the Limited Command Execution mode.

CTAG	<1-6 VALID CTAG CHARACTERS>
Default:	<System Assigned CTAG Value>
Addressing:	None
Description:	Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID [-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Optional Suggested Action Text> */]
  [/ * <Command Echo> [<CTAG>] (<CID [-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid
IPNV	Input, Parameter Not Valid
	/* Invalid CID <CPORT> entered */
	/* CID <CPORT> does not exist */
	/* X25 vc <VCNUM> does not exist */
SDBE	Status, internal Data Base Error
SROF	Status, Requested Operation Failed
	/* port must be restored before vc */
	/* Unable to restore due to EQPT error */
	/* Cannot restore yourself */
	/* This CID is pending removal */
	/* This CID <CPORT> is in a RUNNING state */
	/* This X.25 vc is in a RUNNING state */

EXAMPLES

In the following example, CPORT 3 is logically restored.

```
RST-CID::3;
```

RELATED COMMANDS

```
DLT-CID
DLT-CID-VC
DLT-OSADDR-SITE
ED-CID
ED-CID-OSPORT
ED-CID-VC
ED-IP-PRMTR
ED-IP-STATICRT
```

ED-LLLAN
ED-LLLDCC
ED-LLSDCC
ED-OSADDR-SITE
ED-PRMTR-SITE
ED-RIP-PRMTR
ENT-CID
ENT-CID-VC
ENT-EQPT
ENT-IP-STATICRT
ENT-OSADDR-SITE
RMV-CID
RTRV-CID
RTRV-EQPT
RTRV-OSADDR-SITE
RTRV-PRMTR-SITE
START-CID
STOP-CID
STOP-OPS

COMMAND CODE: **RST-EC1**
COMMAND NAME: **RESTORE EC1**

PURPOSE

The RST-EC1 command causes an EC1 port to be placed in an IS or OOS-AU state.

Executing an RST-EC1 command causes a state transition for the specified EC1 from

- OOS-MA to IS
- OOS-AUMA to OOS-AU

When an EC1 is provisioned from the OOS-MA or OOS-AUMA to an IS or OOS-AU state, a MAN condition type is cleared, any existing EC1 condition types are set, and performance monitoring threshold crossing alerts are enabled (if provisioned for PM collection by the SET-PMODE-EC1 command) for the specified EC1.

A RST-EC1 command is denied if:

- The specified EC1 is not previously provisioned (using the ENT-EC1 command).
- The specified EC1 is not in an OOS-MA or OOS-AUMA state.
- The specified EC1 is in a loopback (it has an SST of LPBK).
- An invalid parameter value is entered.

INPUT FORMAT

RST-EC1 : [TID] : AID : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	EC1_AID: {EC1-{1-3840} } (EC1-EC1/STS1#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: EC1 AID, identifies the EC1 port.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
SAIS	Status, Already In Service
SDBE	Status, internal Data Base Error /* TP Database Error: <ERROR-STRING> for <AID-STRING> */ /* Error updating supported STS1 */
SNVS	Status, Not in Valid State
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, EC1 port EC1-15 is placed in an IS state by executing a RST-EC1 command.

```
RST-EC1::EC1-15;
```

RELATED COMMANDS

```
RTRV-EC1  
ENT-EC1  
ED-EC1  
RMV-EC1  
DLT-EC1
```

COMMAND CODE: **RST-EQPT**
COMMAND NAME: **RESTORE EQUIPMENT**

PURPOSE

The RST-EQPT command causes the specified equipment entity to be placed in an IS, IS-ANR, or OOS-AU state (the command logically restores the equipment entity to equipment specific alarm reporting service).

Upon execution of a RST-EQPT command, an off-line diagnostic test is executed and any applicable firmware (except for a MCB), software and provisioning data is downloaded before the equipment is placed in-service. If MODE of NORM is entered and the download fails, the RST-EQPT command is denied. If MODE of NORM or FRCD is entered and the diagnostic test fails, the RST-EQPT command is completed, the equipment entity transitions to the appropriate state, and an equipment specific failure condition type is set. If a CIM, CPU, DSK, SIO, or SPB equipment entity is specified and a MODE of FRCD is entered and any download fails, the RST-EQPT command is denied (MODE of FRCD is treated the same as a MODE of NORM for a CIM, CPU, DSK, SIO, or SPB equipment entity). If MODE of FRCD is entered and an equipment entity other than a CIM, CPU, DSK, SIO, or SPB is specified and the download fails, the command is completed and an equipment specific condition type is set for the failed equipment entity.

Executing a RST-EQPT command causes the following state transition for the specified equipment, provided the indicated state is supported by the specified equipment. Secondary states associated with the equipment entity before and after the command is executed depend upon events detected by the system. Refer to Appendix G, State Transitions for additional information on state values and state transitions for each type of equipment entity.

- OOS-AU to OOS-AU (if equipment fails diagnostic tests and fails to download)
- OOS-AU to IS-ANR (if equipment fails diagnostic tests but downloads)
- OOS-AU to OOS-AU (if equipment fails diagnostic tests and fails to download)
- OOS-AUMA to OOS-AU
- OOS-MA to IS (if equipment passes diagnostic tests and downloads)
- OOS-MA to IS-ANR (if equipment fails diagnostic tests but downloads)
- OOS-MA to OOS-AU (if equipment fails diagnostic tests and fails to download)

When the specified equipment entity is restored to an IS, IS-ANR, or OOS-AU state, a MAN condition type is cleared. An IMPROPRMVL condition type is set for the specified equipment entity if the specified equipment is not installed in the system. If the specified equipment is installed in the system but is partially or totally failed, an equipment specific condition type is set for the specified equipment entity.

When the DSB is successfully restored to a PST of IS with the RST-EQPT command, all of the upper layer parameters and specific lower layer parameters are initialized.

If an AID for an DSI, EP3, ES1, HMU, LMU, O1B, M16, or M32 circuit pack is specified and it has an SST of MT, a TSA condition type is cleared for the specified DSI, EP3, ES1, HMU, LMU, O1B, M16, or M32.

Refer to Appendix C, Condition Types for a list and definition of condition types.

A RST-EQPT command is denied if:

- The specified equipment entity has not previously been provisioned with the ENT-EQPT command.
- The specified equipment entity is already in an IS or IS-ANR state.
- An O1B circuit pack is specified and it has an SST of MT and any of the supported STS-1 ports or embedded VT1.5 ports are in a loop back (an STS-1 or VT1.5 state of OOS-AUMA,UAS&MT&LPBK).
- An EP3 circuit pack is specified and it has an SST of MT and any of the supported DS3 ports or embedded DS1 ports are in a loop back (a DS3 or DS1 state of OOS-AUMA,UAS&MT&LPBK).
- An ES1 circuit pack is specified and it has an SST of MT and any of the supported STS1 ports or embedded VT1.5 ports are in a loopback (an STS-1 or VT1.5 state of OOS-AUMA,UAS&MT&LPBK).
- A DSI circuit pack is specified and it has an SST of MT and any of the supported DS1 ports are in a loopback (a DS1 state of OOS-AUMA,UAS&MT&LPBK).
- A HMU/LMU circuit pack is specified and it has an SST of MT and any of the supported DS3 ports or embedded DS1 ports are in a loopback (a DS3 or DS1 state of OOS-AUMA,UAS&MT&LPBK).
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RST-EQPT: [TID] : AID: [CTAG] :: [MODE] ;

INPUT PARAMETERS

TID	<p><1-20 VALID TID CHARACTERS></p> <p>Default: <SID></p> <p>Addressing: None</p> <p>Description: Target Identifier, specifies the network node TID for the command.</p>
AID	<p>EQUIPMENT_AID:</p> <p>{ACM-1-2-{3-7, 10-14}}</p> <p>{CDA-{4, 5, 10, 11, 16, 17, 22, 23, 102, 103}-3-1}</p> <p>{CDB-{5}-{1, 3}-{1, 2}}</p> <p>CDB-{2-43,104-111,112-135,136-141}-{1, 3}-{1, 2}</p> <p>{SI36: CDB-{6-9, 12-15, 18-21, 24-43}-{1, 3}-{1-2},</p> <p>{SI48: CDB-{2-43,104-111,112-135,136-141}-{1, 3}-{1, 2}</p> <p>{CIM-1-2-{3-7, 10-14}}</p> <p>{CPU-1-2-{1-2}}</p> <p>{DSB-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{1-2}}</p> <p>{DSI-{44-63}-{1-4}-{1-32}}</p> <p>{DSK-1-3-1,</p> <p>DSK-1-4-2}</p> <p>{EOB-{5}-{1, 3}-{1-5}}</p> <p>{SI48: EOB-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{1-2},</p> <p>EOC: EOB-{4-5, 10-11, 16-17, 22-23, 102, 103}-1-{1-7, 9-15}}</p> <p>{SI48: EP3-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42,</p> <p>104-106,108-110, 136-141}-{1, 3}-{1-18},</p> <p>EP3-{9, 21, 35, 43, 107}-3-{1-18},</p> <p>EP3-{15, 27, 31, 39, 111}-1-{1-18}}</p> <p>{SI36: EP3-{6-8, 12-14}-{1, 3}-{1-14},</p> <p>EP3-9-3-{1-14},</p> <p>EP3-15-1-{1-14}}</p> <p>{SI48: ES1-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42,</p> <p>104-106,108-110,136-141}-{1, 3}-{1-18},</p> <p>ES1-{9, 21, 35, 43,107}-3-{1-18},</p> <p>ES1-{15, 27, 31, 39,111}-1-{1-18}}</p> <p>{SI36: ES1-{6-8, 12-14}-{1, 3}-{1-14},</p> <p>ES1-9-3-{1-14},</p> <p>ES1-15-1-{1-14}}</p> <p>{HMU-{44-53}-{1-4}-{1-8}}</p> <p>{ICM-1-2-{1, 2, 8, 9}}</p> <p>{IOB-{6-8, 12-14}-{1, 3}-{1, 3, 5, 7},</p> <p>IOB-9-3-{1, 3, 5, 7},</p> <p>IOB-15-1-{1, 3, 5, 7}}</p> <p>{IPB-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{1-2}}</p> <p>{IPU-{44-63}-{1-4}-{1-8}}</p> <p>{LMU-{44-53}-{1-4}-{1-32}}</p> <p>{M16-{2-5, 10-11, 16-17, 22-23}-3-{1-16}}</p> <p>{M32-{4-5, 10-11, 16-17, 22-23, 102, 103}-3-{1-16},</p> <p>M32-{5}-{1, 3}-{1-3, 6-8}}</p> <p>{M40-{2-3}-{1, 3}-{1-16}}</p> <p>{M40-{5}-{1, 3}-{4, 5, 9, 10}}</p> <p>{MCB-{2,3}-3-1}</p>

{MCB-{5}-{1, 3}-{1}}
 {O1B-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{2-9, 11-18}}
 {O4M-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{2-3, 11-12}}
 {OXB-{44-63}-{1-4}-{1-2}}
 {P39-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-3},
 P39-{4, 5, 10, 11, 16, 17, 22, 23, **102, 103**}-1-{1-3},
 P39-{4, 5, 10, 11, 16, 17, 22, 23, **102, 103**}-3-{1-4},
 P39-{5}-{1, 3}-{1-4}}
 {P56-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-5},
 P56-{2-3}-{1, 3}-{1-4},
 P56-{4, 5, 10, 11, 16, 17, 22, 23, **102, 103**}-1,3-{1-5},
 P56-{5}-{1, 3}-{1-4}}
 {PSF-1-{3, 4}-{1, 2},
 PSF-{44-63}-{1-4}-{1-2}}
 {RPB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2}}
 {S3M-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{4-9, 13-18}}
 {SIO-1-2-{1-2, 8-9}}
 {SPB-{2-43, **102-111**, 112-135, **136-141**}-{1, 3}-{1-2}}
 {SPB-{5}-{1, 3}-{1, 2}}
Default: Entry Required
Addressing: None
Description: Equipment AID, identifies the equipment entity. Refer to Appendix B, Access Identifiers (AIDs) for a definition of equipment mnemonics.

CTAG <1-6 VALID CTAG CHARACTERS>
Default: <System Assigned CTAG Value>
Addressing: None
Description: Correlation Tag, associates input command with its output responses.

MODE {FRCD, NORM}
Default: {NORM}
Addressing: None
Description: Command Execution Mode. Values are:
 FRCD Forced. The command is completed regardless if diagnostic tests on the entity fail.
 NORM Normal. The command is denied if diagnostic tests on the entity fail.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* The RST-EQPT for <AID> was completed. */]
  [/* The RST-EQPT for <AID> was completed with errors. */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

AID EQUIPMENT_AID:
 {ACM-1-2-{3-7, 10-14}}
 {CDA-{4, 5, 10, 11, 16, 17, 22, 23, **102, 103**}-3-1}
 {CDB-{5}-{1, 3}-{1, 2}}
 CDB-{2-43,**104-111**,112-135,**136-141**}-{1, 3}-{1, 2}
 {SI36: CDB-{6-9, 12-15, 18-21, 24-43}-{1, 3}-{1-2},
 {SI48: CDB-{2-43,**104-111**,112-135,**136-141**}-{1, 3}-{1, 2}}

{CIM-1-2-{3-7, 10-14}}
 {CPU-1-2-{1-2}}
 {DSB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2}}
 {DSI-{44-63}-{1-4}-{1-32}}
 {DSK-1-3-1,
 DSK-1-4-2}
 {EOB-{5}-{1, 3}-{1-5}}
 {SI48: EOB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2},
 EOC: EOB-{4-5, 10-11, 16-17, 22-23, **102, 103**}-1-{1-7, 9-15}}
 {SI48: EP3-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42,
 104-106, 108-110, 136-141}-{1, 3}-{1-18},
 EP3-{9, 21, 35, 43, **107**}-3-{1-18},
 EP3-{15, 27, 31, 39, **111**}-1-{1-18}}
 {SI36: EP3-{6-8, 12-14}-{1, 3}-{1-14},
 EP3-9-3-{1-14},
 EP3-15-1-{1-14}}
 {SI48: ES1-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42,
 104-106, 108-110, 136-141}-{1, 3}-{1-18},
 ES1-{9, 21, 35, 43, **107**}-3-{1-18},
 ES1-{15, 27, 31, 39, **111**}-1-{1-18}}
 {SI36: ES1-{6-8, 12-14}-{1, 3}-{1-14},
 ES1-9-3-{1-14},
 ES1-15-1-{1-14}}
 {HMU-{44-53}-{1-4}-{1-8}}
 {ICM-1-2-{1, 2, 8, 9}}
 {IOB-{6-8, 12-14}-{1, 3}-{1, 3, 5, 7},
 IOB-9-3-{1, 3, 5, 7},
 IOB-15-1-{1, 3, 5, 7}}
 {IPB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2}}
 {IPU-{44-63}-{1-4}-{1-8}}
 {LMU-{44-53}-{1-4}-{1-32}}
 {M16-{2-5, 10-11, 16-17, 22-23}-3-{1-16}}
 {M32-{4-5, 10-11, 16-17, 22-23, **102, 103**}-3-{1-16},
 M32-{5}-{1, 3}-{1-3, 6-8}}
 {M40-{2-3}-{1, 3}-{1-16}}
 {M40-{5}-{1, 3}-{4, 5, 9, 10}}
 {MCB-{2,3}-3-1}
 {MCB-{5}-{1, 3}-{1}}
 {O1B-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{2-9, 11-18}}
 {O4M-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{2-3, 11-12}}
 {OXB-{44-63}-{1-4}-{1-2}}
 {P39-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-3},
 P39-{4, 5, 10, 11, 16, 17, 22, 23, **102, 103**}-1-{1-3},
 P39-{4, 5, 10, 11, 16, 17, 22, 23, **102, 103**}-3-{1-4},
 P39-{5}-{1, 3}-{1-4}}
 {P56-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-5},
 P56-{2-3}-{1, 3}-{1-4},
 P56-{4, 5, 10, 11, 16, 17, 22, 23, **102, 103**}-1,3-{1-5},
 P56-{5}-{1, 3}-{1-4}}
 {PSF-1-{3, 4}-{1, 2},
 PSF-{44-63}-{1-4}-{1-2}}
 {RPB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2}}
 {S3M-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{4-9, 13-18}}
 {SIO-1-2-{1-2, 8-9}}

{SPB-{2-43, **102-111**, 112-135, **136-141**}-{1, 3}-{1-2}}
{SPB-{5}-{1, 3}-{1, 2}}
Equipment AID, identifies the equipment entity.

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

ENRE	Equipage, Not Recognized Equipage /* Invalid or unassigned equipment identifier specified. */
IDNC	Input, Data Not Consistent /* Unable to read aux buffer for <AID>. */
IIAC	Input, Invalid ACcess identifier /* An invalid module type specified in request. */ /* The command was rejected. */ /* Invalid or unassigned equipment identifier specified. */ /* Invalid AID for <AID> */ /* Invalid AID for the given slot. */ /* SHELF has been provisioned the PBTYPE as <CARD_TYPE>. */ /* Invalid AID specified. */
SARB	Status, All Resources Busy /* Command already in progress on equipment. */ /* Automatic system configuration active on equipment. */ /* INIT-SYS command still active on shelf that equipment is on. */ /* Automatic configuration (database download) of parent processor in progress. */ /* Level 2 processor software download in progress. Try again later.*/
SATF	Status, Automatic Test Failed /* The module failed software loading */ /* The module failed due to a firmware mismatch */ /* The module failed diagnostic testing */ /* Unexpected diag response message for <AID> */ /* TMG-0 not available on MCB */ /* TMG-1 not available on MCB */
SCSN	Status, invalid Command SequenCe /* In service growth Loopbacks on supported facilities must first be released */

SDBE	<p>Status, internal Data Base Error</p> <p>/* Invalid or unassigned equipment identifier specified. */</p> <p>/* <CARD_TYPE> data base access failure. */</p> <p>/* <AID> database update error */</p> <p>/* Error reading database for card <AID>. */</p> <p>/* Error reading database for <AID>. */</p> <p>/* Error accessing auxiliary buffer for card <AID>. */</p> <p>/* Error updating database for card <AID>. */</p> <p>/* Error updating database for <AID> */</p> <p>/* Error accessing MCB database. */</p> <p>/* Error <error number> reading facility data base */</p> <p>/* Unable to read the DCC database. */</p> <p>/* Error accessing auxiliary EM data area for <AID>. */</p> <p>/* Error accessing database for mate mcb <AID>. */</p>
SNVS	<p>Status, Not in Valid State</p> <p>/* Command not valid for current state of equipment. */</p> <p>/* Command not valid for current state <state number> for card <AID>. */</p> <p>/* Unexpected message from APU Diagnostics. */</p>
SROF	<p>Status, Requested Operation Failed</p> <p>/* Invalid module type present. */</p> <p>/* Did not receive a response from parent processor card */</p> <p>/* Warning: Did not receive a response from SPB card */</p> <p>/* Unexpected card type <card_type> in response message from diagnostics. */</p> <p>/* Switchover request failed. */</p> <p>/* Auto system action caused override. */</p> <p>/* The CDB's on <AID> can not switch. */</p> <p>/* IO <AID> can not switch. */</p> <p>/* <AID> can not switch. */</p> <p>/* No response from the IPB. */</p> <p>/* Error reading CDB clock copy table – <AID> not found. */</p> <p>/* <AID> is OOS–AU,UAS. */</p> <p>/* Error accessing data base for <AID>. */</p> <p>/* <AID> is not IS. */</p> <p>/* <AID> is OOS.*/</p> <p>/* <AID> is not powered. */</p> <p>/* <AID> has been Deleted. */</p> <p>/* Error reading aux buffer for <AID>. */</p> <p>/* Error reading Database for <AID>. */</p> <p>/* <AID> has a SYNC 166 error. */</p> <p>/* Unrecognized slot in AID <AID>. */</p> <p>/* SELECT–COPY has locked the matrix to<AID>. */</p>
SWFA	<p>Status, Working unit Failed</p> <p>/* <AID> has failed. */</p>

EXAMPLES

In the following example, EP3–6–1–2 is placed in an IS, IS–ANR, or OOS–AU state, depending on the results of diagnostic tests and software download, by executing a RST–EQPT command.

```
RST-EQPT: :EP3-6-1-2;
```

RELATED COMMANDS

```
DLT-EQPT
ED-EQPT
ENT-EQPT
```


RMV-EQPT
RTRV-EQPT
RTRV-STATE-EQPT

COMMAND CODE: **RST-OC12**
COMMAND NAME: **RESTORE OC-12**

PURPOSE

The RST-OC12 command causes an OC-12 port to be placed in an IS or OOS-AU state.

Executing an RST-OC12 command causes a state transition for the specified OC-12 from

- OOS-MA to IS
- OOS-AUMA to OOS-AU

When an OC-12 is provisioned from the OOS-MA or OOS-AUMA to an IS or OOS-AU state, a MAN condition type is cleared, any existing OC-12 condition types are set, and performance monitoring threshold crossing alerts are enabled (if provisioned for PM collection by the SET-PMMODE-OC12 command) for the specified OC-12.

An RST-OC12 command is denied if:

- The specified OC-12 is not previously provisioned (with the ENT-OC12 command).
- The specified OC-12 is not in an OOS-MA or OOS-AUMA state.
- The specified OC-12 is in a loopback (it has an SST of LPBK).
- An invalid parameter value is entered.

On successful completion of this command on an OC-12, if the specified OC-12 or its mate has a LOCKOUT condition set due to excessive protection switching, then it will be cleared.

INPUT FORMAT

RST-OC12: [TID] :AID: [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	OC12_AID: {OC12-{1-560}} (OC12-OC12#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: OC12 AID, identifies the OC-12 port.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
SAIS	Status, Already In Service
SDBE	Status, internal Data Base Error /* TP Database Error: <ERROR-STRING> for <AID-STRING> */ /* Error updating supported STS1s/STS3Cs */ /* FPP Database Error: <ERROR-STRING> for record number <RECORD-NUMBER> */
SNVS	Status, Not in Valid State
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, OC-12 port OC12-15 is placed in an IS state by executing an RST-OC12 command.

```
RST-OC12::OC12-15;
```

RELATED COMMANDS

RTRV-OC12
ENT-OC12
ED-OC12
RMV-OC12
DLT-OC12

COMMAND CODE: **RST-OC3**
COMMAND NAME: **RESTORE OC-3**

PURPOSE

The RST-OC3 command causes an OC-3 port to be placed in an IS or OOS-AU state.

Executing an RST-OC3 command causes a state transition for the specified OC-3 from

- OOS-MA to IS
- OOS-AUMA to OOS-AU

When an OC-3 is provisioned from the OOS-MA or OOS-AUMA to an IS or OOS-AU state, a MAN condition type is cleared, any existing OC-3 condition types are set, and performance monitoring threshold crossing alerts are enabled (if provisioned for PM collection by the SET-PMODE-OC3 command) for the specified OC-3.

An RST-OC3 command is denied if:

- The specified OC-3 is not previously provisioned (with the ENT-OC3 command).
- The specified OC-3 is not in an OOS-MA or OOS-AUMA state.
- The specified OC-3 is in a loopback (it has an SST of LPBK).
- An invalid parameter value is entered.

On successful completion of this command on an OC-3, if the specified OC-3 or its mate has a LOCKOUT condition set due to excessive protection switching, then it will be cleared.

INPUT FORMAT

RST-OC3 : [TID] : AID : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	OC3_AID: {OC3-{1-2240}} (OC3-OC3#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: OC3 AID, identifies the OC-3 port.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
SAIS	Status, Already In Service
SDBE	Status, internal Data Base Error /* TP Database Error: <ERROR-STRING> for <AID-STRING> */ /* Error updating supported STS1s/STS3Cs */ /* FPP Database Error: <ERROR-STRING> for record number <RECORD-NUMBER> */
SNVS	Status, Not in Valid State
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, OC-3 port OC3-15 is placed in an IS state by executing an RST-OC3 command.

```
RST-OC3::OC3-15;
```

RELATED COMMANDS

RTRV-OC3
ENT-OC3
ED-OC3
RMV-OC3
DLT-OC3

COMMAND CODE: **RST-STS1**
COMMAND NAME: **RESTORE STS-1**

PURPOSE

The RST-STS1 command causes the specified STS-1 port to be placed in an IS or OOS-AU state.

Executing an RST-STS1 command causes a state transition for the specified STS-1 from

- OOS-MA to IS
- OOS-AUMA to OOS-AU

When an STS-1 is provisioned from an OOS-MA or OOS-AUMA to an IS or OOS-AU state, a MAN condition type is cleared, any existing STS-1 condition types are set, and performance monitoring threshold crossing alerts are enabled (if provisioned for PM collection by the SET-PMMODE-STS1 command) for the specified STS-1.

A RST-STS1 command is denied if:

- The specified STS-1 is not provisioned (using the ENT-STS1 command).
- The specified STS-1 is not in an OOS-MA or OOS-AUMA state.
- The specified STS-1 is in a loopback (the STS-1 has an SST of LPBK).
- An invalid parameter value is entered.

INPUT FORMAT

RST-STS1: [TID] :AID: [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	STS1_AID: {EC1STS1-{1-3840}} (EC1STS1-EC1/STS1#) {OC3STS1-{1-2240}-{1-3}} (OC3STS1-OC3#-STS1#) {OC12STS1-{1-560}-{1-4}-{1-3}} (OC12STS1-OC12#-STM1#-STS1#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: STS1 AID, identifies the STS-1 port.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
SAIS	Status, Already In Service
SDBE	Status, internal Data Base Error /* TP Database Error: <ERROR-STRING> for <AID-STRING> */ /* Error updating supported entities */
SNVS	Status, Not in Valid State
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, STS-1 port EC1STS1-21 is placed in an IS state by executing a RST-STS1 command.

```
RST-STS1::EC1STS1-21;
```

RELATED COMMANDS

DLT-STS1
ED-STS1
ENT-STS1
RMV-STS1
RTRV-STS1

COMMAND CODE: **RST-STS3C**
COMMAND NAME: **RESTORE STS-3C**

PURPOSE

The RST-STS3C command causes the specified STS-3C port to be placed in an IS or OOS-AU state.

Executing a RST-STS3C command causes a state transition for the specified STS-3C from

- OOS-MA to IS
- OOS-AUMA to OOS-AU

When an STS-3C is provisioned from an OOS-MA or OOS-AUMA to an IS or OOS-AU state, a MAN condition type is cleared, any existing STS-3C condition types are set, and performance monitoring threshold crossing alerts are enabled (if provisioned for PM collection by the SET-PMODE-STS3C command) for the specified STS-3C.

A RST-STS3C command is denied if:

- The specified STS-3C is not provisioned (using the ENT-STS3C command).
- The specified STS-3C is already in an IS or OOS-AU state.
- An invalid parameter value is entered.

INPUT FORMAT

RST-STS3C: [TID] :AID: [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	STS3C_AID: {OC3STS3C-{1-2240}} (OC3STS3C-OC3#/STS3C#) {OC12STS3C-{1-560}-{1-4}} (OC12STS3C-OC12#-STM1/STS3C#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: STS3C AID, identifies the STS-3C port.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
SAIS	Status, Already In Service
SDBE	Status, internal Data Base Error /* TP Database Error: <ERROR-STRING> for <AID-STRING> */
SNVS	Status, Not in Valid State
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, STS-3C port OC3STS3C-2 is placed in an IS state by executing a RST-STs3C command.

```
RST-STs3C::OC3STS3C-2;
```

RELATED COMMANDS

DLT-STs3C
ED-STs3C
ENT-STs3C
RMV-STs3C
RTRV-STs3C

COMMAND CODE: **RST-T1**
COMMAND NAME: **RESTORE T1**

PURPOSE

The RST-T1 command causes a DS1 port to be placed in an IS or OOS-AU state.

Executing an RST-T1 command causes a state transition for the specified DS1 from

- OOS-MA to IS
- OOS-AUMA to OOS-AU

When a DS1 is provisioned from the OOS-MA or OOS-AUMA to an IS or OOS-AU state, a MAN condition type is cleared, any existing DS1 condition types are set, and performance monitoring threshold crossing alerts are enabled (if provisioned for PM collection by the SET-PMODE-T1 command) for the specified DS1.

A RST-T1 command is denied if:

- The specified DS1 is not previously provisioned (using the ENT-T1 command).
- The specified DS1 is not in an OOS-MA or OOS-AUMA state.
- The specified DS1 is in a loopback (it has an SST of LPBK).
- The specified DS1 is a Test Access port.
- An invalid parameter value is entered.

INPUT FORMAT

RST-T1: [TID] :AID: [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >	
	Default:	<SID>
	Addressing:	None
	Description:	Target Identifier, specifies the network node TID for the command.
AID	DS1_AID:	
	{T1-{1-59392}}	(T1-DS1#)
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)
	{EC1T1-{1-3840}-{1-28}}	(EC1T1-EC1/STS1/DS3#-DS1#)
	{EC1T1-{1-3840}-{1-7}-{1-4}}	(EC1T1-EC1/STS1#-VTGrp#-VT1/DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-28}}	(OC3T1-OC3#-STS1/DS3#-DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3T1-OC3#-STS1#-VTGrp#-VT1/DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}	(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	(OC12T1-OC12#-STM1#-STS1#-VTGrp#-VT1/DS1#)
	Default:	Entry Required
	Addressing:	&&-ranging and &-grouping
	Description:	DS1 AID, identifies the DS1 port.
CTAG	< 1-6 VALID CTAG CHARACTERS >	
	Default:	< System assigned CTAG value >
	Addressing:	None
	Description:	Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
SAIS	Status, Already In Service
SDBE	Status, internal Data Base Error
	/* TP Database Error: <ERROR-STRING> for <AID-STRING> */
SNVS	Status, Not in Valid State
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, DS1 port T3T1-15-21 is placed in an IS state by executing a RST-T1 command.

```
RST-T1::T3T1-15-21;
```

RELATED COMMANDS

```
RTRV-T1
ENT-T1
ED-T1
RMV-T1
DLT-T1
```

COMMAND CODE: **RST-T3**
COMMAND NAME: **RESTORE T3**

PURPOSE

The RST-T3 command causes the specified DS3 port to be placed in an IS or OOS-AU state.

Executing an RST-T3 command causes a state transition for the specified DS3 from

- OOS-MA to IS
- OOS-AUMA to OOS-AU

When a DS3 is provisioned from an OOS-MA or OOS-AUMA to an IS or OOS-AU state, a MAN condition type is cleared, any existing DS3 condition types are set, and performance monitoring threshold crossing alerts are enabled (if provisioned for PM collection by the SET-PMMODE-T3 command) for the specified DS3.

A RST-T3 command is denied if:

- The specified DS3 is not provisioned (using the ENT-T3 command).
- The specified DS3 is not in an OOS-MA or OOS-AUMA state.
- The specified DS3 is in a loopback (the DS3 has an SST of LPBK).
- The specified DS3 is a test access port.
- An invalid parameter value is entered.

INPUT FORMAT

RST-T3 : [TID] : AID : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	DS3_AID: {T3-{1-4800}} (T3-DS3#) {EC1T3-{1-3840}} (EC1T3-EC1/STS1/DS3#) {OC3T3-{1-2240}-{1-3}} (OC3T3-OC3#-STS1/DS3#) {OC12T3-{1-560}-{1-4}-{1-3}} (OC12T3-OC12#-STM1#-STS1/DS3#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: DS3 AID, identifies the DS3 port.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
SAIS	Status, Already In Service
SDBE	Status, internal Data Base Error /* TP Database Error: <ERROR-STRING> for <AID-STRING> */ /* Error updating supported T1s */ /* Error updating supported F3s */
SNVS	Status, Not in Valid State
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, DS3 port T3-21 is placed in an IS state by executing a RST-T3 command.

```
RST-T3::T3-21;
```

RELATED COMMANDS

RTRV-T3
ENT-T3
ED-T3
RMV-T3
DLT-T

COMMAND CODE: **RST-TAP-DIG**
COMMAND NAME: **RESTORE TEST ACCESS PORT DIGROUP**

PURPOSE

The RST-TAP-DIG command disconnects all existing Test Access Port Pair (TAPP) connections established by the user regardless of whether the TAPP connection is link associated (refer to the CONN-TACC-Tx commands). After RST-TAP-DIG is executed, the disconnected TAPPs are available for other test access operations.

The RST-TAP-DIG command only operates on TAPP connections.

Executing a RST-TAP-DIG command removes the SST value of TS from the affected TAPPs and any equipment-side and facility-side ports involved in the associated test access operations. If an associated cross-connection exists, the cross-connection SST of TS is removed from the cross-connection entity.

A RST-TAP-DIG command is denied if:

- The user does not have any test access connections established to TAPPs.
- An invalid parameter value is entered.

INPUT FORMAT

RST-TAP-DIG: [TID] : [TST] : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
TST	{ALL} Default: {ALL} Addressing: None Description: Test Access ports to be released. All existing test access connections established by the user are disconnected (DS1, DS3, STS1, and VT1 TAPPs).
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

SRQN Status, invalid ReQuest

EXAMPLES

In the following example, the RST-TAP-DIG will take down all TACC connections (DS1, DS3, VT1 and STS1) owned by the user issuing the command:

```
RST-TAP-DIG::;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of Pae956. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M Pae956 COMPLD  
/* RST-TAP-DIG::: [Pae956] (2) */  
;
```

RELATED COMMANDS

CHG-ACCMD-STs1
CHG-ACCMD-T1
CHG-ACCMD-T3
CHG-ACCMD-VT1
CHG-TL-DIG
CONN-TACC-STs1
CONN-TACC-T1
CONN-TACC-T3
CONN-TACC-VT1
DISC-TACC
DISC-TACC-PRVG
REPT-INITZN
REPT-STAT
RTRV-TACC

COMMAND CODE: **RST-VT1**
COMMAND NAME: **RESTORE VT1**

PURPOSE

The RST-VT1 command causes a VT1.5 port to be placed in an IS or OOS-AU state.

Executing an RST-VT1 command causes a state transition for the specified VT1.5 from

- OOS-MA to IS
- OOS-AUMA to OOS-AU

When a VT1.5 is provisioned from the OOS-MA or OOS-AUMA to an IS or OOS-AU state, a MAN condition type is cleared, any existing VT1.5 condition types are set, and performance monitoring threshold crossing alerts are enabled (if provisioned for PM collection by the SET-PMODE-VT1 command) for the specified VT1.5.

A RST-VT1 command is denied if:

- The specified VT1.5 is not previously provisioned (using the ENT-VT1 command).
- The specified VT1.5 is not in an OOS-MA or OOS-AUMA state.
- The specified VT1.5 is in a loopback (it has an SST of LPBK).
- An invalid parameter value is entered.

INPUT FORMAT

RST-VT1: [TID]:AID: [CTAG];

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	VT1_AID: {EC1VT1-{1-3840}-{1-7}-{1-4}} (EC1VT1-EC1/STS1#-VTGrp#-VT1.5#) {OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}} (OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#) {OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}} (OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: VT1 AID, identifies the VT1.5 port.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
SAIS	Status, Already In Service
SDBE	Status, internal Data Base Error /* TP Database Error: <ERROR-STRING> for <AID-STRING> */ /* Error updating supported T1 */
SNVS	Status, Not in Valid State
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, VT1.5 port EC1VT1-15-7-4 is placed in an IS state by executing a RST-VT1 command.

```
RST-VT1::EC1VT1-15-7-4;
```

RELATED COMMANDS

RTRV-VT1
ENT-VT1
ED-VT1
RMV-VT1
DLT-VT1

COMMAND CODE: **RTRV-AAID-EQPT**
COMMAND NAME: **RETRIEVE ALTERNATE AID
EQUIPMENT**

PURPOSE

The RTRV-AAID-EQPT command retrieves the Alcatel standard equipment AID format when an alternate equipment AID format is specified, or conversely, the alternate equipment AID format when the Alcatel standard equipment AID format is specified.

If an alternate AID database has not been previously created, issuing the RTRV-AAID-EQPT command with an ANSAID will return the same AID.

A RTRV-AAID-EQPT command is denied if:

- Values are entered for both ANSAID and ALTAID.
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-AAID-EQPT: [TID] : [ANSAID] [, ALTAID] : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >
Default:	<SID>
Addressing:	None
Description:	Target Identifier, specifies the network node TID for the command.

ANSAID

Alcatel_Standard_Format_EQPT_AID:

{ACL-1-2-{9-28, 37-56, 65-84, 93-112}}
{ACM-1-2-{3-7, 10-14}}
{CDA-{4, 5, 10, 11, 16, 17, 22, 23, **102, 103**}-3-1}
{CDB-{5}-{1, 3}-{1, 2}}
 CDB-{2-43,**104-111**,112-135,**136-141**}-{1, 3}-{1, 2}
{SI36: CDB-{6-9, 12-15, 18-21, 24-43}-{1, 3}-{1-2}},
 {SI48: CDB-{2-43,**104-111**,112-135,**136-141**}-{1, 3}-{1, 2}}
{CID-1-1-{1-12}}
{CIM-1-2-{3-7, 10-14}}
{CKB-{1-63, 101, **102-111**, 112-135, **136-141**}-{0}-{1-2}}
{CPU-1-2-{1-2}}
{DSB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2}}
{DSI-{44-63}-{1-4}-{1-32}}
{DSK-1-3-1,
 DSK-1-4-2}
{EOB-{5}-{1, 3}-{1-5}}
{SI48: EOB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2},
 EOC: EOB-{4-5, 10-11, 16-17, 22-23, **102, 103**}-1-{1-7, 9-15}}
{SI48: EP3-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42,
 104-106,108-110, 136-141}-{1, 3}-{1-18},
 EP3-{9, 21, 35, 43, **107**}-3-{1-18},
 EP3-{15, 27, 31, 39, **111**}-1-{1-18}}
{SI36: EP3-{6-8, 12-14}-{1, 3}-{1-14},
 EP3-9-3-{1-14},
 EP3-15-1-{1-14}}
{SI48: ES1-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42,
 104-106,108-110,136-141}-{1, 3}-{1-18},
 ES1-{9, 21, 35, 43,**107**}-3-{1-18},
 ES1-{15, 27, 31, 39,**111**}-1-{1-18}}
{SI36: ES1-{6-8, 12-14}-{1, 3}-{1-14},
 ES1-9-3-{1-14},
 ES1-15-1-{1-14}}
{ESA-{44-63}-{1-4}-{1-2}}
{FAN-{1, 101}-0-1},
 FAN-{2-63, **102-111**, 112-135, **136-141**}-{1-3}-1}
{FUSE-{2-43, **102-111**, 112-135, **136-141**}-0-{1-2}}
{G1EOB-{4, 5,10, 11, 16, 17, 22, 23, **102, 103**}-1-{1-7, 9-15}-{1-16},
 G1EOB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2}-{1-16},
 G1EOB-{5}-{1, 3}-{1-5}-{1-16}}
{SI48:G1EP3-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42, **104-106, 108-110**}-
 {1, 3}-{1-18}-{1-2},
 G1EP3-{9, 21, 35, 43, **107**}-3-{1-18}-{1-2},
 G1EP3-{15, 27, 31, 39, **111**}-1-{1-18}-{1-2}}
{SI36: G1EP3 - {6-8, 12-14} - {1, 3} - {1-14} - {1-2},
 G1EP3 - 9 - 3 - {1-14} - {1-2},
 G1EP3 - {15} - 1 - {1-14} - {1-2} }

{SI48:G1ES1-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42, **104-106, 108-110**}-
{1, 3}-{1-18}-{1-2},
G1ES1-{9, 21, 35, 43, **107**}-3-{1-18}-{1-2},
G1ES1-{15, 27, 31, 39, **111**}-1-{1-18}-{1-2}}
{SI36: G1ES1 - {6-8, 12-14} - {1, 3} - {1-14} - {1-2},
G1ES1 -9 -3-{1-14} - {1-2},
G1ES1 - {15-1-{1-14}-{1-2} }
{G1IOB-{6-8, 12-14}-{1, 3}-{1, 3, 5, 7}-{1-3, 5-7},
G1IOB-9-3-{1, 3, 5, 7}-{1-3, 5-7},
G1IOB-15-1-{1, 3, 5, 7}-{1-3, 5-7}}
{G1IRPB-{6-9, 12-15, 18-21, 24-43, **104-111, 112-135, 136-141**}-{1, 3}-{1-2}-{1-18} }
{G1M16-{2-5, 10-11, 16-17, 22-23, **102-103**}-3-{1-16}-{1-16}}
{G1M32-{4-5, 10-11, 16-17, 22-23, **102-103**}-3-{1-16}-{1-32},
G1M32-{5}-{1, 3}-{1-3, 6-8}-{1-32}}
{G1M40-{2-3}-{1, 3}-{1-16}-{1-32},
G1M40-{5}-{1, 3}-{4, 5, 9, 10}-{1-32}}
{G1MRPB-{6-9, 12-15, 18-21, 24-43, **104-111, 112-135, 136-141**}-{1, 3}-{1-2}-{1-16}}
{G1O1B-{6-9, 12-15, 18-21, 24-43, 112-135}-{1, 3}-{2-9, 11-18}-{1-2}}
{G4EOB-{4-5, 10-11, 16-17, 22-23}-1-{1-7, 9-15}-{1-4},
G4EOB-{6-9, 12-15, 18-21, 24-43, **104-111, 112-135, 136-141**}-{1, 3}-{1, 2}-{1-4},
G4EOB-{5}-{1, 3}-{1-5}-{1-4}}
{G4IOB-{6-8, 12-14}-{1, 3}-{1, 3, 5, 7}-{1-2},
G4IOB-9-3-{1, 3, 5, 7}-{1, 2},
G4IOB-15-1-{1, 3, 5, 7}-{1-2}}
{G4OXB-{44-63}-{1-4}-{1, 2}-1}
{HMu-{44-53}-{1-4}-{1-8}}
{ICM-1-2-{1, 2, 8, 9}}
{IOB-{6-8, 12-14}-{1, 3}-{1, 3, 5, 7},
IOB-9-3-{1, 3, 5, 7},
IOB-15-1-{1, 3, 5, 7}}
{IPB-{6-9, 12-15, 18-21, 24-43, **104-111, 112-135, 136-141**}-{1, 3}-{1-2}}
{IPU-{44-63}-{1-4}-{1-8}}
{LMU-{44-53}-{1-4}-{1-32}}
{LT1-1-1-{1-6}}
{LT2-1-1-{1-6}}
{LT3-1-1-{4-6}}
{LT4-1-1-{7-16}}
{LT5-1-1-{2-6}}
{LT8-1-1-{7-16}}
{M16-{2-5, 10-11, 16-17, 22-23}-3-{1-16}}
{M32-{4-5, 10-11, 16-17, 22-23, **102, 103**}-3-{1-16},
M32-{5}-{1, 3}-{1-3, 6-8}}
{M40-{2-3}-{1, 3}-{1-16}}
{M40-{5}-{1, 3}-{4, 5, 9, 10}}
{MCB-{2,3}-3-1}
{MCB-{5}-{1, 3}-{1}}
{O1B-{6-9, 12-15, 18-21, 24-43, **104-111, 112-135, 136-141**}-{1, 3}-{2-9, 11-18}}
{O4M-{6-9, 12-15, 18-21, 24-43, **104-111, 112-135, 136-141**}-{1, 3}-{2-3, 11-12}}
{OPD-1-3-1,
OPD-1-4-2}
{OXB-{44-63}-{1-4}-{1-2}}
{P39-{6-9, 12-15, 18-21, 24-43, **104-111, 112-135, 136-141**}-{1, 3}-{1-3},
P39-{4, 5, 10, 11, 16, 17, 22, 23, **102, 103**}-1-{1-3},

P39-{4, 5, 10, 11, 16, 17, 22, 23, **102, 103**}-3-{1-4},
P39-{5}-{1, 3}-{1-4}}
{P56 - {6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**} - {1, 3} - {1-5},
P56 - {2-3} - {1, 3} - {1-4},
P56 - {4, 5, 10, 11, 16, 17, 22, 23, **102, 103**} -1,3 - {1-5},
P56-{5}-{1, 3}-{1-4}}
{PDU-{2-43, **102-111**, 112-135, **136-141**}-0-1}
{PRT-{44-63}-{1-4}-{8, 16, 24, 32}}
{PSF-1-{3, 4}-{1, 2},
PSF-{44-63}-{1-4}-{1-2}}
{PST-1-{3, 4}-{1-2}}
{QUAD-{44-63}-{1-4}-{1-4}}
{RACK-{1-63, 101, **102-111**, 112-135, **136-141**}-0-1}
{RDU-{44-63}-0-1}
{RPB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2}}
{RSP-{1, 101}-0-1}
{S3M-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{4-9, 13-18}}
{SBT-1-2-{1-4}}
{SHELF-{4-43, 102-141}-{1, 3}-1}
{SHELF-{2, 3}-{1, 3}-1}
{SHELF-{5}-{1, 3}-{1}}
{SIO-1-2-{1-2, 8-9}}
{SPB-{2-43, **102-111**, 112-135, **136-141**}-{1, 3}-{1-2}}
{SPB-{5}-{1, 3}-{1, 2}}
{SWI-{44-63}-{1-4}-{1-7, 9-15, 17-23, 25-31}}
{TGR-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42}-{1, 3}-{9, 18},
TGR-{9, 21, 35, 43}-3-{9, 18}, TGR-{15, 27, 31, 39}-1-{9, 18}}
Default: None. Either ANSAID or ALTAID must be entered, but not both.
Addressing: None
Description: Alcatel Equipment AID, identifies an equipment entity using the Alcatel standard AID format. The Equipment ANSAID format is:
{<Equipment mnemonic> - <Rack # within the system> - <Shelf # within the Rack> - <Equipment # within the Shelf>}
Restrictions: RTRV-AAID-EQPT is denied if values for both ANSAID and ALTAID are entered.

ALTAID

Alternate_Format_EQPT_AID:
{ACL -1 - 2 - {9-28, 37-56} }
{ACM - 1 -2- {3-7, 10-14} }
{CDA - {43-45} - 3 -1 }
{CDB - {40, 41} - 3 - {1, 2}, CDB - {42, 43, 63-65, 44, 45, 60-62} - {1, 3} - {1, 2},
CDB - 91 - 3 - {1, 2}, CDB - 90 -1 - {1, 2} }
{CID - 1 - 1 - {1-12} }
{CIM -1 - 2 - {3-7, 10-14} }
{CKB - {1, 40-45, 60-65, 90, 91, 3-6, 10-15} - 0 - {1, 2} }
{CPU -1 - 2 - {1, 2} }
{DSB - {60-65} - {1, 3} - {1, 2}, DSB - {90, 91} - {1, 3} - {1, 2} }
{DSI - {3-6, 10-15} - {1-4} - {1-32} }
{DSK -1 - 3 - 1, DSK -1 - 4 - 2}
{EOB - {42-45} -1 - {1, 3, 5, 7, 10, 12, 14} }
{EP3 - {60-65} - {1, 3} - {1-18}, EP3 - 91 - 3 - {1-18}, EP3 - 90 -1 - {1-18} }
{ES1 - {60-65} - {1, 3} - {1-18}, ES1 - 91 - 3 - {1-18}, ES1 - 90 -1 - {1-18} }
{ESA - {3-6, 10-15} - {1-4} - {1, 2} }

{FAN -1 -0 -1, FAN - {40, 41} - 3 -1,
 FAN - {42-45, 60-65, 90, 91} - {1, 3} -1, FAN - {3-6, 10-15} - {1, 3} -1}
 {FUSE - {40-45, 60-65, 90, 91} - 0 - {1, 2} }
 {G1EOB - {42-45} - 1 - {1, 3, 5, 7, 10, 12, 14} - {1-16} }
 {G1EP3 - {60-65} - {1, 3} - {1-18} - {1, 2}, G1EP3 - {91} - 3 - {1-18} - {1, 2},
 G1EP3 - {90} - 1 - {1-18} - {1, 2} }
 {G1ES1 - {60-65} - {1, 3} - {1-18} - {1, 2},
 G1ES1 - {91} - 3 - {1-18} - {1, 2}, G1ES1 - {90} - 1 - {1-18} - {1, 2} }
 {G1IRPB - {60-65} - {1, 3} - {1, 2} - {1-18},
 G1IRPB - {90, 91} - {1, 3} - {1, 2} - {1-18} }
 {G1M16 - {40-45} - 3 - {1-16} - {1-16} }
 {G1M40 - {40, 41} - 3 - {1-16} - {1-32} }
 {G1MRPB - {60-65} - {1, 3} - {1, 2} - {1-16},
 G1MRPB - {90, 91} - {1, 3} - {1, 2} - {1-16} }
 {G1O1B - {60-71, 90-93} - {1, 3} - {2-9, 11-18} - {1, 2} }
 {G4EOB - {42-45} - 1 - {1, 3, 5, 7, 10, 12, 14} - {1-4} }
 {G4OXB - {3-6, 10-15} - {1-4} - {1, 2} - 1 }
 {HMU - {3-6, 10-15} - {1-4} - {1-8} }
 {ICM - 1 - 2 - {1, 2, 8, 9} }
 {IPB - {60-65} - {1, 3} - {1, 2}, IPB - {90, 91} - {1, 3} - {1, 2} }
 {IPU - {3-6, 10-15} - {1-4} - {1-8} }
 {LMU - {3-6, 10-15} - {1-4} - {1-32} }
 {LT1 -1 -1 - {1-6} }
 {LT2 -1 -1 - {1-6} }
 {LT3 -1 -1 - {4-6} }
 {LT4 -1 -1 - {7-16} }
 {LT5 -1 -1 - {2-6} }
 {LT8 -1 -1 - {7-16} }
 {M16 - {40-45} - 3 - {1-16} }
 {M40 - {40, 41} - 3 - {1-16} }
 {MCB - {40, 41} - 3 -1}
 {O1B - {60-71, 90-93} - {1, 3} - {2-9, 11-18} }
 {OPD -1 - 3 - 1, OPD -1 - 4 - 2}
 {OXB - {3-6, 10-15} - {1-4} - {1, 2} }
 {P39 - {60-65} - {1, 3} - {1-3}, P39 - 91 - 3 - {1-3}, P39 - 90 -1 - {1-3} }
 {P56 - {60-65} - {1, 3} - {1-5}, P56 - 91 - 3 - {1-5},
 P56 - 90 -1 - {1-5}, P56 - {40-45} - 3 - {1-4},
 P56 - {42-45} -1 - {1-5} }
 {PDU - {60-65, 90, 91} - 0 -1}
 {PRT - {3-6, 10-15} - {1-4} - {8, 16, 24, 32} }
 {PSF -1 - {3, 4} - {1, 2}, PSF - {3-6, 10-15} - {1-4} - {1, 2} }
 {PST -1 - {3, 4} - {1, 2} }
 {QUAD - {3-6, 10-15} - {1-4} - {1-4} }
 {RACK - {40-45, 60-65, 90, 91, 3-6, 10-15} - 0 -1}
 {RDU - {3-6, 10-15} - 0 -1}
 {RPB - {60-65} - {1, 3} - {1, 2}, RPB - {90, 91} - {1, 3} - {1, 2} }
 {RSP - {1, 101} - 0 -1}
 {SBT -1 - 2 - {1-4} }
 {SHELF - {40-41} - 3 - 1, SHELF - {42-45, 60-65} - {1, 3} - 1,
 SHELF - 91 - 3 -1, SHELF -90 -1 -1 }
 {SIO -1 - 2 - {1, 2, 8, 9} }
 {SPB - {40-41} - 3 - {1, 2}, SPB - {42-45, 60-65, 90, 91} - {1, 3} - {1, 2} }
 {SWI - {3-6, 10-15} - {1-4} - {1-7, 9-15, 17-23, 25-31} }

{TGR-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42}-{1, 3}-{9, 18},
TGR-{9, 21, 35, 43}-3-{9, 18}, TGR-{15, 27, 31, 39}-1-{9, 18}}

Default: None. Either ALTAID or ANSAID must be entered, but not both.

Addressing: None

Description: Alternate Equipment AID, identifies an equipment entity using the alternate equipment AID format. The Equipment ALTAID format is:
{<Equipment mnemonic> – <Alternate Rack # within the system> – <Shelf # within the Rack> – <Equipment # within the Shelf>}

Restrictions: RTRV-AAID-EQPT is denied if values for both ALTAID and ANSAID are entered.

CTAG < 1-6 VALID CTAG CHARACTERS >

Default: < System assigned CTAG value >

Addressing: None

Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  "<ANSAID>,<ALTAID>"
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```


OUTPUT PARAMETERS

ANSAID Alcatel_Standard_Format_EQPT_AID:

{ACL-1-2-{9-28, 37-56, 65-84, 93-112}}

{ACM-1-2-{3-7, 10-14}}

{CDA-{4, 5, 10, 11, 16, 17, 22, 23, **102, 103**}-3-1}

{CDB-{5}-{1, 3}-{1, 2}}

 CDB-{2-43,**104-111**,112-135,**136-141**}-{1, 3}-{1, 2}

{SI36: CDB-{6-9, 12-15, 18-21, 24-43}-{1, 3}-{1-2},

 {SI48: CDB-{2-43,**104-111**,112-135,**136-141**}-{1, 3}-{1, 2}}

{CID-1-1-{1-12}}

{CIM-1-2-{3-7, 10-14}}

{CKB-{1-63, 101, **102-111**, 112-135, **136-141**}-{0}-{1-2}}

{CPU-1-2-{1-2}}

{DSB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2}}

{DSI-{44-63}-{1-4}-{1-32}}

{DSK-1-3-1,

 DSK-1-4-2}

{EOB-{5}-{1, 3}-{1-5}}

{SI48: EOB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2},

 EOC: EOB-{4-5, 10-11, 16-17, 22-23, **102, 103**}-1-{1-7, 9-15}}

{SI48: EP3-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42,

104-106,108-110, 136-141}-{1, 3}-{1-18},

 EP3-{9, 21, 35, 43, **107**}-3-{1-18},

 EP3-{15, 27, 31, 39, **111**}-1-{1-18}}

{SI36: EP3-{6-8, 12-14}-{1, 3}-{1-14},

 EP3-9-3-{1-14},

 EP3-15-1-{1-14}}

{SI48: ES1-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42,

104-106,108-110,136-141}-{1, 3}-{1-18},

 ES1-{9, 21, 35, 43,**107**}-3-{1-18},

 ES1-{15, 27, 31, 39,**111**}-1-{1-18}}

{SI36: ES1-{6-8, 12-14}-{1, 3}-{1-14},

 ES1-9-3-{1-14},

 ES1-15-1-{1-14}}

{ESA-{44-63}-{1-4}-{1-2}}

{FAN-{1, 101}-0-1},

 FAN-{2-63, **102-111**, 112-135, **136-141**}-{1-3}-1}

{FUSE-{2-43, **102-111**, 112-135, **136-141**}-0-{1-2}}

{G1EOB-{4, 5,10, 11, 16, 17, 22, 23, **102, 103**}-1-{1-7, 9-15}-{1-16},

 G1EOB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2}-{1-16},

 G1EOB-{5}-{1, 3}-{1-5}-{1-16}}

{SI48:G1EP3-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42, **104-106, 108-110**}-

 {1, 3}-{1-18}-{1-2},

 G1EP3-{9, 21, 35, 43, **107**}-3-{1-18}-{1-2},

 G1EP3-{15, 27, 31, 39, **111**}-1-{1-18}-{1-2}}

{SI36: G1EP3 - {6-8, 12-14} - {1, 3} - {1-14} - {1-2},

 G1EP3 - 9 - 3 - {1-14} - {1-2},

 G1EP3 - {15} - 1 - {1-14} - {1-2} }

{SI48:G1ES1-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42, **104-106, 108-110**}-

 {1, 3}-{1-18}-{1-2},

 G1ES1-{9, 21, 35, 43, **107**}-3-{1-18}-{1-2},

 G1ES1-{15, 27, 31, 39, **111**}-1-{1-18}-{1-2}}

{SI36: G1ES1 - {6-8, 12-14} - {1, 3} - {1-14} - {1-2},

G1ES1-9-3-{1-14}-{1-2},
 G1ES1-{15-1-{1-14}}-{1-2}
 {G1IOB-{6-8, 12-14}-{1, 3}-{1, 3, 5, 7}-{1-3, 5-7},
 G1IOB-9-3-{1, 3, 5, 7}-{1-3, 5-7},
 G1IOB-15-1-{1, 3, 5, 7}-{1-3, 5-7}}
 {G1IRPB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2}-{1-18}}
 {G1M16-{2-5, 10-11, 16-17, 22-23, **102-103**}-3-{1-16}-{1-16}}
 {G1M32-{4-5, 10-11, 16-17, 22-23, **102-103**}-3-{1-16}-{1-32},
 G1M32-{5}-{1, 3}-{1-3, 6-8}-{1-32}}
 {G1M40-{2-3}-{1, 3}-{1-16}-{1-32},
 G1M40-{5}-{1, 3}-{4, 5, 9, 10}-{1-32}}
 {G1MRPB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2}-{1-16}}
 {G1O1B-{6-9, 12-15, 18-21, 24-43, 112-135}-{1, 3}-{2-9, 11-18}-{1-2}}
 {G4EOB-{4-5, 10-11, 16-17, 22-23}-1-{1-7, 9-15}-{1-4},
 G4EOB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1, 2}-{1-4},
 G4EOB-{5}-{1, 3}-{1-5}-{1-4}}
 {G4IOB-{6-8, 12-14}-{1, 3}-{1, 3, 5, 7}-{1-2},
 G4IOB-9-3-{1, 3, 5, 7}-{1, 2},
 G4IOB-15-1-{1, 3, 5, 7}-{1-2}}
 {G4OXB-{44-63}-{1-4}-{1, 2}-1}
 {HMU-{44-53}-{1-4}-{1-8}}
 {ICM-1-2-{1, 2, 8, 9}}
 {IOB-{6-8, 12-14}-{1, 3}-{1, 3, 5, 7},
 IOB-9-3-{1, 3, 5, 7},
 IOB-15-1-{1, 3, 5, 7}}
 {IPB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2}}
 {IPU-{44-63}-{1-4}-{1-8}}
 {LMU-{44-53}-{1-4}-{1-32}}
 {LT1-1-1-{1-6}}
 {LT2-1-1-{1-6}}
 {LT4-1-1-{7-16}}
 {LT5-1-1-{2-6}}
 {LT8-1-1-{7-16}}
 {M16-{2-5, 10-11, 16-17, 22-23}-3-{1-16}}
 {M32-{4-5, 10-11, 16-17, 22-23, **102**, **103**}-3-{1-16},
 M32-{5}-{1, 3}-{1-3, 6-8}}
 {M40-{2-3}-{1, 3}-{1-16}}
 {M40-{5}-{1, 3}-{4, 5, 9, 10}}
 {MCB-{2,3}-3-1}
 {MCB-{5}-{1, 3}-{1}}
 {O1B-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{2-9, 11-18}}
 {O4M-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{2-3, 11-12}}
 {OPD-1-3-1,
 OPD-1-4-2}
 {OXB-{44-63}-{1-4}-{1-2}}
 {P39-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-3},
 P39-{4, 5, 10, 11, 16, 17, 22, 23, **102**, **103**}-1-{1-3},
 P39-{4, 5, 10, 11, 16, 17, 22, 23, **102**, **103**}-3-{1-4},
 P39-{5}-{1, 3}-{1-4}}
 {P56-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-5},
 P56-{2-3}-{1, 3}-{1-4},
 P56-{4, 5, 10, 11, 16, 17, 22, 23, **102**, **103**}-1,3-{1-5},
 P56-{5}-{1, 3}-{1-4}}

{PDU-{2-43, **102-111**, 112-135, **136-141**}-0-1}
 {PRT-{44-63}-{1-4}-{8, 16, 24, 32}}
 {PSF-1-{3, 4}-{1, 2},
 PSF-{44-63}-{1-4}-{1-2}}
 {PST-1-{3, 4}-{1-2}}
 {QUAD-{44-63}-{1-4}-{1-4}}
 {RACK-{1-63, 101, **102-111**, 112-135, **136-141**}-0-1}
 {RDU-{44-63}-0-1}
 {RPB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2}}
 {RSP-{1, 101}-0-1}
 {S3M-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{4-9, 13-18}}
 {SBT-1-2-{1-4}}
 {SHELF-{4-43, 102-141}-{1, 3}-1}
 {SHELF-{2, 3}-{1, 3}-1}
 {SHELF-{5}-{1, 3}-{1}}
 {SIO-1-2-{1-2, 8-9}}
 {SPB-{2-43, **102-111**, 112-135, **136-141**}-{1, 3}-{1-2}}
 {SPB-{5}-{1, 3}-{1, 2}}
 {SWI-{44-63}-{1-4}-{1-7, 9-15, 17-23, 25-31}}
 Alcatel Equipment AID, identifies the Alcatel standard AID format for an equipment entity.

ALTAID

Alternate_Format_EQPT_AID:

{ACL-1-2-{9-28, 37-56}}
 {ACM-1-2-{3-7, 10-14}}
 {CDA-{43-45}-3-1}
 {CDB-{40, 41}-3-{1, 2}, CDB-{42, 43, 63-65, 44, 45, 60-62}-{1, 3}-{1, 2},
 CDB-91-3-{1, 2}, CDB-90-1-{1, 2}}
 {CID-1-1-{1-12}}
 {CIM-1-2-{3-7, 10-14}}
 {CKB-{1, 40-45, 60-65, 90, 91, 3-6, 10-15}-0-{1, 2}}
 {CPU-1-2-{1, 2}}
 {DSB-{60-65}-{1, 3}-{1, 2}, DSB-{90, 91}-{1, 3}-{1, 2}}
 {DSI-{3-6, 10-15}-{1-4}-{1-32}}
 {DSK-1-3-1, DSK-1-4-2}
 {EOB-{42-45}-1-{1, 3, 5, 7, 10, 12, 14}}
 {EP3-{60-65}-{1, 3}-{1-18}, EP3-91-3-{1-18}, EP3-90-1-{1-18}}
 {ES1-{60-65}-{1, 3}-{1-18}, ES1-91-3-{1-18}, ES1-90-1-{1-18}}
 {ESA-{3-6, 10-15}-{1-4}-{1, 2}}
 {FAN-1-0-1, FAN-{40, 41}-3-1,
 FAN-{42-45, 60-65, 90, 91}-{1, 3}-1, FAN-{3-6, 10-15}-{1, 3}-1}
 {FUSE-{40-45, 60-65, 90, 91}-0-{1, 2}}
 {G1EOB-{42-45}-1-{1, 3, 5, 7, 10, 12, 14}-{1-16}}
 {G1EP3-{60-65}-{1, 3}-{1-18}-{1, 2}, G1EP3-{91}-3-{1-18}-{1, 2},
 G1EP3-{90}-1-{1-18}-{1, 2}}
 {G1ES1-{60-65}-{1, 3}-{1-18}-{1, 2},
 G1ES1-{91}-3-{1-18}-{1, 2}, G1ES1-{90}-1-{1-18}-{1, 2}}
 {G1IRPB-{60-65}-{1, 3}-{1, 2}-{1-18},
 G1IRPB-{90, 91}-{1, 3}-{1, 2}-{1-18}}
 {G1M16-{40-45}-3-{1-16}-{1-16}}
 {G1M40-{40, 41}-3-{1-16}-{1-32}}
 {G1MRPB-{60-65}-{1, 3}-{1, 2}-{1-16},
 G1MRPB-{90, 91}-{1, 3}-{1, 2}-{1-16}}
 {G1O1B-{60-71, 90-93}-{1, 3}-{2-9, 11-18}-{1, 2}}

```

{G4EOB - {42-45} - 1 - {1, 3, 5, 7, 10, 12, 14} - {1-4} }
{G4OXB - {3-6, 10-15} - {1-4} - {1, 2} - 1 }
{HMU - {3-6, 10-15} - {1-4} - {1-8} }
{ICM - 1 - 2 - {1, 2, 8, 9} }
{IPB - {60-65} - {1, 3} - {1, 2}, IPB - {90, 91} - {1, 3} - {1, 2} }
{IPU - {3-6, 10-15} - {1-4} - {1-8} }
{LMU - {3-6, 10-15} - {1-4} - {1-32} }
{LT1 -1 -1 - {1-6} }
{LT2 -1 -1 - {1-6} }
{LT4 -1 -1 - {7-16} }
{LT5 -1 -1 - {2-6} }
{LT8 -1 -1 - {7-16} }
{M16 - {40-45} - 3 - {1-16} }
{M40 - {40, 41} - 3 - {1-16} }
{MCB - {40, 41} - 3 -1}
{O1B - {60-71, 90-93} - {1, 3} - {2-9, 11-18} }
{OPD -1 - 3 - 1, OPD -1 - 4 - 2}
{OXB - {3-6, 10-15} - {1-4} - {1, 2} }
{P39 - {60-65} - {1, 3} - {1-3}, P39 - 91 - 3 - {1-3}, P39 - 90 -1 - {1-3} }
{P56 - {60-65} - {1, 3} - {1-5}, P56 - 91 - 3 - {1-5},
  P56 - 90 -1 - {1-5}, P56 - {40-45} - 3 - {1-4},
  P56 - {42-45} -1 - {1-5} }
{PDU - {60-65, 90, 91} - 0 -1}
{PRT - {3-6, 10-15} - {1-4} - {8, 16, 24, 32} }
{PSF -1 - {3, 4} - {1, 2}, PSF - {3-6, 10-15} - {1-4} - {1, 2} }
{PST -1 - {3, 4} - {1, 2}}
{QUAD - {3-6, 10-15} - {1-4} - {1-4} }
{RACK- {40-45, 60-65, 90, 91, 3-6, 10-15} - 0 -1}
{RDU - {3-6, 10-15} - 0 -1}
{RPB - {60-65} - {1, 3} - {1, 2}, RPB - {90, 91} - {1, 3} - {1, 2} }
{RSP -{1, 101} - 0 -1}
{SBT -1 - 2 - {1-4} }
{SHELF - {40-41} - 3 - 1, SHELF - {42-45, 60-65} - {1, 3} - 1,
  SHELF - 91 - 3 -1, SHELF -90 -1 -1 }
{SIO -1 - 2 - {1, 2, 8, 9} }
{SPB - {40-41} - 3 - {1, 2}, SPB - {42-45, 60-65, 90, 91} - {1, 3} - {1, 2} }
{SWI - {3-6, 10-15} - {1-4} - {1-7, 9-15, 17-23, 25-31} }

```

Alternate Equipment AID, identifies the alternate AID format for an equipment entity.

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

```

IIAC      Input, Invalid ACcess identifier
/* AID not found */

```

IPNC Input, Parameter Not Consistent
 /* Cannot retrieve both */
SROF Status, Requested Operation Failed
 /* AID retrieve error */

EXAMPLES

The following example illustrates the command and response when the alternate equipment AID is known.

```
RTRV-AAID-EQPT: : , EP3-91-3-1 ;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of Pad567. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M Pad567 COMPLD  
"EP3-9-3-1, EP3-91-3-1"  
/* RTRV-AAID-EQPT: : EP3-91-3-1, [Pad567] (2) */  
;
```

The following example illustrates the command and response when the Alcatel standard AID is known.

```
RTRV-AAID-EQPT: : SPB-8-1-2 ;
```

The output response, shown below, assumes CID 3 was used to enter the command and a system generated CTAG value of Pad568. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M Pad568 COMPLD  
"SPB-8-1-2, SPB-65-1-2"  
/* RTRV-AAID-EQPT: : SPB-8-1-2 [Pad568] (3) */  
;
```

RELATED COMMANDS

None

COMMAND CODE: **RTRV-ACO-ALL**
COMMAND NAME: **RETRIEVE AUDIBLE ALARM CUTOFF
ALL**

PURPOSE

The RTRV-ACO-ALL command retrieves the current Audible Alarm Cutoff (ACO) mode setting.

The three modes of ACO operation are:

- Delayed ACO Mode: Any audible alarm is generated for five seconds and then automatically silenced by the system.
- Immediate ACO Mode: No audible alarms are generated; all audible alarms are automatically cutoff immediately.
- Manual ACO Mode: Audible alarms are not automatically silenced by the system. Audible alarms are only cutoff manually by executing an OPR-ACO-ALL command, manually actuating an ACO switch, or by clearing the alarm condition.

The ACO mode applies to all alarmed conditions in the system. The ACO mode does not affect visual alarm indications (lamps or contact closures) or alarm reporting through the man-machine interface.

A RTRV-ACO-ALL command is denied:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-ACO-ALL: [TID] : : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M <CTAG> COMPLD  
":<ACOMODE>"  
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]  
;
```

OUTPUT PARAMETERS

ACOMODE	{DELD, IMED, MAN}
	ACO Mode, indicates the Alarm Cutoff mode. Values are:
DELD	Delayed ACO, an audible alarm cutoff is automatically generated five seconds after the detection of an alarm (the audible alarm is automatically silenced after five seconds).
IMED	Immediate ACO, an audible alarm cutoff is automatically generated immediately upon detection of an alarm (no audible alarm occurs).
MAN	Manual ACO, an audible alarm cutoff is not automatically generated. Audible alarms are only silenced manually by executing an OPR-ACO-ALL command, manually actuating an ACO switch, or by clearing the alarm condition.

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

SDBE Status, internal Data Base Error

EXAMPLES

In the following example, the current setting of the ACO mode is retrieved.

```
RTRV-ACO-ALL;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of P18004. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P18004 COMPLD
":MAN"
/* RTRV-ACO-ALL [P18004] (2) */
;
```

RELATED COMMANDS

OPR-ACO-ALL
SET-ACO-ALL

COMMAND CODE: **RTRV-ALM-ALL**
COMMAND NAME: **RETRIEVE ALARM ALL**

PURPOSE

The RTRV-ALM-ALL command retrieves the current status of any existing alarm conditions in the system, or any alarm conditions matching a specified combination of condition type, notification code, location, and service effect (i.e., the CONDTYPE, NTFCNCDE, LOCN, and SRVEFF parameters provide a filter for retrieving existing alarm conditions satisfying the specified input parameters).

The successful response for a RTRV-ALM-ALL command contains one line of parsable output data for each alarm condition being reported. If multiple alarm conditions exist, a line of output is provided for

- each equipment entity alarm, in ascending order by date and time of occurrence,
- each common (no specific entity) alarm, in ascending order by date and time of occurrence,
- each DS1 alarm, in ascending order by DS1 port number and ascending order by date and time of occurrence within each DS1 port number,
- each Timing Reference (TMG) alarm, in ascending order by TMG AID and ascending order by date and time of occurrence within each TMG AID,
- each F3 alarm, in ascending order by F3 port number and ascending order by date and time of occurrence within each F3 port number,
- each DS3 alarm, in ascending order by DS3 port number and ascending order by date and time of occurrence within each DS3 port number,
- each OC3/OC12 alarm, in ascending order by OC3/OC12 port number and ascending order by date and time of occurrence within each OC3/OC12 port number,
- each EC1 alarm, in ascending order by EC1 port number and ascending order by date and time of occurrence within each EC1 port number,
- each STS1 alarm, in ascending order by STS1 port number and ascending order by date and time of occurrence within each STS1 port number,
- each STS3C alarm, in ascending order by STS3C port number and ascending order by date and time of occurrence within each STS3C port number,
- each VT1.5 alarm, in ascending order by VT1.5 port number and ascending order by date and time of occurrence within each VT1.5 port number.

If there are no existing alarm conditions with attributes matching the specified (valid) combination of condition type, notification code, location, and service effect, then the command is completed with no line of parsable output data provided in the response message.

A RTRV-ALM-ALL command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-ALM-ALL: [TID] : [AID] : [CTAG] : : [NTFCNCDE] , [CONDTYPE] , [SRVEFF] , [LOCN] ,
[DIRN] , [TMPE] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	{ ALL } Default: {ALL} Addressing: None Description: Access Identifier, specifies all alarms in the system are to be retrieved.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

NTFCNCDE	{CR, MJ, MN}
Default:	< All applicable notification codes listed above >
Addressing:	None
Description:	Notification Code, specifies the notification code of the condition type to be retrieved. Values are:
	CR Critical Alarm
	MJ Major Alarm
	MN Minor Alarm
CONDTYPE	<p>EQUIPMENT_CONDTYPE:{ALMCKT, BKUPMEMP, BKUPMEMS, BPMISM, BPTERM, CARLOS, CD, CLKLCK0, CLKLCK1, CNTRLRFL, CONTBUS, CONTCOM, CONTR, CTNEQPT, DATALCK0, DATALCK1, DBF, DBFFT, DCCEQPT, DTLCKCPYFL, DUPMACADDR, DUPTARPENTRY, FA, FANEQPT, FWMISM, GT1, GT4, IMPROPRMVL, INHSWDX, INHSWPR, INHSWWKG, INIT, INTERR, LOCKOUT, LOTRI, MAN, MANWKS WPR, MISC-1, OSIPARMISM, PRCDRERR, PWR, RARFAIL, SWFTDWN, SYNCEQPT, TERM-EC1, TERM-OC12, TERM-OC3, TERM-T1, TERM-T3, TERM-T3EC1, TSA, TSI, WKS WPR, XIDMISM},</p> <p>COMMON_CONDTYPE:{DATAFLT, EUA, FRNGSYNC, FSTSYNC, GOS-EC1, GOS-OC12, GOS-OC3, GOS-ST51, GOS-ST53C, GOS-T1, GOS-T3, GOS-VT1, HLDVRSYNC, INHFL, INIT, ITMIP, MANSELDATACPY0, MANSELDATACPY1, MANSWTOPRI, MANSWTOSEC, PAINTGRT, RCVRY, SWTOPRI, SWTOSEC, UPGRD1344, UPGRD2688},</p> <p>DS1_NEAR-END_CONDTYPE:{ACTLPBK, AIS, AIS-CI, ALWCBLPBK, DS1ISD, EOC, INHPMREPT, LOF, LOS, MAN, RVCBLPBK, ROLLMON, XMTCBLPBK},</p> <p>DS1_FAR-END_CONDTYPE:{RAI, RAI-CI},</p> <p>TMG_NEAR-END_CONDTYPE:{AIS, LOF, LOS, SLTMSIG, SYNCPRI, SYNCSEC, SYNCSTATQUAL},</p> <p>F3_CONDTYPE:{INHPMREPT},</p> <p>DS3_NEAR-END_CONDTYPE:{1TO6LOF, 7LOF, ACTLPBK, AICMIS, AIS, FLTESC, INHPMREPT, ISD, LOF, LOS, MAN},</p> <p>DS3_FAR-END_CONDTYPE:{AIS, DS2YEL, FEACEQPT, ISD, LOF, LOS, RAI},</p> <p>OC12_NEAR-END_CONDTYPE:{ACTLPBK, AIS, DUPTARPENTRY, EBER, ESW, FRCDWKS WBK, FRCDWKS WPR, INHPMREPT, L2LCONFAL, L2SCONFAL, LDCCDLFL, LOCKOUTOFPR, LOF, LOS, MAN, MANWKS WBK, MANWKS WPR, SDBER, SDCCDLFL, WTR},</p> <p>OC12_FAR-END_CONDTYPE:{RFI},</p> <p>OC3_NEAR-END_CONDTYPE:{ACTLPBK, AIS, DUPTARPENTRY, EBER, ESW, FRCDWKS WBK, FRCDWKS WPR, INHPMREPT, L2LCONFAL, L2SCONFAL, LDCCDLFL, LOCKOUTOFPR, LOF, LOS, MAN, MANWKS WBK, MANWKS WPR, SDBER, SDCCDLFL, WTR},</p> <p>OC3_FAR-END_CONDTYPE:{RFI},</p> <p>EC1_NEAR-END_CONDTYPE:{ACTLPBK, AIS, INHPMREPT, LOF, LOS, MAN},</p> <p>EC1_FAR-END_CONDTYPE:{RFI},</p> <p>STS1_NEAR-END_CONDTYPE:{ACTLPBK, AIS, EBER, FLTESC, FRCDWKS WBK, FRCDWKS WPR, IDLE, INHPMREPT, LOP, MAN, MANWKS WBK, MANWKS WPR, PDI, SDBER, SLMF},</p> <p>STS1_FAR-END_CONDTYPE:{RFI},</p> <p>STS3C_NEAR-END_CONDTYPE:{ACTLPBK, AIS, IDLE, INHPMREPT, LOP, MAN, SLMF},</p> <p>STS3C_FAR-END_CONDTYPE:{RFI},</p> <p>VT1_NEAR-END_CONDTYPE:{ACTLPBK, AIS, EBER, FLTESC, FRCDWKS WBK, FRCDWKS WPR, IDLE, INHPMREPT, LOP, MAN, MANWKS WBK, MANWKS WPR, ROLLMON, SDBER, SLMF},</p>

VT1_FAR-END_CONDTYPE:{RFI}

Default: < All applicable condition types listed above >

Addressing: None

Description: Condition Type, specifies the condition type to be retrieved. (Refer to Appendix C for a list of all condition types.) Values are:

Input Values for EQUIPMENT CONDITION TYPES are:

ALMCKT	Alarm Circuit, RDU/RSP failure detected.
BKUPMEMP	Backup Memory—Primary, magnetic disk backup failure.
BKUPMEMS	Backup Memory—Secondary, optical disk/tape drive back-up failure.
BPMISM	Backplane Mismatch, mismatch between the provisioned shelf and the installed shelf backplane.
BPTERM	Backplane Termination failure detected in the SI48 I/O, EOC, End Stage, or Center Stage shelf.
CARLOS	Carrier Loss, loss of carrier event during IEEE 802.3 frame transmission on the LAN.
CD	Control and Display interface audit error detected.
CLKLCK0	Clock Lock 0, the clock path of the I/O, EOC, ES, and CS locked to clock bus 0.
CLKLCK1	Clock Lock 1, the clock path of the I/O, EOC, ES, and CS locked to clock bus 1.
CNTRLRFL	Controller Failure, LAPD or LAN controller failed set on the DSB.
CONTBUS	Control Bus, shelf control bus interface failure.
CONTCOM	Control Communication equipment failure.
CONTR	Control processor equipment failure.
CTNEQPT	Connection Equipment, facility/circuit interconnection equipment failure.
DATALCK0	Data Lock 0, I/O shelf/quad locked to databus 0.
DATALCK1	Data Lock 1, I/O shelf/quad locked to databus 1.
DBF	Database Backup Failure, OPD database backup failure detected (on second try).
DBFFT	Database Backup Failed on First Try, OPD database backup failure detected on first try.
DCCEQPT	Data Communication Channel Equipment, DCC Server Board failed.
DTLCKCPYFL	Data Lock Copy Fail, I/O modules in shelf/quad not locked to the copy specified.
DUPMACADDR	Duplicate MAC Address detected on the LAN.
DUPTARPENTRY	Duplicate TARP adjacency table.
FA	Fuse Alarm, a PDU/RDU/RSP circuit breaker or PDU fuse has failed.
FANEQPT	Fan Equipment, one or more of the fans in a fan assembly failed.
FWMISM	Firmware Mismatch, firmware version number does not match that in the system database.
GT1	GTI Cable fault for GTI cable carrying an STM1 signal.
GT4	GTI Cable fault for GTI cable carrying an STM4 signal.
IMPROPRMVL	Improper Removal, result of a physical circuit pack removal that was not preceded by a logical removal.
INHSDWX	Inhibit Switch Duplex, automatic copy switching of duplex equipment inhibited.
INHSWPR	Inhibit Switch to Protection, automatic protection switching of a main circuit pack to protection unit is inhibited.

INHSSWWKG	Inhibit Switch to Working, automatic switching of a main circuit pack back to working (from protection) is inhibited.
INIT	Initialization, shelf initialization in-process.
INTERR	Internal Error, internal error suspected on equipment.
LOCKOUT	LockOut of automatic revertive switching due to excessive protection switching.
LOTRI	Loss of Offboard Timing Reference Input from mate Master Clock Board circuit pack.
MAN	Manual removal (logical removal was performed on a circuit pack).
MANWKSWPR	Manual Working Switched to Protection, main/working unit was manually switched to the protection unit.
MISC-1	Miscellaneous Class-1, slave MCB is not ready.
OSIPARMISM	OS Initialization Parameter Mismatch, upper layer parameters or lower layer parameters specific to the LAN or manual area addresses are mismatched between two redundant DSBs.
PRCDRERR	Procedure Error, installed equipment does not support the facility provisioning.
PWR	Power, internal power failure detected.
RARFAIL	Re-Arrangement Failed, cross-connect rearrangement through the matrix failed due to SPB communication problem.
SWFTDWN	Software Download is in process on a circuit pack.
SYNCEQPT	Synchronization Equipment failure detected.
TERM-EC1	Termination Equipment-EC1, ES1 circuit pack failure.
TERM-OC12	Termination Equipment-OC12, O4M circuit pack failure.
TERM-OC3	Termination Equipment-OC3, O1B circuit pack failure.
TERM-T1	Termination Equipment-T1, DSI circuit pack failure.
TERM-T3	Termination Equipment-T3, HMU circuit pack failure.
TERM-T3EC1	Termination Equipment-T3/EC1, EP3 circuit pack failure.
TSA	Test Session Active, maintenance test session is active on the equipment.
TSI	Time Slot Interchange equipment failure.
WKSWPR	Working Switched to Protection, main/working unit automatically switched to the protection unit.
XIDMISM	Connection ID Mismatch, internal Connection ID Mismatch detected in the I/O shelf/quad.
Input Values for COMMON CONDITION TYPES are:	
DATAFLT	Data integrity Fault, CRC error detected during a database read.
EUA	Emergency User Access activated.
FRNGSYNC	Free Running Synchronization, manual switch to free running clock reference synchronization mode.
FSTSYNC	Fast Acquisition Synchronization, manual or automatic switch to fast acquisition clock reference synchronization mode.
GOS-EC1	Grade of Service-EC1, system-wide EC1 GOS threshold reached.
GOS-OC12	Grade of Service-OC12, system-wide OC12 GOS threshold reached.
GOS-OC3	Grade of Service-OC3, system-wide OC3 GOS threshold reached.
GOS-STS1	Grade of Service-STS1, system-wide STS1 GOS threshold reached.

GOS–STS3C	Grade of Service–STS3C, system–wide STS3C GOS threshold reached.
GOS–T1	Grade of Service–T1, system–wide DS1 GOS threshold reached.
GOS–T3	Grade of Service–T3, system–wide DS3 GOS threshold reached.
GOS–VT1	Grade of Service–VT1, system–wide VT1.5 GOS threshold reached.
HLDOVRSYNC	Synchronization Holdover, manual or automatic switch to holdover clock reference synchronization mode.
INHFL	Inhibit Fault Locating, automatic system–wide fault isolation inhibited.
INIT	Initialization, system initialization in–process.
ITMIP	Installation Test and Maintenance (ITM) mode is set.
MANSELDATACPY0	Manual Selection/Lock to Data Copy 0 due to execution of SELECT–COPY command.
MANSELDATACPY1	Manual Selection/Lock to Data Copy 1 due to execution of SELECT–COPY command.
MANSWTOPRI	Manual Switch To Primary Synchronization Reference.
MANSWTOSEC	Manual Switch To Secondary Synchronization Reference.
PAINTGRT	Path Integrity Failure, a system–wide data or clock failure detected.
RCVRY	Recovery. The System level recovery has been executed.
SWTOPRI	Automatic Switch To Primary Synchronization Reference.
SWTOSEC	Automatic Switch To Secondary Synchronization Reference.
UPGRD1344	672 Port to 1344 Port Upgrade in Progress.
UPGRD2688	1344 Port to 2688 Port Upgrade in Progress.
Input Values for DS1, TMG, F3, and DS3 CONDITION TYPES are:	
1TO6LOF	One To Six Loss Of Frame, Incoming LOF detected on 1 to 6 DS2s embedded in the DS3. (DS3 Near–End.)
7LOF	Seven Loss Of Frame, Incoming LOF detected on all 7 DS2s embedded in the DS3. (DS3 Near–End.)
ACTLPBK	Active Loopback, the port is in loop back. (DS1, DS3 Near–End.)
AICMIS	Application Identification Channel Mismatch, AIC mismatch detected. (DS3 Near–End.)
AIS	Alarm Indication Signal, AIS detected. (DS1, TMG, DS3 Near–End, DS3 Far–End.)
AIS–CI	Alarm Indication Signal for Customer Installation, Incoming AIS detected. (DS1 Near–End)
ALWCBLPBK	Allow C–Bit Loopback. (DS1 Near–End.)
DS1ISD	DS1 Idle Signal Detected, Incoming. (DS1 Near–End.)
DS2YEL	DS2 Yellow (Remote Alarm Indication) detected on one of the DS2s embedded in the DS3. (DS3 Far–End.)
EOC	Embedded Operations Channel, EOC failure detected. (DS1 Near–End.)
FEACEQPT	Far–End Alarm & Control (FEAC) Equipment detected. (DS3 Far–End.)
FLTESC	Facility Fault Escalation active. (DS3 Near–End.)
INHMPREPT	Inhibit Performance Monitoring Report, PM report capability inhibited. (DS1, DS3, F3 Near–End.)
ISD	Idle Signal Detected. (DS3 Near–End, DS3 Far–End.)

LOF	Loss Of Frame detected. (DS1, TMG, DS3 Near-End, DS3 Far-End.)
LOS	Loss Of Signal detected. (DS1, TMG, DS3 Near-End, DS3 Far-End.)
MAN	Manual removal (logical removal was performed on the facility). (DS1, DS3 Near-End.)
RAI	Remote Alarm Indication detected. (DS1, DS3 Far-End.)
RAI-CI	Remote Alarm Indication for Customer Installation detected. (DS1 Far-End.)
RCVCBLPBK	Receive (DS1) C-Bit Loopback. (DS1 Near-End.)
ROLLMON	Roll Monitoring, receive-side RTO port being monitored for valid signal. (DS1 Near-End.)
SLTMSIG	Slipping Timing Reference Signal detected. (TMG Near-End.)
SYNCPRI	Primary Reference Synchronization failure. (TMG Near-End.)
SYNCSEC	Secondary Reference Synchronization failure. (TMG Near-End.)
SYNCSTATQUAL	Synchronization Status Quality. (TMG Near-End.)
XMTCBLPBK	Transmit (DS1) C-Bit Loopback. (DS1 Near-End.)
Input Values for OC12, OC3, EC1, STS1, STS3C, and VT1.5 CONDITION TYPES are:	
ACTLPBK	Active Loopback, the port is in loop back. (OC12, OC3, EC1, STS1, STS3C, VT1.5 Near-End.)
AIS	Alarm Indication Signal, AIS detected. (OC12, OC3, EC1, STS1, STS3C, VT1.5 Near-End.)
DUPTARPENTRY	Duplicate TARP adjacency table. (OC12, OC3 Near-End.)
EBER	Excessive Bit Error Rate detected. (OC12, OC3, STS1, VT1.5 Near-End.)
ESW	Excessive Switching, lockout of automatic revertive (OC12, OC3) switching due to excessive switching. (OC12, OC3 Near-End.)
FLTESC	Facility Fault Escalation active. (STS1, VT1.5 Near-End.)
FRCDWKSWBK	Forced Working Switched Back, working facility was manually force switched from protection to the main facility. (OC12, OC3, STS1, VT1.5 Near-End.)
FRCDWKSWPR	Forced Working Switched to Protection, working facility was manually force switched to the protection facility. (OC12, OC3, STS1, VT1.5 Near-End.)
IDLE	Idle, incoming idle detected. (STS1, STS3C, VT1.5 Near-End.)
INHMPREPT	Inhibit Performance Monitoring Report, PM report capability inhibited. (OC12, OC3, EC1, STS1, STS3C, VT1.5 Near-End.)
L2LCONFAIL	Layer 2 Line DCC Connection Failure. (OC12, OC3 Near-End.)
L2SCONFAIL	Layer 2 Section DCC Connection Failure. (OC12, OC3 Near-End.)
LDCCDLFL	Line DCC Data Link Failure. (OC12, OC3 Near-End.)
LOCKOUTOFPR	LockOut Of Protection facility. (OC12, OC3 Near-End.)
LOF	Loss Of Frame detected. (OC12, OC3, EC1 Near-End.)
LOP	Loss Of Pointer detected. (STS1, STS3C, VT1.5 Near-End.)
LOS	Loss Of Signal detected. (OC12, OC3, EC1 Near-End.)

	MAN	Manual removal (logical removal was performed on the facility). (OC12, OC3, EC1, STS1, STS3C, VT1.5 Near-End.)
	MANWKSWBK	Manual Working Switched Back, working facility was manually switched from protection to the main facility. (OC12, OC3, STS1, VT1.5 Near-End.)
	MANWKSWPR	Manual Working Switched to Protection, working facility was manually switched to the protection facility. (OC12, OC3, STS1, VT1.5 Near-End.)
	PDI	Incoming PDI signal detected (STS1).
	RFI	Remote Failure Indication detected. (OC12, OC3, EC1, STS1, STS3C, VT1.5 Far-End.)
	ROLLMON	Roll Monitoring, receive-side RTO port being monitored for valid signal. (VT1.5 Near-End.)
	SDBER	Signal Degrade Bit Error Rate detected. (OC12, OC3, STS1, VT1.5 Near-End.)
	SDCCDLFL	Section DCC Data Link Failure. (OC12, OC3 Near-End.)
	SLMF	Signal Label Match Failure detected. (STS1, STS3C, VT1.5 Near-End.)
	WTR	Wait To Restore of protection facility. (OC12, OC3 Near-End.)
	Restrictions:	RTRV-ALM-ALL is denied if the specified CONDTYPE value is not supported for the specified LOCN value (e.g., CONDTYPE of RAI and LOCN of NEND) is entered. RTRV-ALM-ALL is denied if the DS1 CI/NI Trouble Sectionalization Premium Feature Option (PFO) is not enabled and an input value of AIS-CI, DS1ISD or RAI-CI is entered.
SRVEFF	{NSA, SA}	
	Default:	< Both service effect values >
	Addressing:	None
	Description:	Service Effect, specifies the service effect of the condition type to be retrieved. Values are:
	NSA	Non-Service Affecting
	SA	Service Affecting
LOCN	{FEND, NEND}	
	Default:	< All location values applicable to the specified condition type >
	Addressing:	None
	Description:	Location, specifies the location where the condition type is monitored. Values are:
	FEND	Far-End, events occurring at a distant network element.
	NEND	Near-End, events occurring at the system.
	Restrictions:	RTRV-ALM-ALL is denied if the specified LOCN value is not supported for the specified CONDTYPE value (e.g., CONDTYPE of RAI and LOCN of NEND is entered).
DIRN	{NA, RCV, TRMT}	
	Default:	< All applicable directions >
	Addressing:	None
	Description:	Direction, specifies the direction of the condition type being monitored. The value for DIRN is verified, but does not affect the function of the RTRV-ALM-ALL command.
	NA	Not Applicable
	RCV	Receive side
	TRMT	Transmit direction

TMPER	{15-MIN, 1-DAY}
Default:	{15-MIN}
Addressing:	None
Description:	Time Period. The value for TMPER is verified, but does not affect the function of the RTRV-ALM-ALL command.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  ["<AID> [ , <AIDTYPE> ] : <NTFCNCDE> , <CONDTYPE> , <SRVEFF> , <OCRDAT> , <OCRTM> ,
<LOCN> , [<DIRN> ] , " ]
  [/ * <Command Echo> [<CTAG>] (<CID [-VCNUM]> ) */]
;

```

OUTPUT PARAMETERS

AID	{COM} EQUIPMENT_AID: {ACM-1-2-{3-7, 10-14}} {CDA-{4, 5, 10, 11, 16, 17, 22, 23, 102, 103 }-3-1} {CDB-{5}-{1, 3}-{1, 2}} CDB-{2-43, 104-111 ,112-135, 136-141 }-{1, 3}-{1, 2} {SI36: CDB-{6-9, 12-15, 18-21, 24-43}-{1, 3}-{1-2}, {SI48: CDB-{2-43, 104-111 ,112-135, 136-141 }-{1, 3}-{1, 2} {CID-1-1-{1-12}} {CIM-1-2-{3-7, 10-14}} {CKB-{1-63, 101, 102-111 , 112-135, 136-141 }-{0}-{1-2}} {CPU-1-2-{1-2}} {DSB-{6-9, 12-15, 18-21, 24-43, 104-111 , 112-135, 136-141 }-{1, 3}-{1-2}} {DSI-{44-63}-{1-4}-{1-32}} {DSK-1-3-1, DSK-1-4-2} {EOB-{5}-{1, 3}-{1-5}} {SI48: EOB-{6-9, 12-15, 18-21, 24-43, 104-111 , 112-135, 136-141 }-{1, 3}-{1-2}, EOC: EOB-{4-5, 10-11, 16-17, 22-23, 102, 103 }-1-{1-7, 9-15}} {SI48: EP3-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42, 104-106,108-110, 136-141 }-{1, 3}-{1-18}, EP3-{9, 21, 35, 43, 107 }-3-{1-18}, EP3-{15, 27, 31, 39, 111 }-1-{1-18}} {SI36: EP3-{6-8, 12-14}-{1, 3}-{1-14}, EP3-9-3-{1-14}, EP3-15-1-{1-14}} {SI48: ES1-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42, 104-106,108-110,136-141 }-{1, 3}-{1-18}, ES1-{9, 21, 35, 43, 107 }-3-{1-18}, ES1-{15, 27, 31, 39, 111 }-1-{1-18}} {SI36: ES1-{6-8, 12-14}-{1, 3}-{1-14}, ES1-9-3-{1-14}, ES1-15-1-{1-14}} {ESA-{44-63}-{1-4}-{1-2}} {FAN-{1, 101}-0-1}, FAN-{2-63, 102-111 , 112-135, 136-141 }-{1-3}-1} {FUSE-{2-43, 102-111 , 112-135, 136-141 }-0-{1-2}} {G1EOB-{4, 5,10, 11, 16, 17, 22, 23, 102, 103 }-1-{1-7, 9-15}-{1-16},
-----	---

G1EOB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2}-{1-16},
G1EOB-{5}-{1, 3}-{1-5}-{1-16}}
{SI48:G1EP3-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42, **104-106**, **108-110**}-
{1, 3}-{1-18}-{1-2},
G1EP3-{9, 21, 35, 43, **107**}-3-{1-18}-{1-2},
G1EP3-{15, 27, 31, 39, **111**}-1-{1-18}-{1-2}}
{SI36: G1EP3 - {6-8, 12-14} - {1, 3} - {1-14} - {1-2},
G1EP3 - 9 - 3 - {1-14} - {1-2},
G1EP3 - {15} - 1 - {1-14} - {1-2} }
{SI48:G1ES1-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42, **104-106**, **108-110**}-
{1, 3}-{1-18}-{1-2},
G1ES1-{9, 21, 35, 43, **107**}-3-{1-18}-{1-2},
G1ES1-{15, 27, 31, 39, **111**}-1-{1-18}-{1-2}}
{SI36: G1ES1 - {6-8, 12-14} - {1, 3} - {1-14} - {1-2},
G1ES1 - 9 - 3 - {1-14} - {1-2},
G1ES1 - {15-1-{1-14}}-1-2 }
{G1IOB-{6-8, 12-14}-{1, 3}-{1, 3, 5, 7}-{1-3, 5-7},
G1IOB-9-3-{1, 3, 5, 7}-{1-3, 5-7},
G1IOB-15-1-{1, 3, 5, 7}-{1-3, 5-7}}
{G1IRPB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2}-{1-18} }
{G1M16-{2-5, 10-11, 16-17, 22-23, **102-103**}-3-{1-16}-{1-16}}
{G1M32-{4-5, 10-11, 16-17, 22-23, **102-103**}-3-{1-16}-{1-32},
G1M32-{5}-{1, 3}-{1-3, 6-8}-{1-32}}
{G1M40-{2-3}-{1, 3}-{1-16}-{1-32},
G1M40-{5}-{1, 3}-{4, 5, 9, 10}-{1-32}}
{G1MRPB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2}-{1-16}}
{G1O1B-{6-9, 12-15, 18-21, 24-43, 112-135}-{1, 3}-{2-9, 11-18}-{1-2}}
{G1O4M-{6-9, 12-15, 18-21, 24-43, 112-135}-{1, 3}-{2, 3, 11, 12}-{1-2}}
{G1S3M-{6-9, 12-15, 18-21, 24-43, 112-135}-{1, 3}-{4-9, 13-18}-{1-2}}
{G4EOB-{4-5, 10-11, 16-17, 22-23}-1-{1-7, 9-15}-{1-4},
G4EOB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1, 2}-{1-4},
G4EOB-{5}-{1, 3}-{1-5}-{1-4}}
{G4IOB-{6-8, 12-14}-{1, 3}-{1, 3, 5, 7}-{1-2},
G4IOB-9-3-{1, 3, 5, 7}-{1, 2},
G4IOB-15-1-{1, 3, 5, 7}-{1-2}}
{G4OXB-{44-63}-{1-4}-{1, 2}-1}
{HMU-{44-53}-{1-4}-{1-8}}
{ICM-1-2-{1, 2, 8, 9}}
{IOB-{6-8, 12-14}-{1, 3}-{1, 3, 5, 7},
IOB-9-3-{1, 3, 5, 7},
IOB-15-1-{1, 3, 5, 7}}
{IPB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2}}
{IPU-{44-63}-{1-4}-{1-8}}
{LMU-{44-53}-{1-4}-{1-32}}
{LT1-1-1-{1-6}}
{LT2-1-1-{1-6}}
{LT4-1-1-{7-16}}
{LT5-1-1-{2-6}}
{LT8-1-1-{7-16}}
{M16-{2-5, 10-11, 16-17, 22-23}-3-{1-16}}
{M32-{4-5, 10-11, 16-17, 22-23, **102**, **103**}-3-{1-16},
M32-{5}-{1, 3}-{1-3, 6-8}}
{M40-{2-3}-{1, 3}-{1-16}}
{M40-{5}-{1, 3}-{4, 5, 9, 10}}

{MCB-{2,3}-3-1}
 {O1B-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{2-9, 11-18}}
 {O4M-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{2-3, 11-12}}{MCB-{5}-{1, 3}-{1}}
 {OPD-1-3-1,
 OPD-1-4-2}
 {OXB-{44-63}-{1-4}-{1-2}}
 {P39-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-3},
 P39-{4, 5, 10, 11, 16, 17, 22, 23, **102, 103**}-1-{1-3},
 P39-{4, 5, 10, 11, 16, 17, 22, 23, **102, 103**}-3-{1-4},
 P39-{5}-{1, 3}-{1-4}}
 {P56-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-5},
 P56-{2-3}-{1, 3}-{1-4},
 P56-{4, 5, 10, 11, 16, 17, 22, 23, **102, 103**}-1,3-{1-5},
 P56-{5}-{1, 3}-{1-4}}
 {PDU-{2-43, **102-111**, 112-135, **136-141**}-0-1}
 {PRT-{44-63}-{1-4}-{8, 16, 24, 32}}
 {PSF-1-{3, 4}-{1, 2},
 PSF-{44-63}-{1-4}-{1-2}}
 {PST-1-{3, 4}-{1-2}}
 {QUAD-{44-63}-{1-4}-{1-4}}
 {RDU-{44-63}-0-1}
 {RPB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2}}
 {S3M-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{4-9, 13-18}}
 {SBT-1-2-{1-4}}
 {SHELF-{4-43, 102-141}-{1, 3}-1}
 {SHELF-{5}-{1, 3}-{1}}
 {SIO-1-2-{1-2, 8-9}}
 {SPB-{2-43, **102-111**, 112-135, **136-141**}-{1, 3}-{1-2}}
 {SPB-{5}-{1, 3}-{1, 2}}
 {SWI-{44-63}-{1-4}-{1-7, 9-15, 17-23, 25-31}}
 DS1_AID:
 {T1-{1-59392}} (T1-DS1#)
 {T3T1-{1-4800}-{1-28}} (T3T1-DS3#-DS1#)
 {EC1T1-{1-3840}-{1-28}} (EC1T1-EC1/STS1/DS3#-DS1#)
 {EC1T1-{1-3840}-{1-7}-{1-4}} (EC1T1-EC1/STS1#-VTGrp#-VT1/DS1#)
 {OC3T1-{1-2240}-{1-3}-{1-28}} (OC3T1-OC3#-STS1/DS3#-DS1#)
 {OC3T1-{1-2240}-{1-3}-{1-7}-{1-4}} (OC3T1-OC3#-STS1#-VTGrp#-VT1/DS1#)
 {OC12T1-{1-560}-{1-4}-{1-3}-{1-28}} (OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)
 {OC12T1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}} (OC12T1-OC12#-STM1#-STS1#-VTGrp#-VT1/DS1#)
 TMG_AID:
 {TMG-{0, 1}}
 F3_AID:
 {T3F3-{1-4800}-{1-14}} (T3F3-DS3#-Fractional_DS3#)
 DS3_AID:
 {T3-{1-4800}} (T3-DS3#)
 {EC1T3-{1-3840}} (EC1T3-EC1/STS1/DS3#)
 {OC3T3-{1-2240}-{1-3}} (OC3T3-OC3#-STS1/DS3#)
 {OC12T3-{1-560}-{1-4}-{1-3}} (OC12T3-OC12#-STM1#-STS1/DS3#)
 OC3_AID:
 {OC3-{1-2240}} (OC3-OC3#)
 OC12_AID:

{OC12-{1-560}}	(OC12-OC12#)
EC1_AID:	
{EC1-{1-3840} }	(EC1-EC1/STS1#)
STS1_AID:	
{EC1STS1-{1-3840}}	(EC1STS1-EC1/STS1#)
{OC3STS1-{1-2240}-{1-3}}	(OC3STS1-OC3#-STS1#)
{OC12STS1-{1-560}-{1-4}-{1-3}}	(OC12STS1-OC12#-STM1#-STS1#)
STS3C_AID:	
{OC3STS3C-{1-2240}}	(OC3STS3C-OC3#-STS3C#)
{OC12STS3C-{1-560}-{1-4}}	(OC12STS3C-OC12#-STM1/STS3C#)
VT1_AID:	
{EC1VT1-{1-3840}-{1-7}-{1-4}}	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)
{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)
{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	
(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)	

Access IDentifier, identifies the specific entity pertaining to the condition type being retrieved.

AIDTYPE {EC1, EQPT, F3, OC12, OC3, STS1, STS3C, T1, T3, VT1}
AID Type, identifies the type of AID for the condition type being retrieved. Values are:

EC1	EC1 AID being reported
EQPT	Equipment AID being reported
F3	F3 AID being reported
OC12	OC12 AID being reported
OC3	OC3 AID being reported
STS1	STS1 AID being reported
STS3C	STS3C AID being reported
T1	DS1 or TMG AID being reported
T3	DS3 AID being reported
VT1	VT1.5 AID being reported

NTFCNCDE {CR, MJ, MN}
Notification Code, identifies the notification code generated by the system when the condition occurred. Values are:

CR	Critical Alarm
MJ	Major Alarm
MN	Minor Alarm

CONDTYPE EQUIPMENT_CONDTYPE:{ALMCKT, BKUPMEMP, BKUPMEMS, BPMISM, BPTERM, CARLOS, CD, CLKLCK0, CLKLCK1, CNTRLRFL, CONTBUS, CONTCOM, CONTR, CTNEQPT, DATALCK0, DATALCK1, DBF, DBFFT, DCCEQPT, DTLCKCPYFL, DUPMACADDR, DUPTARPENTRY, FA, FANEQPT, FWMISM, GT1, GT4, IMPROPRMVL, INHSWDX, INHSWPR, INHSWWKG, INIT, INTERR, LOCKOUT, LOTRI, MAN, MANWKSWPR, MISC-1, OSIPARMISM, PRCDRERR, PWR, RARFAIL, SWFTDWN, SYNCEQPT, TERM-EC1, TERM-OC12, TERM-OC3, TERM-T1, TERM-T3, TERM-T3EC1, TSA, TSI, WKSWPR, XIDMISM},
COMMON_CONDTYPE:{DATAFLT, EUA, FRNGSYNC, FSTSYNC, GOS-EC1, GOS-OC12, GOS-OC3, GOS-STs1, GOS-STs3C, GOS-T1, GOS-T3, GOS-VT1, HLDovRSync, INHFL, INIT, ITMIP, MANSELDataCPY0, MANSELDataCPY1, MANSWTOPRI, MANSWTOSEC, PAINTGRT, RCVRY, SWTOPRI, SWTOSEC, UPGRD1344, UPGRD2688},
DS1_NEAR-END_CONDTYPE:{ACTLPBK, AIS, AIS-CI, ALWCBLPBK, DS1ISD, EOC, INHPMREPT, LOF, LOS, MAN, RVCBLPBK, ROLLMON, XMTCLPBK},
DS1_FAR-END_CONDTYPE:{RAI, RAI-CI},

TMG_NEAR-END_CONDTYPE:{AIS, LOF, LOS, SLTMSIG, SYNCPRI, SYNCSEC, SYNCSTATQUAL},
F3_CONDTYPE:{INHPMREPT},
DS3_NEAR-END_CONDTYPE:{1TO6LOF, 7LOF, ACTLPBK, AICMIS, AIS, FLTESC, INHPMREPT, ISD, LOF, LOS, MAN},
DS3_FAR-END_CONDTYPE:{AIS, DS2YEL, FEACEQPT, ISD, LOF, LOS, RAI},
OC12_NEAR-END_CONDTYPE:{ACTLPBK, AIS, DUPTARPEENTRY, EBER, ESW, FRCDWKS WBK, FRCDWKS WPR, INHPMREPT, L2LCONFAL, L2SCONFAL, LDCCDLFL, LOCKOUTOFPR, LOF, LOS, MAN, MANWKS WBK, MANWKS WPR, SDBER, SDCCDLFL, WTR},
OC12_FAR-END_CONDTYPE:{RFI},
OC3_NEAR-END_CONDTYPE:{ACTLPBK, AIS, DUPTARPEENTRY, EBER, ESW, FRCDWKS WBK, FRCDWKS WPR, INHPMREPT, L2LCONFAL, L2SCONFAL, LDCCDLFL, LOCKOUTOFPR, LOF, LOS, MAN, MANWKS WBK, MANWKS WPR, SDBER, SDCCDLFL, WTR},
OC3_FAR-END_CONDTYPE:{RFI},
EC1_NEAR-END_CONDTYPE:{ACTLPBK, AIS, INHPMREPT, LOF, LOS, MAN},
EC1_FAR-END_CONDTYPE:{RFI},
STS1_NEAR-END_CONDTYPE:{ACTLPBK, AIS, EBER, FLTESC, FRCDWKS WBK, FRCDWKS WPR, IDLE, INHPMREPT, LOP, MAN, MANWKS WBK, MANWKS WPR, PDI, SDBER, SLMF},
STS1_FAR-END_CONDTYPE:{RFI},
STS3C_NEAR-END_CONDTYPE:{ACTLPBK, AIS, IDLE, INHPMREPT, LOP, MAN, SLMF},
STS3C_FAR-END_CONDTYPE:{RFI},
VT1_NEAR-END_CONDTYPE:{ACTLPBK, AIS, EBER, FLTESC, FRCDWKS WBK, FRCDWKS WPR, IDLE, INHPMREPT, LOP, MAN, MANWKS WBK, MANWKS WPR, ROLLMON, SDBER, SLMF},
VT1_FAR-END_CONDTYPE:{RFI}

Condition Type, identifies the condition type being retrieved. (Refer to Appendix C for a list of all condition types.) Values are:

Output Values for EQUIPMENT CONDITION TYPES are:

ALMCKT	Alarm Circuit, RDU/RSP failure detected.
BKUPMEMP	Backup Memory—Primary, magnetic disk backup failure.
BKUPMEMS	Backup Memory—Secondary, optical disk/tape drive back-up failure.
BPMISM	Backplane Mismatch, mismatch between the provisioned shelf and the installed shelf backplane.
BPTERM	Backplane Termination failure detected in the SI48 I/O, EOC, End Stage, or Center Stage shelf.
CARLOS	Carrier Loss, loss of carrier event during IEEE 802.3 frame transmission on the LAN.
CD	Control and Display interface audit error detected.
CLKLCK0	Clock Lock 0, the clock path of the I/O, EOC, ES, and CS locked to clock bus 0.
CLKLCK1	Clock Lock 1, the clock path of the I/O, EOC, ES, and CS locked to clock bus 1.
CNTRLRFL	Controller Failure, LAPD or LAN controller failed set on the DSB.
CONTBUS	Control Bus, shelf control bus interface failure.
CONTCOM	Control Communication equipment failure.
CONTR	Control processor equipment failure.
CTNEQPT	Connection Equipment, facility/circuit interconnection equipment failure.
DATALCK0	Data Lock 0, I/O shelf/quad locked to databus 0.

DATALCK1	Data Lock 1, I/O shelf/quad locked to databus 1.
DBF	Database Backup Failure, OPD database backup failure detected (on second try).
DBFFT	Database Backup Failed on First Try, OPD database backup failure detected on first try.
DCCEQPT	Data Communication Channel Equipment, DCC Server Board failed.
DTLCKCPYFL	Data Lock Copy Fail, I/O modules in shelf/quad not locked to the copy specified.
DUPMACADDR	Duplicate MAC Address detected on the LAN.
DUPTARPEENTRY	Duplicate TARP adjacency table.
FA	Fuse Alarm, a PDU/RDU/RSP circuit breaker or PDU fuse has failed.
FANEQPT	Fan Equipment, one or more of the fans in a fan assembly failed.
FWMISM	Firmware Mismatch, firmware version number does not match that in the system database.
GT1	GTI Cable fault for GTI cable carrying an STM1 signal.
GT4	GTI Cable fault for GTI cable carrying an STM4 signal.
IMPROPRMVL	Improper Removal, result of a physical circuit pack removal that was not preceded by a logical removal.
INHSDWX	Inhibit Switch Duplex, automatic copy switching of duplex equipment inhibited.
INHSDWR	Inhibit Switch to Protection, automatic protection switching of a main circuit pack to protection unit is inhibited.
INHSDWKG	Inhibit Switch To Working, automatic switching of a main circuit pack back to working (from protection) is inhibited.
INIT	Initialization, shelf initialization in-process.
INTERR	Internal Error, internal error suspected on equipment.
LOCKOUT	LockOut of automatic revertive switching due to excessive protection switching.
LOTRI	Loss of Offboard Timing Reference Input from mate Master Clock Board circuit pack.
MAN	Manual removal (logical removal was performed on a circuit pack).
MANWKSWR	Manual Working Switched to Protection, main/working unit was manually switched to the protection unit.
MISC-1	Miscellaneous Class-1, slave MCB is not ready.
OSIPARMISM	OS Initialization Parameter Mismatch, upper layer parameters or lower layer parameters specific to the LAN or manual area addresses are mismatched between two redundant DSBs.
PRCDRERR	Procedure Error, installed equipment does not support the facility provisioning.
PWR	Power, internal power failure detected.
RARFAIL	Re-Arrangement Failed, cross-connect rearrangement through the matrix failed due to SPB communication problem.
SWFTDWN	Software Download is in process on a circuit pack.
SYNCEQPT	Synchronization Equipment failure detected.
TERM-EC1	Termination Equipment-EC1, ES1 circuit pack failure.
TERM-OC12	Termination Equipment-OC12, O4M circuit pack failure.
TERM-OC3	Termination Equipment-OC3, O1B circuit pack failure.
TERM-T1	Termination Equipment-T1, DSI circuit pack failure.

TERM-T3	Termination Equipment-T3, HMU circuit pack failure.
TERM-T3EC1	Termination Equipment-T3/EC1, EP3 circuit pack failure.
TSA	Test Session Active, maintenance test session is active on the equipment.
TSI	Time Slot Interchange equipment failure.
TSTEQPT	Test Equipment failure.
WKSWPR	Working Switched to Protection, main/working unit automatically switched to the protection unit.
XIDMISM	Connection ID Mismatch, internal Connection ID Mismatch detected in the I/O shelf/quad.
Output Values for COMMON CONDITION TYPES are:	
DATAFLT	Data integrity Fault, CRC error detected during a database read.
EUA	Emergency User Access activated.
FRNGSYNC	Free Running Synchronization, manual switch to free running clock reference synchronization mode.
FSTSYNC	Fast Acquisition Synchronization, manual or automatic switch to fast acquisition clock reference synchronization mode.
GOS-EC1	Grade of Service-EC1, system-wide EC1 GOS threshold reached.
GOS-OC12	Grade of Service-OC12, system-wide OC12 GOS threshold reached.
GOS-OC3	Grade of Service-OC3, system-wide OC3 GOS threshold reached.
GOS-ST1	Grade of Service-ST1, system-wide ST1 GOS threshold reached.
GOS-ST3C	Grade of Service-ST3C, system-wide ST3C GOS threshold reached.
GOS-T1	Grade of Service-T1, system-wide DS1 GOS threshold reached.
GOS-T3	Grade of Service-T3, system-wide DS3 GOS threshold reached.
GOS-VT1	Grade of Service-VT1, system-wide VT1.5 GOS threshold reached.
HLDOVRSYNC	Synchronization Holdover, manual or automatic switch to holdover clock reference synchronization mode.
INHFL	Inhibit Fault Locating, automatic system-wide fault isolation inhibited.
INIT	Initialization, system initialization in-process.
ITMIP	Installation Test and Maintenance (ITM) mode is set.
MANSELDATAOPY0	Manual Selection/Lock to Data Copy 0 due to execution of SELECT-COPY command.
MANSELDATAOPY1	Manual Selection/Lock to Data Copy 1 due to execution of SELECT-COPY command.
MANSWTOPRI	Manual Switch To Primary Synchronization Reference.
MANSWTOSEC	Manual Switch To Secondary Synchronization Reference.
PAINTGRT	Path Integrity Failure, a system-wide data or clock failure detected.
RCVRY	Recovery. The System level recovery has been executed. The user must issue INIT-SYS command.
SWTOPRI	Automatic Switch To Primary Synchronization Reference.
SWTOSEC	Automatic Switch To Secondary Synchronization Reference.

UPGRD1344	672 Port to 1344 Port Upgrade in Progress.
UPGRD2688	1344 Port to 2688 Port Upgrade in Progress.
Output Values for DS1, TMG, F3, and DS3 CONDITION TYPES are:	
1TO6LOF	One To Six Loss Of Frame, Incoming LOF detected on 1 to 6 DS2s embedded in the DS3.
7LOF	Seven Loss Of Frame, Incoming LOF detected on all 7 DS2s embedded in the DS3.
ACTLPBK	Active Loopback, the port is in loop back.
AICMIS	Application Identification Channel Mismatch, AIC mismatch detected.
AIS	Alarm Indication Signal, AIS detected.
AIS-CI	Remote Alarm Indication for Customer Installation detected.
ALWCBLPBK	Allow C-Bit Loopback.
DS1ISD	DS1 Idle Signal Detected, Incoming.
DS2YEL	DS2 Yellow (Remote Alarm Indication) detected on one of the DS2s embedded in the DS3.
EOC	Embedded Operations Channel, EOC failure detected.
FEACEQPT	Far-End Alarm & Control (FEAC) Equipment detected.
FLTESC	Facility Fault Escalation active.
INHPMREPT	Inhibit Performance Monitoring Report, PM report capability inhibited.
ISD	Idle Signal Detected.
LOF	Loss Of Frame detected.
LOS	Loss Of Signal detected.
MAN	Manual removal (logical removal was performed on the facility).
RAI	Remote Alarm Indication detected.
RAI-CI	Remote Alarm Indication for Customer Installation detected.
RCVCBLPBK	Receive (DS1) C-Bit Loopback.
ROLLMON	Roll Monitoring, receive-side RTO port being monitored for valid signal.
SLTMSIG	Slipping Timing Reference Signal detected.
SYNCPRI	Primary Reference Synchronization failure.
SYNCSEC	Secondary Reference Synchronization failure.

	SYNCSTATQUAL	Synchronization Status Quality.
	XMTCBLPBK	Transmit (DS1) C-Bit Loopback.
	Output Values for OC12, OC3, EC1, STS1, STS3C, and VT1.5 CONDITION TYPES are:	
	ACTLPBK	Active Loopback, the port is in loop back.
	AIS	Alarm Indication Signal, AIS detected.
	DUPTARPENTRY	Duplicate TARP adjacency table.
	EBER	Excessive Bit Error Rate detected.
	ESW	Excessive Switching, lockout of automatic revertive (OC12, OC3) switching due to excessive switching.
	FLTESC	Facility Fault Escalation active.
	FRCDWKSWBK	Forced Working Switched Back, working facility was manually force switched from protection to the main facility.
	FRCDWKSWPR	Forced Working Switched to Protection, working facility was manually force switched to the protection facility.
	IDLE	Idle, incoming idle detected.
	INHPMREPT	Inhibit Performance Monitoring Report, PM report capability inhibited.
	L2LCONFAIL	Layer 2 Line DCC Connection Failure.
	L2SCONFAIL	Layer 2 Section DCC Connection Failure.
	LDCCDLFL	Line DCC Data Link Failure.
	LOCKOUTOFPR	LockOut Of Protection facility.
	LOF	Loss Of Frame detected.
	LOP	Loss Of Pointer detected.
	LOS	Loss Of Signal detected.
	MAN	Manual removal (logical removal was performed on the facility).
	MANWKSWBK	Manual Working Switched Back, working facility was manually switched from protection to the main facility.
	MANWKSWPR	Manual Working Switched to Protection, working facility was manually switched to the protection facility.
	PDI	Incoming PDI signal detected.
	RFI	Remote Failure Indication detected.
	ROLLMON	Roll Monitoring, receive-side RTO port being monitored for valid signal.
	SDBER	Signal Degrade Bit Error Rate detected.
	SDCCDLFL	Section DCC Data Link Failure.
	SLMF	Signal Label Match Failure detected.
	WTR	Wait To Restore of protection facility.
SRVEFF	{NSA, SA} Service Effect, identifies the service effect of the condition type and notification code being retrieved. Values are: NSA Non-Service Affecting SA Service Affecting	
OCRDAT	{MONTH-DAY:{01-12} - {01-31}} Occurrence Date, identifies the date when the condition occurred. The format of OCRDAT is <MONTH_OF_YEAR> - <DAY_OF_MONTH>.	
OCRTM	{HOUR-MINUTE-SECOND:{00-23} - {00-59} - {00-59}} Occurrence Time, identifies the time when the condition occurred. The format of OCRTM is <HOUR_OF_DAY> - <MINUTE_OF_HOUR> -<SECOND_OF_MINUTE>.	

LOCN	{FEND, NEND}	Location, identifies the location where the condition type is monitored. Values are: FEND Far-End, events occurring at a distant network element. NEND Near-End, events occurring at the system. (A value of NEND is always reported for equipment or common condition types.)
DIRN	{TRMT, <NoVal>}	Direction, identifies the direction of the condition type being monitored. Values are: TRMT Transmit Direction, value returned for CONDTYPE of FLTESC. <NoVal> No Value (null) returned for all conditions other than FLTESC.

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

EFON	Equipage, Feature Option Not provided
IDNC	Input, Data Not Consistent /*Location is not consistent with <CONDITION TYPE STRING>.*/*
IDNV	Input, Data Not Valid /* Invalid notification code specified: <NOTIFICATION CODE STRING>.*/* /* Invalid service effect specified: <SERVICE EFFECT STRING>.*/* /* Invalid location specified: <LOCATION STRING>.*/* /* Invalid condition type specified: <CONDITION TYPE STRING>.*/* /* Condition type is not MISC but has a -#: <CONDITION TYPE STRING>.*/* /* Condition type is MISC but has no -#.*/ /* Condition type is TERM but - <STRING> is not valid.*/* /* Condition type is GOS but -<STRING> is not valid.*/* /* Invalid parameter specified.*/*
IIAC	Input, Invalid ACcess identifier /* AID for RTRV-ALM-ALL command must be ALL.*/*
SROF	Status, Requested Operation Failed /* rpt_file error - <ERRNO>, status = <STATUS>.*/* /* Cannot open <FILENAME>.*/* /* nrl_rpt_print error - no transaction, msgtype = <MSGTYPE>.*/* /* rpt_print error - <ERRNO>, status = <STATUS>.*/*

EXAMPLES

In the following example, all existing alarms in the system are retrieved.

```
RTRV-ALM-ALL: :ALL;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated a CTAG value of P71066. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M P71066 COMPLD  
  "EP3-9-3-8,EQPT:MN,TERM-T3EC1,NSA,07-01,07-30-28,NEND,,,"  
  "SPB-8-1-2,EQPT:MN,INHSWDX,NSA,07-02,10-05-16,NEND,,,"  
  "EP3-7-1-3,EQPT:MN,TERM-T3EC1,NSA,07-02,16-12-33,NEND,,,"  
  "T3T1-1297-10,T1:MN,LOF,SA,07-02,08-44-30,NEND,,,"  
  "T3T1-1298-4,T1:MN,LOF,SA,07-02,07-30-28,NEND,,,"  
  "T3-1163,T3:MJ,LOF,SA,07-02,05-15-34,NEND,,,"  
  "T3-1300,T3:MJ,AIS,SA,07-02,09-05-12,NEND,,,"  
/* RTRV-ALM-ALL::ALL [P71066] (2) */  
;
```

RELATED COMMANDS

```
CLR-ALM-EQPT  
RTRV-ALM-COM  
RTRV-ALM-EC1  
RTRV-ALM-EQPT  
RTRV-ALM-F3  
RTRV-ALM-OC12  
RTRV-ALM-OC3  
RTRV-ALM-STS1  
RTRV-ALM-STS3C  
RTRV-ALM-T1  
RTRV-ALM-T3  
RTRV-ALM-VT1  
RTRV-ATTR-COM  
RTRV-ATTR-EC1  
RTRV-ATTR-EQPT  
RTRV-ATTR-F3  
RTRV-ATTR-OC12  
RTRV-ATTR-OC3  
RTRV-ATTR-STS1  
RTRV-ATTR-STS3C  
RTRV-ATTR-T1  
RTRV-ATTR-T3  
RTRV-ATTR-VT1  
RTRV-COND-ALL  
RTRV-COND-COM  
RTRV-COND-EC1  
RTRV-COND-EQPT  
RTRV-COND-F3  
RTRV-COND-OC12  
RTRV-COND-OC3  
RTRV-COND-STS1  
RTRV-COND-STS3C  
RTRV-COND-T1
```

RTRV-COND-T3
RTRV-COND-VT1
RTRV-PFO
RTRV-GTI-STATUS
RTRV-XIDMISM
SET-ATTR-COM
SET-ATTR-EC1
SET-ATTR-F3
SET-ATTR-EQPT
SET-ATTR-OC12
SET-ATTR-OC3
SET-ATTR-STS1
SET-ATTR-STS3C
SET-ATTR-T1
SET-ATTR-T3
SET-ATTR-VT1

RELATED AUTONOMOUS RESPONSES

REPT^ALM^COM
REPT^ALM^EC1
REPT^ALM^F3
REPT^ALM^EQPT
REPT^ALM^OC12
REPT^ALM^OC3
REPT^ALM^STS1
REPT^ALM^STS3C
REPT^ALM^T1
REPT^ALM^T3
REPT^ALM^VT1

COMMAND CODE: **RTRV-ALM-COM**
COMMAND NAME: **RETRIEVE ALARM COMMON**

PURPOSE

The RTRV-ALM-COM command retrieves the current status of any existing common (no specific entity) alarm conditions for any matching combination of a specified condition type, notification code, and service effect (i.e., the CONDTYPE, NTFNCNDE, and SRVEFF parameters provide a filter for retrieving existing alarm conditions satisfying the specified input parameters).

The successful response for a RTRV-ALM-COM command contains one line of parsable output data, in ascending order by date and time of occurrence, for each alarm condition being reported.

If there are no existing alarm conditions with attributes matching the specified combination of condition type, notification code, and service effect, then the command is completed with no line of parsable output data provided.

A RTRV-ALM-COM command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-ALM-COM: [TID] : [AID] : [CTAG] :: [NTFCNCNDE] , [CONDTYPE] , [SRVEFF] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.						
AID	{COM} Default: {COM} Addressing: None Description: Common AID, used when a specific AID is not identified.						
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.						
NTFCNCNDE	{CR, MJ, MN} Default: < All applicable notification codes listed above > Addressing: None Description: Notification Code, specifies the notification code of the condition type to be retrieved. Values are: <table><tr><td>CR</td><td>Critical Alarm</td></tr><tr><td>MJ</td><td>Major Alarm</td></tr><tr><td>MN</td><td>Minor Alarm</td></tr></table>	CR	Critical Alarm	MJ	Major Alarm	MN	Minor Alarm
CR	Critical Alarm						
MJ	Major Alarm						
MN	Minor Alarm						
CONDTYPE	{DATAFLT, EUA, FRNGSYNC, FSTSYNC, GOS-EC1, GOS-OC12, GOS-OC3, GOS-ST31, GOS-ST33C, GOS-T1, GOS-T3, GOS-VT1, HLDVRSYNC, INHFL, INIT, ITMIP, MANSELDTACPY0, MANSELDTACPY1, MANSWTOPRI, MANSWTOTSEC, PAINTGRT, RCVRY, SWTOPRI, SWTOTSEC, UPGRD1344, UPGRD2688} Default: < All applicable condition types listed above > Addressing: None Description: Condition Type, specifies the condition type to be retrieved. (Refer to Appendix C for a list of all condition types.) Values are: <table><tr><td>DATAFLT</td><td>Data integrity Fault, CRC error detected during a database read.</td></tr></table>	DATAFLT	Data integrity Fault, CRC error detected during a database read.				
DATAFLT	Data integrity Fault, CRC error detected during a database read.						

EUA	Emergency User Access activated.
FRNGSYNC	Free Running Synchronization, manual switch to free running clock reference synchronization mode.
FSTSYNC	Fast Acquisition Synchronization, manual or automatic switch to fast acquisition clock reference synchronization mode.
GOS-EC1	Grade of Service-EC1, system-wide EC1 GOS threshold reached.
GOS-OC12	Grade of Service-OC12, system-wide OC-12 GOS threshold reached.
GOS-OC3	Grade of Service-OC3, system-wide OC-3 GOS threshold reached.
GOS-ST1	Grade of Service-ST1, system-wide STS-1 GOS threshold reached.
GOS-ST3C	Grade of Service-ST3C, system-wide STS-3C GOS threshold reached.
GOS-T1	Grade of Service-T1, system-wide DS1 GOS threshold reached.
GOS-T3	Grade of Service-T3, system-wide DS3 GOS threshold reached.
GOS-VT1	Grade of Service-VT1, system-wide VT1.5 GOS threshold reached.
HLDOVRSYNC	Synchronization Holdover, manual or automatic switch to holdover clock reference synchronization mode.
INHFL	Inhibit Fault Locating, automatic system-wide fault isolation inhibited.
INIT	Initialization, system initialization in-process.
ITMIP	Installation Test and Maintenance (ITM) mode is set.
MANSELDATAOPY0	Manual Selection/Lock to Data Copy 0 due to execution of SELECT-COPY command.
MANSELDATAOPY1	Manual Selection/Lock to Data Copy 1 due to execution of SELECT-COPY command.
MANSWTOPRI	Manual Switch To Primary Synchronization Reference.
MANSWTOSEC	Manual Switch To Secondary Synchronization Reference.
PAINTGRT	Path Integrity Failure, a system-wide data or clock failure detected.
RCVRY	Recovery. The System level recovery has been executed.
SWTOPRI	Automatic Switch To Primary Synchronization Reference.
SWTOSEC	Automatic Switch To Secondary Synchronization Reference.
UPGRD1344	672 Port to 1344 Port Upgrade in Progress.
UPGRD2688	1344 Port to 2688 Port Upgrade in Progress.
SRVEFF	{NSA, SA}
	Default: < Both service effect values >
	Addressing: None
	Description: Service Effect, specifies the service effect of the condition type to be retrieved. Values are:
	NSA Non-Service Affecting
	SA Service Affecting

SUCCESSFUL RESPONSE FORMAT

<SID> <YY-MM-DD> <HH:MM:SS>

```
M <CTAG> COMPLD
  [ "COM:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,<OCRDAT>,<OCRTM>,<LOCN>,<LOCN>," ]
  [ /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */ ]
;
```

OUTPUT PARAMETERS

NTFCNCDE	{CR, MJ, MN}	Notification Code, identifies the notification code generated by the system when the condition occurred. Values are:
	CR	Critical Alarm
	MJ	Major Alarm
	MN	Minor Alarm
CONDTYPE	{DATAFLT, EUA, FRNGSYNC, FSTSYNC, GOS-EC1, GOS-OC12, GOS-OC3, GOS-STS1, GOS-STS3C, GOS-T1, GOS-T3, GOS-VT1, HLDVRSYNC, INHFL, INIT, ITMIP, MANSELDATAOPY0, MANSELDATAOPY1, MANSWTOPRI, MANSWTOSEC, PAINTGRT, RCVRY, SWTOPRI, SWTOSEC, UPRD1344, UPRD2688}	Condition Type, identifies the condition type being retrieved. (Refer to Appendix C for a list of all condition types.) Values are:
	DATAFLT	Data integrity Fault, CRC error detected during a database read.
	EUA	Emergency User Access activated.
	FRNGSYNC	Free Running Synchronization, manual switch to free running clock reference synchronization mode.
	FSTSYNC	Fast Acquisition Synchronization, manual or automatic switch to fast acquisition clock reference synchronization mode.
	GOS-EC1	Grade of Service-EC1, system-wide EC1 GOS threshold reached.
	GOS-OC12	Grade of Service-OC12, system-wide OC-12 GOS threshold reached.
	GOS-OC3	Grade of Service-OC3, system-wide OC-3 GOS threshold reached.
	GOS-STS1	Grade of Service-STS1, system-wide STS-1 GOS threshold reached.
	GOS-STS3C	Grade of Service-STS3C, system-wide STS-3C GOS threshold reached.
	GOS-T1	Grade of Service-T1, system-wide DS1 GOS threshold reached.
	GOS-T3	Grade of Service-T3, system-wide DS3 GOS threshold reached.
	GOS-VT1	Grade of Service-VT1, system-wide VT1.5 GOS threshold reached.
	HLDVRSYNC	Synchronization Holdover, manual or automatic switch to holdover clock reference synchronization mode.
	INHFL	Inhibit Fault Locating, automatic system-wide fault isolation inhibited.
	INIT	Initialization, system initialization in-process.
	ITMIP	Installation Test and Maintenance (ITM) mode is set.
	MANSELDATAOPY0	Manual Selection/Lock to Data Copy 0 due to execution of SELECT-COPY command.
	MANSELDATAOPY1	Manual Selection/Lock to Data Copy 1 due to execution of SELECT-COPY command.

MANSWTOPRI
MANSWTOSEC

Manual Switch To Primary Synchronization Reference.
Manual Switch To Secondary Synchronization Reference.

	PAINTGRT	Path Integrity Failure, a system-wide data or clock failure detected.
	RCVRY	Recovery. The System level recovery has been executed. The user must issue INIT-SYS command.
	SWTOPRI	Automatic Switch To Primary Synchronization Reference.
	SWTOSEC	Automatic Switch To Secondary Synchronization Reference.
	UPGRD1344	672 Port to 1344 Port Upgrade in Progress.
	UPGRD2688	1344 Port to 2688 Port Upgrade in Progress.
SRVEFF	{NSA, SA}	Service Effect, identifies the service effect of the condition type and notification code being retrieved. Values are:
	NSA	Non-Service Affecting
	SA	Service Affecting
OCRDAT	{MONTH-DAY:{01-12} - {01-31} }	Occurrence Date, identifies the date when the condition occurred. The format of OCRDAT is <MONTH_OF_YEAR> - <DAY_OF_MONTH>.
OCRTM	{HOUR-MINUTE-SECOND:{00-23} - {00-59} - {00-59} }	Occurrence Time, identifies the time when the condition occurred. The format of OCRTM is <HOUR_OF_DAY> - <MINUTE_OF_HOUR> -<SECOND_OF_MINUTE>.
LOCN	{NEND}	Location, identifies the location where the condition type is monitored. A value of NEND (Near-End) is always reported.

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/ * <Informational Error Description Text> */]
[/ * <Expanded Error Code Description> */]
[/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

```

IDNV      Input, Data Not Valid
          /* Invalid notification code specified: <NOTIFICATION CODE STRING>. */
          /* Invalid service effect specified: <SERVICE EFFECT STRING>. */
          /* Invalid condition type specified: <CONDITION TYPE STRING>. */
          /* Condition type not valid for: COM. */
          /* Condition type is GOS but -<STRING> is not valid. */
          /* Invalid parameter specified. */
IIAC      Input, Invalid ACcess identifier
          /* AID must be COM. */
SROF      Status, Requested Operation Failed
          /* rpt_file error - <ERRNO>, status = <STATUS>. */
          /* Cannot open <FILENAME>. */
          /* nrl_rpt_print error - no transaction, msgtype = <MSGTYPE>. */
          /* rpt_print error - <ERRNO>, status = <STATUS>. */

```

EXAMPLES

In the following example, any existing alarms for a condition type of INHFL are retrieved.

```
RTRV-ALM-COM::::, INHFL;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71042. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M P71042 COMPLD  
"COM:MN, INHFL, NSA, 07-01, 07-30-28, NEND, ,"  
/* RTRV-ALM-COM::::, INHFL [P71042] (1) */  
;
```

RELATED COMMANDS

```
RTRV-ALM-ALL  
RTRV-ATTR-COM  
RTRV-COND-ALL  
RTRV-COND-COM  
SET-ATTR-COM
```

RELATED AUTONOMOUS RESPONSES

```
REPT^ALM^COM
```

COMMAND CODE: **RTRV-ALM-EC1**
COMMAND NAME: **RETRIEVE ALARM EC1**

PURPOSE

The RTRV-ALM-EC1 command retrieves the current status of any existing alarm conditions for the specified EC1 port, or for the specified EC1 port and any matching combination of a specified condition type, notification code, location, and service effect (i.e., the CONDTYPE, NTFNCNDE, LOCN, and SRVEFF parameters provide a filter for retrieving existing alarm conditions satisfying the specified input parameters). The command is completed regardless of whether the EC1 port is provisioned.

The successful response for a RTRV-ALM-EC1 command contains one line of parsable output data, in ascending order by port number and ascending order by date and time of occurrence within each port number, for each alarm condition being reported. If an AID of ALL is entered, all AIDs with an existing alarm condition are reported.

If there are no existing alarm conditions with attributes matching the specified (valid) combination of AID, condition type, notification code, location, and service effect, then the command is completed with no line of parsable output data provided in the response message.

A RTRV-ALM-EC1 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-ALM-EC1 : [TID] : AID : [CTAG] : : [NTFCNCDE] , [CONDTYPE] , [SRVEFF] , [LOCN] ,
[DIRN] , [TMPER] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	EC1_AID: {EC1-{1-3840} } (EC1-EC1/STS1#) ALL_AID: {ALL} Default: Entry Required Addressing: &&-ranging and &-grouping Description: EC1 AID, identifies the EC1 port. Name-defined values are: ALL All provisioned EC1 ports in the system.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
NTFCNCDE	{CR, MJ, MN} Default: < All applicable notification codes listed above > Addressing: None Description: Notification Code, specifies the notification code of the condition type to be retrieved. Values are: CR Critical Alarm MJ Major Alarm MN Minor Alarm

CONDTYPE	NEAR-END_CONDDTYPE:{ACTLPBK, AIS, INHPMREPT, LOF, LOS, MAN}, FAR-END_CONDDTYPE:{RFI} Default: < All applicable condition types listed above > Addressing: None Description: Condition Type, specifies the condition type to be retrieved. (Refer to Appendix C for a list of all condition types.) Values are: <table> <tr> <td>ACTLPBK</td><td>Active Loopback, the EC1 port is in loop back. (Near-End only.)</td></tr> <tr> <td>AIS</td><td>Alarm Indication Signal, AIS detected. (Near-End only.)</td></tr> <tr> <td>INHPMREPT</td><td>Inhibit Performance Monitoring Report, PM report capability Inhibited. (Near-End only.)</td></tr> <tr> <td>LOF</td><td>Loss Of Frame detected. (Near-End only.)</td></tr> <tr> <td>LOS</td><td>Loss Of Signal detected. (Near-End only.)</td></tr> <tr> <td>MAN</td><td>Manual removal (logical removal was performed on the facility). (Near-End only.)</td></tr> <tr> <td>RFI</td><td>Remote Failure Indication detected. (Far-End only.)</td></tr> </table> Restrictions: RTRV-ALM-EC1 is denied if the specified CONDDTYPE value is not supported for the specified LOCN value (e.g., CONDDTYPE of AIS and LOCN of FEND is entered).	ACTLPBK	Active Loopback, the EC1 port is in loop back. (Near-End only.)	AIS	Alarm Indication Signal, AIS detected. (Near-End only.)	INHPMREPT	Inhibit Performance Monitoring Report, PM report capability Inhibited. (Near-End only.)	LOF	Loss Of Frame detected. (Near-End only.)	LOS	Loss Of Signal detected. (Near-End only.)	MAN	Manual removal (logical removal was performed on the facility). (Near-End only.)	RFI	Remote Failure Indication detected. (Far-End only.)
ACTLPBK	Active Loopback, the EC1 port is in loop back. (Near-End only.)														
AIS	Alarm Indication Signal, AIS detected. (Near-End only.)														
INHPMREPT	Inhibit Performance Monitoring Report, PM report capability Inhibited. (Near-End only.)														
LOF	Loss Of Frame detected. (Near-End only.)														
LOS	Loss Of Signal detected. (Near-End only.)														
MAN	Manual removal (logical removal was performed on the facility). (Near-End only.)														
RFI	Remote Failure Indication detected. (Far-End only.)														
SRVEFF	{NSA, SA} Default: < Both service effect values > Addressing: None Description: Service Effect, specifies the service effect of the condition type to be retrieved. Values are: <table> <tr> <td>NSA</td><td>Non-Service Affecting</td></tr> <tr> <td>SA</td><td>Service Affecting</td></tr> </table>	NSA	Non-Service Affecting	SA	Service Affecting										
NSA	Non-Service Affecting														
SA	Service Affecting														
LOCN	{FEND, NEND} Default: < All location values applicable to the specified condition type > Addressing: None Description: Location, specifies the location where the condition type is monitored. Values are: <table> <tr> <td>FEND</td><td>Far-End, events occurring at a distant network element.</td></tr> <tr> <td>NEND</td><td>Near-End, events occurring at the system.</td></tr> </table> Restrictions: RTRV-ALM-EC1 is denied if the specified LOCN value is not supported for the specified CONDDTYPE value (e.g., CONDDTYPE of AIS and LOCN of FEND is entered).	FEND	Far-End, events occurring at a distant network element.	NEND	Near-End, events occurring at the system.										
FEND	Far-End, events occurring at a distant network element.														
NEND	Near-End, events occurring at the system.														
DIRN	{NA, RCV, TRMT} Default: < All applicable directions > Addressing: None Description: Direction, specifies the direction of the condition type being monitored. The value for DIRN is verified, but does not affect the function of the RTRV-ALM-EC1 command. <table> <tr> <td>NA</td><td>Not Applicable</td></tr> <tr> <td>RCV</td><td>Receive side</td></tr> <tr> <td>TRMT</td><td>Transmit direction</td></tr> </table>	NA	Not Applicable	RCV	Receive side	TRMT	Transmit direction								
NA	Not Applicable														
RCV	Receive side														
TRMT	Transmit direction														
TMPER	{15-MIN, 1-DAY} Default: {15-MIN} Addressing: None Description: Time Period. The value for TMPER is verified, but does not affect the function of the RTRV-ALM-EC1 command.														

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
["<AID>, EC1:<NTFCNCDE>, <CONDTYPE>, <SRVEFF>, <OCRDAT>, <OCRTM>, <LOCN>, , "]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

OUTPUT PARAMETERS

AID	<p>EC1_AID: {EC1-{1-3840} } (EC1-EC1/STS1#) EC1 AID, identifies the EC1 port.</p>														
NTFCNCDE	<p>{CR, MJ, MN} Notification Code, identifies the notification code generated by the system when the condition occurred. Values are:</p> <table> <tr> <td>CR</td><td>Critical Alarm</td></tr> <tr> <td>MJ</td><td>Major Alarm</td></tr> <tr> <td>MN</td><td>Minor Alarm</td></tr> </table>	CR	Critical Alarm	MJ	Major Alarm	MN	Minor Alarm								
CR	Critical Alarm														
MJ	Major Alarm														
MN	Minor Alarm														
CONDTYPE	<p>NEAR-END_CONDTYPE:{ACTLPBK, AIS, INHPMREPT, LOF, LOS, MAN}, FAR-END_CONDTYPE:{RFI} Condition Type, identifies the condition type being retrieved. (Refer to Appendix C for a list of all condition types.) Values are:</p> <table> <tr> <td>ACTLPBK</td><td>Active Loopback, the EC1 port is in loop back.</td></tr> <tr> <td>AIS</td><td>Alarm Indication Signal, AIS detected.</td></tr> <tr> <td>INHPMREPT</td><td>Inhibit Performance Monitoring Report, PM report capability Inhibited.</td></tr> <tr> <td>LOF</td><td>Loss Of Frame detected.</td></tr> <tr> <td>LOS</td><td>Loss Of Signal detected.</td></tr> <tr> <td>MAN</td><td>Manual removal (logical removal was performed on the facility).</td></tr> <tr> <td>RFI</td><td>Remote Failure Indication detected.</td></tr> </table>	ACTLPBK	Active Loopback, the EC1 port is in loop back.	AIS	Alarm Indication Signal, AIS detected.	INHPMREPT	Inhibit Performance Monitoring Report, PM report capability Inhibited.	LOF	Loss Of Frame detected.	LOS	Loss Of Signal detected.	MAN	Manual removal (logical removal was performed on the facility).	RFI	Remote Failure Indication detected.
ACTLPBK	Active Loopback, the EC1 port is in loop back.														
AIS	Alarm Indication Signal, AIS detected.														
INHPMREPT	Inhibit Performance Monitoring Report, PM report capability Inhibited.														
LOF	Loss Of Frame detected.														
LOS	Loss Of Signal detected.														
MAN	Manual removal (logical removal was performed on the facility).														
RFI	Remote Failure Indication detected.														
SRVEFF	<p>{NSA, SA} Service Effect, identifies the service effect of the condition type and notification code being retrieved. Values are:</p> <table> <tr> <td>NSA</td><td>Non-Service Affecting</td></tr> <tr> <td>SA</td><td>Service Affecting</td></tr> </table>	NSA	Non-Service Affecting	SA	Service Affecting										
NSA	Non-Service Affecting														
SA	Service Affecting														
OCRDAT	<p>{MONTH-DAY:{01-12} - {01-31} } Occurrence Date, identifies the date when the condition occurred. The format of OCRDAT is <MONTH_OF_YEAR> - <DAY_OF_MONTH>.</p>														
OCRTM	<p>{HOUR-MINUTE-SECOND:{00-23} - {00-59} - {00-59} } Occurrence Time, identifies the time when the condition occurred. The format of OCRTM is <HOUR_OF_DAY> - <MINUTE_OF_HOUR> -<SECOND_OF_MINUTE>.</p>														
LOCN	<p>{FEND, NEND} Location, identifies the location where the condition type is monitored. Values are:</p> <table> <tr> <td>FEND</td><td>Far-End, events occurring at a distant network element.</td></tr> <tr> <td>NEND</td><td>Near-End, events occurring at the system.</td></tr> </table>	FEND	Far-End, events occurring at a distant network element.	NEND	Near-End, events occurring at the system.										
FEND	Far-End, events occurring at a distant network element.														
NEND	Near-End, events occurring at the system.														

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent /* Condition type is not consistent with <FACILITY TYPE STRING>. */ /* Location is not consistent with <FACILITY TYPE STRING> <CONDITION TYPE STRING>. */
IDNV	Input, Data Not Valid /* Invalid notification code specified: <NOTIFICATION CODE STRING>. */ /* Invalid service effect specified: <SERVICE EFFECT STRING>. */ /* Invalid location specified: <LOCATION STRING>. */ /* Invalid condition type specified: <CONDITION TYPE STRING>. */ /* Invalid parameter specified. */
IIAC	Input, Invalid ACcess identifier /* Invalid Access ID specified. */
SROF	Status, Requested Operation Failed /* rpt_file error – <ERRNO>, status = <STATUS>. */ /* Cannot open <FILENAME>. */ /* nrl_rpt_print error – no transaction, msgtype = <MSGTYPE>. */ /* rpt_print error – <ERRNO>, status = <STATUS>. */

EXAMPLES

In the following example, all existing alarms for EC1 port EC1-347 are retrieved.

```
RTRV-ALM-EC1::EC1-347;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated a CTAG value of P71066. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P71066 COMPLD
  "EC1-347,EC1:MJ,LOF,SA,07-02,08-44-30,NEND,,"
  "EC1-347,EC1:MN,MAN,NSA,07-02,09-05-12,NEND,,"
  /* RTRV-ALM-EC1::EC1-347 [P71066] (2) */
;
```

RELATED COMMANDS

RTRV-ALM-ALL
RTRV-ATTR-EC1
RTRV-COND-ALL
RTRV-COND-EC1
RTRV-DFLTATTR-EC1
SET-ATTR-EC1
SET-DFLTATTR-EC1

RELATED AUTONOMOUS RESPONSES

REPT^ALM^EC1

COMMAND CODE: **RTRV-ALM-EQPT**
COMMAND NAME: **RETRIEVE ALARM EQUIPMENT**

PURPOSE

The RTRV-ALM-EQPT command retrieves the current status of any existing alarm conditions for the specified equipment AID, or for the specified equipment AID and any matching combination of a specified condition type, notification code, and service effect (i.e., the CONDTYPE, NTFNCNDE, and SRVEFF parameters provide a filter for retrieving existing alarm conditions satisfying the specified input parameters). The command is completed regardless of whether the equipment entity is provisioned.

The successful response for a RTRV-ALM-EQPT command contains one line of parsable output data, in ascending order by date and time of occurrence, for each alarm condition being reported. If an AID of ALL is entered, a line of output is provided for each AID with an existing alarm condition.

If there are no existing alarm conditions with attributes matching the specified (valid) combination of AID, condition type, notification code, and service effect, then the command is completed with no line of parsable output data provided.

A RTRV-ALM-EQPT command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-ALM-EQPT: [TID]:AID:[CTAG]::[NTFNCNDE],[CONDTYPE],[SRVEFF];

INPUT PARAMETERS

TID	<1-20 VALID TID CHARACTERS> Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	{ACM, ALL, CDA, CDB, CID, CIM, CKB, CPU, DSB, DSI, DSK, EOB, EP3, ES1, ESA, FAN, FUSE, G1EOB, G1EP3, G1ES1, G1IOB, G1IRPB, G1M16, G1M32, G1M40, G1MRPB, G1O1B, G1O4M, G1S3M, G4EOB, G4IOB, G4OXB, HMU, ICM, IOB, IPB, IPU, LMU, LT1, LT2, LT4, LT5, LT8, M16, M32, M40, MCB, O1B, O4M, OPD, OXB, P39, P56, PDU, PRT, PSF, PST, QUAD, RDU, RPB, RSP, S3M, SBT, SHELF, SIO, SPB, SWI} Default: Entry Required Addressing: None Description: Equipment AID, identifies the equipment entities. Values are: ACM All Administrative Communications Module circuit packs. ALL All applicable AIDs pertaining to the specified CONDTYPE. CDA All Clock Distribution A circuit packs. CDB All Clock Distribution B circuit packs. CID All Communications Interface Devices (VDT, TTY, PRN). CIM All Communications Interface Module circuit packs. CKB All Circuit Breakers, circuit breakers in the PDU/RDU/RSP. CPU All Central Processing Unit circuit packs. DSB All DCC Server Boards. DSI All DS1 Input/Output circuit packs. DSK All Disk Drives. EOB All Electrical to Optical Board circuit packs. EP3 All Electrical Plesiochronous DS3/STS1 Interface circuit packs. ES1 All Electrical Plesiochronous STS1 Interface circuit packs. ESA All External DS1 Signal Adapter circuit packs.

FAN	All Fan/Blower assemblies.
FUSE	All Fuses, PDU fuses.
G1EOB	All GTI cables carrying an STM1 signal and terminating on an EOB.
G1EP3	All GTI cables carrying an STM1 signal and terminating on an EP3.
G1ES1	All GTI cables carrying an STM1 signal and terminating on an ES1.
G1IOB	All GTI cables coming into IOB module and carrying STM–1 signal.
G1IRPB	All GTI cables carrying an STM1 signal and terminating on the I/O side of the RPB circuit pack.
G1M16	All GTI cables carrying an STM1 signal and terminating on a M16.
G1M32	All GTI cables carrying an STM1 signal and terminating on a M32.
G1M40	All GTI cables carrying an STM1 signal and terminating on a M40.
G1MRPB	All GTI cables carrying an STM1 signal and terminating on the matrix side of the RPB circuit pack.
G1O1B	All GTI cables carrying an STM1 signal and terminating on an O1B.
G1O4M	All GTI cables carrying an STM1 signal and terminating on an O4M.
G1S3M	All GTI cables carrying an STM1 signal and terminating on an S3M.
G4EOB	All GTI cables carrying an STM4 signal and terminating on an EOB.
G4IOB	All GTI cables coming into IOB module and carrying STM–4 signal.
G4OXB	All GTI cables carrying an STM4 signal and terminating on an OXB.
HMU	All High Speed Muldem Unit (M23 multiplexing) circuit packs.
ICM	All Intelligent Communications Module circuit packs.
IOB	Inter–rack Optics Board
IPB	All Internal Protection Board circuit packs.
IPU	All Interface Processing Unit circuit packs.
LMU	All Low Speed Muldem Unit (M12 multiplexing) circuit packs.
LT1	All Level 1 Translator (RS–232) circuit packs.
LT2	All Level 2 Translator (RS–449/422) circuit packs.
LT4	All Level 4 Translator (ACL) circuit packs.
LT5	All Level 5 Translator (RS449/423 & LAN) circuit packs.
LT8	All Level 8 Translator (ACL) circuit packs.
M16	All Matrix End/Center Stage 16 circuit packs.
M32	All Matrix End Stage 32 circuit packs.
M40	All Matrix End/Center Stage 40 circuit packs.
MCB	All Master Clock Board circuit packs.
O1B	All Optical Interface Level 1 (OC–3) Board circuit packs.
O4M	All OC–12 Muldem (OC–12) circuit packs.
OPD	All Optical Disk Drives.
OXB	All Optical Transceiver Board circuit packs.
P39	All Power Supply, 3.9V circuit packs.
P56	All Power Supply, 5.6V circuit packs.
PDU	All Power Distribution Units.
PRT	All DS1 Protect circuit packs.
PSF	All Power Supply, 5V circuit packs.
PST	All Power Supply, 12V circuit packs.
QUAD	All DS1 Shelf Quadrants.
RDU	All Rack Distribution Units.
RPB	All Ring Protection Board circuit packs.
RSP	Rack Status Panel.
S3M	All STS3 Module circuit packs.
SBT	All System Bus Termination circuit packs.
SHELF	All I/O, EOC, End Stage, or Center Stage Shelves.
SIO	All Serial Input/Output circuit packs.

	SPB	All Satellite Processor Board circuit packs.
	SWI	All DS1 Switch circuit packs.
	Restrictions:	RTRV-ALM-EQPT is denied if the specified AID is not valid for the specified CONDTYPE. (Refer to Appendix C and CONDTYPE below.) RTRV-ALM-EQPT is denied for a 240-port LMC system if an AID of CDA is entered.
CTAG	<1-6 VALID CTAG CHARACTERS>	
	Default:	<System Assigned CTAG Value>
	Addressing:	None
	Description:	Correlation Tag, associates input command with its output responses.
NTFCNCDE	{CR, MJ, MN}	
	Default:	< All applicable notification codes listed above >
	Addressing:	None
	Description:	Notification Code, specifies the notification code of the condition type to be retrieved. Values are:
	CR	Critical Alarm
	MJ	Major Alarm
	MN	Minor Alarm
CONDTYPE	{ALMCKT, BKUPMEMP, BKUPMEMS, BPMISM, BPTERM, CARLOS, CD, CLKLCK0, CLKLCK1, CNTRLRFL, CONTBUS, CONTCOM, CONTR, CTNEQPT, DBF, DBFFT, DCCEQPT, DTLCKCPYFL, DUPMACADDR, DUPTARPNTRY, FA, FANEQPT, FWMISM, GT1, GT4, IMPROPRMVL, INHSWDX, INHSWPR, INHSWWKG, INIT, INTERR, LOCKOUT, LOTRI, MAN, MANWKSWPR, MISC-1, OSIPARMISM, PRCDRERR, PWR, RARFAIL, SWFTDWN, SYNCEQPT, TERM-EC1, TERM-OC3, TERM-OC12, TERM-T1, TERM-T3, TERM-T3EC1, TSA, TSI, WKSWPR, XIDMISM}	
	Default:	< All applicable condition types listed above >
	Addressing:	None
	Description:	Condition Type, specifies the condition type to be retrieved. (Refer to Appendix C for a list of all condition types.) Values are:
	ALMCKT	Alarm Circuit, RDU/RSP failure detected. (Valid for an AID of ALL, RDU, RSP.)
	BKUPMEMP	Backup Memory-Primary, magnetic disk backup failure. (Valid for an AID of ALL, DSK.)
	BKUPMEMS	Backup Memory-Secondary, optical disk/tape drive backup failure. (Valid for an AID of ALL, OPD.)
	BPMISM	Backplane Mismatch, mismatch between the provisioned shelf and the installed shelf backplane. (Valid for an AID of ALL, SHELF.)
	BPTERM	Backplane Termination failure detected in the SI48 I/O, EOC, End Stage, or Center Stage shelf. (Valid for an AID of ALL, SHELF.)
	CARLOS	Carrier Loss, loss of carrier event during IEEE 802.3 frame transmission on the LAN. (Valid for an AID of ALL, CID, DSB.)
	CD	Control and Display interface audit error detected. (Valid for an AID of ALL, CID.)
	CLKLCK0	Clock Lock 0, the clock path of the I/O, EOC, ES, and CS locked to clock bus 0. (Valid for an AID of ALL, QUAD, SHELF.)
	CLKLCK1	Clock Lock 1, the clock path of the I/O, EOC, ES, and CS locked to clock bus 1. (Valid for an AID of ALL, QUAD,

	SHELF.)
CNTRLRFL	Controller Failure, LAPD or LAN controller failed set on the DSB. (Valid for an AID of ALL, DSB.)
CONTBUS	Control Bus, shelf control bus interface failure. (Valid for an AID of ALL, IPU, SPB.)
CONTCOM	Control Communication equipment failure. (Valid for an AID of ALL, ACM, CIM, ICM, SIO.)
CONTR	Control processor equipment failure. (Valid for an AID of ALL, CPU, IPU, SPB.)
CTNEQPT	Connection Equipment, facility/circuit interconnection equipment failure. (Valid for an AID of ALL, EOB, IOB, IPB, LMU, OXB, RPB, S3M.)
DBF	Database Backup Failure, OPD database backup failure detected (on second try). (Valid for an AID of ALL, OPD.)
DBFFT	Database Backup Failed on First Try, OPD database backup failure detected on first try. (Valid for an AID of ALL, OPD.)
DCCEQPT	Data Communication Channel Equipment, DCC Server Board failed. (Valid for an AID of ALL, DSB.)
DTLCKCPYFL	Data Lock Copy Fail, I/O modules in shelf/quad not locked to the copy specified. (Valid for an AID of ALL, SHELF, QUAD.)
DUPMACADDR	Duplicate MAC Address detected on the LAN. (Valid for an AID of ALL, DSB.)
DUPTARPEENTRY	Duplicate TARP adjacency table. (Valid for an AID of ALL, DSB.)
FA	Fuse Alarm, a PDU/RDU/RSP circuit breaker or PDU fuse has failed. (Valid for an AID of ALL, CKB, FUSE.)
FANEQPT	Fan Equipment, one or more of the fans in a fan assembly failed. (Valid for an AID of ALL, FAN.)
FWMISM	Firmware Mismatch, firmware version number does not match that in the system database. (Valid for an AID of ALL, MCB.)
GT1	GTI Cable fault for GTI cable carrying an STM1 signal (Valid for an AID of ALL, G1EOB, G1EP3, G1ES1, G1IOB, G1IRPB, G1M16, G1M32, G1M40, G1MRPB, G1S3M, G1O1B, G1O4M.)
GT4	GTI Cable fault for GTI cable carrying an STM4 signal (Valid for an AID of ALL, G4EOB, G4IOB, G4OXB.)
IMPROPRMVL	Improper Removal, result of a physical circuit pack removal that was not preceded by a logical removal. (Valid for AID of ALL, ACM, CDA, CDB, CIM, CPU, DSB, DSI, EOB, EP3, ES1, ESA, FAN, HMU, ICM, IOB, IPB, IPU, LT1, LT2, LT4, LT5, LT8, M16, M32, M40, MCB, O1B, O4M, OXB, P39, P56, PDU, PRT, PSF, PST, RDU, RPB, S3M, SBT, SIO, SPB, SWI.)
INHSDWX	Inhibit Switch Duplex, automatic copy switching of duplex equipment inhibited. (Valid for an AID of ALL, CPU, IPU, SPB.)
INHSWPR	Inhibit Switch to Protection, automatic protection switching of a main circuit pack to protection unit is inhibited. (Valid for an AID of ALL, DSI, EP3, ES1, HMU, LMU.)
INHSDWKG	Inhibit Switch to Working, automatic switching of a main circuit pack back to working (from protection) is inhibited.

	(Valid for an AID of ALL, DSI, EP3, ES1, HMU, LMU.)
INIT	Initialization, shelf initialization in-process. (Valid for an AID of ALL, SHELF.)
INTERR	Internal Error, internal error suspected on equipment. (Valid for an AID of ALL, CDA, CDB, DSI, EOB, EP3, ES1, HMU, IOB, IPB, LMU, M16, M32, M40, MCB, O1B, O4M, OXB, RPB, S3M.)
LOCKOUT	LockOut of automatic revertive switching due to excessive protection switching. (Valid for an AID of ALL, DSI, EP3, ES1, HMU, LMU.)
LOTRI	Loss Of Offboard Timing Reference Input from mate Master Clock Board circuit pack. (Valid for an AID of ALL, MCB.)
MAN	Manual removal (logical removal was performed on a circuit pack). (Valid for an AID of ALL, ACM, CDA, CDB, CIM, CPU, DSB, DSI, DSK, EOB, EP3, ES1, HMU, ICM, IOB, IPB, IPU, LMU, M16, M32, M40, MCB, O1B, O4M, OXB, P39, P56, PSF, RPB, S3M, SIO, SPB.)
MANWKSWPR	Manual Working Switched to Protection, main/working unit was manually switched to the protection unit. (Valid for an AID of ALL, DSI, EP3, ES1, HMU, LMU.)
MISC-1	Miscellaneous Class-1, slave MCB is not ready. (Valid for an AID of ALL, MCB.)
OSIPARMISM	OS Initialization Parameter Mismatch, upper layer parameters or lower layer parameters specific to the LAN or manual area addresses are mismatched between two redundant DSBs. (Valid for an AID of ALL, DSB.)
PRCDRERR	Procedure Error, installed equipment does not support the facility provisioning. (Valid for an AID of ALL, ACM, CDA, CDB, CIM, CPU, DSB, DSI, EOB, EP3, ES1, HMU, ICM, IOB, IPB, IPU, LMU, LT1, LT2, LT4, LT5, LT8, M16, M32, M40, MCB, OXB, O1B, O4M, P39, P56, PRT, RPB, S3M, SIO, SWI.)
PWR	Power, internal power failure detected. (Valid for an AID of ALL, P39, P56, PSF, PST, RSP.)
RARFAIL	Re-Arrangement Failed, cross-connect rearrangement through the matrix failed due to SPB communication problem. (Valid for an AID of ALL, M16, M32, M40, SPB.)
SWFTDWN	Software Download is in process on a circuit pack. (Valid for an AID of ALL, ACM, CIM, DSB, EP3, ES1, ICM, IPU, M16, M32, M40, MCB, O1B, O4M, OXB, RPB, S3M, SPB.)
SYNCEQPT	Synchronization Equipment failure detected. (Valid for an AID of ALL, CDA, CDB, MCB.)
TERM-EC1	Termination Equipment-EC1, ES1 circuit pack failure. (Valid for an AID of ALL, ES1.)
TERM-OC3	Termination Equipment-OC3, O1B circuit pack failure. (Valid for an AID of ALL, O1B.)
TERM-OC12	Termination Equipment-OC12, O4M circuit pack failure. (Valid for an AID of ALL, O4M.)
TERM-T1	Termination Equipment-T1, DSI circuit pack failure. (Valid for an AID of ALL, DSI.)
TERM-T3	Termination Equipment-T3, HMU circuit pack failure. (Valid for an AID of ALL, HMU.)

	TERM-T3EC1	Termination Equipment-T3/EC1, EP3 circuit pack failure. (Valid for an AID of ALL, EP3.)
	TSA	Test Session Active, maintenance test session active on the equipment. (Valid for an AID of ALL, DSI, EP3, ES1, HMU, LMU, M16, M32, O1B, O4M, S3M.)
	TSI	Time Slot Interchange equipment failure. (Valid for an AID of ALL, M16, M32, M40.)
	WKSWPR	Working Switched to Protection, main/working unit automatically switched to the protection unit. (Valid for an AID of ALL, DSI, EP3, ES1, HMU, LMU.)
	XIDMISM	Connection ID Mismatch, internal Connection ID Mismatch detected in the I/O shelf/quad. (Valid for an AID of ALL, QUAD, SHELF)
	Restrictions:	RTRV-ALM-EQPT is denied if the specified CONDDTYPE is not valid for the specified AID.
SRVEFF	{NSA, SA}	
	Default:	< Both service effect values >
	Addressing:	None
	Description:	Service Effect, specifies the service effect of the condition type to be retrieved. Values are:
	NSA	Non-Service Affecting
	SA	Service Affecting

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  ["<AID>,EQPT:<NTFCNCDE>,<CONDDTYPE>,<SRVEFF>,<OCRDAT>,<OCRTM>,<LOCN>,, "]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

OUTPUT PARAMETERS

```

AID      EQUIPMENT_AID:
          {ACM-1-2-{3-7, 10-14}}
          {CDA-{4, 5, 10, 11, 16, 17, 22, 23, 102, 103}-3-1}
          {CDB-{5}-{1, 3}-{1, 2}}
          {CDB-{2-43,104-111,112-135,136-141}-{1, 3}-{1, 2}}
          {SI36: CDB-{6-9, 12-15, 18-21, 24-43}-{1, 3}-{1-2},
            {SI48: CDB-{2-43,104-111,112-135,136-141}-{1, 3}-{1, 2}}
          {CID-1-1-{1-12}}
          {CIM-1-2-{3-7, 10-14}}
          {CKB-{1-63, 101, 102-111, 112-135, 136-141}-{0}-{1-2}}
          {CPU-1-2-{1-2}}
          {DSB-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{1-2}}
          {DSI-{44-63}-{1-4}-{1-32}}
          {DSK-1-3-1,
            DSK-1-4-2}
          {EOB-{5}-{1, 3}-{1-5}}
          {SI48: EOB-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{1-2},
            EOC: EOB-{4-5, 10-11, 16-17, 22-23, 102, 103}-1-{1-7, 9-15}}
          {SI48: EP3-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42,
            104-106,108-110, 136-141}-{1, 3}-{1-18},
            EP3-{9, 21, 35, 43, 107}-3-{1-18},

```


EP3-{15, 27, 31, 39, **111**}-1-{1-18}}
 {SI36: EP3-{6-8, 12-14}-{1, 3}-{1-14},
 EP3-9-3-{1-14},
 EP3-15-1-{1-14}}
 {SI48: ES1-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42,
104-106, 108-110, 136-141}-{1, 3}-{1-18},
 ES1-{9, 21, 35, 43, **107**}-3-{1-18},
 ES1-{15, 27, 31, 39, **111**}-1-{1-18}}
 {SI36: ES1-{6-8, 12-14}-{1, 3}-{1-14},
 ES1-9-3-{1-14},
 ES1-15-1-{1-14}}
 {ESA-{44-63}-{1-4}-{1-2}}
 {FAN-{1, 101}-0-1},
 FAN-{2-63, **102-111**, 112-135, **136-141**}-{1-3}-1}
 {FUSE-{2-43, **102-111**, 112-135, **136-141**}-0-{1-2}}
 {G1EOB-{4, 5, 10, 11, 16, 17, 22, 23, **102, 103**}-1-{1-7, 9-15}-{1-16},
 G1EOB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2}-{1-16},
 G1EOB-{5}-{1, 3}-{1-5}-{1-16}}
 {SI48: G1EP3-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42, **104-106, 108-110**}-
 {1, 3}-{1-18}-{1-2},
 G1EP3-{9, 21, 35, 43, **107**}-3-{1-18}-{1-2},
 G1EP3-{15, 27, 31, 39, **111**}-1-{1-18}-{1-2}}
 {SI36: G1EP3-{6-8, 12-14}-{1, 3}-{1-14}-{1-2},
 G1EP3-9-3-{1-14}-{1-2},
 G1EP3-{15}-1-{1-14}-{1-2}}
 {SI48: G1ES1-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42, **104-106, 108-110**}-
 {1, 3}-{1-18}-{1-2},
 G1ES1-{9, 21, 35, 43, **107**}-3-{1-18}-{1-2},
 G1ES1-{15, 27, 31, 39, **111**}-1-{1-18}-{1-2}}
 {SI36: G1ES1-{6-8, 12-14}-{1, 3}-{1-14}-{1-2},
 G1ES1-9-3-{1-14}-{1-2},
 G1ES1-{15-1}-{1-14}-{1-2}}
 {G1IOB-{6-8, 12-14}-{1, 3}-{1, 3, 5, 7}-{1-3, 5-7},
 G1IOB-9-3-{1, 3, 5, 7}-{1-3, 5-7},
 G1IOB-15-1-{1, 3, 5, 7}-{1-3, 5-7}}
 {G1IRPB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2}-{1-18}}
 {G1M16-{2-5, 10-11, 16-17, 22-23, **102-103**}-3-{1-16}-{1-16}}
 {G1M32-{4-5, 10-11, 16-17, 22-23, **102-103**}-3-{1-16}-{1-32},
 G1M32-{5}-{1, 3}-{1-3, 6-8}-{1-32}}
 {G1M40-{2-3}-{1, 3}-{1-16}-{1-32},
 G1M40-{5}-{1, 3}-{4, 5, 9, 10}-{1-32}}
 {G1MRPB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2}-{1-16}}
 {G1O1B-{6-9, 12-15, 18-21, 24-43, 112-135}-{1, 3}-{2-9, 11-18}-{1-2}}
 {G1O4M-{6-9, 12-15, 18-21, 24-43, 112-135}-{1, 3}-{2, 3, 11, 12}-{1-2}}
 {G1S3M-{6-9, 12-15, 18-21, 24-43, 112-135}-{1, 3}-{4-9, 13-18}-{1-2}}
 {G4EOB-{4-5, 10-11, 16-17, 22-23}-1-{1-7, 9-15}-{1-4},
 G4EOB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1, 2}-{1-4},
 G4EOB-{5}-{1, 3}-{1-5}-{1-4}}
 {G4IOB-{6-8, 12-14}-{1, 3}-{1, 3, 5, 7}-{1-2},
 G4IOB-9-3-{1, 3, 5, 7}-{1, 2},
 G4IOB-15-1-{1, 3, 5, 7}-{1-2}}
 {G4OXB-{44-63}-{1-4}-{1, 2}-1}
 {HMU-{44-53}-{1-4}-{1-8}}
 {ICM-1-2-{1, 2, 8, 9}}

{IOB-{6-8, 12-14}-{1, 3}-{1, 3, 5, 7},
 IOB-9-3-{1, 3, 5, 7},
 IOB-15-1-{1, 3, 5, 7}}
 {IPB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2}}
 {IPU-{44-63}-{1-4}-{1-8}}
 {LMU-{44-53}-{1-4}-{1-32}}
 {LT1-1-1-{1-6}}
 {LT2-1-1-{1-6}}
 {LT4-1-1-{7-16}}
 {LT5-1-1-{2-6}}
 {LT8-1-1-{7-16}}
 {M16-{2-5, 10-11, 16-17, 22-23}-3-{1-16}}
 {M32-{4-5, 10-11, 16-17, 22-23, **102**, **103**}-3-{1-16},
 M32-{5}-{1, 3}-{1-3, 6-8}}
 {M40-{2-3}-{1, 3}-{1-16}}
 {M40-{5}-{1, 3}-{4, 5, 9, 10}}
 {MCB-{2,3}-3-1}
 {MCB-{5}-{1, 3}-{1}}
 {O1B-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{2-9, 11-18}}
 {O4M-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{2-3, 11-12}}
 {OPD-1-3-1,
 OPD-1-4-2}
 {OXB-{44-63}-{1-4}-{1-2}}
 {P39-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-3},
 P39-{4, 5, 10, 11, 16, 17, 22, 23, **102**, **103**}-1-{1-3},
 P39-{4, 5, 10, 11, 16, 17, 22, 23, **102**, **103**}-3-{1-4},
 P39-{5}-{1, 3}-{1-4}}
 {P56-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-5},
 P56-{2-3}-{1, 3}-{1-4},
 P56-{4, 5, 10, 11, 16, 17, 22, 23, **102**, **103**}-1,3-{1-5},
 P56-{5}-{1, 3}-{1-4}}
 {PDU-{2-43, **102-111**, 112-135, **136-141**}-0-1}
 {PRT-{44-63}-{1-4}-{8, 16, 24, 32}}
 {PSF-1-{3, 4}-{1, 2},
 PSF-{44-63}-{1-4}-{1-2}}
 {PST-1-{3, 4}-{1-2}}
 {QUAD-{44-63}-{1-4}-{1-4}}
 {RDU-{44-63}-0-1}
 {RPB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2}}
 {RSP-{1, 101}-0-1}
 {S3M-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{4-9, 13-18}}
 {SBT-1-2-{1-4}}
 {SHELF-{4-43, 102-141}-{1, 3}-1}
 {SHELF-{5}-{1, 3}-{1}}
 {SIO-1-2-{1-2, 8-9}}
 {SPB-{2-43, **102-111**, 112-135, **136-141**}-{1, 3}-{1-2}}
 {SPB-{5}-{1, 3}-{1, 2}}
 {SWI-{44-63}-{1-4}-{1-7, 9-15, 17-23, 25-31}}
 Equipment AID, identifies the equipment entity.

NTFCNCDE	{CR, MJ, MN} Notification Code, identifies the notification code generated by the system when the condition occurred. Values are: CR Critical Alarm MJ Major Alarm MN Minor Alarm
CONDTYPE	{ALMCKT, BKUPMEMP, BKUPMEMS, BPMISM, BPTERM, CARLOS, CD, CLKLCK0, CLKLCK1, CNTRLRFL, CONTBUS, CONTCOM, CONTR, CTNEQPT, DBF, DBFFT, DCCEQPT, DTLCKCPYFL, DUPMACADDR, DUPTARPEENTRY, FA, FANEQPT, FWMISM, GT1, GT4, IMPROPRMVL, INHSWDX, INHSWPR, INHSWWKG, INIT, INTERR, LOCKOUT, LOTRI, MAN, MANWKSWPR, MISC-1, OSIPARMISM, PRCDREERR, PWR, RARFAIL, SWFTDWN, SYNCEQPT, TERM-EC1, TERM-OC3, TERM-OC12, TERM-T1, TERM-T3, TERM-T3EC1, TSA, TSI, WKSWPR, XIDMISM} Condition Type, identifies the condition type being retrieved. (Refer to Appendix C for a list of all condition types.) Values are: ALMCKT Alarm Circuit, RDU/RSP failure detected. BKUPMEMP Backup Memory-Primary, magnetic disk backup failure. BKUPMEMS Backup Memory-Secondary, optical disk/tape drive backup failure. BPMISM Backplane Mismatch, mismatch between the provisioned shelf and the installed shelf backplane. BPTERM Backplane Termination failure detected in the SI48 I/O, EOC, End Stage, or Center Stage shelf. CARLOS Carrier Loss, loss of carrier event during IEEE 802.3 frame transmission on the LAN. CD Control and Display interface audit error detected. CLKLCK0 Clock Lock 0, the clock path of the I/O, EOC, ES, and CS locked to clock bus 0. CLKLCK1 Clock Lock 1, the clock path of the I/O, EOC, ES, and CS locked to clock bus 1. CNTRLRFL Controller Failure, LAPD or LAN controller failed set on the DSB. CONTBUS Control Bus, shelf control bus interface failure. CONTCOM Control Communication equipment failure. CONTR Control processor equipment failure. CTNEQPT Connection Equipment, facility/circuit interconnection equipment failure. DBF Database Backup Failure, OPD database backup failure detected (on second try). DBFFT Database Backup Failed on First Try, OPD database backup failure detected on first try. DCCEQPT Data Communication Channel Equipment, DCC Server Board failed. DTLCKCPYFL Data Lock Copy Fail, I/O modules in shelf/quad not locked to the copy specified. DUPMACADDR Duplicate MAC Address detected on the LAN. DUPTARPEENTRY Duplicate TARP adjacency table. FA Fuse Alarm, a PDU/RDU/RSP circuit breaker or PDU fuse has failed. FANEQPT Fan Equipment, one or more of the fans in a fan assembly failed. FWMISM Firmware Mismatch, firmware version number does not match that in the system database.

	GT1	GTI Cable fault for GTI cable carrying an STM1 signal.
	GT4	GTI Cable fault for GTI cable carrying an STM4 signal.
	IMPROPRMVL	Improper Removal, result of a physical circuit pack removal that was not preceded by a logical removal.
	INHSDWX	Inhibit Switch Duplex, automatic copy switching of duplex equipment inhibited.
	INHSWPR	Inhibit Switch to Protection, automatic protection switching of a main circuit pack to protection unit is inhibited.
	INHSWWKG	Inhibit Switch to Working, automatic switching of a main circuit pack back to working (from protection) is inhibited.
	INIT	Initialization, shelf initialization in-process.
	INTERR	Internal Error, internal error suspected on equipment.
	LOCKOUT	LockOut of automatic revertive switching due to excessive protection switching.
	LOTRI	Loss Of Offboard Timing Reference Input from mate Master Clock Board circuit pack.
	MAN	Manual removal (logical removal was performed on a circuit pack).
	MANWKSWPR	Manual Working Switched to Protection, main/working unit was manually switched to the protection unit.
	MISC-1	Miscellaneous Class-1, slave MCB is not ready.
	OSIPARMISM	OS Initialization Parameter Mismatch, upper layer parameters or lower layer parameters specific to the LAN or manual area addresses are mismatched between two redundant DSBs.
	PRCDRERR	Procedure Error, installed equipment does not support the facility provisioning.
	PWR	Power, internal power failure detected.
	RARFAIL	Re-Arrangement Failed, cross-connect rearrangement through the matrix failed due to SPB communication problem.
	SWFTDWN	Software Download is in process on a circuit pack.
	SYNCEQPT	Synchronization Equipment failure detected.
	TERM-EC1	Termination Equipment-EC1, ES1 circuit pack failure.
	TERM-OC3	Termination Equipment-OC3, O1B circuit pack failure.
	TERM-OC12	Termination Equipment-OC12, O4M circuit pack failure.
	TERM-T1	Termination Equipment-T1, DSI circuit pack failure.
	TERM-T3	Termination Equipment-T3, HMU circuit pack failure.
	TERM-T3EC1	Termination Equipment-T3/EC1, EP3 circuit pack failure.
	TSA	Test Session Active, maintenance test session active on the equipment.
	TSI	Time Slot Interchange equipment failure.
	WKSWPR	Working Switched to Protection, main/working unit automatically switched to the protection unit.
	XIDMISM	Connection ID Mismatch, internal Connection ID Mismatch detected in the I/O shelf/quad.
SRVEFF	{NSA, SA}	Service Effect, identifies the service effect of the condition type and notification code being retrieved. Values are:
	NSA	Non-Service Affecting
	SA	Service Affecting
OCRDAT	{MONTH-DAY:{01-12} - {01-31} }	Occurrence Date, identifies the date when the condition occurred. The format of OCRDAT is <MONTH_OF_YEAR> - <DAY_OF_MONTH>.

OCRTM {HOUR-MINUTE-SECOND:{00-23} – {00-59} – {00-59} }
Occurrence Time, identifies the time when the condition occurred. The format of OCRTM is <HOUR_OF_DAY> – <MINUTE_OF_HOUR> –<SECOND_OF_MINUTE>.

LOCN {NEND}
Location, identifies the location where the condition type is monitored. A value of NEND (Near-End) is always reported.

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV Input, Data Not Valid
/* Invalid notification code specified: <NOTIFICATION CODE STRING>. */
/* Invalid service effect specified: <SERVICE EFFECT STRING>. */
/* Invalid condition type specified: <CONDITION TYPE STRING>. */
/* Condition type is not MISC but has a -#: <CONDITION TYPE STRING>. */
/* Condition type is MISC but has no -#. */
/* Condition type is TERM but – <STRING> is not valid. */
/* Condition type not valid for: EQPT. */
/* Invalid parameter specified. */

IIAC Input, Invalid ACcess identifier
/* Invalid card type specified: <CARD TYPE STRING>. */

SROF Status, Requested Operation Failed
/* rpt_file error – <ERRNO>, status = <STATUS>. */
/* Cannot open <FILENAME>. */
/* nrl_rpt_print error – no transaction, msgtype = <MSGTYPE>. */
/* rpt_print error – <ERRNO>, status = <STATUS>. */

EXAMPLES

In the following example, all existing alarms with a condition type of TERM-T3EC1 for all applicable equipment types are retrieved.

```
RTRV-ALM-EQPT::ALL::, TERM-T3EC1;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71042. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P71042 COMPLD
  "EP3-9-3-8,EQPT:MN,TERM-T3EC1,NSA,07-01,07-30-28,NEND,, "
  "EP3-7-1-3,EQPT:MN,TERM-T3EC1,NSA,07-02,16-12-33,NEND,, "
  /* RTRV-ALM-EQPT::ALL::, TERM-T3EC1 [P71042] (1) */
;
```

RELATED COMMANDS

CLR-ALM-EQPT

3AL45392AJ

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RTRV-ALM-ALL

RTRV-ATTR-EQPT

RTRV-COND-ALL

RTRV-COND-EQPT

RTRV-GTI-STATUS

RTRV-XIDMISM

SET-ATTR-EQPT

RELATED AUTONOMOUS RESPONSES

REPT^ALM^EQPT

COMMAND CODE: **RTRV-ALM-F3**
COMMAND NAME: **RETRIEVE ALARM F3**

PURPOSE

The RTRV-ALM-F3 command retrieves the current status of any existing alarm conditions for the specified F3 port, or for the specified F3 port and any matching combination of a specified condition type, notification code, location, and service effect (i.e., the CONDTYPE, NTFNCNDE, LOCN, and SRVEFF parameters provide a filter for retrieving existing alarm conditions satisfying the specified input parameters). The command is completed regardless of whether the F3 port is provisioned.

If the specified F3 is not provisioned, i.e., it is in an UAS secondary state, the command completes successfully without producing any output.

The successful response for a RTRV-ALM-F3 command contains one line of parsable output data, in ascending order by port number and ascending order by date and time of occurrence within each port number, for each alarm condition being reported. If an AID of ALL is entered, all AIDs with an existing alarm condition are reported.

If there are no existing alarm conditions with attributes matching the specified (valid) combination of AID, condition type, notification code, location, and service effect, then the command is completed with no line of parsable output data provided in the response message.

A RTRV-ALM-F3 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-ALM-F3 : [TID] : AID : [CTAG] : : [NTFCNCDE] , [CONDTYPE] , [SRVEFF] , [LOCN] ,
[DIRN] , [TMPER] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	F3_AID: {T3F3-{1-4800}-{1-14}} (T3F3-DS3#-Fractional_DS3#) ALL_AID: {ALL} Default: Entry Required Addressing: &&-ranging and &-grouping Description: F3 AID, identifies the F3 port. Name-defined values are: ALL All provisioned F3 ports in the system.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
NTFCNCDE	{CR, MJ, MN} Default: < All applicable notification codes listed above > Addressing: None Description: Notification Code, specifies the notification code of the condition type to be retrieved. Values are: CR Critical Alarm MJ Major Alarm MN Minor Alarm

CONDTYPE	{INHMPREPT}	
	Default:	< All applicable condition types listed above >
	Addressing:	None
	Description:	Condition Type, specifies the condition type to be retrieved. (Refer to Appendix C for a list of all condition types.) Values are:
	INHMPREPT	Inhibit Performance Monitoring Report, PM report capability Inhibited.
SRVEFF	{NSA, SA}	
	Default:	< Both service effect values >
	Addressing:	None
	Description:	Service Effect, specifies the service effect of the condition type to be retrieved. Values are:
	NSA	Non-Service Affecting
	SA	Service Affecting
LOCN	{NEND}	
	Default:	< All location values applicable to the specified condition type >
	Addressing:	None
	Description:	Location, specifies the location where the condition type is monitored. Values are:
	NEND	Near-End, events occurring at the system.
DIRN	{NA, RCV}	
	Default:	{NA}
	Addressing:	None
	Description:	Direction, specifies the direction of the condition type being monitored. The value for DIRN is verified, but does not affect the function of the RTRV-ALM-F3 command.
	NA	Not Applicable
	RCV	Receive side
TMPER	{15-MIN, 1-DAY}	
	Default:	{15-MIN}
	Addressing:	None
	Description:	Time Period. The value for TMPER is verified, but does not affect the function of the RTRV-ALM-F3 command.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
["<AID>, F3 : <NTFCNCDE>, <CONDTYPE>, <SRVEFF>, <OCDAT>, <OCDTM>, <LOCN>, , "]
[/* <Command Echo> [<CTAG>] (<CID [-VCNUM] >) */]
;
```

OUTPUT PARAMETERS

AID	F3_AID:	
	{T3F3-{1-4800}-{1-14}}	(T3F3-DS3#-Fractional_DS3#)
	F3 AID, identifies the F3 port.	
NTFCNCDE	{CR, MJ, MN}	
	Notification Code, identifies the notification code generated by the system when the condition occurred. Values are:	
	CR	Critical Alarm
	MJ	Major Alarm
	MN	Minor Alarm

CONDTYPE	{INHPMREPT} Condition Type, identifies the condition type being retrieved. (Refer to Appendix C for a list of all condition types.) Values are: INHPMREPT Inhibit Performance Monitoring Report, PM report capability Inhibited.
SRVEFF	{NSA, SA} Service Effect, identifies the service effect of the condition type and notification code being retrieved. Values are: NSA Non-Service Affecting SA Service Affecting
OCRDAT	{MONTH-DAY:{01-12} - {01-31} } Occurrence Date, identifies the date when the condition occurred. The format of OCRDAT is <MONTH_OF_YEAR> - <DAY_OF_MONTH>.
OCRTM	{HOUR-MINUTE-SECOND:{00-23} - {00-59} - {00-59} } Occurrence Time, identifies the time when the condition occurred. The format of OCRTM is <HOUR_OF_DAY> - <MINUTE_OF_HOUR> - <SECOND_OF_MINUTE>.
LOCN	{NEND} Location, identifies the location where the condition type is monitored. Values are: NEND Near-End, events occurring at the system.

UNSUCCESSFUL RESPONSE FORMAT

```

M  <SID> <YY-MM-DD> <HH:MM:SS>
    <CTAG> DENY
    <ERROR CODE>
    [/* <Informational Error Description Text> */]
    [/* <Expanded Error Code Description> */]
    [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
i

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent /*Condition type is not consistent with <FACILITY TYPE STRING>.*/ /*Location is not consistent with <FACILITY TYPE STRING> <CONDITION TYPE STRING>.*/
IDNV	Input, Data Not Valid /* Invalid notification code specified: <NOTIFICATION CODE STRING>. */ /* Invalid service effect specified: <SERVICE EFFECT STRING>. */ /* Invalid location specified: <LOCATION STRING>. */ /* Invalid condition type specified: <CONDITION TYPE STRING>. */ /* Invalid parameter specified. */
IIAC	Input, Invalid ACcess identifier /*Invalid Access ID specified.*/
SROF	Status, Requested Operation Failed /*rpt_file error – <ERRNO>, status = <STATUS>*/ /*Cannot open <FILENAME>*/ /*nrl_rpt_print error – no transaction, msgtype = <MSGTYPE>*/ /* rpt print error – <ERRNO>, status = <STATUS>. */

EXAMPLES

In the following example, all existing alarms for F3 port T3F3-4-14 are retrieved.

```
RTRV-ALM-F3::T3F3-4-14;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated a CTAG value of P71066. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M P71066 COMPLD  
"T3F3-4-14,F3:MJ,INHMPREPT,NSA,07-02,08-44-30,NEND,, "  
/* RTRV-ALM-F3::T3F3-4-14 [P71066] (2) */  
;
```

RELATED COMMANDS

```
RTRV-ALM-ALL  
RTRV-ATTR-F3  
RTRV-COND-ALL  
RTRV-COND-F3  
RTRV-DFLTATTR-F3  
SET-ATTR-F3  
SET-DFLTATTR-F3
```

RELATED AUTONOMOUS RESPONSES

```
REPT^ALM^F3
```


COMMAND CODE: **RTRV-ALM-OC12**
COMMAND NAME: **RETRIEVE ALARM OC-12**

PURPOSE

The RTRV-ALM-OC12 command retrieves the current status of any existing alarm conditions for the specified OC-12 port, or for the specified OC-12 port and any matching combination of a specified condition type, notification code, location, and service effect (i.e., the CONDTYPE, NTFNCDE, LOCN, and SRVEFF parameters provide a filter for retrieving existing alarm conditions satisfying the specified input parameters). The command is completed regardless of whether the OC-12 port is provisioned.

The successful response for a RTRV-ALM-OC12 command contains one line of parsable output data, in ascending order by port number and ascending order by date and time of occurrence within each port number, for each alarm condition being reported. If an AID of ALL is entered, all AIDs with an existing alarm condition are reported.

If there are no existing alarm conditions with attributes matching the specified (valid) combination of AID, condition type, notification code, location, and service effect, then the command is completed with no line of parsable output data provided in the response message.

A RTRV-ALM-OC12 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-ALM-OC12 : [TID] : AID : [CTAG] : : [NTFCNCDE] , [CONDTYPE] , [SRVEFF] , [LOCN] ,
[DIRN] , [TMPER] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	OC12_AID: {OC12-{1-560}} (OC12-OC12#) ALL_AID: {ALL} Default: Entry Required Addressing: &&-ranging and &-grouping Description: OC12 AID, identifies the OC-12 port. Name-defined values are: ALL All provisioned OC-12 ports in the system.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
NTFCNCDE	{CR, MJ, MN} Default: < All applicable notification codes listed above > Addressing: None Description: Notification Code, specifies the notification code of the condition type to be retrieved. Values are: CR Critical Alarm MJ Major Alarm MN Minor Alarm

CONDTYPE	NEAR-END_CONDDTYPE:{ACTLPBK, AIS, DUPTARPENRY, EBER, ESW, FRCDWKSWBK, FRCDWKSWPR, INHPMREPT, L2LCONFAIL, L2SCONFAIL, LDCCDLFL, LOCKOUTOFPR, LOF, LOS, MAN, MANWKSWBK, MANWKSWPR, SDBER, SDCCDLFL, WTR},	
	FAR-END_CONDDTYPE:{RFI}	
	Default:	< All applicable condition types listed above >
	Addressing:	None
	Description:	Condition Type, specifies the condition type to be retrieved. (Refer to Appendix C for a list of all condition types.) Values are:
	ACTLPBK	Active Loopback, the OC-12 port is in loopback. (Near-End only.)
	AIS	Alarm Indication Signal, AIS detected. (Near-End only.)
	DUPTARPENRY	Duplicate TARP adjacency table. (Near-End only.)
	EBER	Excessive Bit Error Rate detected. (Near-End only.)
	ESW	Excessive Switching, lock out of automatic revertive (OC-12) switching due to excessive switching. (Near-End only.)
	FRCDWKSWBK	Forced Working Switched Back, working facility was manually force switched from protection to the main facility. (Near-End only.)
	FRCDWKSWPR	Forced Working Switched to Protection, working facility was manually force switched to the protection facility. (Near-End only.)
	INHPMREPT	Inhibit Performance Monitoring Report, PM report capability inhibited. (Near-End only.)
	L2LCONFAIL	Layer 2 Line DCC Connection Failure. (Near-End only.)
	L2SCONFAIL	Layer 2 Section DCC Connection Failure. (Near-End only.)
	LDCCDLFL	Line DCC Data Link Failure. (Near-End only.)
	LOCKOUTOFPR	LockOut Of Protection facility. (Near-End only.)
	LOF	Loss Of Frame detected. (Near-End only.)
	LOS	Loss Of Signal detected. (Near-End only.)
	MAN	Manual removal (logical removal was performed on the facility). (Near-End only.)
	MANWKSWBK	Manual Working Switched Back, working facility was manually switched back to the main facility. (Near-End only.)
	MANWKSWPR	Manual Working Switched to Protection, working facility was manually switched to the protection facility. (Near-End only.)
	RFI	Remote Failure Indication detected. (Far-End only.)
	SDBER	Signal Degrade Bit Error Rate detected. (Near-End only.)
	SDCCDLFL	Section DCC Data Link Failure. (Near-End only.)
	WTR	Wait To Restore of protection facility. (Near-End only.)
	Restrictions:	RTRV-ALM-OC12 is denied if the specified CONDDTYPE value is not supported for the specified LOCN value (e.g., CONDDTYPE of RFI and LOCN of NEND is entered).
SRVEFF	{NSA, SA}	
	Default:	< Both service effect values >
	Addressing:	None
	Description:	Service Effect, specifies the service effect of the condition type to be retrieved. Values are:
	NSA	Non-Service Affecting
	SA	Service Affecting

LOCN	{FEND, NEND}
Default:	< All location values applicable to the specified condition type >
Addressing:	None
Description:	Location, specifies the location where the condition type is monitored. Values are:
	FEND Far-End, events occurring at a distant network element.
	NEND Near-End, events occurring at the system.
Restrictions:	RTRV-ALM-OC12 is denied if the specified LOCN value is not supported for the specified CONDTYPE value (e.g., CONDTYPE of RFI and LOCN of NEND is entered).
DIRN	{NA, RCV, TRMT}
Default:	< All applicable directions >
Addressing:	None
Description:	Direction, specifies the direction of the condition type being monitored. The value for DIRN is verified, but does not affect the function of the RTRV-ALM-OC12 command.
	NA Not Applicable
	RCV Receive side
	TRMT Transmit direction
TMPER	{15-MIN, 1-DAY}
Default:	{15-MIN}
Addressing:	None
Description:	Time Period. The value for TMPER is verified, but does not affect the function of the RTRV-ALM-OC12 command.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  ["<AID>,OC12:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,<OCDAT>,<OCDTM>,<LOCN>,, "]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

OUTPUT PARAMETERS

AID	OC12_AID: {OC12-{1-560}} OC12 AID, identifies the OC-12 port.	(OC12-OC12#)
NTFCNCDE	{CR, MJ, MN} Notification Code, identifies the notification code generated by the system when the condition occurred. Values are:	
	CR Critical Alarm	
	MJ Major Alarm	
	MN Minor Alarm	

CONDTYPE	<p>NEAR-END_CONDDTYPE:{ACTLPBK, AIS, DUPTARPENRY, EBER, ESW, FRCDWKS WBK, FRCDWKS WPR, INHPMREPT, L2LCONFAIL, L2S CONFAIL, LDCCDLFL, LOCKOUTOFPR, LOF, LOS, MAN, MANWKS WBK, MANWKS WPR, SDBER, SDCCDLFL, WTR},</p> <p>FAR-END_CONDDTYPE:{RFI}</p> <p>Condition Type, identifies the condition type being retrieved. (Refer to Appendix C for a list of all condition types.) Values are:</p> <table> <tr> <td>ACTLPBK</td><td>Active Loopback, the OC-12 port is in loopback.</td></tr> <tr> <td>AIS</td><td>Alarm Indication Signal, AIS detected.</td></tr> <tr> <td>DUPTARPENRY</td><td>Duplicate TARP adjacency table.</td></tr> <tr> <td>EBER</td><td>Excessive Bit Error Rate detected.</td></tr> <tr> <td>ESW</td><td>Excessive Switching, lockout of automatic revertive (OC-12) switching due to excessive switching.</td></tr> <tr> <td>FRCDWKS WBK</td><td>Forced Working Switched Back, working facility was manually force switched from protection to the main facility.</td></tr> <tr> <td>FRCDWKS WPR</td><td>Forced Working Switched to Protection, working facility was manually force switched to the protection facility.</td></tr> <tr> <td>INHPMREPT</td><td>Inhibit Performance Monitoring Report, PM report capability inhibited.</td></tr> <tr> <td>L2LCONFAIL</td><td>Layer 2 Line DCC Connection Failure.</td></tr> <tr> <td>L2S CONFAIL</td><td>Layer 2 Section DCC Connection Failure.</td></tr> <tr> <td>LDCCDLFL</td><td>Line DCC Data Link Failure.</td></tr> <tr> <td>LOCKOUTOFPR</td><td>LockOut Of Protection facility.</td></tr> <tr> <td>LOF</td><td>Loss Of Frame detected.</td></tr> <tr> <td>LOS</td><td>Loss Of Signal detected.</td></tr> <tr> <td>MAN</td><td>Manual removal (logical removal was performed on the facility).</td></tr> <tr> <td>MANWKS WBK</td><td>Manual Working Switched Back, working facility was manually switched back to the main facility.</td></tr> <tr> <td>MANWKS WPR</td><td>Manual Working Switched to Protection, working facility was manually switched to the protection facility.</td></tr> <tr> <td>RFI</td><td>Remote Failure Indication detected.</td></tr> <tr> <td>SDBER</td><td>Signal Degrade Bit Error Rate detected.</td></tr> <tr> <td>SDCCDLFL</td><td>Section DCC Data Link Failure</td></tr> <tr> <td>WTR</td><td>Wait To Restore of protection facility.</td></tr> </table>	ACTLPBK	Active Loopback, the OC-12 port is in loopback.	AIS	Alarm Indication Signal, AIS detected.	DUPTARPENRY	Duplicate TARP adjacency table.	EBER	Excessive Bit Error Rate detected.	ESW	Excessive Switching, lockout of automatic revertive (OC-12) switching due to excessive switching.	FRCDWKS WBK	Forced Working Switched Back, working facility was manually force switched from protection to the main facility.	FRCDWKS WPR	Forced Working Switched to Protection, working facility was manually force switched to the protection facility.	INHPMREPT	Inhibit Performance Monitoring Report, PM report capability inhibited.	L2LCONFAIL	Layer 2 Line DCC Connection Failure.	L2S CONFAIL	Layer 2 Section DCC Connection Failure.	LDCCDLFL	Line DCC Data Link Failure.	LOCKOUTOFPR	LockOut Of Protection facility.	LOF	Loss Of Frame detected.	LOS	Loss Of Signal detected.	MAN	Manual removal (logical removal was performed on the facility).	MANWKS WBK	Manual Working Switched Back, working facility was manually switched back to the main facility.	MANWKS WPR	Manual Working Switched to Protection, working facility was manually switched to the protection facility.	RFI	Remote Failure Indication detected.	SDBER	Signal Degrade Bit Error Rate detected.	SDCCDLFL	Section DCC Data Link Failure	WTR	Wait To Restore of protection facility.
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OCRDAT	<p>{MONTH-DAY:{01-12} - {01-31} }</p> <p>Occurrence Date, identifies the date when the condition occurred. The format of OCRDAT is <MONTH_OF_YEAR> - <DAY_OF_MONTH>.</p>																																										
OCRTM	<p>{HOUR-MINUTE-SECOND:{00-23} - {00-59} - {00-59} }</p> <p>Occurrence Time, identifies the time when the condition occurred. The format of OCRTM is <HOUR_OF_DAY> - <MINUTE_OF_HOUR> -<SECOND_OF_MINUTE>.</p>																																										
LOCN	<p>{FEND, NEND}</p> <p>Location, identifies the location where the condition type is monitored. Values are:</p> <table> <tr> <td>FEND</td><td>Far-End, events occurring at a distant network element.</td></tr> <tr> <td>NEND</td><td>Near-End, events occurring at the system.</td></tr> </table>	FEND	Far-End, events occurring at a distant network element.	NEND	Near-End, events occurring at the system.																																						
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NEND	Near-End, events occurring at the system.																																										

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent /* Condition type is not consistent with <FACILITY TYPE STRING>. */ /* Location is not consistent with <FACILITY TYPE STRING> <CONDITION TYPE STRING>. */
IDNV	Input, Data Not Valid /* Invalid notification code specified: <NOTIFICATION CODE STRING>. */ /* Invalid service effect specified: <SERVICE EFFECT STRING>. */ /* Invalid location specified: <LOCATION STRING>. */ /* Invalid condition type specified: <CONDITION TYPE STRING>. */ /* Invalid parameter specified. */
IIAC	Input, Invalid ACcess identifier /* Invalid Access ID specified. */
SROF	Status, Requested Operation Failed /* rpt_file error – <ERRNO>, status = <STATUS>. */ /* Cannot open <FILENAME>. */ /* nrl_rpt_print error – no transaction, msgtype = <MSGTYPE>. */ /* rpt_print error – <ERRNO>, status = <STATUS>. */

EXAMPLES

In the following example, any existing alarm with a condition type of LOF for OC-12 ports OC12-113 through OC12-114 is retrieved.

```
RTRV-ALM-OC12::OC12-113&&-114:::,LOF;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated a CTAG value of P71061. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```

<SID> <YY-MM-DD> <HH:MM:SS>
M P71061 COMPLD
  "OC12-113,OC12:MJ,LOF,SA,07-02,07-30-28,NEND,, "
  /* RTRV-ALM-OC12::OC12-113&&-114:::,LOF [P71061] (1) */
;

```

In the following example, all existing alarms for OC12 port OC12-123 are retrieved.

```
RTRV-ALM-OC12::OC12-123;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated a CTAG value of P71066. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P71066 COMPLD
"OC12-123,OC12:MJ,LOF,SA,07-02,08-44-30,NEND,, "
"OC12-123,OC12:MN,MAN,SA,07-02,09-05-12,NEND,, "
/* RTRV-ALM-OC12::OC12-123 [P71066] (2) */
;
```

RELATED COMMANDS

```
RTRV-ALM-ALL
RTRV-ATTR-OC12
RTRV-COND-ALL
RTRV-COND-OC12
RTRV-DFLTATTR-OC12
SET-ATTR-OC12
SET-DFLTATTR-OC12
```

RELATED AUTONOMOUS RESPONSES

```
REPT^ALM^OC12
```

COMMAND CODE: **RTRV-ALM-OC3**
COMMAND NAME: **RETRIEVE ALARM OC-3**

PURPOSE

The RTRV-ALM-OC3 command retrieves the current status of any existing alarm conditions for the specified OC-3 port, or for the specified OC-3 port and any matching combination of a specified condition type, notification code, location, and service effect (i.e., the CONDTYPE, NTFCNCDE, LOCN, and SRVEFF parameters provide a filter for retrieving existing alarm conditions satisfying the specified input parameters). The command is completed regardless of whether the OC-3 port is provisioned.

The successful response for a RTRV-ALM-OC3 command contains one line of parsable output data, in ascending order by port number and ascending order by date and time of occurrence within each port number, for each alarm condition being reported. If an AID of ALL is entered, all AIDs with an existing alarm condition are reported.

If there are no existing alarm conditions with attributes matching the specified (valid) combination of AID, condition type, notification code, location, and service effect, then the command is completed with no line of parsable output data provided in the response message.

A RTRV-ALM-OC3 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-ALM-OC3 : [TID] : AID : [CTAG] : : [NTFCNCDE] , [CONDTYPE] , [SRVEFF] , [LOCN] ,
[DIRN] , [TMPER] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	OC3_AID: {OC3-{1-2240}} (OC3-OC3#) ALL_AID: {ALL} Default: Entry Required Addressing: &&-ranging and &-grouping Description: OC3 AID, identifies the OC-3 port. Name-defined values are: ALL All provisioned OC-3 ports in the system.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
NTFCNCDE	{CR, MJ, MN} Default: < All applicable notification codes listed above > Addressing: None Description: Notification Code, specifies the notification code of the condition type to be retrieved. Values are: CR Critical Alarm MJ Major Alarm MN Minor Alarm

CONDTYPE	NEAR-END_CONDDTYPE:{ACTLPBK, AIS, DUPTARPENRTY, EBER, ESW, FRCDWKS WBK, FRCDWKS WPR, INHPMREPT, L2LCONFAIL, L2S CONFAIL, LDCCDLFL, LOCKOUTOFPR, LOF, LOS, MAN, MANWKS WBK, MANWKS WPR, SDBER, SDCCDLFL, WTR},	
	FAR-END_CONDDTYPE:{RFI}	
	Default:	< All applicable condition types listed above >
	Addressing:	None
	Description:	Condition Type, specifies the condition type to be retrieved. (Refer to Appendix C for a list of all condition types.) Values are:
	ACTLPBK	Active Loopback, the OC-3 port is in loopback. (Near-End only.)
	AIS	Alarm Indication Signal, AIS detected. (Near-End only.)
	DUPTARPENRTY	Duplicate TARP adjacency table. (Near-End only.)
	EBER	Excessive Bit Error Rate detected. (Near-End only.)
	ESW	Excessive Switching, lock out of automatic revertive (OC-3) switching due to excessive switching. (Near-End only.)
	FRCDWKS WBK	Forced Working Switched Back, working facility was manually force switched from protection to the main facility. (Near-End only.)
	FRCDWKS WPR	Forced Working Switched to Protection, working facility was manually force switched to the protection facility. (Near-End only.)
	INHPMREPT	Inhibit Performance Monitoring Report, PM report capability inhibited. (Near-End only.)
	L2LCONFAIL	Layer 2 Line DCC Connection Failure. (Near-End only.)
	L2S CONFAIL	Layer 2 Section DCC Connection Failure. (Near-End only.)
	LDCCDLFL	Line DCC Data Link Failure. (Near-End only.)
	LOCKOUTOFPR	LockOut Of Protection facility. (Near-End only.)
	LOF	Loss Of Frame detected. (Near-End only.)
	LOS	Loss Of Signal detected. (Near-End only.)
	MAN	Manual removal (logical removal was performed on the facility). (Near-End only.)
	MANWKS WBK	Manual Working Switched Back, working facility was manually switched back to the main facility. (Near-End only.)
	MANWKS WPR	Manual Working Switched to Protection, working facility was manually switched to the protection facility. (Near-End only.)
	RFI	Remote Failure Indication detected. (Far-End only.)
	SDBER	Signal Degrade Bit Error Rate detected. (Near-End only.)
	SDCCDLFL	Section DCC Data Link Failure. (Near-End only.)
	WTR	Wait To Restore of protection facility. (Near-End only.)
	Restrictions:	RTRV-ALM-OC3 is denied if the specified CONDDTYPE value is not supported for the specified LOCN value (e.g., CONDDTYPE of RFI and LOCN of NEND is entered).
SRVEFF	{NSA, SA}	
	Default:	< Both service effect values >
	Addressing:	None
	Description:	Service Effect, specifies the service effect of the condition type to be retrieved. Values are:
	NSA	Non-Service Affecting
	SA	Service Affecting

LOCN	{FEND, NEND}	
	Default:	< All location values applicable to the specified condition type >
	Addressing:	None
	Description:	Location, specifies the location where the condition type is monitored. Values are:
	FEND	Far-End, events occurring at a distant network element.
DIRN	NEND	Near-End, events occurring at the system.
	Restrictions:	RTRV-ALM-OC3 is denied if the specified LOCN value is not supported for the specified CONDTYPE value (e.g., CONDTYPE of RFI and LOCN of NEND is entered).
	{NA, RCV, TRMT}	
	Default:	< All applicable directions >
	Addressing:	None
TMPER	Description:	Direction, specifies the direction of the condition type being monitored. The value for DIRN is verified, but does not affect the function of the RTRV-ALM-OC3 command.
	NA	Not Applicable
	RCV	Receive side
	TRMT	Transmit direction
	{15-MIN, 1-DAY}	
	Default:	{15-MIN}
	Addressing:	None
	Description:	Time Period. The value for TMPER is verified, but does not affect the function of the RTRV-ALM-OC3 command.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  ["<AID>,OC3:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,<OCRDAT>,<OCRTM>,<LOCN>,, "]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

OUTPUT PARAMETERS

AID	OC3_AID:	
	{OC3-{1-2240}}	(OC3-OC3#)
OC3 AID, identifies the OC-3 port.		
NTFCNCDE	{CR, MJ, MN}	
	Notification Code, identifies the notification code generated by the system when the condition occurred. Values are:	
	CR	Critical Alarm
	MJ	Major Alarm
	MN	Minor Alarm

CONDTYPE	<p>NEAR-END_CONDDTYPE:{ACTLPBK, AIS, DUPTARPENRY, EBER, ESW, FRCDWKS WBK, FRCDWKS WPR, INHPMREPT, L2LCONFAIL, L2S CONFAIL, LDCCDLFL, LOCKOUTOFPR, LOF, LOS, MAN, MANWKS WBK, MANWKS WPR, SDBER, SDCCDLFL, WTR},</p> <p>FAR-END_CONDDTYPE:{RFI}</p> <p>Condition Type, identifies the condition type being retrieved. (Refer to Appendix C for a list of all condition types.) Values are:</p> <table> <tr> <td>ACTLPBK</td><td>Active Loopback, the OC-3 port is in loopback.</td></tr> <tr> <td>AIS</td><td>Alarm Indication Signal, AIS detected.</td></tr> <tr> <td>DUPTARPENRY</td><td>Duplicate TARP adjacency table.</td></tr> <tr> <td>EBER</td><td>Excessive Bit Error Rate detected.</td></tr> <tr> <td>ESW</td><td>Excessive Switching, lockout of automatic revertive (OC-3) switching due to excessive switching.</td></tr> <tr> <td>FRCDWKS WBK</td><td>Forced Working Switched Back, working facility was manually force switched from protection to the main facility.</td></tr> <tr> <td>FRCDWKS WPR</td><td>Forced Working Switched to Protection, working facility was manually force switched to the protection facility.</td></tr> <tr> <td>INHPMREPT</td><td>Inhibit Performance Monitoring Report, PM report capability inhibited.</td></tr> <tr> <td>L2LCONFAIL</td><td>Layer 2 Line DCC Connection Failure.</td></tr> <tr> <td>L2S CONFAIL</td><td>Layer 2 Section DCC Connection Failure.</td></tr> <tr> <td>LDCCDLFL</td><td>Line DCC Data Link Failure.</td></tr> <tr> <td>LOCKOUTOFPR</td><td>LockOut Of Protection facility.</td></tr> <tr> <td>LOF</td><td>Loss Of Frame detected.</td></tr> <tr> <td>LOS</td><td>Loss Of Signal detected.</td></tr> <tr> <td>MAN</td><td>Manual removal (logical removal was performed on the facility).</td></tr> <tr> <td>MANWKS WBK</td><td>Manual Working Switched Back, working facility was manually switched back to the main facility.</td></tr> <tr> <td>MANWKS WPR</td><td>Manual Working Switched to Protection, working facility was manually switched to the protection facility.</td></tr> <tr> <td>RFI</td><td>Remote Failure Indication detected.</td></tr> <tr> <td>SDBER</td><td>Signal Degrade Bit Error Rate detected.</td></tr> <tr> <td>SDCCDLFL</td><td>Section DCC Data Link Failure</td></tr> <tr> <td>WTR</td><td>Wait To Restore of protection facility.</td></tr> </table>	ACTLPBK	Active Loopback, the OC-3 port is in loopback.	AIS	Alarm Indication Signal, AIS detected.	DUPTARPENRY	Duplicate TARP adjacency table.	EBER	Excessive Bit Error Rate detected.	ESW	Excessive Switching, lockout of automatic revertive (OC-3) switching due to excessive switching.	FRCDWKS WBK	Forced Working Switched Back, working facility was manually force switched from protection to the main facility.	FRCDWKS WPR	Forced Working Switched to Protection, working facility was manually force switched to the protection facility.	INHPMREPT	Inhibit Performance Monitoring Report, PM report capability inhibited.	L2LCONFAIL	Layer 2 Line DCC Connection Failure.	L2S CONFAIL	Layer 2 Section DCC Connection Failure.	LDCCDLFL	Line DCC Data Link Failure.	LOCKOUTOFPR	LockOut Of Protection facility.	LOF	Loss Of Frame detected.	LOS	Loss Of Signal detected.	MAN	Manual removal (logical removal was performed on the facility).	MANWKS WBK	Manual Working Switched Back, working facility was manually switched back to the main facility.	MANWKS WPR	Manual Working Switched to Protection, working facility was manually switched to the protection facility.	RFI	Remote Failure Indication detected.	SDBER	Signal Degrade Bit Error Rate detected.	SDCCDLFL	Section DCC Data Link Failure	WTR	Wait To Restore of protection facility.
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UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent /* Condition type is not consistent with <FACILITY TYPE STRING>. */ /* Location is not consistent with <FACILITY TYPE STRING> <CONDITION TYPE STRING>. */
IDNV	Input, Data Not Valid /* Invalid notification code specified: <NOTIFICATION CODE STRING>. */ /* Invalid service effect specified: <SERVICE EFFECT STRING>. */ /* Invalid location specified: <LOCATION STRING>. */ /* Invalid condition type specified: <CONDITION TYPE STRING>. */ /* Invalid parameter specified. */
IIAC	Input, Invalid ACcess identifier /* Invalid Access ID specified. */
SROF	Status, Requested Operation Failed /* rpt_file error – <ERRNO>, status = <STATUS>. */ /* Cannot open <FILENAME>. */ /* nrl_rpt_print error – no transaction, msgtype = <MSGTYPE>. */ /* rpt_print error – <ERRNO>, status = <STATUS>. */

EXAMPLES

In the following example, any existing alarm with a condition type of LOF for OC-3 ports OC3-113 through OC3-114 is retrieved.

```
RTRV-ALM-OC3::OC3-113&&-114:::,LOF;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated a CTAG value of P71061. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P71061 COMPLD
"OC3-113,OC3:MJ,LOF,SA,07-02,07-30-28,NEND,, "
/* RTRV-ALM-OC3::OC3-113&&-114:::,LOF [P71061] (1) */
;
```

In the following example, all existing alarms for OC-3 port OC3-123 are retrieved.

```
RTRV-ALM-OC3::OC3-123;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated a CTAG value of P71066. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M P71066 COMPLD  
"OC3-123,OC3:MJ,LOF,SA,07-02,08-44-30,NEND,, "  
"OC3-123,OC3:MN,MAN,SA,07-02,09-05-12,NEND,, "  
/* RTRV-ALM-OC3::OC3-123 [P71066] (2) */  
;
```

RELATED COMMANDS

```
RTRV-ALM-ALL  
RTRV-ATTR-OC3  
RTRV-COND-ALL  
RTRV-COND-OC3  
RTRV-DFLTATTR-OC3  
SET-ATTR-OC3  
SET-DFLTATTR-OC3
```

RELATED AUTONOMOUS RESPONSES

```
REPT^ALM^OC3
```

COMMAND CODE: **RTRV-ALM-STS1**
COMMAND NAME: **RETRIEVE ALARM STS-1**

PURPOSE

The RTRV-ALM-STS1 command retrieves the current status of any existing alarm conditions for the specified STS-1 port, or for the specified STS-1 port and any matching combination of a specified condition type, notification code, location, and service effect (i.e., the CONDTYPE, NTFNCDE, LOCN, and SRVEFF parameters provide a filter for retrieving existing alarm conditions satisfying the specified input parameters). The command is completed regardless of whether the STS-1 port is provisioned.

The successful response for a RTRV-ALM-STS1 command contains one line of parsable output data, in ascending order by port number and ascending order by date and time of occurrence within each port number, for each alarm condition being reported. If an AID of ALL is entered, all AIDs with an existing alarm condition are reported.

If there are no existing alarm conditions with attributes matching the specified (valid) combination of AID, condition type, notification code, location, and service effect, then the command is completed with no line of parsable output data provided in the response message. In addition, no line of parsable output data is provided if the specified STS-1 is embedded within a protection OC-3 or OC-12.

A RTRV-ALM-STS1 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-ALM-STS1: [TID] :AID: [CTAG] : : [NTFCNCDE] , [CONDTYPE] , [SRVEFF] , [LOCN] ,
[DIRN] , [TMPER] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >	
	Default:	<SID>
	Addressing:	None
	Description:	Target Identifier, specifies the network node TID for the command.
AID	STS1_AID:	
	{EC1STS1-{1-3840}}	(EC1STS1-EC1/STS1#)
	{OC3STS1-{1-2240}-{1-3}}	(OC3STS1-OC3#-STS1#)
	{OC12STS1-{1-560}-{1-4}-{1-3}}	(OC12STS1-OC12#-STM1#-STS1#)
	ALL_AID:	
	{ALL}	
	Default:	Entry Required
	Addressing:	&&-ranging and &-grouping
	Description:	STS1 AID, identifies the STS-1 port. Name-defined values are:
	ALL	All provisioned STS-1 ports in the system.
CTAG	< 1-6 VALID CTAG CHARACTERS >	
	Default:	< System assigned CTAG value >
	Addressing:	None
	Description:	Correlation Tag, associates input command with its output responses.
NTFCNCDE	{CR, MJ, MN}	
	Default:	< All applicable notification codes listed above >
	Addressing:	None
	Description:	Notification Code, specifies the notification code of the condition type to be retrieved. Values are:
	CR	Critical Alarm
	MJ	Major Alarm
	MN	Minor Alarm

CONDTYPE	NEAR-END_CONDDTYPE:{ACTLPBK, AIS, EBER, FLTESC, FRCDWKSWBK, FRCDWKSWPR, IDLE, INHPMREPT, LOP, MAN, MANWKSWBK, MANWKSWPR, PDI, SDBER, SLMF}, FAR-END_CONDDTYPE:{RFI}
	Default: < All applicable condition types listed above >
	Addressing: None
	Description: Condition Type, specifies the condition type to be retrieved. (Refer to Appendix C for a list of all condition types.) Values are:
	ACTLPBK Active Loopback, the STS-1 port is in loop back. (Near-End only.)
	AIS Alarm Indication Signal, AIS detected. (Near-End only.)
	EBER Excessive Bit Error Rate detected. (Near-End only.)
	FLTESC Facility Fault Escalation active. (Near-End only.)
	FRCDWKSWBK Forced Working Switched Back, working facility was manually force switched from protection to the main facility. (Near-End only.)
	FRCDWKSWPR Forced Working Switched to Protection, working facility was manually force switched to the protection facility. (Near-End only.)
	IDLE Idle, incoming idle detected. (Near-End only.)
	INHPMREPT Inhibit Performance Monitoring Report, PM report capability inhibited. (Near-End only.)
	LOP Loss Of Pointer detected. (Near-End only.)
	MAN Manual removal (logical removal was performed on the facility). (Near-End only.)
	MANWKSWBK Manual Working Switched Back, working facility was manually switched from protection to the main facility. (Near-End only.)
	MANWKSWPR Manual Working Switched to Protection, working facility was manually switched to the protection facility. (Near-End only.)
	PDI Incoming PDI signal detected (STS1)
	RFI Remote Failure Indication detected. (Far-End only.)
	SDBER Signal Degrade Bit Error Rate detected. (Near-End only.)
	SLMF Signal Label Match Failure detected. (Near-End only.)
	Restrictions: RTRV-ALM-STs1 is denied if the specified CONDDTYPE value is not supported for the specified LOCN value (e.g., CONDDTYPE of AIS and LOCN of FEND is entered).
SRVEFF	{NSA, SA}
	Default: < Both service effect values >
	Addressing: None
	Description: Service Effect, specifies the service effect of the condition type to be retrieved. Values are:
	NSA Non-Service Affecting
	SA Service Affecting

LOCN	{FEND, NEND}	
	Default:	< All location values applicable to the specified condition type >
	Addressing:	None
	Description:	Location, specifies the location where the condition type is monitored. Values are:
	FEND	Far-End, events occurring at a distant network element.
DIRN	NEND	Near-End, events occurring at the system.
	Restrictions:	RTRV-ALM-STS1 is denied if the specified LOCN value is not supported for the specified CONDTYPE value (e.g., CONDTYPE of AIS and LOCN of FEND is entered).
	{NA, RCV, TRMT}	
	Default:	< All applicable directions >
	Addressing:	None
TMPER	Description:	Direction, specifies the direction of the condition type being monitored. The value for DIRN is verified, but does not affect the function of the RTRV-ALM-STS1 command.
	NA	Not Applicable
	RCV	Receive side
	TRMT	Transmit direction
	{15-MIN, 1-DAY}	
	Default:	{15-MIN}
	Addressing:	None
	Description:	Time Period. The value for TMPER is verified, but does not affect the function of the RTRV-ALM-STS1 command.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  ["<AID>, STS1:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,<OCRDAT>,<OCRTM>,<LOCN>,<DIRN>"],"]
  [/ * <Command Echo> [<CTAG>] (<CID [-VCNUM] >) */]
;

```

OUTPUT PARAMETERS

AID	STS1_AID:	
	{EC1STS1-{1-3840}}	(EC1STS1-EC1/STS1#)
	{OC3STS1-{1-2240}-{1-3}}	(OC3STS1-OC3#-STS1#)
	{OC12STS1-{1-560}-{1-4}-{1-3}}	(OC12STS1-OC12#-STM1#-STS1#)
	STS1 AID, identifies the STS-1 port.	
NTFCNCDE	{CR, MJ, MN}	
	Notification Code, identifies the notification code generated by the system when the condition occurred. Values are:	
	CR	Critical Alarm
	MJ	Major Alarm
	MN	Minor Alarm

CONDTYPE	NEAR-END_CONDDTYPE:{ACTLPBK, AIS, EBER, FLTESC, FRCDWKSWBK, FRCDWKSWPR, IDLE, INHPMREPT, LOP, MAN, MANWKSWBK, MANWKSWPR, PDI, SDBER, SLMF}, FAR-END_CONDDTYPE:{RFI} Condition Type, identifies the condition type being retrieved. (Refer to Appendix C for a list of all condition types.) Values are:	
	ACTLPBK	Active Loopback, the STS-1 port is in loop back.
	AIS	Alarm Indication Signal, AIS detected.
	EBER	Excessive Bit Error Rate detected.
	FLTESC	Facility Fault Escalation active.
	FRCDWKSWBK	Forced Working Switched Back, working facility was manually force switched from protection to the main facility.
	FRCDWKSWPR	Forced Working Switched to Protection, working facility was manually force switched to the protection facility.
	IDLE	Idle, incoming idle detected.
	INHPMREPT	Inhibit Performance Monitoring Report, PM report capability inhibited.
	LOP	Loss Of Pointer detected.
	MAN	Manual removal (logical removal was performed on the facility).
	MANWKSWBK	Manual Working Switched Back, working facility was manually switched from protection to the main facility.
	MANWKSWPR	Manual Working Switched to Protection, working facility was manually switched to the protection facility.
	PDI	Incoming PDI signal detected (STS1)
	RFI	Remote Failure Indication detected.
	SDBER	Signal Degrade Bit Error Rate detected.
	SLMF	Signal Label Match Failure detected.
SRVEFF	{NSA, SA} Service Effect, identifies the service effect of the condition type and notification code being retrieved. Values are:	
	NSA	Non-Service Affecting
	SA	Service Affecting
OCRDAT	{MONTH-DAY:{01-12} - {01-31} } Occurrence Date, identifies the date when the condition occurred. The format of OCRDAT is <MONTH_OF_YEAR> - <DAY_OF_MONTH>.	
OCRTM	{HOUR-MINUTE-SECOND:{00-23} - {00-59} - {00-59} } Occurrence Time, identifies the time when the condition occurred. The format of OCRTM is <HOUR_OF_DAY> - <MINUTE_OF_HOUR> -<SECOND_OF_MINUTE>.	
LOCN	{FEND, NEND} Location, identifies the location where the condition type is monitored. Values are:	
	FEND	Far-End, events occurring at a distant network element.
	NEND	Near-End, events occurring at the system.
DIRN	{TRMT, <NoVal>} Direction, identifies the direction of the condition type being monitored. Values are:	
	TRMT	Transmit Direction, value returned for CONDDTYPE of FLTESC.
	<NoVal>	No Value (null) returned for all conditions other than FLTESC.

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent /* Condition type is not consistent with <FACILITY TYPE STRING>. */ /* Location is not consistent with <FACILITY TYPE STRING> <CONDITION TYPE STRING>. */
IDNV	Input, Data Not Valid /* Invalid notification code specified: <NOTIFICATION CODE STRING>. */ /* Invalid service effect specified: <SERVICE EFFECT STRING>. */ /* Invalid location specified: <LOCATION STRING>. */ /* Invalid condition type specified: <CONDITION TYPE STRING>. */ /* Invalid parameter specified. */
IIAC	Input, Invalid ACcess identifier /* Invalid Access ID specified. */
SROF	Status, Requested Operation Failed /* rpt_file error – <ERRNO>, status = <STATUS>. */ /* Cannot open <FILENAME>. */ /* nrl_rpt_print error – no transaction, msgtype = <MSGTYPE>. */ /* rpt_print error – <ERRNO>, status = <STATUS>. */

EXAMPLES

In the following example, all existing alarms for STS-1 port EC1STS1-337 through EC1STS1-338 are retrieved.

```
RTRV-ALM-STs1: : EC1STS1-337&&-338;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated a CTAG value of P71066. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```

<SID> <YY-MM-DD> <HH:MM:SS>
M P71066 COMPLD
  "EC1STS1-337, STS1: MJ, LOP, SA, 07-02, 08-44-30, NEND, , "
  / * RTRV-ALM-STs1: : EC1STS1-337&&-338 [P71066] (2) */
;

```

RELATED COMMANDS

RTRV-ALM-ALL

RTRV-ATTR-STS1

RTRV-COND-ALL

RTRV-COND-STS1

RTRV-DFLTATTR-STS1

SET-ATTR-STS1

SET-DFLTATTR-STS1

RELATED AUTONOMOUS RESPONSES

REPT^ALM^STS1

COMMAND CODE: **RTRV-ALM-STS3C**
COMMAND NAME: **RETRIEVE ALARM STS-3C**

PURPOSE

The RTRV-ALM-STS3C command retrieves the current status of any existing alarm conditions for the specified STS-3C port, or for the specified STS-3C port and any matching combination of a specified condition type, notification code, location, and service effect (i.e., the CONDTYPE, NTFCNCDE, LOCN, and SRVEFF parameters provide a filter for retrieving existing alarm conditions satisfying the specified input parameters). The command is completed regardless of whether the STS-3C port is provisioned.

The successful response for a RTRV-ALM-STS3C command contains one line of parsable output data, in ascending order by port number and ascending order by date and time of occurrence within each port number, for each alarm condition being reported. If an AID of ALL is entered, all AIDs with an existing alarm condition are reported.

If there are no existing alarm conditions with attributes matching the specified (valid) combination of AID, condition type, notification code, location, and service effect, then the command is completed with no line of parsable output data provided in the response message. In addition, no line of parsable output data is provided if the specified STS-3C is embedded within a protection OC-3 or OC-12.

A RTRV-ALM-STS3C command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-ALM-STS3C: [TID] :AID: [CTAG] :: [NTFCNCDE] , [CONDTYPE] , [SRVEFF] , [LOCN] ,
[DIRN] , [TMPER] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	STS3C_AID: {OC3STS3C-{1-2240}} (OC3STS3C-OC3#/STS3C#) {OC12STS3C-{1-560}-{1-4}} (OC12STS3C-OC12#-STM1/STS3C#) ALL_AID: {ALL} Default: Entry Required Addressing: &&-ranging and &-grouping Description: STS3C AID, identifies the STS-3C port. Name-defined values are: ALL All provisioned STS-3C ports in the system.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
NTFCNCDE	{CR, MJ, MN} Default: < All applicable notification codes listed above > Addressing: None Description: Notification Code, specifies the notification code of the condition type to be retrieved. Values are: CR Critical Alarm MJ Major Alarm MN Minor Alarm

CONDTYPE	<p>NEAR-END_CONDDTYPE:{ACTLPBK, AIS, IDLE, INHPMREPT, LOP, MAN, SLMF}, FAR-END_CONDDTYPE:{RFI}</p> <p>Default: < All applicable condition types listed above ></p> <p>Addressing: None</p> <p>Description: Condition Type, specifies the condition type to be retrieved. (Refer to Appendix C for a list of all condition types.) Values are:</p> <table> <tr> <td>ACTLPBK</td><td>Active Loopback, the STS-3C port is in loop back. (Near-End only.)</td></tr> <tr> <td>AIS</td><td>Alarm Indication Signal, AIS detected. (Near-End only.)</td></tr> <tr> <td>IDLE</td><td>Idle, incoming idle detected. (Near-End only.)</td></tr> <tr> <td>INHPMREPT</td><td>Inhibit Performance Monitoring Report, PM report capability Inhibited. (Near-End only.)</td></tr> <tr> <td>LOP</td><td>Loss Of Pointer detected. (Near-End only.)</td></tr> <tr> <td>MAN</td><td>Manual removal (logical removal was performed on the facility). (Near-End only.)</td></tr> <tr> <td>RFI</td><td>Remote Failure Indication detected. (Far-End only.)</td></tr> <tr> <td>SLMF</td><td>Signal Label Match Failure detected. (Near-End only.)</td></tr> </table> <p>Restrictions: RTRV-ALM-STS3C is denied if the specified CONDDTYPE value is not supported for the specified LOCN value (e.g., CONDDTYPE of AIS and LOCN of FEND is entered).</p>	ACTLPBK	Active Loopback, the STS-3C port is in loop back. (Near-End only.)	AIS	Alarm Indication Signal, AIS detected. (Near-End only.)	IDLE	Idle, incoming idle detected. (Near-End only.)	INHPMREPT	Inhibit Performance Monitoring Report, PM report capability Inhibited. (Near-End only.)	LOP	Loss Of Pointer detected. (Near-End only.)	MAN	Manual removal (logical removal was performed on the facility). (Near-End only.)	RFI	Remote Failure Indication detected. (Far-End only.)	SLMF	Signal Label Match Failure detected. (Near-End only.)
ACTLPBK	Active Loopback, the STS-3C port is in loop back. (Near-End only.)																
AIS	Alarm Indication Signal, AIS detected. (Near-End only.)																
IDLE	Idle, incoming idle detected. (Near-End only.)																
INHPMREPT	Inhibit Performance Monitoring Report, PM report capability Inhibited. (Near-End only.)																
LOP	Loss Of Pointer detected. (Near-End only.)																
MAN	Manual removal (logical removal was performed on the facility). (Near-End only.)																
RFI	Remote Failure Indication detected. (Far-End only.)																
SLMF	Signal Label Match Failure detected. (Near-End only.)																
SRVEFF	<p>{NSA, SA}</p> <p>Default: < Both service effect values ></p> <p>Addressing: None</p> <p>Description: Service Effect, specifies the service effect of the condition type to be retrieved. Values are:</p> <table> <tr> <td>NSA</td><td>Non-Service Affecting</td></tr> <tr> <td>SA</td><td>Service Affecting</td></tr> </table>	NSA	Non-Service Affecting	SA	Service Affecting												
NSA	Non-Service Affecting																
SA	Service Affecting																
LOCN	<p>{FEND, NEND}</p> <p>Default: < All location values applicable to the specified condition type ></p> <p>Addressing: None</p> <p>Description: Location, specifies the location where the condition type is monitored. Values are:</p> <table> <tr> <td>FEND</td><td>Far-End, events occurring at a distant network element.</td></tr> <tr> <td>NEND</td><td>Near-End, events occurring at the system.</td></tr> </table> <p>Restrictions: RTRV-ALM-STS3C is denied if the specified LOCN value is not supported for the specified CONDDTYPE value (e.g., CONDDTYPE of AIS and LOCN of FEND is entered).</p>	FEND	Far-End, events occurring at a distant network element.	NEND	Near-End, events occurring at the system.												
FEND	Far-End, events occurring at a distant network element.																
NEND	Near-End, events occurring at the system.																
DIRN	<p>{NA, RCV, TRMT}</p> <p>Default: {NA}</p> <p>Addressing: None</p> <p>Description: Direction, specifies the direction of the condition type being monitored. The value for DIRN is verified, but does not affect the function of the RTRV-ALM-STS3C command.</p>																
TMPER	<p>{15-MIN, 1-DAY}</p> <p>Default: {15-MIN}</p> <p>Addressing: None</p> <p>Description: Time Period. The value for TMPER is verified, but does not affect the function of the RTRV-ALM-STS3C command.</p>																

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  ["<AID>, STS3C:<NTFCNCDE>, <CONDTYPE>, <SRVEFF>, <OCRDAT>, <OCRTM>,
<LOCN>, , "]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

OUTPUT PARAMETERS

AID	STS3C_AID: {OC3STS3C-{1-2240}} (OC3STS3C-OC3#/STS3C#) {OC12STS3C-{1-560}-{1-4}} (OC12STS3C-OC12#-STM1/STS3C#) STS3C AID, identifies the STS-3C port.
NTFCNCDE	{MJ, MN} Notification Code, identifies the notification code generated by the system when the condition occurred. Values are: MJ Major Alarm MN Minor Alarm
CONDTYPE	NEAR-END_CONDTYPE:{ACTLPBK, AIS, IDLE, INHPMREPT, LOP, MAN, SLMF}, FAR-END_CONDTYPE:{RFI} Condition Type, identifies the condition type being retrieved. (Refer to Appendix C for a list of all condition types.) Values are: ACTLPBK Active Loopback, the STS-3C port is in loop back. AIS Alarm Indication Signal, AIS detected. IDLE Idle, incoming idle detected. INHPMREPT Inhibit Performance Monitoring Report, PM report capability Inhibited. LOP Loss Of Pointer detected. MAN Manual removal (logical removal was performed on the facility). RFI Remote Failure Indication detected. SLMF Signal Label Match Failure detected.
SRVEFF	{NSA, SA} Service Effect, identifies the service effect of the condition type and notification code being retrieved. Values are: NSA Non-Service Affecting SA Service Affecting
OCRDAT	{MONTH-DAY:{01-12} - {01-31} } Occurrence Date, identifies the date when the condition occurred. The format of OCRDAT is <MONTH_OF_YEAR> - <DAY_OF_MONTH>.
OCRTM	{HOUR-MINUTE-SECOND:{00-23} - {00-59} - {00-59} } Occurrence Time, identifies the time when the condition occurred. The format of OCRTM is <HOUR_OF_DAY> - <MINUTE_OF_HOUR> -<SECOND_OF_MINUTE>.
LOCN	{FEND, NEND} Location, identifies the location where the condition type is monitored. Values are: FEND Far-End, events occurring at a distant network element. NEND Near-End, events occurring at the system.

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent /* Condition type is not consistent with <FACILITY TYPE STRING>. */ /* Location is not consistent with <FACILITY TYPE STRING> <CONDITION TYPE STRING>. */
IDNV	Input, Data Not Valid /* Invalid notification code specified: <NOTIFICATION CODE STRING>. */ /* Invalid service effect specified: <SERVICE EFFECT STRING>. */ /* Invalid location specified: <LOCATION STRING>. */ /* Invalid condition type specified: <CONDITION TYPE STRING>. */ /* Invalid parameter specified. */
IIAC	Input, Invalid ACcess identifier /* Invalid Access ID specified. */
SROF	Status, Requested Operation Failed /* rpt_file error – <ERRNO>, status = <STATUS>. */ /* Cannot open <FILENAME>. */ /* nrl_rpt_print error – no transaction, msgtype = <MSGTYPE>. */ /* rpt_print error – <ERRNO>, status = <STATUS>. */

EXAMPLES

In the following example, all existing alarms for STS-3C ports OC3STS3C-3 through OC3STS3C-4 are retrieved.

```
RTRV-ALM-STS3C: :OC3STS3C-3&&-4;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated a CTAG value of P71066. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P71066 COMPLD
  "OC3STS3C-3, STS3C:MJ, LOP, SA, 07-02, 08-44-30, NEND, ,"
  "OC3STS3C-3, STS3C:MN, MAN, NSA, 07-02, 09-05-12, NEND, ,"
  "OC3STS3C-4, STS3C:MN, MAN, NSA, 07-02, 07-30-28, NEND, ,"
  / * RTRV-ALM-STS3C: :OC3STS3C-3&&-4 [P71066] (2) */
;
```

RELATED COMMANDS

RTRV-ALM-ALL
RTRV-ATTR-STS3C
RTRV-COND-ALL
RTRV-COND-STS3C
RTRV-DFLTATTR-STS3C
SET-ATTR-STS3C
SET-DFLTATTR-STS3C

RELATED AUTONOMOUS RESPONSES

REPT^ALM^STS3C

COMMAND CODE: **RTRV-ALM-SUM**
COMMAND NAME: **RETRIEVE ALARM SUMMARY**

PURPOSE

The RTRV-ALM-SUM command provides a summary of the number and severity of declared alarms in the system. The command can be configured to provide an abbreviated alarm summary for use by machine-machine interfaces (as for graphic user interface or GUI) or a longer summary for easy reading.

A RTRV-ALM-SUM command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-ALM-SUM: [TID] :: [CTAG] :: : [VERBOSE=] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
VERBOSE=	{Y,N} Default: {Y} Addressing: None Description: Y = Verbose response activated. System produces longer, easy-to-read alarm summary output. N = Verbose response not activated. System produces abbreviated representation of alarm summary. Selected when summary output to be parsed through machine-machine interface to provide graphic user interface (GUI) interaction capability.

SUCCESSFUL RESPONSE FORMAT

Response For VERBOSE=Y Input Parameter

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD

"Highest Severity Alarm is <HIGHNTFCNCDE>"
"<NUMCR> Critical Alarms Reported"
"<NUMMJ> Major Alarms Reported"
"<NUMMN> Minor Alarms Reported"
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

Response For VERBOSE=N Input Parameter

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD

"<HIGHNTFCNCDE>, <NUMCR>, <NUMMJ>, <NUMMN>"
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

HIGHNTFCNCDE Highest Notification Code, identifies the highest severity alarm currently reported in the system. Values are:

CR	Critical Alarm
MJ	Major Alarm
MN	Minor Alarm
NA	Not Applicable. No existing alarms reported in system.

NUMCR {0-#} Number of Critical Alarms Reported

NUMMJ {0-#} Number of Major Alarms Reported

NUMMN {0-#} Number of Minor Alarms Reported

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV Input, Data Not Valid
/*Invalid parameter value.*/

EXAMPLES

In the following example, a summary of all system alarms has been requested:

```
RTRV-ALM-SUM;
```

The output response, shown below, is relatively easy to read and understand.

```
LMC3 01-02-22 15:30:05
M C00002 COMPLD
  "Highest Severity Alarm is CR"
  "2 Critical Alarms Reported"
  "3 Major Alarms Reported"
  "11 Minor Alarms Reported"
/* RTRV-ALM-SUM:::C00002 [C00002] (2) */
```

An abbreviated summary of the the same system alarms can be requested as follows:

```
RTRV-ALM-SUM:::::VERBOSE=N;
```

The abbreviated output response returned provides input for a screen display through a machine-machine interface.

```
LMC3 01-02-22 15:35:01
M C00004 COMPLD
  "CR,2,3,11"
/* RTRV-ALM-SUM:::C00004:::VERBOSE=N [C00004] (2) */
```

RELATED COMMANDS

```
RTRV-ALM-ALL
RTRV-ALM-EQPT
RTRV-ALM-COM
RTRV-ALM-EC1
RTRV-ALM-F3
RTRV-ALM-OC3
RTRV-ALM-OC12
RTRV-ALM-STS1
RTRV-ALM-STS3C
RTRV-ALM-T1
RTRV-ALM-T3
RTRV-ALM-VT1
```


COMMAND CODE: **RTRV-ALM-T1**
COMMAND NAME: **RETRIEVE ALARM T1**

PURPOSE

The RTRV-ALM-T1 command retrieves the current status of any existing alarm conditions for the specified DS1 or Timing Reference (TMG) port, or for the specified DS1 or TMG port and any matching combination of a specified condition type, notification code, location, and service effect (i.e., the CONDTYPE, NTFNCNDE, LOCN, and SRVEFF parameters provide a filter for retrieving existing alarm conditions satisfying the specified input parameters). The command is completed regardless of whether the DS1 or TMG port is provisioned.

The successful response for a RTRV-ALM-T1 command contains one line of parsable output data, in ascending order by port number and ascending order by date and time of occurrence within each port number, for each alarm condition being reported. If an AID of ALL is entered, all AIDs with an existing alarm condition are reported.

If there are no existing alarm conditions with attributes matching the specified (valid) combination of AID, condition type, notification code, location, and service effect, then the command is completed with no line of parsable output data provided in the response message. In addition, no line of parsable output data is provided if the specified DS1 is embedded within a protection OC3.

A RTRV-ALM-T1 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-ALM-T1 : [TID] : AID : [CTAG] : : [NTFCNCDE] , [CONDTYPE] , [SRVEFF] , [LOCN] ,
[DIRN] , [TMPPER] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >		
	Default:	<SID>	
	Addressing:	None	
	Description:	Target Identifier, specifies the network node TID for the command.	
AID	DS1_AID:		
	{T1-{1-59392}}	(T1-DS1#)	
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)	
	{EC1T1-{1-3840}-{1-28}}	(EC1T1-EC1/STS1/DS3#-DS1#)	
	{EC1T1-{1-3840}-{1-7}-{1-4}}	(EC1T1-EC1/STS1#-VTGrp#-VT1/DS1#)	
	{OC3T1-{1-2240}-{1-3}-{1-28}}	(OC3T1-OC3#-STS1/DS3#-DS1#)	
	{OC3T1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3T1-OC3#-STS1#-VTGrp#-VT1/DS1#)	
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}	(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)	
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}		
	(OC12T1-OC12#-STM1#-STS1#-VTGrp#-VT1/DS1#)		
	TMG_AID:		
	{TMG-{0, 1}}		
	ALL_AID:		
	{ALL}		
	Default:	Entry Required	
	Addressing:	&&-ranging and &-grouping	
	Description:	DS1/TMG AID, identifies the DS1 or Timing Reference port. Name-defined values are:	
	ALL	All provisioned DS1 and TMG ports in the system.	
	Restrictions:	RTRV-ALM-T1 is denied if the specified AID does not support the specified CONDTYPE (e.g., DS1 AID and CONDTYPE of SYNCSEC).	
CTAG	<1-6 VALID CTAG CHARACTERS>		
	Default:	<System Assigned CTAG Value>	
	Addressing:	None	
	Description:	Correlation Tag, associates input command with its output responses.	

NTFCNCDE	{CR, MJ, MN}
Default:	< All applicable notification codes listed above >
Addressing:	None
Description:	Notification Code, specifies the notification code of the condition type to be retrieved. Values are:
	CR Critical Alarm
	MJ Major Alarm
	MN Minor Alarm
CONDTYPE	DS1_NEAR-END_CONDTYPE:{ACTLPBK, AIS, AIS-CI, ALWCBLPBK, DS1ISD, EOC, INHPMREPT, LOF, LOS, MAN, RVCBLPBK, ROLLMON, XMTCLPBK}, DS1_FAR-END_CONDTYPE:{RAI, RAI-CI}, TMG_NEAR-END_CONDTYPE:{AIS, LOF, LOS, SLTMSIG, SYNCPRI, SYNCSEC, SYNCSTATQUAL}
Default:	< All applicable condition types listed above >
Addressing:	None
Description:	Condition Type, specifies the condition type to be retrieved. (Refer to Appendix C for a list of all condition types.) Values are:
	ACTLPBK Active Loopback, the DS1 port is in loop back. (DS1 Near-End only.)
	AIS Alarm Indication Signal, AIS detected. (DS1 or TMG Near-End only.)
	AIS-CI Alarm Indication Signal for Customer Installation, Incoming AIS detected. (DS1 Near-End)
	ALWCBLPBK Allow C-Bit Loopback. (DS1 Near-End only.)
	DS1ISD DS1 Idle Signal Detected, Incoming. (DS1 Near-End.)
	EOC Embedded Operations Channel, EOC failure detected. (DS1 Near-End only.)
	INHPMREPT Inhibit Performance Monitoring Report, PM report capability inhibited. (DS1 Near-End only.)
	LOF Loss Of Frame detected. (DS1 or TMG Near-End only.)
	LOS Loss Of Signal detected. (DS1 or TMG Near-End only.)
	MAN Manual removal (logical removal was performed on the facility). (DS1 Near-End only.)
	RAI Remote Alarm Indication detected. (DS1 Far-End only.)
	RAI-CI Remote Alarm Indication for Customer Installation detected. (DS1 Far-End only.)
	RVCBLPBK Receive (DS1) C-Bit Loopback. (DS1 Near-End only.)
	ROLLMON Roll Monitoring, receive-side RTO port being monitored for valid signal. (DS1 Near-End only.)
	SLTMSIG Slipping Timing Reference Signal detected. (TMG Near-End only.)
	SYNCPRI Primary Reference Synchronization failure. (TMG Near-End only.)
	SYNCSEC Secondary Reference Synchronization failure. (TMG Near-End only.)
	SYNCSTATQUAL Synchronization Status Quality. (TMG Near-End only.)
	XMTCLPBK Transmit (DS1) C-Bit Loopback. (DS1 Near-End only.)
Restrictions:	RTRV-ALM-T1 is denied if the specified CONDTYPE is not supported for the specified AID (e.g., CONDTYPE of SYNCSEC and DS1 AID). RTRV-ALM-T1 is denied if the specified CONDTYPE value is not supported for the specified LOCN value (e.g., CONDTYPE of RAI and LOCN of NEND is entered).

RTRV-ALM-T1 is denied if the DS1 CI/NI Trouble Sectionalization Premium Feature Option (PFO) is not enabled and an input value of AIS-CI, DS1ISD or RAI-CI is entered.

SRVEFF	{NSA, SA}	
	Default:	< Both service effect values >
	Addressing:	None
	Description:	Service Effect, specifies the service effect of the condition type to be retrieved. Values are:
	NSA	Non-Service Affecting
	SA	Service Affecting
LOCN	{FEND, NEND}	
	Default:	< All location values applicable to the specified condition type >
	Addressing:	None
	Description:	Location, specifies the location where the condition type is monitored. Values are:
	FEND	Far-End, events occurring at a distant network element.
	NEND	Near-End, events occurring at the system.
	Restrictions:	RTRV-ALM-T1 is denied if the specified LOCN value is not supported for the specified CONDTYPE value (e.g., CONDTYPE of RAI and LOCN of NEND is entered).
DIRN	{NA, RCV, TRMT}	
	Default:	< All applicable directions >
	Addressing:	None
	Description:	Direction, specifies the direction of the condition type being monitored. The value for DIRN is verified, but does not affect the function of the RTRV-ALM-T1 command.
	NA	Not Applicable
	RCV	Receive side
	TRMT	Transmit direction
TMPER	{15-MIN, 1-DAY}	
	Default:	{15-MIN}
	Addressing:	None
	Description:	Time Period. The value for TMPER is verified, but does not affect the function of the RTRV-ALM-T1 command.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  ["<AID>, T1:<NTFCNCDE>, <CONDTYPE>, <SRVEFF>, <OCRDAT>, <OCRTM>, <LOCN>, , "]
  [/ * <Command Echo> [<CTAG>] (<CID [-VCNUM]>) */]
;

```

OUTPUT PARAMETERS

AID	DS1_AID:	
	{T1-{1-59392}}	(T1-DS1#)
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)
	{EC1T1-{1-3840}-{1-28}}	(EC1T1-EC1/STS1/DS3#-DS1#)
	{EC1T1-{1-3840}-{1-7}-{1-4}}	(EC1T1-EC1/STS1#-VTGrp#-VT1/DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-28}}	(OC3T1-OC3#-STS1/DS3#-DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3T1-OC3#-STS1#-VTGrp#-VT1/DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}	(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	(OC12T1-OC12#-STM1#-STS1#-VTGrp#-VT1/DS1#)
	TMG_AID:	
	{TMG-{0, 1}}	
	DS1/TMG AID, identifies the DS1 or Timing Reference port.	
NTFCNCDE	{CR, MJ, MN}	
	Notification Code, identifies the notification code generated by the system when the condition occurred. Values are:	
	CR	Critical Alarm
	MJ	Major Alarm
	MN	Minor Alarm
CONDTYPE	DS1_NEAR-END_CONDTYPE:{ACTLPBK, AIS, AIS-CI, ALWCBLPBK, EOC, INHPMREPT, LOF, LOS, MAN, RVCBLPBK, ROLLMON, XMTCLPBK},	
	DS1_FAR-END_CONDTYPE:{RAI, RAI-CI},	
	TMG_NEAR-END_CONDTYPE:{AIS, LOF, LOS, SLTMSIG, SYNCPRI, SYNCSEC, SYNCSTATQUAL}	
	Condition Type, identifies the condition type being retrieved. (Refer to Appendix C for a list of all condition types.) Values are:	
	ACTLPBK	Active Loopback, the DS1 port is in loop back.
	AIS	Alarm Indication Signal, AIS detected.
	AIS-CI	Remote Alarm Indication for Customer Installation detected.
	ALWCBLPBK	Allow C-Bit Loopback.
	DS1ISD	DS1 Idle Signal Detected, Incoming.
	EOC	Embedded Operations Channel, EOC failure detected.
	INHPMREPT	Inhibit Performance Monitoring Report, PM report capability inhibited.
	LOF	Loss Of Frame detected.
	LOS	Loss Of Signal detected.
	MAN	Manual removal (logical removal was performed on the facility).
	RAI	Remote Alarm Indication detected.
	RAI-CI	Remote Alarm Indication for Customer Installation detected.
	RVCBLPBK	Receive (DS1) C-Bit Loopback.
	ROLLMON	Roll Monitoring, receive-side RTO port being monitored for valid signal.
	SLTMSIG	Slipping Timing Reference Signal detected.
	SYNCPRI	Primary Reference Synchronization failure.
	SYNCSEC	Secondary Reference Synchronization failure.
	SYNCSTATQUAL	Synchronization Status Quality.
	XMTCLPBK	Transmit (DS1) C-Bit Loopback.

SRVEFF	{NSA, SA} Service Effect, identifies the service effect of the condition type and notification code being retrieved. Values are: NSA Non-Service Affecting SA Service Affecting
OCRDAT	{MONTH-DAY:{01-12} - {01-31} } Occurrence Date, identifies the date when the condition occurred. The format of OCRDAT is <MONTH_OF_YEAR> - <DAY_OF_MONTH>.
OCRTM	{HOUR-MINUTE-SECOND:{00-23} - {00-59} - {00-59} } Occurrence Time, identifies the time when the condition occurred. The format of OCRTM is <HOUR_OF_DAY> - <MINUTE_OF_HOUR> -<SECOND_OF_MINUTE>.
LOCN	{FEND, NEND} Location, identifies the location where the condition type is monitored. Values are: FEND Far-End, events occurring at a distant network element. NEND Near-End, events occurring at the system.

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

EFON	Equipage, Feature Option Not provided
IDNC	Input, Data Not Consistent /* Condition type is not consistent with <FACILITY TYPE STRING>. */ /* Location is not consistent with <FACILITY TYPE STRING> <CONDITION TYPE STRING>. */
IDNV	Input, Data Not Valid /* Invalid notification code specified: <NOTIFICATION CODE STRING>. */ /* Invalid service effect specified: <SERVICE EFFECT STRING>. */ /* Invalid location specified: <LOCATION STRING>. */ /* Invalid condition type specified: <CONDITION TYPE STRING>. */ /* Invalid parameter specified. */
IIAC	Input, Invalid ACcess identifier /* Invalid Access ID specified. */
SROF	Status, Requested Operation Failed /* rpt_file error - <ERRNO>, status = <STATUS>. */ /* Cannot open <FILENAME>. */ /* nrl_rpt_print error - no transaction, msgtype = <MSGTYPE>. */ /* rpt_print error - <ERRNO>, status = <STATUS>. */

EXAMPLES

In the following example, any existing alarm with a condition type of LOF for DS1 ports T3T1-1297-4 through T3T1-1297-5 is retrieved.

```
RTRV-ALM-T1::T3T1-1297-4&&-5:::,LOF;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated a CTAG value of P71061. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P71061 COMPLD
  "T3T1-1297-4,T1:MN,LOF,SA,07-02,07-30-28,NEND,, "
/* RTRV-ALM-T1::T3T1-1297-4&&-5::,LOF [P71061] (1) */
:
```

In the following example, all existing alarms for DS1 port T3T1-1297-10 are retrieved.

```
RTRV-ALM-T1::T3T1-1297-10;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated a CTAG value of P71066. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P71066 COMPLD
  "T3T1-1297-10,T1:MN,LOF,SA,07-02,08-44-30,NEND,, "
/* RTRV-ALM-T1::T3T1-1297-10 [P71066] (2) */
;
```

RELATED COMMANDS

```
RTRV-ALM-ALL
RTRV-ATTR-T1
RTRV-COND-ALL
RTRV-COND-T1
RTRV-PFO
RTRV-DFLTATTR-T1
SET-ATTR-T1
SET-DFLTATTR-T1
```

RELATED AUTONOMOUS RESPONSES

```
REPT^ALM^T1
```

COMMAND CODE: **RTRV-ALM-T3**
COMMAND NAME: **RETRIEVE ALARM T3**

PURPOSE

The RTRV-ALM-T3 command retrieves the current status of any existing alarm conditions for the specified DS3 port, or for the specified DS3 port and any matching combination of a specified condition type, notification code, location, and service effect (i.e., the CONDTYPE, NTFNCNDE, LOCN, and SRVEFF parameters provide a filter for retrieving existing alarm conditions satisfying the specified input parameters). The command is completed regardless of whether the DS3 port is provisioned.

The successful response for a RTRV-ALM-T3 command contains one line of parsable output data, in ascending order by port number and ascending order by date and time of occurrence within each port number, for each alarm condition being reported. If an AID of ALL is entered, all AIDs with an existing alarm condition are reported.

If there are no existing alarm conditions with attributes matching the specified (valid) combination of AID, condition type, notification code, location, and service effect, then the command is completed with no line of parsable output data provided in the response message. In addition, no line of parsable output data is provided if the specified DS3 is embedded within a protection OC3.

A RTRV-ALM-T3 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-ALM-T3 : [TID] : AID : [CTAG] : : [NTFCNCDE] , [CONDTYPE] , [SRVEFF] , [LOCN] ,
[DIRN] , [TMPER] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >	
	Default:	<SID>
	Addressing:	None
	Description:	Target Identifier, specifies the network node TID for the command.
AID	DS3_AID:	
	{T3-{1-4800}}	(T3-DS3#)
	{EC1T3-{1-3840}}	(EC1T3-EC1/STS1/DS3#)
	{OC3T3-{1-2240}-{1-3}}	(OC3T3-OC3#-STS1/DS3#)
	{OC12T3-{1-560}-{1-4}-{1-3}}	(OC12T3-OC12#-STM1#-STS1/DS3#)
	ALL_AID:	
	{ALL}	
	Default:	Entry Required
	Addressing:	&&-ranging and &-grouping
	Description:	DS3 AID, identifies the DS3 port. Name-defined values are:
	ALL	All provisioned DS3 ports in the system.
CTAG	< 1-6 VALID CTAG CHARACTERS >	
	Default:	< System assigned CTAG value >
	Addressing:	None
	Description:	Correlation Tag, associates input command with its output responses.
NTFCNCDE	{CR, MJ, MN}	
	Default:	< All applicable notification codes listed above >
	Addressing:	None
	Description:	Notification Code, specifies the notification code of the condition type to be retrieved. Values are:
	CR	Critical Alarm
	MJ	Major Alarm
	MN	Minor Alarm

CONDTYPE	NEAR-END_CONDDTYPE:{1TO6LOF, 7LOF, ACTLPBK, AICMIS, AIS, FLTESC, INHPMREPT, ISD, LOF, LOS, MAN}, FAR-END_CONDDTYPE:{AIS, DS2YEL, FEACEQPT, ISD, LOF, LOS, RAI} Default: < All applicable condition types listed above > Addressing: None Description: Condition Type, specifies the condition type to be retrieved. (Refer to Appendix C for a list of all condition types.) Values are:
	1TO6LOF One To Six Loss Of Frame, Incoming LOF detected on 1 to 6 DS2s embedded in the DS3. (Near-End only.)
	7LOF Seven Loss Of Frame, Incoming LOF detected on all 7 DS2s embedded in the DS3. (Near-End only.)
	ACTLPBK Active Loopback, the DS3 port is in loop back. (Near-End only.)
	AICMIS Application Identification Channel Mismatch, AIC mismatch detected. (Near-End only.)
	AIS Alarm Indication Signal, AIS detected. (Near-End or Far-End.)
	DS2YEL DS2 Yellow (Remote Alarm Indication) detected on one of the DS2s embedded in the DS3. (Far-End only.)
	FEACEQPT Far-End Alarm & Control (FEAC) Equipment detected. (Far-End only.)
	FLTESC Facility Fault Escalation active. (Near-End only.)
	INHPMREPT Inhibit Performance Monitoring Report, PM report capability inhibited. (Near-End only.)
	ISD Idle Signal Detected. (Near-End or Far-End.)
	LOF Loss Of Frame detected. (Near-End or Far-End.)
	LOS Loss Of Signal detected. (Near-End or Far-End.)
	MAN Manual removal (logical removal was performed on the facility. (Near-End only.)
	RAI Remote Alarm Indication detected. (Far-End only.)
	Restrictions: RTRV-ALM-T3 is denied if the specified CONDDTYPE value is not supported for the specified LOCN value (e.g., CONDDTYPE of 7LOF and LOCN of FEND is entered).
SRVEFF	{NSA, SA} Default: < Both service effect values > Addressing: None Description: Service Effect, specifies the service effect of the condition type to be retrieved. Values are:
	NSA Non-Service Affecting
	SA Service Affecting
LOCN	{FEND, NEND} Default: < All location values applicable to the specified condition type > Addressing: None Description: Location, specifies the location where the condition type is monitored. Values are:
	FEND Far-End, events occurring at a distant network element.
	NEND Near-End, events occurring at the system.
	Restrictions: RTRV-ALM-T3 is denied if the specified LOCN value is not supported for the specified CONDDTYPE value (e.g., CONDDTYPE of 7LOF and LOCN of FEND is entered).

DIRN	{NA, RCV, TRMT}
Default:	< All applicable directions >
Addressing:	None
Description:	Direction, specifies the direction of the condition type being monitored. The value for DIRN is verified, but does not affect the function of the RTRV-ALM-T3 command.
	NA Not Applicable
	RCV Receive side
	TRMT Transmit direction
TMPER	{15-MIN, 1-DAY}
Default:	{15-MIN}
Addressing:	None
Description:	Time Period. The value for TMPER is verified, but does not affect the function of the RTRV-ALM-T3 command.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  ["<AID>, T3:<NTFCNCDE>, <CONDTYPE>, <SRVEFF>, <OCRDAT>, <OCRTM>, <LOCN>,
  [<DIRN>], "]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

OUTPUT PARAMETERS

AID	DS3_AID:	
	{T3-{1-4800}}	(T3-DS3#)
	{EC1T3-{1-3840}}	(EC1T3-EC1/STS1/DS3#)
	{OC3T3-{1-2240}-{1-3}}	(OC3T3-OC3#-STS1/DS3#)
	{OC12T3-{1-560}-{1-4}-{1-3}}	(OC12T3-OC12#-STM1#-STS1/DS3#)
	DS3 AID, identifies the DS3 port.	
NTFCNCDE	{CR, MJ, MN}	
	Notification Code, identifies the notification code generated by the system when the condition occurred. Values are:	
	CR	Critical Alarm
	MJ	Major Alarm
	MN	Minor Alarm

CONDTYPE	NEAR-END_CONDDTYPE:{1TO6LOF, 7LOF, ACTLPBK, AICMIS, AIS, FLTESC, INHPMREPT, ISD, LOF, LOS, MAN}, FAR-END_CONDDTYPE:{AIS, DS2YEL, FEACEQPT, ISD, LOF, LOS, RAI} Condition Type, identifies the condition type being retrieved. (Refer to Appendix C for a list of all condition types.) Values are:
	1TO6LOF One To Six Loss Of Frame, Incoming LOF detected on 1 to 6 DS2s embedded in the DS3.
	7LOF Seven Loss Of Frame, Incoming LOF detected on all 7 DS2s embedded in the DS3.
	ACTLPBK Active Loopback, the DS3 port is in loop back.
	AICMIS Application Identification Channel Mismatch, AIC mismatch detected.
	AIS Alarm Indication Signal, AIS detected.
	DS2YEL DS2 Yellow (Remote Alarm Indication) detected on one of the DS2s embedded in the DS3.
	FEACEQPT Far-End Alarm & Control (FEAC) Equipment detected.
	FLTESC Facility Fault Escalation active.
	INHPMREPT Inhibit Performance Monitoring Report, PM report capability inhibited.
	ISD Idle Signal Detected.
	LOF Loss Of Frame detected.
	LOS Loss Of Signal detected.
	MAN Manual removal (logical removal was performed on the facility).
	RAI Remote Alarm Indication detected.
SRVEFF	{NSA, SA} Service Effect, identifies the service effect of the condition type and notification code being retrieved. Values are:
	NSA Non-Service Affecting
	SA Service Affecting
OCRDAT	{MONTH-DAY:{01-12} - {01-31} } Occurrence Date, identifies the date when the condition occurred. The format of OCRDAT is <MONTH_OF_YEAR> - <DAY_OF_MONTH>.
OCRTM	{HOUR-MINUTE-SECOND:{00-23} - {00-59} - {00-59} } Occurrence Time, identifies the time when the condition occurred. The format of OCRTM is <HOUR_OF_DAY> - <MINUTE_OF_HOUR> - <SECOND_OF_MINUTE>.
LOCN	{FEND, NEND} Location, identifies the location where the condition type is monitored. Values are:
	FEND Far-End, events occurring at a distant network element.
	NEND Near-End, events occurring at the system.
DIRN	{TRMT, <NoVal>} Direction, identifies the direction of the condition type being monitored. Values are:
	TRMT Transmit Direction, value returned for CONDDTYPE of FLTESC.
	<NoVal> No Value (null) returned for all conditions other than FLTESC.

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent /* Condition type is not consistent with <FACILITY TYPE STRING>. */ /* Location is not consistent with <FACILITY TYPE STRING> <CONDITION TYPE STRING>. */
IDNV	Input, Data Not Valid /* Invalid notification code specified: <NOTIFICATION CODE STRING>. */ /* Invalid service effect specified: <SERVICE EFFECT STRING>. */ /* Invalid location specified: <LOCATION STRING>. */ /* Invalid condition type specified: <CONDITION TYPE STRING>. */ /* Invalid parameter specified. */
IIAC	Input, Invalid ACcess identifier /* Invalid Access ID specified. */
SROF	Status, Requested Operation Failed /* Cannot open <FILENAME>. */ /* rpt_file error – <ERRNO>, status = <STATUS>. */ /* nrl_rpt_print error – no transaction, msgtype = <MSGTYPE>. */ /* rpt_print error – <ERRNO>, status = <STATUS>. */

EXAMPLES

In the following example, any existing alarm with a condition type of LOF for DS3 ports T3–1297 through T3–1298 is retrieved.

```
RTRV-ALM-T3::T3-1297&&-1298:::,LOF;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated a CTAG value of P71061. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M P71061 COMPLD  
"T3-1297,T3:MJ,LOF,SA,07-02,07-30-28,NEND,, "  
/* RTRV-ALM-T3::T3-1297&&-1298:::,LOF [P71061] (1) */  
;
```

In the following example, all existing alarms for DS3 port T3–1307 are retrieved.

```
RTRV-ALM-T3::T3-1307;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated a CTAG value of P71066. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M P71066 COMPLD  
"T3-1307,T3:MJ,LOF,SA,07-02,08-44-30,NEND,, "  
/* RTRV-ALM-T3::T3-1307 [P71066] (2) */  
;
```

RELATED COMMANDS

```
RTRV-ALM-ALL  
RTRV-ATTR-T3  
RTRV-COND-ALL  
RTRV-COND-T3  
RTRV-DFLTATTR-T3  
SET-ATTR-T3  
SET-DFLTATTR-T3
```

RELATED AUTONOMOUS RESPONSES

```
REPT^ALM^T3
```


COMMAND CODE: **RTRV-ALM-VT1**
COMMAND NAME: **RETRIEVE ALARM VT1**

PURPOSE

The RTRV-ALM-VT1 command retrieves the current status of any existing alarm conditions for the specified VT1.5 port, or for the specified VT1.5 port and any matching combination of a specified condition type, notification code, location, and service effect (i.e., the CONDTYPE, NTFNCNDE, LOCN, and SRVEFF parameters provide a filter for retrieving existing alarm conditions satisfying the specified input parameters). The command is completed regardless of whether the VT1.5 port is provisioned.

The successful response for a RTRV-ALM-VT1 command contains one line of parsable output data, in ascending order by port number and ascending order by date and time of occurrence within each port number, for each alarm condition being reported. If an AID of ALL is entered, all AIDs with an existing alarm condition are reported.

If there are no existing alarm conditions with attributes matching the specified (valid) combination of AID, condition type, notification code, location, and service effect, then the command is completed with no line of parsable output data provided in the response message. In addition, no line of parsable output data is provided if the specified VT1.5 is embedded within a protection OC3.

A RTRV-ALM-VT1 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-ALM-VT1: [TID] : AID: [CTAG] : : [NTFCNCDE] , [CONDTYPE] , [SRVEFF] , [LOCN] ,
[DIRN] , [TMPER] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	VT1_AID: {EC1VT1-{1-3840}-{1-7}-{1-4}} (EC1VT1-EC1/STS1#-VTGrp#-VT1.5#) {OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}} (OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#) {OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}} (OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#) ALL_AID: {ALL} Default: Entry Required Addressing: &&-ranging and &-grouping Description: VT1 AID, identifies the VT1.5 port. Name-defined values are: ALL All provisioned VT1.5 ports in the system.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
NTFCNCDE	{CR, MJ, MN} Default: < All applicable notification codes listed above > Addressing: None Description: Notification Code, specifies the notification code of the condition type to be retrieved. Values are: CR Critical Alarm MJ Major Alarm MN Minor Alarm

CONDTYPE	NEAR-END_CONDDTYPE:{ACTLPBK, AIS, EBER, FLTESC, FRCDWKSWBK, FRCDWKSWPR, IDLE, INHPMREPT, LOP, MAN, MANWKSWBK, MANWKSWPR, ROLLMON, SDBER, SLMF}, FAR-END_CONDDTYPE:{RFI} Default: < All applicable condition types listed above > Addressing: None Description: Condition Type, specifies the condition type to be retrieved. (Refer to Appendix C for a list of all condition types.) Values are:	
	ACTLPBK	Active Loopback, the VT1.5 port is in loop back. (Near-End only.)
	AIS	Alarm Indication Signal, AIS detected. (Near-End only.)
	EBER	Excessive Bit Error Rate detected. (Near-End only.)
	FLTESC	Facility Fault Escalation active. (Near-End only.)
	FRCDWKSWBK	Forced Working Switched Back, working facility was manually force switched from protection to the main facility. (Near-End only.)
	FRCDWKSWPR	Forced Working Switched to Protection, working facility was manually force switched to the protection facility. (Near-End only.)
	IDLE	Idle, incoming idle detected. (Near-End only.)
	INHPMREPT	Inhibit Performance Monitoring Report, PM report capability inhibited. (Near-End only.)
	LOP	Loss Of Pointer detected. (Near-End only.)
	MAN	Manual removal (logical removal was performed on the facility). (Near-End only.)
	MANWKSWBK	Manual Working Switched Back, working facility was manually switched from protection to the main facility. (Near-End only.)
	MANWKSWPR	Manual Working Switched to Protection, working facility was manually switched to the protection facility. (Near-End only.)
	RFI	Remote Failure Indication detected. (Far-End only.)
	ROLLMON	Roll Monitoring, receive-side RTO port being monitored for valid signal. (Near-End only.)
	SDBER	Signal Degrade Bit Error Rate detected. (Near-End only.)
	SLMF	Signal Label Match Failure detected. (Near-End only.)
	Restrictions:	RTRV-ALM-VT1 is denied if the specified CONDDTYPE value is not supported for the specified LOCN value (e.g., CONDDTYPE of AIS and LOCN of FEND is entered).
SRVEFF	{NSA, SA} Default: < Both service effect values > Addressing: None Description: Service Effect, specifies the service effect of the condition type to be retrieved. Values are:	
	NSA	Non-Service Affecting
	SA	Service Affecting

LOCN	{FEND, NEND}
Default:	< All location values applicable to the specified condition type >
Addressing:	None
Description:	Location, specifies the location where the condition type is monitored. Values are:
	FEND Far-End, events occurring at a distant network element.
	NEND Near-End, events occurring at the system.
Restrictions:	RTRV-ALM-VT1 is denied if the specified LOCN value is not supported for the specified CONDTYPE value (e.g., CONDTYPE of AIS and LOCN of FEND is entered).
DIRN	{NA, RCV, TRMT}
Default:	< All applicable directions >
Addressing:	None
Description:	Direction, specifies the direction of the condition type being monitored. The value for DIRN is verified, but does not affect the function of the RTRV-ALM-VT1 command.
	NA Not Applicable
	RCV Receive side
	TRMT Transmit direction
TMPER	{15-MIN, 1-DAY}
Default:	{15-MIN}
Addressing:	None
Description:	Time Period. The value for TMPER is verified, but does not affect the function of the RTRV-ALM-VT1 command.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  ["<AID>, VT1 : <NTFCNCDE>, <CONDTYPE>, <SRVEFF>, <OCRDAT>, <OCRTM>, <LOCN>,
  [<DIRN>], "]
  [/ * <Command Echo> [<CTAG>] (<CID [-VCNUM] >) */]
;
```

OUTPUT PARAMETERS

AID	VT1_AID:
	{EC1VT1-{1-3840}-{1-7}-{1-4}}
	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)
	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}
	(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)
	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}
	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)
	VT1 AID, identifies the VT1.5 port.
NTFCNCDE	{CR, MJ, MN}
	Notification Code, identifies the notification code generated by the system when the condition occurred. Values are:
	CR Critical Alarm
	MJ Major Alarm
	MN Minor Alarm

CONDTYPE	<p>NEAR-END_CONDDTYPE:{ACTLPBK, AIS, EBER, FLTESC, FRCDWKSWBK, FRCDWKSWPR, IDLE, INHPMREPT, LOP, MAN, MANWKSWBK, MANWKSWPR, ROLLMON, SDBER, SLMF}, FAR-END_CONDDTYPE:{RFI}</p> <p>Condition Type, identifies the condition type being retrieved. (Refer to Appendix C for a list of all condition types.) Values are:</p> <table> <tr> <td>ACTLPBK</td><td>Active Loopback, the VT1.5 port is in loop back.</td></tr> <tr> <td>AIS</td><td>Alarm Indication Signal, AIS detected.</td></tr> <tr> <td>EBER</td><td>Excessive Bit Error Rate detected.</td></tr> <tr> <td>FLTESC</td><td>Facility Fault Escalation active.</td></tr> <tr> <td>FRCDWKSWBK</td><td>Forced Working Switched Back, working facility was manually force switched from protection to the main facility.</td></tr> <tr> <td>FRCDWKSWPR</td><td>Forced Working Switched to Protection, working facility was manually force switched to the protection facility.</td></tr> <tr> <td>IDLE</td><td>Idle, incoming idle detected.</td></tr> <tr> <td>INHPMREPT</td><td>Inhibit Performance Monitoring Report, PM report capability inhibited.</td></tr> <tr> <td>LOP</td><td>Loss Of Pointer detected.</td></tr> <tr> <td>MAN</td><td>Manual removal (logical removal was performed on the facility).</td></tr> <tr> <td>MANWKSWBK</td><td>Manual Working Switched Back, working facility was manually switched from protection to the main facility.</td></tr> <tr> <td>MANWKSWPR</td><td>Manual Working Switched to Protection, working facility was manually switched to the protection facility.</td></tr> <tr> <td>RFI</td><td>Remote Failure Indication detected.</td></tr> <tr> <td>ROLLMON</td><td>Roll Monitoring, receive-side RTO port being monitored for valid signal.</td></tr> <tr> <td>SDBER</td><td>Signal Degrade Bit Error Rate detected.</td></tr> <tr> <td>SLMF</td><td>Signal Label Match Failure detected.</td></tr> </table>	ACTLPBK	Active Loopback, the VT1.5 port is in loop back.	AIS	Alarm Indication Signal, AIS detected.	EBER	Excessive Bit Error Rate detected.	FLTESC	Facility Fault Escalation active.	FRCDWKSWBK	Forced Working Switched Back, working facility was manually force switched from protection to the main facility.	FRCDWKSWPR	Forced Working Switched to Protection, working facility was manually force switched to the protection facility.	IDLE	Idle, incoming idle detected.	INHPMREPT	Inhibit Performance Monitoring Report, PM report capability inhibited.	LOP	Loss Of Pointer detected.	MAN	Manual removal (logical removal was performed on the facility).	MANWKSWBK	Manual Working Switched Back, working facility was manually switched from protection to the main facility.	MANWKSWPR	Manual Working Switched to Protection, working facility was manually switched to the protection facility.	RFI	Remote Failure Indication detected.	ROLLMON	Roll Monitoring, receive-side RTO port being monitored for valid signal.	SDBER	Signal Degrade Bit Error Rate detected.	SLMF	Signal Label Match Failure detected.
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SRVEFF	<p>{NSA, SA}</p> <p>Service Effect, identifies the service effect of the condition type and notification code being retrieved. Values are:</p> <table> <tr> <td>NSA</td><td>Non-Service Affecting</td></tr> <tr> <td>SA</td><td>Service Affecting</td></tr> </table>	NSA	Non-Service Affecting	SA	Service Affecting																												
NSA	Non-Service Affecting																																
SA	Service Affecting																																
OCRDAT	<p>{MONTH-DAY:{01-12} - {01-31} }</p> <p>Occurrence Date, identifies the date when the condition occurred. The format of OCRDAT is <MONTH_OF_YEAR> - <DAY_OF_MONTH>.</p>																																
OCRTM	<p>{HOUR-MINUTE-SECOND:{00-23} - {00-59} - {00-59} }</p> <p>Occurrence Time, identifies the time when the condition occurred. The format of OCRTM is <HOUR_OF_DAY> - <MINUTE_OF_HOUR> -<SECOND_OF_MINUTE>.</p>																																
LOCN	<p>{FEND, NEND}</p> <p>Location, identifies the location where the condition type is monitored. Values are:</p> <table> <tr> <td>FEND</td><td>Far-End, events occurring at a distant network element.</td></tr> <tr> <td>NEND</td><td>Near-End, events occurring at the system.</td></tr> </table>	FEND	Far-End, events occurring at a distant network element.	NEND	Near-End, events occurring at the system.																												
FEND	Far-End, events occurring at a distant network element.																																
NEND	Near-End, events occurring at the system.																																
DIRN	<p>{TRMT, <NoVal>}</p> <p>Direction, identifies the direction of the condition type being monitored. Values are:</p> <table> <tr> <td>TRMT</td><td>Transmit Direction, value returned for CONDDTYPE of FLTESC.</td></tr> <tr> <td><NoVal></td><td>No Value (null) returned for all conditions other than FLTESC.</td></tr> </table>	TRMT	Transmit Direction, value returned for CONDDTYPE of FLTESC.	<NoVal>	No Value (null) returned for all conditions other than FLTESC.																												
TRMT	Transmit Direction, value returned for CONDDTYPE of FLTESC.																																
<NoVal>	No Value (null) returned for all conditions other than FLTESC.																																

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent /* Condition type is not consistent with <FACILITY TYPE STRING>. */ /* Location is not consistent with <FACILITY TYPE STRING> <CONDITION TYPE STRING>. */
IDNV	Input, Data Not Valid /* Invalid notification code specified: <NOTIFICATION CODE STRING>. */ /* Invalid service effect specified: <SERVICE EFFECT STRING>. */ /* Invalid location specified: <LOCATION STRING>. */ /* Invalid condition type specified: <CONDITION TYPE STRING>. */ /* Invalid parameter specified. */
IIAC	Input, Invalid ACcess identifier /* Invalid Access ID specified. */
SROF	Status, Requested Operation Failed /* Cannot open <FILENAME>. */ /* rpt_file error – <ERRNO>, status = <STATUS>. */ /* nrl_rpt_print error – no transaction, msgtype = <MSGTYPE>. */ /* rpt_print error – <ERRNO>, status = <STATUS>. */

EXAMPLES

In the following example, all existing alarms for VT1.5 port EC1VT1-337-7-1 through EC1VT1-337-7-2 are retrieved.

```
RTRV-ALM-VT1: :EC1VT1-337-7-1&&-2;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated a CTAG value of P71066. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```

<SID> <YY-MM-DD> <HH:MM:SS>
M P71066 COMPLD
  "EC1VT1-337-7-1,VT1:MJ,LOP,SA,07-02,08-44-30,NEND,, "
  /* RTRV-ALM-VT1: :EC1VT1-337-7-1&&-2 [P71066] (2) */
;

```

RELATED COMMANDS

RTRV-ALM-ALL

RTRV-ATTR-VT1

RTRV-COND-ALL

RTRV-COND-VT1

RTRV-DFLTATTR-VT1

SET-ATTR-VT1

SET-DFLTATTR-VT1

RELATED AUTONOMOUS RESPONSES

REPT^ALM^VT1

COMMAND CODE: **RTRV-ATTR-COM**
COMMAND NAME: **RETRIEVE ATTRIBUTE COMMON**

PURPOSE

The RTRV-ATTR-COM command retrieves the provisioned common (no specific entity) condition type attributes (notification code and service effect) for the matching combination of the specified condition type, notification code, and/or service effect (i.e., the CONDTYPE, NTFNCDE, and SRVEFF parameters provide a filter for retrieving condition type attributes satisfying the specified input parameters).

The successful response for a RTRV-ATTR-COM command contains one line of parsable output data, in alphabetical order, for each condition type being reported. If both service effect attributes are requested, a separate line of output data is provided for service affecting attributes (if any), followed by a line for non-service affecting attributes (if any), per condition type being reported.

If there are no condition type attributes matching the specified combination of condition type, notification code, and service effect, then the command is completed with no line of parsable output data provided.

A RTRV-ATTR-COM command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-ATTR-COM: [TID] : [AID] : [CTAG] : : [NTFCNCDE] , [CONDTYPE] , , , [SRVEFF] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.										
AID	{COM} Default: {COM} Addressing: None Description: Common AID, used when a specific AID is not identified.										
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.										
NTFCNCDE	{CR, MJ, MN, NA, NR} Default: < All applicable notification codes listed above > Addressing: None Description: Notification Code, specifies the notification code of the condition type to be retrieved. Values are: <table><tr><td>CR</td><td>Critical Alarm</td></tr><tr><td>MJ</td><td>Major Alarm</td></tr><tr><td>MN</td><td>Minor Alarm</td></tr><tr><td>NA</td><td>Not Alarmed</td></tr><tr><td>NR</td><td>Not Reported</td></tr></table>	CR	Critical Alarm	MJ	Major Alarm	MN	Minor Alarm	NA	Not Alarmed	NR	Not Reported
CR	Critical Alarm										
MJ	Major Alarm										
MN	Minor Alarm										
NA	Not Alarmed										
NR	Not Reported										

CONDTYPE	{DATAFLT, EUA, FRNGSYNC, FSTSYNC, GOS-EC1, GOS-OC12, GOS-OC3, GOS-ST1, GOS-ST3C, GOS-T1, GOS-T3, GOS-VT1, HLDVRSYNC, INHFL, INIT, ITMIP, MANSELDATAOPY0, MANSELDATAOPY1, MANSWTOPRI, MANSWTOSEC, PAINTGRT, RCVRY, SWTOPRI, SWTOSEC, UPRD1344, UPRD2688}
Default:	< All applicable condition types listed above >
Addressing:	None
Description:	Condition Type, specifies the condition type to be retrieved. (Refer to Appendix C for a list of all condition types.) Values are:
DATAFLT	Data integrity Fault, CRC error detected during a database read.
EUA	Emergency User Access activated.
FRNGSYNC	Free Running Synchronization, manual switch to free running clock reference synchronization mode.
FSTSYNC	Fast Acquisition Synchronization, manual or automatic switch to fast acquisition clock reference synchronization mode.
GOS-EC1	Grade of Service-EC1, system-wide EC1 GOS threshold reached.
GOS-OC12	Grade of Service-OC12, system-wide OC-12 GOS threshold reached.
GOS-OC3	Grade of Service-OC3, system-wide OC-3 GOS threshold reached.
GOS-ST1	Grade of Service-ST1, system-wide STS-1 GOS threshold reached.
GOS-ST3C	Grade of Service-ST3C, system-wide STS-3C GOS threshold reached.
GOS-T1	Grade of Service-T1, system-wide DS1 GOS threshold reached.
GOS-T3	Grade of Service-T3, system-wide DS3 GOS threshold reached.
GOS-VT1	Grade of Service-VT1, system-wide VT1.5 GOS threshold reached.
HLDVRSYNC	Synchronization Holdover, manual or automatic switch to holdover clock reference synchronization mode.
INHFL	Inhibit Fault Locating, automatic system-wide fault isolation inhibited.
INIT	Initialization, system initialization in-process.
ITMIP	Installation Test and Maintenance (ITM) mode is set.
MANSELDATAOPY0	Manual Selection/Lock to Data Copy 0 due to execution of SELECT-COPY command.
MANSELDATAOPY1	Manual Selection/Lock to Data Copy 1 due to execution of SELECT-COPY command.
MANSWTOPRI	Manual Switch To Primary Synchronization Reference.
MANSWTOSEC	Manual Switch To Secondary Synchronization Reference.
PAINTGRT	Path Integrity Failure, a system-wide data or clock failure detected.
RCVRY	Recovery. The System level recovery has been executed. The user must issue INIT-SYS command.
SWTOPRI	Automatic Switch To Primary Synchronization Reference.
SWTOSEC	Automatic Switch To Secondary Synchronization Reference.
UPRD1344	672 Port to 1344 Port Upgrade in Progress.
UPRD2688	1344 Port to 2688 Port Upgrade in Progress.

SRVEFF	{NSA, SA}
Default:	< Both service effect values >
Addressing:	None
Description:	Service Effect, specifies the service effect of the condition type to be retrieved. Values are:
	NSA Non-Service Affecting
	SA Service Affecting

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  ["COM:<NTFCNCDE>,<CONDTYPE>,<LOCN>,,,<SRVEFF>"]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

OUTPUT PARAMETERS

NTFCNCDE	{CR, MJ, MN, NA, NR}
	Notification Code, identifies the notification code of the condition type and service effect being retrieved. Values are:
	CR Critical Alarm
	MJ Major Alarm
	MN Minor Alarm
	NA Not Alarmed
	NR Not Reported
CONDTYPE	{DATAFLT, EUA, FRNGSYNC, FSTSYNC, GOS-EC1, GOS-OC12, GOS-OC3, GOS-ST1, GOS-ST3C, GOS-T1, GOS-T3, GOS-VT1, HLDVRSYNC, INHFL, INIT, ITMIP, MANSELDATAOPY0, MANSELDATAOPY1, MANSWTOPRI, MANSWTOSEC, PAINTGRT, RCVRY, SWTOPRI, SWTOSEC, UPGRD1344, UPGRD2688}
	Condition Type, identifies the condition type being retrieved. (Refer to Appendix C for a list of all condition types.) Values are:
	DATAFLT Data integrity Fault, CRC error detected during a database read.
	EUA Emergency User Access activated.
	FRNGSYNC Free Running Synchronization, manual switch to free running clock reference synchronization mode.
	FSTSYNC Fast Acquisition Synchronization, manual or automatic switch to fast acquisition clock reference synchronization mode.
	GOS-EC1 Grade of Service-EC1, system-wide EC1 GOS threshold reached.
	GOS-OC12 Grade of Service-OC12, system-wide OC-12 GOS threshold reached.
	GOS-OC3 Grade of Service-OC3, system-wide OC-3 GOS threshold reached.
	GOS-ST1 Grade of Service-ST1, system-wide STS-1 GOS threshold reached.
	GOS-ST3C Grade of Service-ST3C, system-wide STS-3C GOS threshold reached.
	GOS-T1 Grade of Service-T1, system-wide DS1 GOS threshold reached.
	GOS-T3 Grade of Service-T3, system-wide DS3 GOS threshold

	GOS-VT1	reached. Grade of Service-VT1, system-wide VT1.5 GOS threshold reached.
	HLDOVRSYNC	Synchronization Holdover, manual or automatic switch to holdover clock reference synchronization mode.
	INHFL	Inhibit Fault Locating, automatic system-wide fault isolation inhibited.
	INIT	Initialization, system initialization in-process.
	ITMIP	Installation Test and Maintenance (ITM) mode is set.
	MANSELDATACPY0	Manual Selection/Lock to Data Copy 0 due to execution of SELECT-COPY command.
	MANSELDATACPY1	Manual Selection/Lock to Data Copy 1 due to execution of SELECT-COPY command.
	MANSWTOPRI	Manual Switch To Primary Synchronization Reference.
	MANSWTOSEC	Manual Switch To Secondary Synchronization Reference.
	PAINTGRT	Path Integrity Failure, a system-wide data or clock failure detected.
	RCVRY	Recovery. The System level recovery has been executed. The user must issue INIT-SYS command.
	SWTOPRI	Automatic Switch To Primary Synchronization Reference.
	SWTOSEC	Automatic Switch To Secondary Synchronization Reference.
	UPGRD1344	672 Port to 1344 Port Upgrade in Progress.
	UPGRD2688	1344 Port to 2688 Port Upgrade in Progress.
LOCN	{NEND}	Location, identifies the location where the condition type is monitored. A value of NEND (Near-End) is always reported.
SRVEFF	{NSA, SA}	Service Effect, identifies the service effect of the condition type and notification code being retrieved. Values are:
	NSA	Non-Service Affecting
	SA	Service Affecting

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

```

IDNV      Input, Data Not Valid
/* Invalid notification code specified: <NOTIFICATION CODE STRING>. */
/* Invalid service effect specified: <SERVICE EFFECT STRING>. */
/* Invalid condition type specified: <CONDITION TYPE STRING>. */
/* Condition type not valid for: COM. */
/* Condition type is GOS but --<STRING> is not valid. */
/* Invalid parameter specified. */

```

SDBE Status, internal Data Base Error
 /* Error <ERROR NUMBER> reading record from <FILENAME>. */
SROF Status, Requested Operation Failed
 /* Cannot open <FILENAME>. */
 /* rpt_file error – <ERRNO>, status = <STATUS>. */
 /* nrl_rpt_print error – no transaction, msgtype = <MSGTYPE>. */
 /* rpt_print error – <ERRNO>, status = <STATUS>. */

EXAMPLES

In the following example, the notification code attributes for the INHFL condition type is retrieved.

```
RTRV-ATTR-COM::::, INHFL;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71042. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M P71042 COMPLD  
"COM:MN, INHFL, NEND, , , NSA"  
/* RTRV-ATTR-COM::::, INHFL [P71042] (1) */  
;
```

RELATED COMMANDS

RTRV-ALM-ALL
RTRV-ALM-COM
RTRV-COND-ALL
RTRV-COND-COM
SET-ATTR-COM

RELATED AUTONOMOUS RESPONSES

REPT^ALM^COM
REPT^EVT^COM

COMMAND CODE: **RTRV-ATTR-EC1**
COMMAND NAME: **RETRIEVE ATTRIBUTE EC1**

PURPOSE

The RTRV-ATTR-EC1 command retrieves the provisioned condition type attributes (notification code and service effect) for the specified EC1 port. The CONDTYPE, NTFNCODE, LOCN, and SRVEFF input parameters provide a search-key filter for retrieving condition type attributes satisfying the specified input parameters. The command is completed regardless of whether the EC1 port is provisioned.

The successful response for a RTRV-ATTR-EC1 command contains one line of parsable output data, in alphabetical order, for each condition type being reported per specified AID. If both service effect attributes are requested, a separate line of output data is provided for service affecting attributes (if any), followed by a line for non-service affecting attributes (if any), per condition type being reported.

If there are no condition types attributes matching the specified (valid) combination of AID, condition type, notification code, location, and service effect, then the command is completed with no line of parsable output data provided in the response message.

A RTRV-ATTR-EC1 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-ATTR-EC1 : [TID] : AID : [CTAG] : : [NTFCNCDE] , [CONDTYPE] , [LOCN] , [DIRN] ,
[TMPER] , [SRVEFF] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.										
AID	EC1_AID: {EC1-{1-3840} } (EC1-EC1/STS1#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: EC1 AID, identifies the EC1 port.										
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.										
NTFCNCDE	{CR, MJ, MN, NA, NR} Default: < All applicable notification codes listed above > Addressing: None Description: Notification Code, specifies the notification code of the condition type to be retrieved. Values are: <table><tr><td>CR</td><td>Critical Alarm</td></tr><tr><td>MJ</td><td>Major Alarm</td></tr><tr><td>MN</td><td>Minor Alarm</td></tr><tr><td>NA</td><td>Not Alarmed</td></tr><tr><td>NR</td><td>Not Reported</td></tr></table>	CR	Critical Alarm	MJ	Major Alarm	MN	Minor Alarm	NA	Not Alarmed	NR	Not Reported
CR	Critical Alarm										
MJ	Major Alarm										
MN	Minor Alarm										
NA	Not Alarmed										
NR	Not Reported										

CONDTYPE	<p>NEAR-END_CONDDTYPE:{ACTLPBK, AIS, INHPMREPT, LOF, LOS, MAN}, FAR-END_CONDDTYPE:{RFI}</p> <p>Default: < All applicable condition types listed above ></p> <p>Addressing: None</p> <p>Description: Condition Type, specifies the condition type to be retrieved. (Refer to Appendix C for a list of all condition types.) Values are:</p> <table> <tr> <td>ACTLPBK</td><td>Active Loopback, the EC1 port is in loop back. (Near-End only.)</td></tr> <tr> <td>AIS</td><td>Alarm Indication Signal, AIS detected. (Near-End only.)</td></tr> <tr> <td>INHPMREPT</td><td>Inhibit Performance Monitoring Report, PM report capability inhibited. (Near-End only.)</td></tr> <tr> <td>LOF</td><td>Loss Of Frame detected. (Near-End only.)</td></tr> <tr> <td>LOS</td><td>Loss Of Signal detected. (Near-End only.)</td></tr> <tr> <td>MAN</td><td>Manual removal (logical removal was performed on the facility). (Near-End only.)</td></tr> <tr> <td>RFI</td><td>Remote Failure Indication detected. (Far-End only.)</td></tr> </table> <p>Restrictions: RTRV-ATTR-EC1 is denied if the specified CONDDTYPE value is not supported for the specified LOCN value (e.g., CONDDTYPE of AIS and LOCN of FEND is entered).</p>	ACTLPBK	Active Loopback, the EC1 port is in loop back. (Near-End only.)	AIS	Alarm Indication Signal, AIS detected. (Near-End only.)	INHPMREPT	Inhibit Performance Monitoring Report, PM report capability inhibited. (Near-End only.)	LOF	Loss Of Frame detected. (Near-End only.)	LOS	Loss Of Signal detected. (Near-End only.)	MAN	Manual removal (logical removal was performed on the facility). (Near-End only.)	RFI	Remote Failure Indication detected. (Far-End only.)
ACTLPBK	Active Loopback, the EC1 port is in loop back. (Near-End only.)														
AIS	Alarm Indication Signal, AIS detected. (Near-End only.)														
INHPMREPT	Inhibit Performance Monitoring Report, PM report capability inhibited. (Near-End only.)														
LOF	Loss Of Frame detected. (Near-End only.)														
LOS	Loss Of Signal detected. (Near-End only.)														
MAN	Manual removal (logical removal was performed on the facility). (Near-End only.)														
RFI	Remote Failure Indication detected. (Far-End only.)														
LOCN	<p>{FEND, NEND}</p> <p>Default: < All location values applicable to the specified condition type ></p> <p>Addressing: None</p> <p>Description: Location, specifies the monitoring location of the condition type to be retrieved. Values are:</p> <table> <tr> <td>FEND</td><td>Far-End, events occurring at a distant network element.</td></tr> <tr> <td>NEND</td><td>Near-End, events occurring at the system.</td></tr> </table> <p>Restrictions: RTRV-ATTR-EC1 is denied if the specified LOCN value is not supported for the specified CONDDTYPE value (e.g., CONDDTYPE of AIS and LOCN of FEND is entered).</p>	FEND	Far-End, events occurring at a distant network element.	NEND	Near-End, events occurring at the system.										
FEND	Far-End, events occurring at a distant network element.														
NEND	Near-End, events occurring at the system.														
DIRN	<p>{NA, RCV, TRMT}</p> <p>Default: < All applicable directions ></p> <p>Addressing: None</p> <p>Description: Direction, specifies the direction of the condition type being monitored. The value for DIRN is verified, but does not affect the function of the RTRV-ATTR-EC1 command.</p> <table> <tr> <td>NA</td><td>Not Applicable</td></tr> <tr> <td>RCV</td><td>Receive side</td></tr> <tr> <td>TRMT</td><td>Transmit direction</td></tr> </table>	NA	Not Applicable	RCV	Receive side	TRMT	Transmit direction								
NA	Not Applicable														
RCV	Receive side														
TRMT	Transmit direction														
TMPER	<p>{15-MIN, 1-DAY}</p> <p>Default: {15-MIN}</p> <p>Addressing: None</p> <p>Description: Time Period. The value for TMPER is verified, but does not affect the function of the RTRV-ATTR-EC1 command.</p>														
SRVEFF	<p>{NSA, SA}</p> <p>Default: < Both service effect values ></p> <p>Addressing: None</p> <p>Description: Service Effect, specifies the service effect of the condition type to be retrieved. Values are:</p> <table> <tr> <td>NSA</td><td>Non-Service Affecting</td></tr> <tr> <td>SA</td><td>Service Affecting</td></tr> </table>	NSA	Non-Service Affecting	SA	Service Affecting										
NSA	Non-Service Affecting														
SA	Service Affecting														

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  ["<AID>,EC1:<NTFCNCDE>,<CONDTYPE>,<LOCN>,,,<SRVEFF>"]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

OUTPUT PARAMETERS

AID	EC1_AID: {EC1-{1-3840} } (EC1-EC1/STS1#) EC1 AID, identifies the EC1 port.														
NTFCNCDE	{CR, MJ, MN, NA, NR} Notification Code, identifies the notification code of the condition type and service effect being retrieved. Values are: <table border="0" style="margin-left: 40px;"> <tr><td>CR</td><td>Critical Alarm</td></tr> <tr><td>MJ</td><td>Major Alarm</td></tr> <tr><td>MN</td><td>Minor Alarm</td></tr> <tr><td>NA</td><td>Not Alarmed</td></tr> <tr><td>NR</td><td>Not Reported</td></tr> </table>	CR	Critical Alarm	MJ	Major Alarm	MN	Minor Alarm	NA	Not Alarmed	NR	Not Reported				
CR	Critical Alarm														
MJ	Major Alarm														
MN	Minor Alarm														
NA	Not Alarmed														
NR	Not Reported														
CONDTYPE	NEAR-END_CONDDTYPE:{ACTLPBK, AIS, INHPMREPT, LOF, LOS, MAN}, FAR-END_CONDDTYPE:{RFI} Condition Type, identifies the condition type being retrieved. (Refer to Appendix C for a list of all condition types.) Values are: <table border="0" style="margin-left: 40px;"> <tr><td>ACTLPBK</td><td>Active Loopback, the EC1 port is in loop back.</td></tr> <tr><td>AIS</td><td>Alarm Indication Signal, AIS detected.</td></tr> <tr><td>INHPMREPT</td><td>Inhibit Performance Monitoring Report, PM report capability inhibited.</td></tr> <tr><td>LOF</td><td>Loss Of Frame detected.</td></tr> <tr><td>LOS</td><td>Loss Of Signal detected.</td></tr> <tr><td>MAN</td><td>Manual removal (logical removal was performed on the facility).</td></tr> <tr><td>RFI</td><td>Remote Failure Indication detected.</td></tr> </table>	ACTLPBK	Active Loopback, the EC1 port is in loop back.	AIS	Alarm Indication Signal, AIS detected.	INHPMREPT	Inhibit Performance Monitoring Report, PM report capability inhibited.	LOF	Loss Of Frame detected.	LOS	Loss Of Signal detected.	MAN	Manual removal (logical removal was performed on the facility).	RFI	Remote Failure Indication detected.
ACTLPBK	Active Loopback, the EC1 port is in loop back.														
AIS	Alarm Indication Signal, AIS detected.														
INHPMREPT	Inhibit Performance Monitoring Report, PM report capability inhibited.														
LOF	Loss Of Frame detected.														
LOS	Loss Of Signal detected.														
MAN	Manual removal (logical removal was performed on the facility).														
RFI	Remote Failure Indication detected.														
LOCN	{FEND, NEND} Location, identifies the location where the condition type is monitored. Values are: <table border="0" style="margin-left: 40px;"> <tr><td>FEND</td><td>Far-End, events occurring at a distant network element.</td></tr> <tr><td>NEND</td><td>Near-End, events occurring at the system.</td></tr> </table>	FEND	Far-End, events occurring at a distant network element.	NEND	Near-End, events occurring at the system.										
FEND	Far-End, events occurring at a distant network element.														
NEND	Near-End, events occurring at the system.														
SRVEFF	{NSA, SA} Service Effect, identifies the service effect of the condition type and notification code being retrieved. Values are: <table border="0" style="margin-left: 40px;"> <tr><td>NSA</td><td>Non-Service Affecting</td></tr> <tr><td>SA</td><td>Service Affecting</td></tr> </table>	NSA	Non-Service Affecting	SA	Service Affecting										
NSA	Non-Service Affecting														
SA	Service Affecting														

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent /* Condition type is not consistent with <FACILITY TYPE STRING>. */ /* Location is not consistent with <FACILITY TYPE STRING> <CONDITION TYPE STRING>. */
IDNV	Input, Data Not Valid /* Invalid notification code specified: <NOTIFICATION CODE STRING>. */ /* Invalid service effect specified: <SERVICE EFFECT STRING>. */ /* Invalid location specified: <LOCATION STRING>. */ /* Invalid condition type specified: <CONDITION TYPE STRING>. */
IIAC	Input, Invalid ACcess identifier /* Invalid Access ID specified. */ /* This command does not support keyword ALL for AID. */
SDBE	Status, internal Data Base Error /* Error <ERROR NUMBER> reading record from <FILENAME>. */
SROF	Status, Requested Operation Failed /* Failed to convert tp id <TP ID NUMBER> to AID string. */ /* Cannot open <FILENAME>. */ /* rpt_file error – <ERRNO>, status = <STATUS>. */ /* nrl_rpt_print error – no transaction, msgtype = <MSGTYPE>. */ /* rpt_print error – <ERRNO>, status = <STATUS>. */

EXAMPLES

In the following example, the notification code attribute for the near-end, non-service affecting LOS condition type for EC1 ports EC1-195 through EC1-196 is retrieved.

```
RTRV-ATTR-EC1: : EC1-195&&-196: : , LOS, , , NSA;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71080. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P71080 COMPLD
"EC1-195, EC1:MN, LOS, NEND, , , NSA"
"EC1-196, EC1:MN, LOS, NEND, , , NSA"
/* RTRV-ATTR-EC1: : EC1-195&&-196: : , LOS, , , NSA [P71080] (1) */
;
```


In the following example, all condition type attributes for EC1 port EC1-207 are retrieved.

```
RTRV-ATTR-EC1::EC1-207;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of P71085. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  "EC1-207,EC1:NA,ACTLPBK,NEND,,,NSA"
  "EC1-207,EC1:MJ,AIS,NEND,,,SA"
  "EC1-207,EC1:MN,AIS,NEND,,,NSA"
  "EC1-207,EC1:NA,INHMPREPT,NEND,,,NSA"
  "EC1-207,EC1:MJ,LOF,NEND,,,SA"
  "EC1-207,EC1:MN,LOF,NEND,,,NSA"
  "EC1-207,EC1:MJ,LOS,NEND,,,SA"
  "EC1-207,EC1:MN,LOS,NEND,,,NSA"
  "EC1-207,EC1:NA,MAN,NEND,,,SA"
  "EC1-207,EC1:NA,MAN,NEND,,,NSA"
  "EC1-207,EC1:NA,RFI,FEND,,,SA"
  "EC1-207,EC1:NA,RFI,FEND,,,NSA"
/* RTRV-ATTR-EC1::EC1-207 [P71085] (2) */
;
```

RELATED COMMANDS

```
RTRV-ALM-ALL
RTRV-ALM-EC1
RTRV-COND-ALL
RTRV-COND-EC1
RTRV-DFLTATTR-EC1
SET-ATTR-EC1
SET-DFLTATTR-EC1
```

RELATED AUTONOMOUS RESPONSES

```
REPT^ALM^EC1
REPT^EVT^EC1
```


COMMAND CODE: **RTRV-ATTR-EQPT**
COMMAND NAME: **RETRIEVE ATTRIBUTE EQUIPMENT**

PURPOSE

The RTRV-ATTR-EQPT command retrieves the provisioned condition type attributes (notification code and service effect) for the specified equipment AID. The CONDTYPE, NTFNCNDE, and SRVEFF input parameters provide a search-key filter for retrieving condition type attributes satisfying the specified input parameters. The command is completed regardless of whether the equipment entity is provisioned.

The successful response for a RTRV-ATTR-EQPT command contains one line of parsable output data, in alphabetical order, for each condition type being reported. If both service effect attributes are requested, a separate line of output data is provided for service affecting attributes (if any), followed by a line for non-service affecting attributes (if any), per condition type being reported. If an AID of ALL is entered, a line of output is provided for each AID applicable to each condition type, in alphabetical order by AID within each condition type being reported.

If there are no condition type attributes matching the specified (valid) combination of AID, condition type, notification code, and service effect, then the command is completed with no line of parsable output data provided.

A RTRV-ATTR-EQPT command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-ATTR-EQPT: [TID]:AID:[CTAG]::[NTFNCNDE],[CONDTYPE],,,,[SRVEFF];

INPUT PARAMETERS

TID	<1-20 VALID TID CHARACTERS>
	Default: <SID>
	Addressing: None
	Description: Target Identifier, specifies the network node TID for the command.
AID	{ACM, ALL, CDA, CDB, CID, CIM, CKB, CPU, DSB, DSI, DSK, EOB, EP3, ES1, ESA, FAN, FUSE, G1EOB, G1EP3, G1ES1, G1IOB, G1IRPB, G1M16, G1M32, G1M40, G1MRPB, G1O1B, G1O4M, G1S3M, G4EOB, G4IOB, G4OXB, HMU, ICM, IOB, IPB, IPU, LMU, LT1, LT2, LT4, LT5, LT8, M16, M32, M40, MCB, O1B, O4M, OPD, OXB, P39, P56, PDU, PRT, PSF, PST, QUAD, RDU, RPB, RSP, S3M, SBT, SHELF, SIO, SPB, SWI}
	Default: Entry Required
	Addressing: None
	Description: Equipment AID, identifies the equipment entity name/type. Values are:
	ACM All Administrative Communications Module circuit packs.
	ALL All applicable AIDs pertaining to the specified CONDTYPE.
	CDA All Clock Distribution A circuit packs.
	CDB All Clock Distribution B circuit packs.
	CID All Communications Interface Devices (VDT, TTY, PRN).
	CIM All Communications Interface Module circuit packs.
	CKB All Circuit Breakers, circuit breakers in the PDU/RDU/RSP.
	CPU All Central Processing Unit circuit packs.
	DSB All DCC Server Boards.
	DSI All DS1 Input/Output circuit packs.
	DSK All Disk Drives.
	EOB All Electrical to Optical Board circuit packs.
	EP3 All Electrical Plesiochronous DS3/STS1 Interface circuit packs.
	ES1 All Electrical Plesiochronous STS1 Interface circuit packs.

ESA	All External DS1 Signal Adapter circuit packs.
FAN	All Fan/Blower assemblies.
FUSE	All Fuses, PDU fuses.
G1EOB	All GTI cables carrying an STM1 signal and terminating on an EOB.
G1EP3	All GTI cables carrying an STM1 signal and terminating on an EP3.
G1ES1	All GTI cables carrying an STM1 signal and terminating on an ES1.
G1IOB	All GTI cables coming into IOB module and carrying STM–1 signal.
G1IRPB	All GTI cables carrying an STM1 signal and terminating on the I/O side of the RPB circuit pack.
G1M16	All GTI cables carrying an STM1 signal and terminating on a M16.
G1M32	All GTI cables carrying an STM1 signal and terminating on a M32.
G1M40	All GTI cables carrying an STM1 signal and terminating on a M40.
G1MRPB	All GTI cables carrying an STM1 signal and terminating on the matrix side of the RPB circuit pack.
G1O1B	All GTI cables carrying an STM1 signal and terminating on an O1B.
G1O4M	All GTI cables carrying an STM1 signal and terminating on an O4M.
G1S3M	All GTI cables carrying an STM1 signal and terminating on an S3M.
G4EOB	All GTI cables carrying an STM4 signal and terminating on an EOB.
G4IOB	All GTI cables coming into IOB module and carrying STM–4 signal.
G4OXB	All GTI cables carrying an STM4 signal and terminating on an OXB.
HMU	All High Speed Muldem Unit (M23 multiplexing) circuit packs.
ICM	All Intelligent Communications Module circuit packs.
IOB	Inter–rack Optics Board
IPB	All Internal Protection Board circuit packs.
IPU	All Interface Processing Unit circuit packs.
LMU	All Low Speed Muldem Unit (M12 multiplexing) circuit packs.
LT1	All Level 1 Translator (RS–232) circuit packs.
LT2	All Level 2 Translator (RS–449/422) circuit packs.
LT4	All Level 4 Translator (ACL) circuit packs.
LT5	All Level 5 Translator (RS449/423 & LAN) circuit packs.
LT8	All Level 8 Translator (ACL) circuit packs.
M16	All Matrix End/Center Stage 16 circuit packs.
M32	All Matrix End Stage 32 circuit packs.
M40	All Matrix End/Center Stage 40 circuit packs.
MCB	All Master Clock Board circuit packs.
O1B	All Optical Interface Level 1 (OC–3) Board circuit packs.
O4M	All OC–12 Muldem (OC–12) Board circuit packs.
OPD	All Optical Disk Drives.
OXB	All Optical Transceiver Board circuit packs.
P39	All Power Supply, 3.9V circuit packs.
P56	All Power Supply, 5.6V circuit packs.
PDU	All Power Distribution Units.
PRT	All DS1 Protect circuit packs.
PSF	All Power Supply, 5V circuit packs.
PST	All Power Supply, 12V circuit packs.
QUAD	All DS1 Shelf Quadrants.
RDU	All Rack Distribution Units.
RPB	All Ring Protection Board circuit packs.
RSP	Rack Status Panel.
S3M	All STS3C Module circuit packs.
SBT	All System Bus Termination circuit packs.
SHELF	All I/O, EOC, End Stage, or Center Stage Shelves.

	SIO	All Serial Input/Output circuit packs.
	SPB	All Satellite Processor Board circuit packs.
	SWI	All DS1 Switch circuit packs.
	Restrictions:	RTRV-ATTR-EQPT is denied if the specified AID is not valid for the specified CONDTYPE. (Refer to Appendix C and CONDTYPE below.) RTRV-ATTR-EQPT is denied for a 240-port LMC system if an AID of CDA is entered.
CTAG	<1-6 VALID CTAG CHARACTERS>	
	Default:	<System Assigned CTAG Value>
	Addressing:	None
	Description:	Correlation Tag, associates input command with its output responses.
NTFCNCDE	{CR, MJ, MN, NA, NR}	
	Default:	< All applicable notification codes listed above >
	Addressing:	None
	Description:	Notification Code, specifies the notification code of the condition type to be retrieved. Values are:
	CR	Critical Alarm
	MJ	Major Alarm
	MN	Minor Alarm
	NA	Not Alarmed
	NR	Not Reported

CONDTYPE {ALMCKT, BKUPMEMP, BKUPMEMS, BPMISM, BPTERM, CARLOS, CD, CLKLCK0, CLKLCK1, CNTRLRFL, CONTBUS, CONTCOM, CONTR, CTNEQPT, DBF, DBFFT, DCCEQPT, DTLCKCPYFL, DUPMACADDR, DUPTARPEENTRY, FA, FANEQPT, FWMISM, GT1, GT4, IMPROPRMVL, INHSWDX, INHSWPR, INHSWWKG, INIT, INTERR, LOCKOUT, LOTRI, MAN, MANWKSWPR, MISC-1, OSIPARMISM, PRCDRERR, PWR, RARFAIL, SWFTDWN, SYNCEQPT, TERM-EC1, TERM-OC12, TERM-OC3, TERM-T1, TERM-T3, TERM-T3EC1, TSA, TSI, WKSWPR, XIDMISM}

Default: < All applicable condition types listed above >

Addressing: None

Description: Condition Type, specifies the condition type to be retrieved. (Refer to Appendix C for a list of all condition types.) Values are:

ALMCKT	Alarm Circuit, RDU/RSP failure detected. (Valid for an AID of ALL, RDU, RSP.)
BKUPMEMP	Backup Memory—Primary, magnetic disk backup failure. (Valid for an AID of ALL, DSK.)
BKUPMEMS	Backup Memory—Secondary, optical disk/tape drive backup failure. (Valid for an AID of ALL, OPD.)
BPMISM	Backplane Mismatch, mismatch between the provisioned shelf and the installed shelf backplane. (Valid for an AID of ALL, SHELF.)
BPTERM	Backplane Termination failure detected in the SI48 I/O, EOC, End Stage, or Center Stage shelf. (Valid for an AID of ALL, SHELF.)
CARLOS	Carrier Loss, loss of carrier event during IEEE 802.3 frame transmission on the LAN. (Valid for an AID of ALL, CID, DSB.)
CD	Control and Display interface audit error detected. (Valid for an AID of ALL, CID.)
CLKLCK0	Clock Lock 0, the clock path of the I/O, EOC, ES, and CS locked to clock bus 0. (Valid for an AID of ALL, QUAD, SHELF.)
CLKLCK1	Clock Lock 1, the clock path of the I/O, EOC, ES, and CS locked to clock bus 1. (Valid for an AID of ALL, QUAD, SHELF.)
CNTRLRFL	Controller Failure, LAPD or LAN controller failed set on the DSB. (Valid for an AID of ALL, DSB.)
CONTBUS	Control Bus, shelf control bus interface failure. (Valid for an AID of ALL, IPU, SPB.)
CONTCOM	Control Communication equipment failure. (Valid for an AID of ALL, ACM, CIM, ICM, SIO.)
CONTR	Control processor equipment failure. (Valid for an AID of ALL, CPU, IPU, SPB.)
CTNEQPT	Connection Equipment, facility/circuit interconnection equipment failure. (Valid for an AID of ALL, EOB, IOB, IPB, LMU, OXB, RPB, S3M.)
DBF	Database Backup Failure, OPD database backup failure detected (on second try). (Valid for an AID of ALL, OPD.)
DBFFT	Database Backup Failed on First Try, OPD database backup failure detected on first try. (Valid for an AID of ALL, OPD.)
DCCEQPT	Data Communication Channel Equipment, DCC Server Board failed. (Valid for an AID of ALL, DSB.)
DTLCKCPYFL	Data Lock Copy Fail, I/O modules in shelf/quad not locked

	to the copy specified. (Valid for an AID of ALL, SHELF, QUAD.)
DUPMACADDR	Duplicate MAC Address detected on the LAN. (Valid for an AID of ALL, DSB.)
DUPTARPENTRY	Duplicate TARP adjacency table. (Valid for an AID of ALL, DSB.)
FA	Fuse Alarm, a PDU/RDU/RSP circuit breaker or PDU fuse has failed. (Valid for an AID of ALL, CKB, FUSE.)
FANEQPT	Fan Equipment, one or more of the fans in a fan assembly failed. (Valid for an AID of ALL, FAN.)
FWMISM	Firmware Mismatch, firmware version number does not match that in the system database. (Valid for an AID of ALL, MCB.)
GT1	GTI Cable fault for GTI cable carrying an STM1 signal (Valid for an AID of ALL, G1EOB, G1EP3, G1ES1, G1IOB, G1IRPB, G1S3M, G1M16, G1M32, G1M40, G1MRPB, G1O1B, G1O4M.)
GT4	GTI Cable fault for GTI cable carrying an STM4 signal (Valid for an AID of ALL, G4EOB, G4IOB, G4OXB.)
IMPROPRMVL	Improper Removal, result of a physical circuit pack removal that was not preceded by a logical removal. (Valid for AID of ALL, ACM, CDA, CDB, CIM, CPU, DSB, DSI, EOB, EP3, ES1, ESA, FAN, HMU, ICM, IOB, IPB, IPU, LT1, LT2, LT4, LT5, LT8, M16, M32, M40, MCB, O1B, O4M, OXB, P39, P56, PDU, PRT, PSF, PST, RDU, RPB, S3M, SBT, SIO, SPB, SWI.)
INHSDWX	Inhibit Switch Duplex, automatic copy switching of duplex equipment inhibited. (Valid for an AID of ALL, CPU, IPU, SPB.)
INHSWPR	Inhibit Switch to Protection, automatic protection switching of a main circuit pack to protection unit is inhibited. (Valid for an AID of ALL, DSI, EP3, ES1, HMU, LMU.)
INHSWWKG	Inhibit Switch to Working, automatic switching of a main circuit pack back to working (from protection) is inhibited. (Valid for an AID of ALL, DSI, EP3, ES1, HMU, LMU.)
INIT	Initialization, shelf initialization in-process. (Valid for an AID of ALL, SHELF.)
INTERR	Internal Error, internal error suspected on equipment. (Valid for an AID of ALL, CDA, CDB, DSI, EOB, EP3, ES1, HMU, IOB, IPB, LMU, M16, M32, M40, MCB, O1B, O4M, OXB, RPB, S3M.)
LOCKOUT	LockOut of automatic revertive switching due to excessive protection switching. (Valid for an AID of ALL, DSI, EP3, ES1, HMU, LMU.)
LOTRI	Loss Of Offboard Timing Reference Input from mate Master Clock Board circuit pack. (Valid for an AID of ALL, MCB.)
MAN	Manual removal (logical removal was performed on a circuit pack). (Valid for an AID of ALL, ACM, CDA, CDB, CIM, CPU, DSB, DSI, DSK, EOB, EP3, ES1, HMU, ICM, IOB, IPB, IPU, LMU, M16, M32, M40, MCB, O1B, O4M, OXB, P39, P56, PSF, RPB, S3M, SIO, SPB.)
MANWKSWPR	Manual Working Switched to Protection, main/working unit was manually switched to the protection unit. (Valid for an AID of ALL, DSI, EP3, ES1, HMU, LMU.)

MISC-1	Miscellaneous Class-1, slave MCB is not ready. (Valid for an AID of ALL, MCB.)
OSIPARMISM	OS Initialization Parameter Mismatch, upper layer parameters or lower layer parameters specific to the LAN or manual area addresses are mismatched between two redundant DSBs. (Valid for an AID of ALL, DSB.)
PRCDRERR	Procedure Error, installed equipment does not support the facility provisioning. (Valid for an AID of ALL, ACM, CDA, CDB, CIM, CPU, DSB, DSI, EOB, EP3, ES1, HMU, ICM, IOB, IPB, IPU, LMU, LT1, LT2, LT4, LT5, LT8, M16, M32, M40, MCB, OXB, O1B, O4M, P39, P56, PRT, RPB, S3M, SIO, SWI.)
PWR	Power, internal power failure detected. (Valid for an AID of ALL, P39, P56, PSF, PST, RSP.)
RARFAIL	Re-Arrangement Failed, cross-connect rearrangement through the matrix failed due to SPB communication problem. (Valid for an AID of ALL, M16, M32, M40, SPB.)
SWFTDWN	Software Download is in process on a circuit pack. (Valid for an AID of ALL, ACM, CIM, DSB, EP3, ES1, ICM, IPU, M16, M32, M40, MCB, O1B, O4M, OXB, RPB, S3M, SPB.)
SYNCEQPT	Synchronization Equipment failure detected. (Valid for an AID of ALL, CDA, CDB, MCB.)
TERM-EC1	Termination Equipment-EC1, ES1 circuit pack failure. (Valid for an AID of ALL, ES1.)
TERM-OC12	Termination Equipment-OC12, O4M circuit pack failure. (Valid for an AID of ALL, O4M.)
TERM-OC3	Termination Equipment-OC3, O1B circuit pack failure. (Valid for an AID of ALL, O1B.)
TERM-T1	Termination Equipment-T1, DSI circuit pack failure. (Valid for an AID of ALL, DSI.)
TERM-T3	Termination Equipment-T3, HMU circuit pack failure. (Valid for an AID of ALL, HMU.)
TERM-T3EC1	Termination Equipment-T3/EC1, EP3 circuit pack failure. (Valid for an AID of ALL, EP3.)
TSA	Test Session Active, maintenance test session active on the equipment. (Valid for an AID of ALL, DSI, EP3, ES1, HMU, LMU, M16, M32, O1B, O4M, S3M.)
TSI	Time Slot Interchange equipment failure. (Valid for an AID of ALL, M16, M32, M40.)
WKSWPR	Working Switched to Protection, main/working unit automatically switched to the protection unit. (Valid for an AID of ALL, DSI, EP3, ES1, HMU, LMU.)
XIDMISM	Connection ID Mismatch, internal Connection ID Mismatch detected in the I/O shelf/quad. (Valid for an AID of ALL, QUAD, SHELF)

	Restrictions:	RTRV-ATTR-EQPT is denied if the specified CONDDTYPE is not valid for the specified AID.
SRVEFF	{NSA, SA}	
	Default:	< Both service effect values >
	Addressing:	None
	Description:	Service Effect, specifies the service effect of the condition type to be retrieved. Values are:
	NSA	Non-Service Affecting
	SA	Service Affecting

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  ["<AID>,EQPT:<NTFCNCDE>,<CONDDTYPE>,<LOCN>,,,<SRVEFF>"]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

OUTPUT PARAMETERS

AID	{ACM, ALL, CDA, CDB, CID, CIM, CKB, CPU, DSB, DSI, DSK, EOB, EP3, ES1, ESA, FAN, FUSE, G1EOB, G1EP3, G1ES1, G1IOB, G1IRPB, G1M16, G1M32, G1M40, G1MRPB, G1O1B, G1O4M, G1S3M, G4EOB, G4IOB, G4OXB, HMU, ICM, IOB, IPB, IPU, LMU, LT1, LT2, LT4, LT5, LT8, M16, M32, M40, MCB, O1B, O4M, OPD, OXB, P39, P56, PDU, PRT, PSF, PST, QUAD, RDU, RPB, RSP, S3M, SBT, SHELF, SIO, SPB, SWI}
	Equipment AID, identifies the equipment entity name/type. Values are:
	ACM All Administrative Communications Module circuit packs.
	ALL All applicable AIDs pertaining to the specified CONDDTYPE.
	CDA All Clock Distribution A circuit packs.
	CDB All Clock Distribution B circuit packs.
	CID All Communications Interface Devices (VDT, TTY, PRN).
	CIM All Communications Interface Module circuit packs.
	CKB All Circuit Breakers, circuit breakers in the PDU/RDU/RSP.
	CPU All Central Processing Unit circuit packs.
	DSB All DCC Server Boards.
	DSI All DS1 Input/Output circuit packs.
	DSK All Disk Drives.
	EOB All Electrical to Optical Board circuit packs.
	EP3 All Electrical Plesiochronous DS3/STS1 Interface circuit packs.
	ES1 All Electrical Plesiochronous STS1 Interface circuit packs.
	ESA All External DS1 Signal Adapter circuit packs.
	FAN All Fan/Blower assemblies.
	FUSE All Fuses, PDU fuses.
	G1EOB All GTI cables carrying an STM1 signal and terminating on an EOB.
	G1EP3 All GTI cables carrying an STM1 signal and terminating on an EP3.
	G1ES1 All GTI cables carrying an STM1 signal and terminating on an ES1.
	G1IOB All GTI cables coming into IOB module and carrying STM-1 signal.
	G1IRPB All GTI cables carrying an STM1 signal and terminating on the I/O side of the RPB circuit pack.
	G1M16 All GTI cables carrying an STM1 signal and terminating on a M16.
	G1M32 GTI cables carrying an STM1 signal and terminating on an M32.
	G1M40 All GTI cables carrying an STM1 signal and terminating on a M40.
	G1MRPB All GTI cables carrying an STM1 signal and terminating on the matrix side of the RPB circuit pack.

G1O1B	All GTI cables carrying an STM1 signal and terminating on an O1B.										
G1O4M	All GTI cables carrying an STM1 signal and terminating on an O4M.										
G1S3M	All GTI cables carrying an STM1 signal and terminating on an S3M.										
G4EOB	All GTI cables carrying an STM4 signal and terminating on an EOB.										
G4IOB	All GTI cables coming into IOB module and carrying STM-4 signal.										
G4OXB	All GTI cables carrying an STM4 signal and terminating on an OXB.										
HMU	All High Speed Muldem Unit (M23 multiplexing) circuit packs.										
ICM	All Intelligent Communications Module circuit packs.										
IOB	Inter-rack Optics Board										
IPB	All Internal Protection Board circuit packs.										
IPU	All Interface Processing Unit circuit packs.										
LMU	All Low Speed Muldem Unit (M12 multiplexing) circuit packs.										
LT1	All Level 1 Translator (RS-232) circuit packs.										
LT2	All Level 2 Translator (RS-449/422) circuit packs.										
LT4	All Level 4 Translator (ACL) circuit packs.										
LT5	All Level 5 Translator (RS449/423 & LAN) circuit packs.										
LT8	All Level 8 Translator (ACL) circuit packs.										
M16	All Matrix End/Center Stage 16 circuit packs.										
M32	Matrix End Stage 32 circuit packs.										
M40	All Matrix End/Center Stage 40 circuit packs.										
MCB	All Master Clock Board circuit packs.										
O1B	All Optical Interface Level 1 (OC-3) Board circuit packs.										
O4M	All OC-12 Muldem (OC-12) Board circuit packs.										
OPD	All Optical Disk Drives.										
OXB	All Optical Transceiver Board circuit packs.										
P39	All Power Supply, 3.9V circuit packs.										
P56	All Power Supply, 5.6V circuit packs.										
PDU	All Power Distribution Units.										
PRT	All DS1 Protect circuit packs.										
PSF	All Power Supply, 5V circuit packs.										
PST	All Power Supply, 12V circuit packs.										
QUAD	All DS1 Shelf Quadrants.										
RDU	All Rack Distribution Units.										
RPB	All Ring Protection Board circuit packs.										
RSP	Rack Status Panel.										
S3M	All STS3C Module circuit packs.										
SBT	All System Bus Termination circuit packs.										
SHELF	All I/O, EOC, End Stage, or Center Stage Shelves.										
SIO	All Serial Input/Output circuit packs.										
SPB	All Satellite Processor Board circuit packs.										
SWI	All DS1 Switch circuit packs.										
NTFCNCDE	{CR, MJ, MN, NA, NR} Notification Code, identifies the notification code of the condition type and service effect being retrieved. Values are: <table> <tr> <td>CR</td><td>Critical Alarm</td></tr> <tr> <td>MJ</td><td>Major Alarm</td></tr> <tr> <td>MN</td><td>Minor Alarm</td></tr> <tr> <td>NA</td><td>Not Alarmed</td></tr> <tr> <td>NR</td><td>Not Reported</td></tr> </table>	CR	Critical Alarm	MJ	Major Alarm	MN	Minor Alarm	NA	Not Alarmed	NR	Not Reported
CR	Critical Alarm										
MJ	Major Alarm										
MN	Minor Alarm										
NA	Not Alarmed										
NR	Not Reported										
CONDTYPE	{ALMCKT, BKUPMEMP, BKUPMEMS, BPMISM, BPTerm, CARLOS, CD, CLKLCK0,										

CLKLCK1, CNTRLRFL, CONTBUS, CONTCOM, CONTR, CTNEQPT, DBF, DBFFT, DCCEQPT, DTLCKCPYFL, DUPMACADDR, DUPTARPENTRY, FA, FANEQPT, FWMISM, GT1, GT4, IMPROPRMVL, INHSWDX, INHSWPR, INHSWWKG, INIT, INTERR, LOCKOUT, LOTRI, MAN, MANWKSWPR, MISC-1, OSIPARMISM, PRCDRERR, PWR, RARFAIL, SWFTDWN, SYNCEQPT, TERM-EC1, TERM-OC12, TERM-OC3, TERM-T1, TERM-T3, TERM-T3EC1, TSA, TSI, WKSWPR, XIDMISM}

Condition Type, identifies the condition type being retrieved. (Refer to Appendix C for a list of all condition types.) Values are:

ALMCKT	Alarm Circuit, RDU/RSP failure detected.
BKUPMEMP	Backup Memory—Primary, magnetic disk backup failure.
BKUPMEMS	Backup Memory—Secondary, optical disk/tape drive back-up failure.
BPMISM	Backplane Mismatch, mismatch between the provisioned shelf and the installed shelf Backplane.
BPTERM	Backplane Termination failure detected in the SI48 I/O, EOC, End Stage, or Center Stage shelf.
CARLOS	Carrier Loss, loss of carrier event during IEEE 802.3 frame transmission on the LAN.
CD	Control and Display interface audit error detected.
CLKLCK0	Clock Lock 0, the clock path of the I/O, EOC, ES, and CS locked to clock bus 0.
CLKLCK1	Clock Lock 1, the clock path of the I/O, EOC, ES, and CS locked to clock bus 1.
CNTRLRFL	Controller Failure, LAPD or LAN controller failed set on the DSB.
CONTBUS	Control Bus, shelf control bus interface failure.
CONTCOM	Control Communication equipment failure.
CONTR	Control processor equipment failure.
CTNEQPT	Connection Equipment, facility/circuit interconnection equipment failure.
DBF	Database Backup Failure, OPD database backup failure detected (on second try).
DBFFT	Database Backup Failed on First Try, OPD database backup failure detected on first try.
DCCEQPT	Data Communication Channel Equipment, DCC Server Board failed.
DTLCKCPYFL	Data Lock Copy Fail, I/O modules in shelf/quad not locked to the copy specified.
DUPMACADDR	Duplicate MAC Address detected on the LAN.
DUPTARPENTRY	Duplicate TARP adjacency table. (Valid for an AID of ALL, DSB.)
FA	Fuse Alarm, a PDU/RDU/RSP circuit breaker or PDU fuse has failed.
FANEQPT	Fan Equipment, one or more of the fans in a fan assembly failed.
FWMISM	Firmware Mismatch, firmware version number does not match that in the system database.
GT1	GTI Cable fault for GTI cable carrying an STM1 signal.
GT4	GTI Cable fault for GTI cable carrying an STM4 signal.
IMPROPRMVL	Improper Removal, result of a physical circuit pack removal that was not preceded by a logical removal.
INHSWDX	Inhibit Switch Duplex, automatic copy switching of duplex equipment inhibited.

	INHSWPR	Inhibit Switch to Protection, automatic protection switching of a main circuit pack to protection unit is inhibited.
	INHSWWKG	Inhibit Switch to Working, automatic switching of a main circuit pack back to working (from protection) is inhibited.
	INIT	Initialization, shelf initialization in-process.
	INTERR	Internal Error, internal error suspected on equipment.
	LOCKOUT	LockOut of automatic revertive switching due to excessive protection switching.
	LOTRI	Loss Of Offboard Timing Reference Input from mate Master Clock Board circuit pack.
	MAN	Manual removal (logical removal was performed on a circuit pack).
	MANWKSWPR	Manual Working Switched to Protection, main/working unit was manually switched to the protection unit.
	MISC-1	Miscellaneous Class-1, slave MCB is not ready.
	OSIPARMISM	OS Initialization Parameter Mismatch, upper layer parameters or lower layer parameters specific to the LAN or manual area addresses are mismatched between two redundant DSBs.
	PRCDRERR	Procedure Error, installed equipment does not support the facility provisioning.
	PWR	Power, internal power failure detected.
	RARFAIL	Re-Arrangement Failed, cross-connect rearrangement through the matrix failed due to SPB communication problem.
	SWFTDWN	Software Download is in process on a circuit pack.
	SYNCEQPT	Synchronization Equipment failure detected.
	TERM-EC1	Termination Equipment-EC1, ES1 circuit pack failure.
	TERM-OC12	Termination Equipment-OC12, O4M circuit pack failure.
	TERM-OC3	Termination Equipment-OC3, O1B circuit pack failure.
	TERM-T1	Termination Equipment-T1, DSI circuit pack failure.
	TERM-T3	Termination Equipment-T3, HMU circuit pack failure.
	TERM-T3EC1	Termination Equipment-T3/EC1, EP3 circuit pack failure.
	TSA	Test Session Active, maintenance test session is active on the equipment.
	TSI	Time Slot Interchange equipment failure.
	WKSWPR	Working Switched to Protection, main/working unit automatically switched to the protection unit.
	XIDMISM	Connection ID Mismatch, internal Connection ID Mismatch detected in the I/O shelf/quad.
LOCN	{NEND}	Location, identifies the location where the condition type is monitored. A value of NEND (Near-End) is always reported.
SRVEFF	{NSA, SA}	Service Effect, identifies the service effect of the condition type and notification code being retrieved. Values are:
	NSA	Non-Service Affecting
	SA	Service Affecting

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid
	/* Invalid notification code specified: <NOTIFICATION CODE STRING>. */
	/* Invalid service effect specified: <SERVICE EFFECT STRING>. */
	/* Condition type not valid for: EQPT. */
	/* Condition type is not MISC but has a -#: <CONDITION TYPE STRING>. */
	/* Condition type is MISC but has no -#. */
	/* Condition type is TERM but - <STRING> is not valid. */
	/* Invalid condition type specified: <CONDITION TYPE STRING>. */
	/* Invalid parameter specified. */
IIAC	Input, Invalid ACcess identifier
	/* Invalid card type specified: <CARD TYPE STRING>. */
SDBE	Status, internal Data Base Error
	/* Error <ERROR NUMBER> reading record from <FILENAME>. */
SROF	Status, Requested Operation Failed
	/* Cannot open <FILENAME>. */
	/* rpt_file error - <ERRNO>, status = <STATUS>. */
	/* nrl_rpt_print error - no transaction, msgtype = <MSGTYPE>. */
	/* rpt_print error - <ERRNO>, status = <STATUS>. */

EXAMPLES

In the following example, the notification code attribute for the non-service affecting BKUPMEMS condition type for all applicable equipment name/types is retrieved.

```
RTRV-ATTR-EQPT: :ALL: : , BKUPMEMS , , , NSA;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71042. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```

<SID> <YY-MM-DD> <HH:MM:SS>
M P71042 COMPLD
  "OPD,EQPT:MN,BKUPMEMS,NEND,,NSA"
  /* RTRV-ATTR-EQPT: :ALL: : , BKUPMEMS , , , NSA [P71042] (1) */
;

```

In the following example, the notification code and service affect attributes for all SPB condition types are retrieved.

```
RTRV-ATTR-EQPT: :SPB;
```

The output response, shown below, assumes CID 2 was used to enter the command, and a system generated a CTAG value of P71056. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
"SPB,EQPT:MJ,CONTBUS,NEND,,,SA"
"SPB,EQPT:MN,CONTBUS,NEND,,,NSA"
"SPB,EQPT:MJ,CONTR,NEND,,,SA"
"SPB,EQPT:MN,CONTR,NEND,,,NSA"
"SPB,EQPT:MJ,IMPROPRMVL,NEND,,,SA"
"SPB,EQPT:MN,IMPROPRMVL,NEND,,,NSA"
"SPB,EQPT:MN,INHSDX,NEND,,,NSA"
"SPB,EQPT:MJ,MAN,NEND,,,SA"
"SPB,EQPT:MN,MAN,NEND,,,NSA"
"SPB,EQPT:MJ,RARFAIL,NEND,,,SA"
/* RTRV-ATTR-EQPT::SPB [P71056] (2) */
;
```

RELATED COMMANDS

```
CLR-ALM-EQPT
RTRV-ALM-ALL
RTRV-ALM-EQPT
RTRV-COND-ALL
RTRV-COND-EQPT
SET-ATTR-EQPT
```

RELATED AUTONOMOUS RESPONSES

```
REPT^ALM^EQPT
REPT^EVT^EQPT
```

COMMAND CODE: **RTRV-ATTR-F3**
COMMAND NAME: **RETRIEVE ATTRIBUTE F3**

PURPOSE

The RTRV-ATTR-F3 command retrieves the provisioned condition type attributes (notification code and service effect) for the specified F3 port. The CONDTYPE, NTFNCNDE, LOCN, and SRVEFF input parameters provide a search-key filter for retrieving condition type attributes satisfying the specified input parameters. The command is completed regardless of whether the F3 port is provisioned.

The successful response for a RTRV-ATTR-F3 command contains one line of parsable output data, in alphabetical order, for each condition type being reported per specified AID. If both service effect attributes are requested, a separate line of output data is provided for service affecting attributes (if any), followed by a line for non-service affecting attributes (if any), per condition type being reported.

If there are no condition types attributes matching the specified (valid) combination of AID, condition type, notification code, location, and service effect, then the command is completed with no line of parsable output data provided in the response message.

A RTRV-ATTR-F3 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-ATTR-F3 : [TID] : AID : [CTAG] : : [NTFCNCDE] , [CONDTYPE] , [LOCN] , [DIRN] ,
[TMPER] , [SRVEFF] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.										
AID	F3_AID: {T3F3-{1-4800}-{1-14}} (T3F3-DS3#-Fractional_DS3#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: F3 AID, identifies the F3 port.										
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.										
NTFCNCDE	{CR, MJ, MN, NA, NR} Default: < All applicable notification codes listed above > Addressing: None Description: Notification Code, specifies the notification code of the condition type to be retrieved. Values are: <table><tr><td>CR</td><td>Critical Alarm</td></tr><tr><td>MJ</td><td>Major Alarm</td></tr><tr><td>MN</td><td>Minor Alarm</td></tr><tr><td>NA</td><td>Not Alarmed</td></tr><tr><td>NR</td><td>Not Reported</td></tr></table>	CR	Critical Alarm	MJ	Major Alarm	MN	Minor Alarm	NA	Not Alarmed	NR	Not Reported
CR	Critical Alarm										
MJ	Major Alarm										
MN	Minor Alarm										
NA	Not Alarmed										
NR	Not Reported										

CONDTYPE	{INHPMREPT}	
	Default:	< All applicable condition types listed above >
	Addressing:	None
	Description:	Condition Type, specifies the condition type to be retrieved. (Refer to Appendix C for a list of all condition types.) Values are:
	INHPMREPT	Inhibit Performance Monitoring Report, PM report capability inhibited.
LOCN	{NEND}	
	Default:	< All location values applicable to the specified condition type >
	Addressing:	None
	Description:	Location, specifies the monitoring location of the condition type to be retrieved. Values are:
	NEND	Near-End, events occurring at the system.
DIRN	{NA, RCV}	
	Default:	{NA}
	Addressing:	None
	Description:	Direction, specifies the direction of the condition type being monitored. The value for DIRN is verified, but does not affect the function of the RTRV-ATTR-F3 command.
	NA	Not Applicable
	RCV	Receive side
TMPER	{15-MIN, 1-DAY}	
	Default:	{15-MIN}
	Addressing:	None
	Description:	Time Period. The value for TMPER is verified, but does not affect the function of the RTRV-ATTR-F3 command.
SRVEFF	{NSA, SA}	
	Default:	< Both service effect values >
	Addressing:	None
	Description:	Service Effect, specifies the service effect of the condition type to be retrieved. Values are:
	NSA	Non-Service Affecting
	SA	Service Affecting

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
[ "<AID>, F3 : <NTFCNCDE>, <CONDTYPE>, <LOCN>, , , <SRVEFF>" ]
[/* <Command Echo> [<CTAG>] (<CID [-VCNUM] >) */]
;

```

OUTPUT PARAMETERS

AID	F3_AID:	
	{T3F3-{1-4800}-{1-14}}	(T3F3-DS3#-Fractional_DS3#)
	F3 AID, identifies the F3 port.	
NTFCNCDE	{CR, MJ, MN, NA, NR}	
	Notification Code, identifies the notification code of the condition type and service effect being retrieved. Values are:	
	CR	Critical Alarm
	MJ	Major Alarm
	MN	Minor Alarm
	NA	Not Alarmed
	NR	Not Reported

CONDTYPE	{INHPMREPT} Condition Type, identifies the condition type being retrieved. (Refer to Appendix C for a list of all condition types.) Values are: INHPMREPT Inhibit Performance Monitoring Report, PM report capability inhibited.
LOCN	{NEND} Location, identifies the location where the condition type is monitored. Values are: NEND Near-End, events occurring at the system.
SRVEFF	{NSA, SA} Service Effect, identifies the service effect of the condition type and notification code being retrieved. Values are: NSA Non-Service Affecting SA Service Affecting

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent /*Condition type is not consistent with <FACILITY TYPE STRING>.*/ /*Location is not consistent with <FACILITY TYPE STRING> <CONDITION TYPE STRING>.*/ STRING>.*
IDNV	Input, Data Not Valid /* Invalid notification code specified: <NOTIFICATION CODE STRING>.*/ /* Invalid service effect specified: <SERVICE EFFECT STRING>.*/ /* Invalid location specified: <LOCATION STRING>.*/ /* Invalid condition type specified: <CONDITION TYPE STRING>.*
IIAC	Input, Invalid ACcess identifier /*Invalid Access ID specified.*/ /*This command does not support keyword ALL for AID.*
SDBE	Status, internal Data Base Error /*Error <ERROR NUMBER> reading record from <FILENAME>.*
SROF	Status, Requested Operation Failed /*Failed to convert tp id <TP ID NUMBER> to AID string.*/ /*rpt_file error - <ERRNO>, status = <STATUS>*/ /*Cannot open <FILENAME>*/ /*nrl_rpt_print error - no transaction, msgtype = <MSGTYPE>*/ /* rpt_print error - <ERRNO>, status = <STATUS>.*

EXAMPLES

In the following example, all condition type attributes for F3 port T3F3-4-14 are retrieved.

```
RTRV-ATTR-F3 : : T3F3-4-14 ;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of P71085. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```

      <SID> <YY-MM-DD> <HH:MM:SS>
M  <CTAG> COMPLD
    "T3F3-4-14,F3:NA,INHMPREPT,NEND,,NSA"
    /* RTRV-ATTR-F3:T3F3-4-14 [P71085] (2) */
;

```

RELATED COMMANDS

```

RTRV-ALM-ALL
RTRV-ALM-F3
RTRV-COND-ALL
RTRV-COND-F3
RTRV-DFLTATTR-F3
SET-ATTR-F3
SET-DFLTATTR-F3

```

RELATED AUTONOMOUS RESPONSES

```

REPT^ALM^F3
REPT^EVT^F3

```

COMMAND CODE: **RTRV-ATTR-OC12**
COMMAND NAME: **RETRIEVE ATTRIBUTE OC-12**

PURPOSE

The RTRV-ATTR-OC12 command retrieves the provisioned condition type attributes (notification code and service effect) for the specified OC-12 port. The CONDTYPE, NTFCNCDE, LOCN, and SRVEFF input parameters provide a search-key filter for retrieving condition type attributes satisfying the specified input parameters. The command is completed regardless of whether the OC-12 port is provisioned.

The successful response for a RTRV-ATTR-OC12 command contains one line of parsable output data, in alphabetical order, for each condition type being reported per specified AID. If both service effect attributes are requested, a separate line of output data is provided for service affecting attributes (if any), followed by a line for non-service affecting attributes (if any), per condition type being reported.

If there are no condition types attributes matching the specified (valid) combination of AID, condition type, notification code, location, and service effect, then the command is completed with no line of parsable output data provided in the response message.

A RTRV-ATTR-OC12 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-ATTR-OC12 : [TID] : AID : [CTAG] : : [NTFCNCDE] , [CONDTYPE] , [LOCN] , [DIRN] ,
[TMPER] , [SRVEFF] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.										
AID	OC12_AID: {OC12-{1-560}} (OC12-OC12#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: OC12 AID, identifies the OC-12 port.										
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.										
NTFCNCDE	{CR, MJ, MN, NA, NR} Default: < All applicable notification codes listed above > Addressing: None Description: Notification Code, specifies the notification code of the condition type to be retrieved. Values are: <table><tr><td>CR</td><td>Critical Alarm</td></tr><tr><td>MJ</td><td>Major Alarm</td></tr><tr><td>MN</td><td>Minor Alarm</td></tr><tr><td>NA</td><td>Not Alarmed</td></tr><tr><td>NR</td><td>Not Reported</td></tr></table>	CR	Critical Alarm	MJ	Major Alarm	MN	Minor Alarm	NA	Not Alarmed	NR	Not Reported
CR	Critical Alarm										
MJ	Major Alarm										
MN	Minor Alarm										
NA	Not Alarmed										
NR	Not Reported										

CONDTYPE	NEAR-END_CONDDTYPE:{ACTLPBK, AIS, DUPTARPENRY, EBER, ESW, FRCDWKS WBK, FRCDWKS WPR, INHPMREPT, L2LCONFAIL, L2S CONFAIL, LDCCDLFL, LOCKOUTOFPR, LOF, LOS, MAN, MANWKS WBK, MANWKS WPR, SDBER, SDCCDLFL, WTR}, FAR-END_CONDDTYPE:{RFI}
Default:	< All applicable condition types listed above >
Addressing:	None
Description:	Condition Type, specifies the condition type to be retrieved. (Refer to Appendix C for a list of all condition types.) Values are:
ACTLPBK	Active Loopback, the OC-12 port is in loopback. (Near-End only.)
AIS	Alarm Indication Signal, AIS detected. (Near-End only.)
DUPTARPENRY	Duplicate TARP adjacency table. (Near-End only.)
EBER	Excessive Bit Error Rate detected. (Near-End only.)
ESW	Excessive Switching, lockout of automatic revertive (OC-12) switching due to excessive switching. (Near-End only.)
FRCDWKS WBK	Forced Working Switched Back, working facility was manually force switched from protection to the main facility. (Near-End only.)
FRCDWKS WPR	Forced Working Switched to Protection, working facility was manually force switched to the protection facility. (Near-End only.)
INHPMREPT	Inhibit Performance Monitoring Report, PM report capability inhibited. (Near-End only.)
L2LCONFAIL	Layer 2 Line DCC Connection Failure. (Near-End only.)
L2S CONFAIL	Layer 2 Section DCC Connection Failure. (Near-End only.)
LDCCDLFL	Line DCC Data Link Failure. (Near-End only.)
LOCKOUTOFPR	LockOut Of Protection facility. (Near-End only.)
LOF	Loss Of Frame detected. (Near-End only.)
LOS	Loss Of Signal detected. (Near-End only.)
MAN	Manual removal (logical removal was performed on the facility). (Near-End only.)
MANWKS WBK	Manual Working Switched Back, working facility was manually switched from protection to the main facility. (Near-End only.)
MANWKS WPR	Manual Working Switched to Protection, working facility was manually switched to the protection facility. (Near-End only.)
RFI	Remote Failure Indication detected. (Far-End only.)
SDBER	Signal Degrade Bit Error Rate detected. (Near-End only.)
SDCCDLFL	Section DCC Data Link Failure. (Near-End only.)
WTR	Wait To Restore of protection facility. (Near-End only.)
Restrictions:	RTRV-ATTR-OC12 is denied if the specified CONDDTYPE value is not supported for the specified LOCN value (e.g., CONDDTYPE of RFI and LOCN of NEND is entered).

LOCN	{FEND, NEND}	
	Default:	< All location values applicable to the specified condition type >
	Addressing:	None
	Description:	Location, specifies the monitoring location of the condition type to be retrieved. Values are:
	FEND	Far-End, events occurring at a distant network element.
DIRN	{NA, RCV, TRMT}	
	Default:	< All applicable directions >
	Addressing:	None
	Description:	Direction, specifies the direction of the condition type being monitored. The value for DIRN is verified, but does not affect the function of the RTRV-ATTR-OC12 command.
	NA	Not Applicable
TMPER	{15-MIN, 1-DAY}	
	Default:	{15-MIN}
	Addressing:	None
	Description:	Time Period. The value for TMPER is verified, but does not affect the function of the RTRV-ATTR-OC12 command.
SRVEFF	{NSA, SA}	
	Default:	< Both service effect values >
	Addressing:	None
	Description:	Service Effect, specifies the service effect of the condition type to be retrieved. Values are:
	NSA	Non-Service Affecting
	SA	Service Affecting

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  ["<AID>,OC12:<NTFCNCDE>,<CONDTYPE>,<LOCN>,,,<SRVEFF>"]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

OUTPUT PARAMETERS

AID	OC12_AID:	
	{OC12-{1-560}}	(OC12-OC12#)
	OC12 AID, identifies the OC-12 port.	
NTFCNCDE	{CR, MJ, MN, NA, NR}	
	Notification Code, identifies the notification code of the condition type and service effect being retrieved. Values are:	
	CR	Critical Alarm
	MJ	Major Alarm
	MN	Minor Alarm
	NA	Not Alarmed
	NR	Not Reported

CONDTYPE	NEAR-END_CONDDTYPE:{ACTLPBK, AIS, DUPTARPENRTY, EBER, ESW, FRCDWKSWBK, FRCDWKSWPR, INHPMREPT, L2LCONFAIL, L2SCONFAIL, LDCCDLFL, LOCKOUTOFPR, LOF, LOS, MAN, MANWKSWBK, MANWKSWPR, SDBER, SDCCDLFL, WTR}, FAR-END_CONDDTYPE:{RFI} Condition Type, specifies the condition type to be retrieved. (Refer to Appendix C for a list of all condition types.) Values are:	
	ACTLPBK	Active Loopback, the OC-12 port is in loopback.
	AIS	Alarm Indication Signal, AIS detected.
	DUPTARPENRTY	Duplicate TARP adjacency table. (Near-End only.)
	EBER	Excessive Bit Error Rate detected.
	ESW	Excessive Switching, lockout of automatic revertive (OC-12) switching due to excessive switching.
	FRCDWKSWBK	Forced Working Switched Back, working facility was manually force switched from protection to the main facili- ty.
	FRCDWKSWPR	Forced Working Switched to Protection, working facility was manually force switched to the protection facility.
	INHPMREPT	Inhibit Performance Monitoring Report, PM report capabil- ity inhibited.
	L2LCONFAIL	Layer 2 Line DCC Connection Failure.
	L2SCONFAIL	Layer 2 Section DCC Connection Failure.
	LDCCDLFL	Line DCC Data Link Failure.
	LOCKOUTOFPR	LockOut Of Protection facility.
	LOF	Loss Of Frame detected.
	LOS	Loss Of Signal detected.
	MAN	Manual removal (logical removal was performed on the fa- cility).
	MANWKSWBK	Manual Working Switched Back, working facility was manually switched from protection to the main facility.
	MANWKSWPR	Manual Working Switched to Protection, working facility was manually switched to the protection facility.
	RFI	Remote Failure Indication detected.
	SDBER	Signal Degrade Bit Error Rate detected.
	SDCCDLFL	Section DCC Data Link Failure.
	WTR	Wait To Restore of protection facility.
LOCN	{FEND, NEND} Location, identifies the location where the condition type is monitored. Values are:	
	FEND	Far-End, events occurring at a distant network element.
	NEND	Near-End, events occurring at the system.
SRVEFF	{NSA, SA} Service Effect, identifies the service effect of the condition type and notification code be- ing retrieved. Values are:	
	NSA	Non-Service Affecting
	SA	Service Affecting

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent /* Condition type is not consistent with <FACILITY TYPE STRING>. */ /* Location is not consistent with <FACILITY TYPE STRING> <CONDITION TYPE STRING>. */
IDNV	Input, Data Not Valid /* Invalid notification code specified: <NOTIFICATION CODE STRING>. */ /* Invalid service effect specified: <SERVICE EFFECT STRING>. */ /* Invalid location specified: <LOCATION STRING>. */ /* Invalid condition type specified: <CONDITION TYPE STRING>. */
IIAC	Input, Invalid ACcess identifier /* Invalid Access ID specified. */ /* This command does not support keyword ALL for AID. */
SDBE	Status, internal Data Base Error /* Error <ERROR NUMBER> reading record from <FILENAME>. */
SROF	Status, Requested Operation Failed /* Failed to convert tp id <TP ID NUMBER> to AID string. */ /* Cannot open <FILENAME>. */ /* rpt_file error – <ERRNO>, status = <STATUS>. */ /* nrl_rpt_print error – no transaction, msgtype = <MSGTYPE>. */ /* rpt_print error – <ERRNO>, status = <STATUS>. */

EXAMPLES

In the following example, the notification code attribute for the far-end, non-service affecting RFI condition type for OC-12 ports OC12-339 through OC12-340 is retrieved.

```
RTRV-ATTR-OC12::OC12-339&&-340:::,ISD,, ,NSA;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71080. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P71080 COMPLD
"OC12-339,OC12:NA,RFI,FEND,, ,NSA"
"OC12-340,OC12:NA,RFI,FEND,, ,NSA"
/* RTRV-ATTR-OC12::OC12-339&&-340:::,ISD,, ,NSA [P71080] (1) */
;
```

In the following example, all condition type attributes for OC12 port OC12-345 are retrieved.

```
RTRV-ATTR-OC12::OC12-345;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of P71085. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P71085 COMPLD
"OC12-345,OC12:NA,ACTLPBK,NEND,,NSA"
"OC12-345,OC12:MN,AIS,NEND,,SA"
"OC12-345,OC12:MN,AIS,NEND,,NSA"
"OC12-345,OC12:MJ,EBER,NEND,,SA"
"OC12-345,OC12:MN,EBER,NEND,,NSA"
"OC12-345,OC12:MN,ESW,NEND,,NSA"
"OC12-345,OC12:MN,FRCDWKSWBK,NEND,,NSA"
"OC12-345,OC12:NR,INHMPMREPT,NEND,,NSA"
"OC12-345,OC12:MN,LOCKOUTOFPR,NEND,,NSA"
"OC12-345,OC12:CR,LOF,NEND,,SA"
"OC12-345,OC12:MN,LOF,NEND,,NSA"
"OC12-345,OC12:CR,LOS,NEND,,SA"
"OC12-345,OC12:MN,LOS,NEND,,NSA"
"OC12-345,OC12:MJ,MAN,NEND,,SA"
"OC12-345,OC12:MN,MAN,NEND,,NSA"
"OC12-345,OC12:NA,MANWKSWBK,NEND,,NSA"
"OC12-345,OC12:NA,MANWKSWPR,NEND,,NSA"
"OC12-345,OC12:NA,RFI,FEND,,NSA"
"OC12-345,OC12:MJ,SDBER,NEND,,SA"
"OC12-345,OC12:MN,SDBER,NEND,,NSA"
/* RTRV-ATTR-OC12::OC12-345 [P71085] (2) */
;
```

RELATED COMMANDS

```
RTRV-ALM-ALL
RTRV-ALM-OC12
RTRV-COND-ALL
RTRV-COND-OC12
RTRV-DFLTATTR-OC12
SET-ATTR-OC12
SET-DFLTATTR-OC12
```

RELATED AUTONOMOUS RESPONSES

```
REPT^ALM^OC12
REPT^EVT^OC12
```


COMMAND CODE: **RTRV-ATTR-OC3**
COMMAND NAME: **RETRIEVE ATTRIBUTE OC-3**

PURPOSE

The RTRV-ATTR-OC3 command retrieves the provisioned condition type attributes (notification code and service effect) for the specified OC-3 port. The CONDTYPE, NTFNCNDE, LOCN, and SRVEFF input parameters provide a search-key filter for retrieving condition type attributes satisfying the specified input parameters. The command is completed regardless of whether the OC-3 port is provisioned.

The successful response for a RTRV-ATTR-OC3 command contains one line of parsable output data, in alphabetical order, for each condition type being reported per specified AID. If both service effect attributes are requested, a separate line of output data is provided for service affecting attributes (if any), followed by a line for non-service affecting attributes (if any), per condition type being reported.

If there are no condition types attributes matching the specified (valid) combination of AID, condition type, notification code, location, and service effect, then the command is completed with no line of parsable output data provided in the response message.

A RTRV-ATTR-OC3 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-ATTR-OC3 : [TID] : AID : [CTAG] : : [NTFCNCDE] , [CONDTYPE] , [LOCN] , [DIRN] ,
[TMPER] , [SRVEFF] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.										
AID	OC3_AID: {OC3-{1-2240}} (OC3-OC3#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: OC3 AID, identifies the OC-3 port.										
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.										
NTFCNCDE	{CR, MJ, MN, NA, NR} Default: < All applicable notification codes listed above > Addressing: None Description: Notification Code, specifies the notification code of the condition type to be retrieved. Values are: <table><tr><td>CR</td><td>Critical Alarm</td></tr><tr><td>MJ</td><td>Major Alarm</td></tr><tr><td>MN</td><td>Minor Alarm</td></tr><tr><td>NA</td><td>Not Alarmed</td></tr><tr><td>NR</td><td>Not Reported</td></tr></table>	CR	Critical Alarm	MJ	Major Alarm	MN	Minor Alarm	NA	Not Alarmed	NR	Not Reported
CR	Critical Alarm										
MJ	Major Alarm										
MN	Minor Alarm										
NA	Not Alarmed										
NR	Not Reported										

CONDTYPE	NEAR-END_CONDDTYPE:{ACTLPBK, AIS, DUPTARPENRY, EBER, ESW, FRCDWKS WBK, FRCDWKS WPR, INHPMREPT, L2LCONFAIL, L2S CONFAIL, LDCCDLFL, LOCKOUTOFPR, LOF, LOS, MAN, MANWKS WBK, MANWKS WPR, SDBER, SDCCDLFL, WTR}, FAR-END_CONDDTYPE:{RFI}
Default:	< All applicable condition types listed above >
Addressing:	None
Description:	Condition Type, specifies the condition type to be retrieved. (Refer to Appendix C for a list of all condition types.) Values are:
ACTLPBK	Active Loopback, the OC-3 port is in loopback. (Near-End only.)
AIS	Alarm Indication Signal, AIS detected. (Near-End only.)
DUPTARPENRY	Duplicate TARP adjacency table. (Near-End only.)
EBER	Excessive Bit Error Rate detected. (Near-End only.)
ESW	Excessive Switching, lockout of automatic revertive (OC-3) switching due to excessive switching. (Near-End only.)
FRCDWKS WBK	Forced Working Switched Back, working facility was manually force switched from protection to the main facility. (Near-End only.)
FRCDWKS WPR	Forced Working Switched to Protection, working facility was manually force switched to the protection facility. (Near-End only.)
INHPMREPT	Inhibit Performance Monitoring Report, PM report capability Inhibited. (Near-End only.)
L2LCONFAIL	Layer 2 Line DCC Connection Failure. (Near-End only.)
L2S CONFAIL	Layer 2 Section DCC Connection Failure. (Near-End only.)
LDCCDLFL	Line DCC Data Link Failure. (Near-End only.)
LOCKOUTOFPR	LockOut Of Protection facility. (Near-End only.)
LOF	Loss Of Frame detected. (Near-End only.)
LOS	Loss Of Signal detected. (Near-End only.)
MAN	Manual removal (logical removal was performed on the facility). (Near-End only.)
MANWKS WBK	Manual Working Switched Back, working facility was manually switched from protection to the main facility. (Near-End only.)
MANWKS WPR	Manual Working Switched to Protection, working facility was manually switched to the protection facility. (Near-End only.)
RFI	Remote Failure Indication detected. (Far-End only.)
SDBER	Signal Degrade Bit Error Rate detected. (Near-End only.)
SDCCDLFL	Section DCC Data Link Failure. (Near-End only.)
WTR	Wait To Restore of protection facility. (Near-End only.)
Restrictions:	RTRV-ATTR-OC3 is denied if the specified CONDDTYPE value is not supported for the specified LOCN value (e.g., CONDDTYPE of RFI and LOCN of NEND is entered).

LOCN	{FEND, NEND}	
	Default:	< All location values applicable to the specified condition type >
	Addressing:	None
	Description:	Location, specifies the monitoring location of the condition type to be retrieved. Values are:
	FEND	Far-End, events occurring at a distant network element.
DIRN	NEND	Near-End, events occurring at the system.
	Restrictions:	RTRV-ATTR-OC3 is denied if the specified LOCN value is not supported for the specified CONDTYPE value (e.g., CONDTYPE of RFI and LOCN of NEND is entered).
	{NA, RCV, TRMT}	
	Default:	< All applicable directions >
	Addressing:	None
TMPER	Description:	Direction, specifies the direction of the condition type being monitored. The value for DIRN is verified, but does not affect the function of the RTRV-ATTR-OC3 command.
	NA	Not Applicable
	RCV	Receive side
	TRMT	Transmit direction
	{15-MIN, 1-DAY}	
SRVEFF	Default:	{15-MIN}
	Addressing:	None
	Description:	Time Period. The value for TMPER is verified, but does not affect the function of the RTRV-ATTR-OC3 command.
	{NSA, SA}	
	Default:	< Both service effect values >
	Addressing:	None
	Description:	Service Effect, specifies the service effect of the condition type to be retrieved. Values are:
	NSA	Non-Service Affecting
	SA	Service Affecting

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  ["<AID>,OC3:<NTFCNCDE>,<CONDTYPE>,<LOCN>,,<SRVEFF>"]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

OUTPUT PARAMETERS

AID	OC3_AID:	
	{OC3-{1-2240}}	(OC3-OC3#)
	OC3 AID, identifies the OC-3 port.	
NTFCNCDE	{CR, MJ, MN, NA, NR}	
	Notification Code, identifies the notification code of the condition type and service effect being retrieved. Values are:	
	CR	Critical Alarm
	MJ	Major Alarm
	MN	Minor Alarm
	NA	Not Alarmed
	NR	Not Reported

CONDTYPE	NEAR-END_CONDDTYPE:{ACTLPBK, AIS, DUPTARPENRY, EBER, ESW, FRCDWKSWBK, FRCDWKSWPR, INHPMREPT, L2LCONFAIL, L2SCONFAIL, LDCCDLFL, LOCKOUTOFPR, LOF, LOS, MAN, MANWKSWBK, MANWKSWPR, SDBER, SDCCDLFL, WTR}, FAR-END_CONDDTYPE:{RFI} Condition Type, specifies the condition type to be retrieved. (Refer to Appendix C for a list of all condition types.) Values are:	
	ACTLPBK	Active Loopback, the OC-3 port is in loopback.
	AIS	Alarm Indication Signal, AIS detected.
	DUPTARPENRY	Duplicate TARP adjacency table. (Near-End only.)
	EBER	Excessive Bit Error Rate detected.
	ESW	Excessive Switching, lockout of automatic revertive (OC-3) switching due to excessive switching.
	FRCDWKSWBK	Forced Working Switched Back, working facility was manually force switched from protection to the main facili- ty.
	FRCDWKSWPR	Forced Working Switched to Protection, working facility was manually force switched to the protection facility.
	INHPMREPT	Inhibit Performance Monitoring Report, PM report capabil- ity Inhibited.
	L2LCONFAIL	Layer 2 Line DCC Connection Failure.
	L2SCONFAIL	Layer 2 Section DCC Connection Failure.
	LDCCDLFL	Line DCC Data Link Failure.
	LOCKOUTOFPR	LockOut Of Protection facility.
	LOF	Loss Of Frame detected.
	LOS	Loss Of Signal detected.
	MAN	Manual removal (logical removal was performed on the fa- cility).
	MANWKSWBK	Manual Working Switched Back, working facility was manually switched from protection to the main facility.
	MANWKSWPR	Manual Working Switched to Protection, working facility was manually switched to the protection facility.
	RFI	Remote Failure Indication detected.
	SDBER	Signal Degrade Bit Error Rate detected.
	SDCCDLFL	Section DCC Data Link Failure.
	WTR	Wait To Restore of protection facility.
LOCN	{FEND, NEND} Location, identifies the location where the condition type is monitored. Values are:	
	FEND	Far-End, events occurring at a distant network element.
	NEND	Near-End, events occurring at the system.
SRVEFF	{NSA, SA} Service Effect, identifies the service effect of the condition type and notification code be- ing retrieved. Values are:	
	NSA	Non-Service Affecting
	SA	Service Affecting

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent /* Condition type is not consistent with <FACILITY TYPE STRING>. */ /* Location is not consistent with <FACILITY TYPE STRING> <CONDITION TYPE STRING>. */
IDNV	Input, Data Not Valid /* Invalid notification code specified: <NOTIFICATION CODE STRING>. */ /* Invalid service effect specified: <SERVICE EFFECT STRING>. */ /* Invalid location specified: <LOCATION STRING>. */ /* Invalid condition type specified: <CONDITION TYPE STRING>. */
IIAC	Input, Invalid ACcess identifier /* Invalid Access ID specified. */ /* This command does not support keyword ALL for AID. */
SDBE	Status, internal Data Base Error /* Error <ERROR NUMBER> reading record from <FILENAME>. */
SROF	Status, Requested Operation Failed /* Failed to convert tp id <TP ID NUMBER> to AID string. */ /* Cannot open <FILENAME>. */ /* rpt_file error – <ERRNO>, status = <STATUS>. */ /* nrl_rpt_print error – no transaction, msgtype = <MSGTYPE>. */ /* rpt_print error – <ERRNO>, status = <STATUS>. */

EXAMPLES

In the following example, the notification code attribute for the far-end, non-service affecting RFI condition type for OC-3 ports OC3-339 through OC3-340 is retrieved.

```
RTRV-ATTR-OC3::OC3-339&&-340::: , ISD , , , NSA;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71080. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P71080 COMPLD
"OC3-339,OC3:NA,RFI,FEND,, ,NSA"
"OC3-340,OC3:NA,RFI,FEND,, ,NSA"
/* RTRV-ATTR-OC3::OC3-339&&-340::: , ISD , , , NSA [P71080] (1) */
;
```

In the following example, all condition type attributes for OC3 port OC3-345 are retrieved.

```
RTRV-ATTR-OC3::OC3-345;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of P71085. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P71085 COMPLD
"OC3-345,OC3:NA,ACTLPBK,NEND,,NSA"
"OC3-345,OC3:MN,AIS,NEND,,SA"
"OC3-345,OC3:MN,AIS,NEND,,NSA"
"OC3-345,OC3:MJ,EBER,NEND,,SA"
"OC3-345,OC3:MN,EBER,NEND,,NSA"
"OC3-345,OC3:MN,ESW,NEND,,NSA"
"OC3-345,OC3:MN,FRCDWKSWBK,NEND,,NSA"
"OC3-345,OC3:NR,INHMPREPT,NEND,,NSA"
"OC3-345,OC3:MN,LOCKOUTOFPR,NEND,,NSA"
"OC3-345,OC3:CR,LOF,NEND,,SA"
"OC3-345,OC3:MN,LOF,NEND,,NSA"
"OC3-345,OC3:CR,LOS,NEND,,SA"
"OC3-345,OC3:MN,LOS,NEND,,NSA"
"OC3-345,OC3:MJ,MAN,NEND,,SA"
"OC3-345,OC3:MN,MAN,NEND,,NSA"
"OC3-345,OC3:NA,MANWKSWBK,NEND,,NSA"
"OC3-345,OC3:NA,MANWKSWPR,NEND,,NSA"
"OC3-345,OC3:NA,RFI,FEND,,NSA"
"OC3-345,OC3:MJ,SDBER,NEND,,SA"
"OC3-345,OC3:MN,SDBER,NEND,,NSA"
/* RTRV-ATTR-OC3::OC3-345 [P71085] (2) */
;
```

RELATED COMMANDS

```
RTRV-ALM-ALL
RTRV-ALM-OC3
RTRV-COND-ALL
RTRV-COND-OC3
RTRV-DFLTATTR-OC3
SET-ATTR-OC3
SET-DFLTATTR-OC3
```

RELATED AUTONOMOUS RESPONSES

```
REPT^ALM^OC3
REPT^EVT^OC3
```

COMMAND CODE: **RTRV-ATTR-STS1**
COMMAND NAME: **RETRIEVE ATTRIBUTE STS-1**

PURPOSE

The RTRV-ATTR-STS1 command retrieves the provisioned condition type attributes (notification code and service effect) for the specified STS-1 port. The CONDTYPE, NTFNCNDE, LOCN, and SRVEFF input parameters provide a search-key filter for retrieving condition type attributes satisfying the specified input parameters. The command is completed regardless of whether the STS-1 port is provisioned.

The successful response for a RTRV-ATTR-STS1 command contains one line of parsable output data, in alphabetical order, for each condition type being reported per specified AID. If both service effect attributes are requested, a separate line of output data is provided for service affecting attributes (if any), followed by a line for non-service affecting attributes (if any), per condition type being reported.

If there are no condition types attributes matching the specified (valid) combination of AID, condition type, notification code, location, and service effect, then the command is completed with no line of parsable output data provided in the response message. In addition, no line of parsable output data is provided if the specified STS-1 is embedded within a protection OC-3 or OC-12.

A RTRV-ATTR-STS1 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-ATTR-STS1 : [TID] : AID : [CTAG] : : [NTFCNCDE] , [CONDTYPE] , [LOCN] , [DIRN] ,
[TMPER] , [SRVEFF] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >		
	Default:	<SID>	
	Addressing:	None	
	Description:	Target Identifier, specifies the network node TID for the command.	
AID	STS1_AID:		
	{EC1STS1-{1-3840}}	(EC1STS1-EC1/STS1#)	
	{OC3STS1-{1-2240}-{1-3}}	(OC3STS1-OC3#-STS1#)	
	{OC12STS1-{1-560}-{1-4}-{1-3}}	(OC12STS1-OC12#-STM1#-STS1#)	
	Default:	Entry Required	
	Addressing:	&&-ranging and &-grouping	
	Description:	STS1 AID, identifies the STS-1 port.	
CTAG	< 1-6 VALID CTAG CHARACTERS >		
	Default:	< System assigned CTAG value >	
	Addressing:	None	
	Description:	Correlation Tag, associates input command with its output responses.	
NTFCNCDE	{CR, MJ, MN, NA, NR}		
	Default:	< All applicable notification codes listed above >	
	Addressing:	None	
	Description:	Notification Code, specifies the notification code of the condition type to be retrieved. Values are:	
	CR	Critical Alarm	
	MJ	Major Alarm	
	MN	Minor Alarm	
	NA	Not Alarmed	
	NR	Not Reported	

CONDTYPE	<p>NEAR-END_CONDDTYPE:{ACTLPBK, AIS, EBER, FLTESC, FRCDWKS WBK, FRCDWKS WPR, IDLE, INHPMREPT, LOP, MAN, MANWKS WBK, MANWKS WPR, PDI, SDBER, SLMF}, FAR-END_CONDDTYPE:{RFI}</p> <p>Default: < All applicable condition types listed above > Addressing: None Description: Condition Type, specifies the condition type to be retrieved. (Refer to Appendix C for a list of all condition types.) Values are:</p> <table> <tr> <td>ACTLPBK</td><td>Active Loopback, the STS-1 port is in loop back. (Near-End only.)</td></tr> <tr> <td>AIS</td><td>Alarm Indication Signal, AIS detected. (Near-End only.)</td></tr> <tr> <td>EBER</td><td>Excessive Bit Error Rate detected. (Near-End only.)</td></tr> <tr> <td>FLTESC</td><td>Facility Fault Escalation active. (Near-End only.)</td></tr> <tr> <td>FRCDWKS WBK</td><td>Forced Working Switched Back, working facility was manually force switched from protection to the main facility. (Near-End only.)</td></tr> <tr> <td>FRCDWKS WPR</td><td>Forced Working Switched to Protection, working facility was manually force switched to the protection facility. (Near-End only.)</td></tr> <tr> <td>IDLE</td><td>Idle, incoming idle detected. (Near-End only.)</td></tr> <tr> <td>INHPMREPT</td><td>Inhibit Performance Monitoring Report, PM report capability inhibited. (Near-End only.)</td></tr> <tr> <td>LOP</td><td>Loss Of Pointer detected. (Near-End only.)</td></tr> <tr> <td>MAN</td><td>Manual removal (logical removal was performed on the facility). (Near-End only.)</td></tr> <tr> <td>MANWKS WBK</td><td>Manual Working Switched Back, working facility was manually switched from protection to the main facility. (Near-End only.)</td></tr> <tr> <td>MANWKS WPR</td><td>Manual Working Switched to Protection, working facility was manually switched to the protection facility. (Near-End only.)</td></tr> <tr> <td>PDI</td><td>Incoming PDI signal detected (STS1)</td></tr> <tr> <td>RFI</td><td>Remote Failure Indication detected. (Far-End only.)</td></tr> <tr> <td>SDBER</td><td>Signal Degrade Bit Error Rate detected. (Near-End only.)</td></tr> <tr> <td>SLMF</td><td>Signal Label Match Failure detected. (Near-End only.)</td></tr> </table> <p>Restrictions: RTRV-ATTR-STS1 is denied if the specified CONDDTYPE value is not supported for the specified LOCN value (e.g., CONDDTYPE of AIS and LOCN of FEND is entered).</p>	ACTLPBK	Active Loopback, the STS-1 port is in loop back. (Near-End only.)	AIS	Alarm Indication Signal, AIS detected. (Near-End only.)	EBER	Excessive Bit Error Rate detected. (Near-End only.)	FLTESC	Facility Fault Escalation active. (Near-End only.)	FRCDWKS WBK	Forced Working Switched Back, working facility was manually force switched from protection to the main facility. (Near-End only.)	FRCDWKS WPR	Forced Working Switched to Protection, working facility was manually force switched to the protection facility. (Near-End only.)	IDLE	Idle, incoming idle detected. (Near-End only.)	INHPMREPT	Inhibit Performance Monitoring Report, PM report capability inhibited. (Near-End only.)	LOP	Loss Of Pointer detected. (Near-End only.)	MAN	Manual removal (logical removal was performed on the facility). (Near-End only.)	MANWKS WBK	Manual Working Switched Back, working facility was manually switched from protection to the main facility. (Near-End only.)	MANWKS WPR	Manual Working Switched to Protection, working facility was manually switched to the protection facility. (Near-End only.)	PDI	Incoming PDI signal detected (STS1)	RFI	Remote Failure Indication detected. (Far-End only.)	SDBER	Signal Degrade Bit Error Rate detected. (Near-End only.)	SLMF	Signal Label Match Failure detected. (Near-End only.)
ACTLPBK	Active Loopback, the STS-1 port is in loop back. (Near-End only.)																																
AIS	Alarm Indication Signal, AIS detected. (Near-End only.)																																
EBER	Excessive Bit Error Rate detected. (Near-End only.)																																
FLTESC	Facility Fault Escalation active. (Near-End only.)																																
FRCDWKS WBK	Forced Working Switched Back, working facility was manually force switched from protection to the main facility. (Near-End only.)																																
FRCDWKS WPR	Forced Working Switched to Protection, working facility was manually force switched to the protection facility. (Near-End only.)																																
IDLE	Idle, incoming idle detected. (Near-End only.)																																
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PDI	Incoming PDI signal detected (STS1)																																
RFI	Remote Failure Indication detected. (Far-End only.)																																
SDBER	Signal Degrade Bit Error Rate detected. (Near-End only.)																																
SLMF	Signal Label Match Failure detected. (Near-End only.)																																
LOCN	<p>{FEND, NEND}</p> <p>Default: < All location values applicable to the specified condition type > Addressing: None Description: Location, specifies the monitoring location of the condition type to be retrieved. Values are:</p> <table> <tr> <td>FEND</td><td>Far-End, events occurring at a distant network element.</td></tr> <tr> <td>NEND</td><td>Near-End, events occurring at the system.</td></tr> </table> <p>Restrictions: RTRV-ATTR-STS1 is denied if the specified LOCN value is not supported for the specified CONDDTYPE value (e.g., CONDDTYPE of AIS and LOCN of FEND is entered).</p>	FEND	Far-End, events occurring at a distant network element.	NEND	Near-End, events occurring at the system.																												
FEND	Far-End, events occurring at a distant network element.																																
NEND	Near-End, events occurring at the system.																																

DIRN	{NA, RCV, TRMT}	
	Default:	< All applicable directions >
	Addressing:	None
	Description:	Direction, specifies the direction of the condition type being monitored. The value for DIRN is verified, but does not affect the function of the RTRV-ATTR-STS1 command.
	NA	Not Applicable
TMPER	{15-MIN, 1-DAY}	
	Default:	{15-MIN}
	Addressing:	None
	Description:	Time Period. The value for TMPER is verified, but does not affect the function of the RTRV-ATTR-STS1 command.
	RCV	Receive side
SRVEFF	{NSA, SA}	
	Default:	< Both service effect values >
	Addressing:	None
	Description:	Service Effect, specifies the service effect of the condition type to be retrieved. Values are:
	NSA	Non-Service Affecting
	SA	Service Affecting

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  ["<AID>, STS1:<NTFCNCDE>, <CONDTYPE>, <LOCN>, [<DIRN>] , , <SRVEFF>"]
  [/ * <Command Echo> [<CTAG>] (<CID [-VCNUM] >) */]
;

```

OUTPUT PARAMETERS

AID	STS1_AID:	
	{EC1STS1-{1-3840}}	(EC1STS1-EC1/STS1#)
	{OC3STS1-{1-2240}-{1-3}}	(OC3STS1-OC3#-STS1#)
	{OC12STS1-{1-560}-{1-4}-{1-3}}	(OC12STS1-OC12#-STM1#-STS1#)
	STS1 AID, identifies the STS-1 port.	
NTFCNCDE	{CR, MJ, MN, NA, NR}	
	Notification Code, identifies the notification code of the condition type and service effect being retrieved. Values are:	
	CR	Critical Alarm
	MJ	Major Alarm
	MN	Minor Alarm
	NA	Not Alarmed
	NR	Not Reported

CONDTYPE	NEAR-END_CONDDTYPE:{ACTLPBK, AIS, EBER, FLTESC, FRCDWKSWBK, FRCDWKSWPR, IDLE, INHPMREPT, LOP, MAN, MANWKSWBK, MANWKSWPR, PDI, SDBER, SLMF}, FAR-END_CONDDTYPE:{RFI} Condition Type, identifies the condition type being retrieved. (Refer to Appendix C for a list of all condition types.) Values are:	
	ACTLPBK	Active Loopback, the STS-1 port is in loop back.
	AIS	Alarm Indication Signal, AIS detected.
	EBER	Excessive Bit Error Rate detected.
	FLTESC	Facility Fault Escalation active.
	FRCDWKSWBK	Forced Working Switched Back, working facility was manually force switched from protection to the main facility.
	FRCDWKSWPR	Forced Working Switched to Protection, working facility was manually force switched to the protection facility.
	IDLE	Idle, incoming idle detected.
	INHPMREPT	Inhibit Performance Monitoring Report, PM report capability inhibited.
	LOP	Loss Of Pointer detected.
	MAN	Manual removal (logical removal was performed on the facility).
	MANWKSWBK	Manual Working Switched Back, working facility was manually switched from protection to the main facility.
	MANWKSWPR	Manual Working Switched to Protection, working facility was manually switched to the protection facility.
	PDI	Incoming PDI signal detected (STS1)
	RFI	Remote Failure Indication detected.
	SDBER	Signal Degrade Bit Error Rate detected.
	SLMF	Signal Label Match Failure detected.
LOCN	{FEND, NEND} Location, identifies the location where the condition type is monitored. Values are:	
	FEND	Far-End, events occurring at a distant network element.
	NEND	Near-End, events occurring at the system.
DIRN	{TRMT, <NoVal>} Direction, identifies the direction of the condition type being monitored. Values are:	
	TRMT	Transmit Direction, value returned for CONDDTYPE of FLTESC.
	<NoVal>	No Value (null) returned for all conditions other than FLTESC.
SRVEFF	{NSA, SA} Service Effect, identifies the service effect of the condition type and notification code being retrieved. Values are:	
	NSA	Non-Service Affecting
	SA	Service Affecting

UNSUCCESSFUL RESPONSE FORMAT

```

M  <SID> <YY-MM-DD> <HH:MM:SS>
    <CTAG> DENY
    <ERROR CODE>
    [/* <Informational Error Description Text> */]
    [/* <Expanded Error Code Description> */]
    [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
    ;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent /* Condition type is not consistent with <FACILITY TYPE STRING>. */ /* Location is not consistent with <FACILITY TYPE STRING> <CONDITION TYPE STRING>. */
IDNV	Input, Data Not Valid /* Invalid notification code specified: <NOTIFICATION CODE STRING>. */ /* Invalid service effect specified: <SERVICE EFFECT STRING>. */ /* Invalid location specified: <LOCATION STRING>. */ /* Invalid condition type specified: <CONDITION TYPE STRING>. */
IIAC	Input, Invalid ACcess identifier /* Invalid Access ID specified. */ /* This command does not support keyword ALL for AID. */
SDBE	Status, internal Data Base Error /* Error <ERROR NUMBER> reading record from <FILENAME>. */
SROF	Status, Requested Operation Failed /* Failed to convert tp id <TP ID NUMBER> to AID string. */ /* Cannot open <FILENAME>. */ /* rpt_file error – <ERRNO>, status = <STATUS>. */ /* nrl_rpt_print error – no transaction, msgtype = <MSGTYPE>. */ /* rpt_print error – <ERRNO>, status = <STATUS>. */

EXAMPLES

In the following example, the notification code attribute for the near-end, non-service affecting IDLE condition type for STS-1 ports EC1STS1-195 through EC1STS1-196 is retrieved.

```
RTRV-ATTR-STs1::EC1STS1-195&&-196:::,IDLE,, ,NSA;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71080. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P71080 COMPLD
"EC1STS1-195,STs1:MN,IDLE,NEND,, ,NSA"
"EC1STS1-196,STs1:MN,IDLE,NEND,, ,NSA"
/* RTRV-ATTR-STs1::EC1STS1-195&&-196:::,IDLE,, ,NSA [P71080] (1) */
;
```

In the following example, all condition type attributes for STS-1 port EC1STS1-203 are retrieved.

```
RTRV-ATTR-STS1: : EC1STS1-203 ;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P12082. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P12082 COMPLD
"EC1STS1-203,STS1:NA,ACTLPBK,NEND,,,NSA"
"EC1STS1-203,STS1:MJ,AIS,NEND,,,SA"
"EC1STS1-203,STS1:MJ,AIS,NEND,,,NSA"
"EC1STS1-203,STS1:MN,EBER,NEND,,,SA"
"EC1STS1-203,STS1:NA,EBER,NEND,,,NSA"
"EC1STS1-203,STS1:NA,FLTESC,NEND,TRMT,,SA"
"EC1STS1-203,STS1:NA,FLTESC,NEND,TRMT,,NSA"
"EC1STS1-203,STS1:NR,FRCDWKSWBK,NEND,,,NSA"
"EC1STS1-203,STS1:NR,FRCDWKSWPR,NEND,,,NSA"
"EC1STS1-203,STS1:MJ,IDLE,NEND,,,SA"
"EC1STS1-203,STS1:MJ,IDLE,NEND,,,NSA"
"EC1STS1-203,STS1:NR,INHMPREPT,NEND,,,NSA"
"EC1STS1-203,STS1:MJ,LOP,NEND,,,SA"
"EC1STS1-203,STS1:MJ,LOP,NEND,,,NSA"
"EC1STS1-203,STS1:NA,MAN,NEND,,,SA"
"EC1STS1-203,STS1:NA,MAN,NEND,,,NSA"
"EC1STS1-203,STS1:NR,MANWKSWBK,NEND,,,NSA"
"EC1STS1-203,STS1:NR,MANWKSWPR,NEND,,,NSA"
"EC1STS1-203,STS1:NA,RFI,FEND,,,SA"
"EC1STS1-203,STS1:NA,RFI,FEND,,,NSA"
"EC1STS1-203,STS1:MN,SDBER,NEND,,,SA"
"EC1STS1-203,STS1:NA,SDBER,NEND,,,NSA"
"EC1STS1-203,STS1:MJ,SLMF,NEND,,,SA"
"EC1STS1-203,STS1:MJ,SLMF,NEND,,,NSA"
/* RTRV-ATTR-STS1: : EC1STS1-203 [P12082] (1) */
;
```

RELATED COMMANDS

```
RTRV-ALM-ALL
RTRV-ALM-STS1
RTRV-COND-ALL
RTRV-COND-STS1
RTRV-DFLTATTR-STS1
SET-ATTR-STS1
SET-DFLTATTR-STS1
```

RELATED AUTONOMOUS RESPONSES

```
REPT^ALM^STS1
REPT^EVT^STS1
```

COMMAND CODE: **RTRV-ATTR-STS3C**
COMMAND NAME: **RETRIEVE ATTRIBUTE STS-3C**

PURPOSE

The RTRV-ATTR-STS3C command retrieves the provisioned condition type attributes (notification code and service effect) for the specified STS-3C port. The CONDTYPE, NTFCNCDE, LOCN, and SRVEFF input parameters provide a search-key filter for retrieving condition type attributes satisfying the specified input parameters. The command is completed regardless of whether the STS-3C port is provisioned.

The successful response for a RTRV-ATTR-STS3C command contains one line of parsable output data, in alphabetical order, for each condition type being reported per specified AID. If both service effect attributes are requested, a separate line of output data is provided for service affecting attributes (if any), followed by a line for non-service affecting attributes (if any), per condition type being reported.

If there are no condition types attributes matching the specified (valid) combination of AID, condition type, notification code, location, and service effect, then the command is completed with no line of parsable output data provided in the response message. In addition, no line of parsable output data is provided if the specified STS-3C is embedded within a protection OC-3 or OC-12.

A RTRV-ATTR-STS3C command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-ATTR-STS3C: [TID] :AID: [CTAG] :: [NTFCNCDE] , [CONDTYPE] , [LOCN] , [DIRN] ,
[TMPER] , [SRVEFF] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.										
AID	STS3C_AID: {OC3STS3C-{1-2240}} (OC3STS3C-OC3#/STS3C#) {OC12STS3C-{1-560}-{1-4}} (OC12STS3C-OC12#-STM1/STS3C#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: STS3C AID, identifies the STS-3C port.										
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.										
NTFCNCDE	{CR, MJ, MN, NA, NR} Default: < All applicable notification codes listed above > Addressing: None Description: Notification Code, specifies the notification code of the condition type to be retrieved. Values are: <table><tr><td>CR</td><td>Critical Alarm</td></tr><tr><td>MJ</td><td>Major Alarm</td></tr><tr><td>MN</td><td>Minor Alarm</td></tr><tr><td>NA</td><td>Not Alarmed</td></tr><tr><td>NR</td><td>Not Reported</td></tr></table>	CR	Critical Alarm	MJ	Major Alarm	MN	Minor Alarm	NA	Not Alarmed	NR	Not Reported
CR	Critical Alarm										
MJ	Major Alarm										
MN	Minor Alarm										
NA	Not Alarmed										
NR	Not Reported										

CONDTYPE	<p>NEAR-END_CONDDTYPE:{ACTLPBK, AIS, IDLE, INHPMREPT, LOP, MAN, SLMF}, FAR-END_CONDDTYPE:{RFI}</p> <p>Default: < All applicable condition types listed above ></p> <p>Addressing: None</p> <p>Description: Condition Type, specifies the condition type to be retrieved. (Refer to Appendix C for a list of all condition types.) Values are:</p> <table> <tr> <td>ACTLPBK</td><td>Active Loopback, the STS-3C port is in loop back. (Near-End only.)</td></tr> <tr> <td>AIS</td><td>Alarm Indication Signal, AIS detected. (Near-End only.)</td></tr> <tr> <td>IDLE</td><td>Idle, incoming idle detected. (Near-End only.)</td></tr> <tr> <td>INHPMREPT</td><td>Inhibit Performance Monitoring Report, PM report capability Inhibited. (Near-End only.)</td></tr> <tr> <td>LOP</td><td>Loss Of Pointer detected. (Near-End only.)</td></tr> <tr> <td>MAN</td><td>Manual removal (logical removal was performed on the facility). (Near-End only.)</td></tr> <tr> <td>RFI</td><td>Remote Failure Indication detected. (Far-End only.)</td></tr> <tr> <td>SLMF</td><td>Signal Label Match Failure detected. (Near-End only.)</td></tr> </table> <p>Restrictions: RTRV-ATTR-STS3C is denied if the specified CONDDTYPE value is not supported for the specified LOCN value (e.g., CONDDTYPE of AIS and LOCN of FEND is entered).</p>	ACTLPBK	Active Loopback, the STS-3C port is in loop back. (Near-End only.)	AIS	Alarm Indication Signal, AIS detected. (Near-End only.)	IDLE	Idle, incoming idle detected. (Near-End only.)	INHPMREPT	Inhibit Performance Monitoring Report, PM report capability Inhibited. (Near-End only.)	LOP	Loss Of Pointer detected. (Near-End only.)	MAN	Manual removal (logical removal was performed on the facility). (Near-End only.)	RFI	Remote Failure Indication detected. (Far-End only.)	SLMF	Signal Label Match Failure detected. (Near-End only.)
ACTLPBK	Active Loopback, the STS-3C port is in loop back. (Near-End only.)																
AIS	Alarm Indication Signal, AIS detected. (Near-End only.)																
IDLE	Idle, incoming idle detected. (Near-End only.)																
INHPMREPT	Inhibit Performance Monitoring Report, PM report capability Inhibited. (Near-End only.)																
LOP	Loss Of Pointer detected. (Near-End only.)																
MAN	Manual removal (logical removal was performed on the facility). (Near-End only.)																
RFI	Remote Failure Indication detected. (Far-End only.)																
SLMF	Signal Label Match Failure detected. (Near-End only.)																
LOCN	<p>{FEND, NEND}</p> <p>Default: < All location values applicable to the specified condition type ></p> <p>Addressing: None</p> <p>Description: Location, specifies the monitoring location of the condition type to be retrieved. Values are:</p> <table> <tr> <td>FEND</td><td>Far-End, events occurring at a distant network element.</td></tr> <tr> <td>NEND</td><td>Near-End, events occurring at the system.</td></tr> </table> <p>Restrictions: RTRV-ATTR-STS3C is denied if the specified LOCN value is not supported for the specified CONDDTYPE value (e.g., CONDDTYPE of AIS and LOCN of FEND is entered).</p>	FEND	Far-End, events occurring at a distant network element.	NEND	Near-End, events occurring at the system.												
FEND	Far-End, events occurring at a distant network element.																
NEND	Near-End, events occurring at the system.																
DIRN	<p>{NA, RCV, TRMT}</p> <p>Default: {NA}</p> <p>Addressing: None</p> <p>Description: Direction, specifies the direction of the condition type being monitored. The value for DIRN is verified, but does not affect the function of the RTRV-ATTR-STS3C command.</p> <table> <tr> <td>NA</td><td>Not Applicable</td></tr> <tr> <td>RCV</td><td>Receive side</td></tr> <tr> <td>TRMT</td><td>Transmit direction</td></tr> </table>	NA	Not Applicable	RCV	Receive side	TRMT	Transmit direction										
NA	Not Applicable																
RCV	Receive side																
TRMT	Transmit direction																
TMPER	<p>{15-MIN, 1-DAY}</p> <p>Default: {15-MIN}</p> <p>Addressing: None</p> <p>Description: Time Period. The value for TMPER is verified, but does not affect the function of the RTRV-ATTR-STS3C command.</p>																
SRVEFF	<p>{NSA, SA}</p> <p>Default: < Both service effect values ></p> <p>Addressing: None</p> <p>Description: Service Effect, specifies the service effect of the condition type to be retrieved. Values are:</p> <table> <tr> <td>NSA</td><td>Non-Service Affecting</td></tr> <tr> <td>SA</td><td>Service Affecting</td></tr> </table>	NSA	Non-Service Affecting	SA	Service Affecting												
NSA	Non-Service Affecting																
SA	Service Affecting																

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  ["<AID>,STS3C:<NTFCNCDE>,<CONDTYPE>,<LOCN>,,,<SRVEFF>"]
  [/ * <Command Echo> [<CTAG>] (<CID [-VCNUM]>) */]
;

```

OUTPUT PARAMETERS

AID	STS3C_AID: {OC3STS3C-{1-2240}} (OC3STS3C-OC3#/STS3C#) {OC12STS3C-{1-560}-{1-4}} (OC12STS3C-OC12#-STM1/STS3C#) STS3C AID, identifies the STS-3C port.
NTFCNCDE	{CR, MJ, MN, NA, NR} Notification Code, identifies the notification code of the condition type and service effect being retrieved. Values are: CR Critical Alarm MJ Major Alarm MN Minor Alarm NA Not Alarmed NR Not Reported
CONDTYPE	NEAR-END_CONDTYPE:{ACTLPBK, AIS, IDLE, INHPMREPT, LOP, MAN, SLMF}, FAR-END_CONDTYPE:{RFI} Condition Type, identifies the condition type being retrieved. (Refer to Appendix C for a list of all condition types.) Values are: ACTLPBK Active Loopback, the STS-3C port is in loop back. AIS Alarm Indication Signal, AIS detected. IDLE Idle, incoming idle detected. INHPMREPT Inhibit Performance Monitoring Report, PM report capability Inhibited. LOP Loss Of Pointer detected. MAN Manual removal (logical removal was performed on the facility). RFI Remote Failure Indication detected. SLMF Signal Label Match Failure detected.
LOCN	{FEND, NEND} Location, identifies the location where the condition type is monitored. Values are: FEND Far-End, events occurring at a distant network element. NEND Near-End, events occurring at the system.
SRVEFF	{NSA, SA} Service Effect, identifies the service effect of the condition type and notification code being retrieved. Values are: NSA Non-Service Affecting SA Service Affecting

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  <SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent /* Condition type is not consistent with <FACILITY TYPE STRING>. */ /* Location is not consistent with <FACILITY TYPE STRING> <CONDITION TYPE STRING>. */
IDNV	Input, Data Not Valid /* Invalid notification code specified: <NOTIFICATION CODE STRING>. */ /* Invalid service effect specified: <SERVICE EFFECT STRING>. */ /* Invalid location specified: <LOCATION STRING>. */ /* Invalid condition type specified: <CONDITION TYPE STRING>. */
IIAC	Input, Invalid ACcess identifier /* Invalid Access ID specified. */ /* This command does not support keyword ALL for AID. */
SDBE	Status, internal Data Base Error /* Error <ERROR NUMBER> reading record from <FILENAME>. */
SROF	Status, Requested Operation Failed /* Failed to convert tp id <TP ID NUMBER> to AID string. */ /* Cannot open <FILENAME>. */ /* rpt_file error – <ERRNO>, status = <STATUS>. */ /* nrl_rpt_print error – no transaction, msgtype = <MSGTYPE>. */ /* rpt_print error – <ERRNO>, status = <STATUS>. */

EXAMPLES

In the following example, the notification code attribute for the near-end, non-service affecting IDLE condition type for STS-3C ports OC3STS3C-3 through OC3STS3C-4 is retrieved.

```
RTRV-ATTR-STS3C : OC3STS3C-3&&-4 : : , IDLE , , , NSA ;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71080. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P71080 COMPLD
"OC3STS3C-3, STS3C:NA, IDLE, NEND, , , NSA"
"OC3STS3C-4, STS3C:NA, IDLE, NEND, , , NSA"
/* RTRV-ATTR-STS3C : OC3STS3C-3&&-4 : : , IDLE , , , NSA [P71080] (1) */
;
```


In the following example, all condition type attributes for STS-3C port OC3STS3C-10 are retrieved.

```
RTRV-ATTR-STS3C: :OC3STS3C-10;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of P71085. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P71085 COMPLD
"OC3STS3C-10,STS3C:NA,AIS,NEND,,,SA"
"OC3STS3C-10,STS3C:NA,AIS,NEND,,,NSA"
"OC3STS3C-10,STS3C:NA,IDLE,NEND,,,SA"
"OC3STS3C-10,STS3C:NA,IDLE,NEND,,,NSA"
"OC3STS3C-10,STS3C:NR,INHMPREPT,NEND,,,NSA"
"OC3STS3C-10,STS3C:CR,LOP,NEND,,,SA"
"OC3STS3C-10,STS3C:MN,LOP,NEND,,,NSA"
"OC3STS3C-10,STS3C:NA,MAN,NEND,,,SA"
"OC3STS3C-10,STS3C:NA,MAN,NEND,,,NSA"
"OC3STS3C-10,STS3C:NA,RFI,FEND,,,SA"
"OC3STS3C-10,STS3C:NA,RFI,FEND,,,NSA"
"OC3STS3C-10,STS3C:NA,SLMF,NEND,,,SA"
"OC3STS3C-10,STS3C:NA,SLMF,NEND,,,NSA"
/* RTRV-ATTR-STS3C::3-10 [P71085] (2) */
;
```

RELATED COMMANDS

```
RTRV-ALM-ALL
RTRV-ALM-STS3C
RTRV-COND-ALL
RTRV-COND-STS3C
RTRV-DFLTATTR-STS3C
SET-ATTR-STS3C
SET-DFLTATTR-STS3C
```

RELATED AUTONOMOUS RESPONSES

```
REPT^ALM^STS3C
REPT^EVT^STS3C
```


COMMAND CODE: **RTRV-ATTR-T1**
COMMAND NAME: **RETRIEVE ATTRIBUTE T1**

PURPOSE

The RTRV-ATTR-T1 command retrieves the provisioned condition type attributes (notification code and service effect) for the specified DS1 or Timing Reference (TMG) port. The CONDTYPE, NTFCNCDE, LOCN, and SRVEFF input parameters provide a search-key filter for retrieving condition type attributes satisfying the specified input parameters. The command is completed regardless of whether the DS1 or TMG port is provisioned.

The successful response for a RTRV-ATTR-T1 command contains one line of parsable output data, in alphabetical order, for each condition type being reported per specified AID. If both service effect attributes are requested, a separate line of output data is provided for service affecting attributes (if any), followed by a line for non-service affecting attributes (if any), per condition type being reported.

If there are no condition type attributes matching the specified (valid) combination of AID, condition type, notification code, location, and service effect, then the command is completed with no line of parsable output data provided in the response message. In addition, no line of parsable output data is provided if the specified DS1 is embedded within a protection OC3.

A RTRV-ATTR-T1 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-ATTR-T1 : [TID] : AID : [CTAG] : : [NTFCNCDE] , [CONDTYPE] , [LOCN] , [DIRN] ,
[TMPER] , [SRVEFF] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >	
	Default:	<SID>
	Addressing:	None
	Description:	Target Identifier, specifies the network node TID for the command.
AID	DS1_AID:	
	{T1-{1-59392}}	(T1-DS1#)
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)
	{EC1T1-{1-3840}-{1-28}}	(EC1T1-EC1/STS1/DS3#-DS1#)
	{EC1T1-{1-3840}-{1-7}-{1-4}}	(EC1T1-EC1/STS1#-VTGrp#-VT1/DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-28}}	(OC3T1-OC3#-STS1/DS3#-DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3T1-OC3#-STS1#-VTGrp#-VT1/DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}	(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	(OC12T1-OC12#-STM1#-STS1#-VTGrp#-VT1/DS1#)
	TMG_AID:	
	{TMG-{0, 1}}	
	Default:	Entry Required
	Addressing:	&&-ranging and &-grouping
	Description:	DS1/TMG AID, identifies the DS1 or Timing Reference port.
	Restrictions:	RTRV-ATTR-T1 is denied if the specified AID does not support the specified CONDTYPE (e.g., DS1 AID and CONDTYPE of SYNCSEC).
CTAG	< 1-6 VALID CTAG CHARACTERS >	
	Default:	< System assigned CTAG value >
	Addressing:	None
	Description:	Correlation Tag, associates input command with its output responses.

NTFCNCDE	{CR, MJ, MN, NA, NR}
Default:	< All applicable notification codes listed above >
Addressing:	None
Description:	Notification Code, specifies the notification code of the condition type to be retrieved. Values are:
	CR Critical Alarm
	MJ Major Alarm
	MN Minor Alarm
	NA Not Alarmed
	NR Not Reported
CONDTYPE	DS1_NEAR-END_CONDTYPE:{ACTLPBK, AIS, AIS-CI, ALWCBLPBK, DS1ISD, EOC, INHPMREPT, LOF, LOS, MAN, RCVCLPBK, ROLLMON, XMTCLPBK}, DS1_FAR-END_CONDTYPE:{RAI, RAI-CI}, TMG_NEAR-END_CONDTYPE:{AIS, LOF, LOS, SLTMSIG, SYNCPRI, SYNCSEC, SYNCSTATQUAL}
Default:	< All applicable condition types listed above >
Addressing:	None
Description:	Condition Type, specifies the condition type to be retrieved. (Refer to Appendix C for a list of all condition types.) Values are:
	ACTLPBK Active Loopback, the DS1 port is in loop back. (DS1 Near-End only.)
	AIS Alarm Indication Signal, AIS detected. (DS1 or TMG Near-End only.)
	AIS-CI Alarm Indication Signal for Customer Installation, Incoming AIS detected. (DS1 Near-End)
	ALWCBLPBK Allow C-Bit Loopback. (DS1 Near-End only.)
	DS1ISD DS1 Idle Signal Detected, Incoming. (DS1 Near-End.)
	EOC Embedded Operations Channel, EOC failure detected. (DS1 Near-End only.)
	INHPMREPT Inhibit Performance Monitoring Report, PM report capability inhibited. (DS1 Near-End only.)
	LOF Loss Of Frame detected. (DS1 or TMG Near-End only.)
	LOS Loss Of Signal detected. (DS1 or TMG Near-End only.)
	MAN Manual removal (logical removal was performed on the facility). (DS1 Near-End only.)
	RAI Remote Alarm Indication detected. (DS1 Far-End only.)
	RAI-CI Remote Alarm Indication for Customer Installation detected. (DS1 Far-End only.)
	RCVCLPBK Receive (DS1) C-Bit Loopback. (DS1 Near-End only.)
	ROLLMON Roll Monitoring, receive-side RTO port being monitored for valid signal. (DS1 Near-End only.)
	SLTMSIG Slipping Timing Reference Signal detected. (TMG Near-End only.)
	SYNCPRI Primary Reference Synchronization failure. (TMG Near-End only.)
	SYNCSEC Secondary Reference Synchronization failure. (TMG Near-End only.)
	SYNCSTATQUAL Synchronization Status Quality. (TMG Near-End only.)
	XMTCLPBK Transmit (DS1) C-Bit Loopback. (DS1 Near-End only.)
Restrictions:	RTRV-ATTR-T1 is denied if the specified CONDTYPE is not supported for the specified AID (e.g., CONDTYPE of SYNCSEC and DS1 AID). RTRV-DFLTATTR-T1 is denied if the specified CONDTYPE value is not supported for the specified LOCN value (e.g., CONDTYPE of RAI and LOCN of NEND is entered).

LOCN	{FEND, NEND}
Default:	< All location values applicable to the specified condition type >
Addressing:	None
Description:	Location, specifies the monitoring location of the condition type to be retrieved. Values are:
	FEND Far-End, events occurring at a distant network element.
	NEND Near-End, events occurring at the system.
Restrictions:	RTRV-ATTR-T1 is denied if the specified LOCN value is not supported for the specified CONDTYPE value (e.g., CONDTYPE of RAI and LOCN of NEND is entered).
DIRN	{NA, RCV, TRMT}
Default:	< All applicable directions >
Addressing:	None
Description:	Direction, specifies the direction of the condition type being monitored. The value for DIRN is verified, but does not affect the function of the RTRV-ATTR-T1 command.
TMPER	{15-MIN, 1-DAY}
Default:	{15-MIN}
Addressing:	None
Description:	Time Period. The value for TMPER is verified, but does not affect the function of the RTRV-ATTR-T1 command.
SRVEFF	{NSA, SA}
Default:	< Both service effect values >
Addressing:	None
Description:	Service Effect, specifies the service effect of the condition type to be retrieved. Values are:
	NSA Non-Service Affecting
	SA Service Affecting

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  ["<AID>, T1:<NTFCNCDE>, <CONDTYPE>, <LOCN>, , , <SRVEFF>"]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

OUTPUT PARAMETERS

AID	DS1_AID:	
	{T1-{1-59392}}	(T1-DS1#)
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)
	{EC1T1-{1-3840}-{1-28}}	(EC1T1-EC1/STS1/DS3#-DS1#)
	{EC1T1-{1-3840}-{1-7}-{1-4}}	(EC1T1-EC1/STS1#-VTGrp#-VT1/DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-28}}	(OC3T1-OC3#-STS1/DS3#-DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3T1-OC3#-STS1#-VTGrp#-VT1/DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}	(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	
	(OC12T1-OC12#-STM1#-STS1#-VTGrp#-VT1/DS1#)	
	TMG_AID:	
	{TMG-{0, 1}}	
	DS1/TMG AID, identifies the DS1 or Timing Reference port.	

NTFCNCDE	{CR, MJ, MN, NA, NR} Notification Code, identifies the notification code of the condition type and service effect being retrieved. Values are: <table> <tr> <td>CR</td><td>Critical Alarm</td></tr> <tr> <td>MJ</td><td>Major Alarm</td></tr> <tr> <td>MN</td><td>Minor Alarm</td></tr> <tr> <td>NA</td><td>Not Alarmed</td></tr> <tr> <td>NR</td><td>Not Reported</td></tr> </table>	CR	Critical Alarm	MJ	Major Alarm	MN	Minor Alarm	NA	Not Alarmed	NR	Not Reported																												
CR	Critical Alarm																																						
MJ	Major Alarm																																						
MN	Minor Alarm																																						
NA	Not Alarmed																																						
NR	Not Reported																																						
CONDTYPE	DS1_NEAR-END_CONDTYPE:{ACTLPBK, AIS, AIS-CI, ALWCBLPBK, EOC, INHPMREPT, LOF, LOS, MAN, RCVCLPBK, ROLLMON, XMTCLPBK}, DS1_FAR-END_CONDTYPE:{RAI, RAI-CI}, TMG_NEAR-END_CONDTYPE:{AIS, LOF, LOS, SLTMSIG, SYNCPRI, SYNCSEC, SYNCSTATQUAL} Condition Type, identifies the condition type being retrieved. (Refer to Appendix C for a list of all condition types.) Values are: <table> <tr> <td>ACTLPBK</td><td>Active Loopback, the DS1 port is in loop back.</td></tr> <tr> <td>AIS</td><td>Alarm Indication Signal, AIS detected.</td></tr> <tr> <td>AIS-CI</td><td>Remote Alarm Indication for Customer Installation detected.</td></tr> <tr> <td>ALWCBLPBK</td><td>Allow C-Bit Loopback.</td></tr> <tr> <td>DS1ISD</td><td>DS1 Idle Signal Detected, Incoming.</td></tr> <tr> <td>EOC</td><td>Embedded Operations Channel, EOC failure detected.</td></tr> <tr> <td>INHPMREPT</td><td>Inhibit Performance Monitoring Report, PM report capability inhibited.</td></tr> <tr> <td>LOF</td><td>Loss Of Frame detected.</td></tr> <tr> <td>LOS</td><td>Loss Of Signal detected.</td></tr> <tr> <td>MAN</td><td>Manual removal (logical removal was performed on the facility).</td></tr> <tr> <td>RAI</td><td>Remote Alarm Indication detected.</td></tr> <tr> <td>RAI-CI</td><td>Remote Alarm Indication for Customer Installation detected.</td></tr> <tr> <td>RCVCLPBK</td><td>Receive (DS1) C-Bit Loopback.</td></tr> <tr> <td>ROLLMON</td><td>Roll Monitoring, receive-side RTO port being monitored for valid signal.</td></tr> <tr> <td>SLTMSIG</td><td>Slipping Timing Reference Signal detected.</td></tr> <tr> <td>SYNCPRI</td><td>Primary Reference Synchronization failure.</td></tr> <tr> <td>SYNCSEC</td><td>Secondary Reference Synchronization failure.</td></tr> <tr> <td>SYNCSTATQUAL</td><td>Synchronization Status Quality.</td></tr> <tr> <td>XMTCLPBK</td><td>Transmit (DS1) C-Bit Loopback.</td></tr> </table> <p>Restrictions: RTRV-ATTR-T1 is denied if the DS1 CI/NI Trouble Sectionalization Premium Feature Option (PFO) is not enabled and an input value of AIS-CI, DS1ISD or RAI-CI is entered.</p>	ACTLPBK	Active Loopback, the DS1 port is in loop back.	AIS	Alarm Indication Signal, AIS detected.	AIS-CI	Remote Alarm Indication for Customer Installation detected.	ALWCBLPBK	Allow C-Bit Loopback.	DS1ISD	DS1 Idle Signal Detected, Incoming.	EOC	Embedded Operations Channel, EOC failure detected.	INHPMREPT	Inhibit Performance Monitoring Report, PM report capability inhibited.	LOF	Loss Of Frame detected.	LOS	Loss Of Signal detected.	MAN	Manual removal (logical removal was performed on the facility).	RAI	Remote Alarm Indication detected.	RAI-CI	Remote Alarm Indication for Customer Installation detected.	RCVCLPBK	Receive (DS1) C-Bit Loopback.	ROLLMON	Roll Monitoring, receive-side RTO port being monitored for valid signal.	SLTMSIG	Slipping Timing Reference Signal detected.	SYNCPRI	Primary Reference Synchronization failure.	SYNCSEC	Secondary Reference Synchronization failure.	SYNCSTATQUAL	Synchronization Status Quality.	XMTCLPBK	Transmit (DS1) C-Bit Loopback.
ACTLPBK	Active Loopback, the DS1 port is in loop back.																																						
AIS	Alarm Indication Signal, AIS detected.																																						
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ALWCBLPBK	Allow C-Bit Loopback.																																						
DS1ISD	DS1 Idle Signal Detected, Incoming.																																						
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LOCN	{FEND, NEND} Location, identifies the location where the condition type is monitored. Values are: <table> <tr> <td>FEND</td><td>Far-End, events occurring at a distant network element.</td></tr> <tr> <td>NEND</td><td>Near-End, events occurring at the system.</td></tr> </table>	FEND	Far-End, events occurring at a distant network element.	NEND	Near-End, events occurring at the system.																																		
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SRVEFF	{NSA, SA} Service Effect, identifies the service effect of the condition type and notification code being retrieved. Values are: <table> <tr> <td>NSA</td><td>Non-Service Affecting</td></tr> <tr> <td>SA</td><td>Service Affecting</td></tr> </table>	NSA	Non-Service Affecting	SA	Service Affecting																																		
NSA	Non-Service Affecting																																						
SA	Service Affecting																																						

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

EFON	Equipage, Feature Option Not provided
IDNC	Input, Data Not Consistent /* Condition type is not consistent with <FACILITY TYPE STRING>. */ /* Location is not consistent with <FACILITY TYPE STRING> <CONDITION TYPE STRING>. */
IDNV	Input, Data Not Valid /* Invalid notification code specified: <NOTIFICATION CODE STRING>. */ /* Invalid service effect specified: <SERVICE EFFECT STRING>. */ /* Invalid location specified: <LOCATION STRING>. */ /* Invalid condition type specified: <CONDITION TYPE STRING>. */
IIAC	Input, Invalid ACcess identifier /* Invalid Access ID specified. */ /* This command does not support keyword ALL for AID. */
SDBE	Status, internal Data Base Error /* Error <Error Number> reading record from <File Name>. */
SROF	Status, Requested Operation Failed /* Failed to convert tp id <TP ID NUMBER> to AID string. */ /* Unable to determine supporting facility entity. */ /* Cannot open <FILENAME>. */ /* rpt_file error – <ERRNO>, status = <STATUS>. */ /* nrl_rpt_print error – no transaction, msgtype = <MSGTYPE>. */ /* rpt_print error – <ERRNO>, status = <STATUS>. */

EXAMPLES

In the following example, the notification code for the non-service affecting MAN condition type for DS1 ports T3T1-1297-4 through T3T1-1297-5 is retrieved.

```
RTRV-ATTR-T1::T3T1-1297-4&&-5:::,MAN,, ,NSA;
```

The output responses, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71061. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```

<SID> <YY-MM-DD> <HH:MM:SS>
M P71061 COMPLD
  "T3T1-1297-4,T1:NA,MAN,NEND,, ,NSA"
  "T3T1-1297-5,T1:NA,MAN,NEND,, ,NSA"
  /* RTRV-ATTR-T1::T3T1-1297-4&&-5:::,MAN,,,NSA [P71061] (1) */
;

```

In the following example, all condition type attributes for DS1 port T3T1-1297-10 are retrieved.

```
RTRV-ATTR-T1::T3T1-1297-10;
```

The output responses, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of P71068. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P71068 COMPLD
  "T3T1-1297-10,T1:NA,ACTLPBK,NEND,,NSA"
  "T3T1-1297-10,T1:NA,AIS,NEND,,SA"
  "T3T1-1297-10,T1:NR,AIS,NEND,,NSA"
  "T3T1-1297-10,T1:NA,ALWCBLPBK,NEND,,NSA"
  "T3T1-1297-10,T1:NA,EOC,NEND,,SA"
  "T3T1-1297-10,T1:NR,EOC,NEND,,NSA"
  "T3T1-1297-10,T1:NA,INHMPREPT,NEND,,NSA"
  "T3T1-1297-10,T1:NA,LOF,NEND,,SA"
  "T3T1-1297-10,T1:NR,LOF,NEND,,NSA"
  "T3T1-1297-10,T1:NA,MAN,NEND,,SA"
  "T3T1-1297-10,T1:NA,MAN,NEND,,NSA"
  "T3T1-1297-10,T1:NR,RAI,FEND,,SA"
  "T3T1-1297-10,T1:NR,RAI,FEND,,NSA"
  "T3T1-1297-10,T1:NA,RCVCBLPBK,NEND,,NSA"
  "T3T1-1297-10,T1:NA,ROLLMON,NEND,,NSA"
  "T3T1-1297-10,T1:NA,XMTCBLPBK,NEND,,NSA"
/* RTRV-ATTR-T1::T3T1-1297-10 [P71068] (2) */
;
```

RELATED COMMANDS

```
RTRV-ALM-ALL
RTRV-ALM-T1
RTRV-COND-ALL
RTRV-COND-T1
RTRV-PFO
RTRV-DFLTATTR-T1
SET-ATTR-T1
SET-DFLTATTR-T1
```

RELATED AUTONOMOUS RESPONSES

```
REPT^ALM^T1
REPT^EVT^T1
```


COMMAND CODE: **RTRV-ATTR-T3**
COMMAND NAME: **RETRIEVE ATTRIBUTE T3**

PURPOSE

The RTRV-ATTR-T3 command retrieves the provisioned condition type attributes (notification code and service effect) for the specified DS3 port. The CONDTYPE, NTFNCNDE, LOCN, and SRVEFF input parameters provide a search-key filter for retrieving condition type attributes satisfying the specified input parameters. The command is completed regardless of whether the DS3 port is provisioned.

The successful response for a RTRV-ATTR-T3 command contains one line of parsable output data, in alphabetical order, for each condition type being reported per specified AID. If both service effect attributes are requested, a separate line of output data is provided for service affecting attributes (if any), followed by a line for non-service affecting attributes (if any), per condition type being reported.

If there are no condition types attributes matching the specified (valid) combination of AID, condition type, notification code, location, and service effect, then the command is completed with no line of parsable output data provided in the response message. In addition, no line of parsable output data is provided if the specified DS3 is embedded within a protection OC3.

A RTRV-ATTR-T3 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-ATTR-T3 : [TID] : AID : [CTAG] : : [NTFCNCDE] , [CONDTYPE] , [LOCN] , [DIRN] ,
[TMPER] , [SRVEFF] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	DS3_AID: {T3-{1-4800}} (T3-DS3#) {EC1T3-{1-3840}} (EC1T3-EC1/STS1/DS3#) {OC3T3-{1-2240}-{1-3}} (OC3T3-OC3#-STS1/DS3#) {OC12T3-{1-560}-{1-4}-{1-3}} (OC12T3-OC12#-STM1#-STS1/DS3#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: DS3 AID, identifies the DS3 port.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
NTFCNCDE	{CR, MJ, MN, NA, NR} Default: < All applicable notification codes listed above > Addressing: None Description: Notification Code, specifies the notification code of the condition type to be retrieved. Values are: CR Critical Alarm MJ Major Alarm MN Minor Alarm NA Not Alarmed NR Not Reported

CONDTYPE	<p>NEAR-END_CONDDTYPE:{1TO6LOF, 7LOF, ACTLPBK, AICMIS, AIS, FLTESC, INHPMREPT, ISD, LOF, LOS, MAN}, FAR-END_CONDDTYPE:{AIS, DS2YEL, FEACEQPT, ISD, LOF, LOS, RAI} Default: < All applicable condition types listed above > Addressing: None Description: Condition Type, specifies the condition type to be retrieved. (Refer to Appendix C for a list of all condition types.) Values are:</p> <table> <tr> <td>1TO6LOF</td><td>One To Six Loss Of Frame, Incoming LOF detected on 1 to 6 DS2s embedded in the DS3. (Near-End only.)</td></tr> <tr> <td>7LOF</td><td>Seven Loss Of Frame, Incoming LOF detected on all 7 DS2s embedded in the DS3. (Near-End only.)</td></tr> <tr> <td>ACTLPBK</td><td>Active Loopback, the DS3 port is in loop back. (Near-End only.)</td></tr> <tr> <td>AICMIS</td><td>Application Identification Channel Mismatch, AIC mismatch detected. (Near-End only.)</td></tr> <tr> <td>AIS</td><td>Alarm Indication Signal, AIS detected. (Near-End or Far-End.)</td></tr> <tr> <td>DS2YEL</td><td>DS2 Yellow (Remote Alarm Indication) detected on one of the DS2s embedded in the DS3. (Far-End only.)</td></tr> <tr> <td>FEACEQPT</td><td>Far-End Alarm & Control (FEAC) Equipment detected. (Far-End only.)</td></tr> <tr> <td>FLTESC</td><td>Facility Fault Escalation active. (Near-End only.)</td></tr> <tr> <td>INHPMREPT</td><td>Inhibit Performance Monitoring Report, PM report capability inhibited. (Near-End only.)</td></tr> <tr> <td>ISD</td><td>Idle Signal Detected. (Near-End or Far-End.)</td></tr> <tr> <td>LOF</td><td>Loss Of Frame detected. (Near-End or Far-End.)</td></tr> <tr> <td>LOS</td><td>Loss Of Signal detected. (Near-End or Far-End.)</td></tr> <tr> <td>MAN</td><td>Manual removal (logical removal was performed on the facility. (Near-End only.)</td></tr> <tr> <td>RAI</td><td>Remote Alarm Indication detected. (Far-End only.)</td></tr> </table> <p>Restrictions: RTRV-ATTR-T3 is denied if the specified CONDDTYPE value is not supported for the specified LOCN value (e.g., CONDDTYPE of 7LOF and LOCN of FEND is entered).</p>	1TO6LOF	One To Six Loss Of Frame, Incoming LOF detected on 1 to 6 DS2s embedded in the DS3. (Near-End only.)	7LOF	Seven Loss Of Frame, Incoming LOF detected on all 7 DS2s embedded in the DS3. (Near-End only.)	ACTLPBK	Active Loopback, the DS3 port is in loop back. (Near-End only.)	AICMIS	Application Identification Channel Mismatch, AIC mismatch detected. (Near-End only.)	AIS	Alarm Indication Signal, AIS detected. (Near-End or Far-End.)	DS2YEL	DS2 Yellow (Remote Alarm Indication) detected on one of the DS2s embedded in the DS3. (Far-End only.)	FEACEQPT	Far-End Alarm & Control (FEAC) Equipment detected. (Far-End only.)	FLTESC	Facility Fault Escalation active. (Near-End only.)	INHPMREPT	Inhibit Performance Monitoring Report, PM report capability inhibited. (Near-End only.)	ISD	Idle Signal Detected. (Near-End or Far-End.)	LOF	Loss Of Frame detected. (Near-End or Far-End.)	LOS	Loss Of Signal detected. (Near-End or Far-End.)	MAN	Manual removal (logical removal was performed on the facility. (Near-End only.)	RAI	Remote Alarm Indication detected. (Far-End only.)
1TO6LOF	One To Six Loss Of Frame, Incoming LOF detected on 1 to 6 DS2s embedded in the DS3. (Near-End only.)																												
7LOF	Seven Loss Of Frame, Incoming LOF detected on all 7 DS2s embedded in the DS3. (Near-End only.)																												
ACTLPBK	Active Loopback, the DS3 port is in loop back. (Near-End only.)																												
AICMIS	Application Identification Channel Mismatch, AIC mismatch detected. (Near-End only.)																												
AIS	Alarm Indication Signal, AIS detected. (Near-End or Far-End.)																												
DS2YEL	DS2 Yellow (Remote Alarm Indication) detected on one of the DS2s embedded in the DS3. (Far-End only.)																												
FEACEQPT	Far-End Alarm & Control (FEAC) Equipment detected. (Far-End only.)																												
FLTESC	Facility Fault Escalation active. (Near-End only.)																												
INHPMREPT	Inhibit Performance Monitoring Report, PM report capability inhibited. (Near-End only.)																												
ISD	Idle Signal Detected. (Near-End or Far-End.)																												
LOF	Loss Of Frame detected. (Near-End or Far-End.)																												
LOS	Loss Of Signal detected. (Near-End or Far-End.)																												
MAN	Manual removal (logical removal was performed on the facility. (Near-End only.)																												
RAI	Remote Alarm Indication detected. (Far-End only.)																												
LOCN	<p>{FEND, NEND} Default: < All location values applicable to the specified condition type > Addressing: None Description: Location, specifies the monitoring location of the condition type to be retrieved. Values are:</p> <table> <tr> <td>FEND</td><td>Far-End, events occurring at a distant network element.</td></tr> <tr> <td>NEND</td><td>Near-End, events occurring at the system.</td></tr> </table> <p>Restrictions: RTRV-ATTR-T3 is denied if the specified LOCN value is not supported for the specified CONDDTYPE value (e.g., CONDDTYPE of 7LOF and LOCN of FEND is entered).</p>	FEND	Far-End, events occurring at a distant network element.	NEND	Near-End, events occurring at the system.																								
FEND	Far-End, events occurring at a distant network element.																												
NEND	Near-End, events occurring at the system.																												
DIRN	<p>{NA, RCV, TRMT} Default: < All applicable directions > Addressing: None Description: Direction, specifies the direction of the condition type being monitored. The value for DIRN is verified, but does not affect the function of the RTRV-ATTR-T3 command.</p> <table> <tr> <td>NA</td><td>Not Applicable</td></tr> <tr> <td>RCV</td><td>Receive side</td></tr> <tr> <td>TRMT</td><td>Transmit direction</td></tr> </table>	NA	Not Applicable	RCV	Receive side	TRMT	Transmit direction																						
NA	Not Applicable																												
RCV	Receive side																												
TRMT	Transmit direction																												

TMPER	{15-MIN, 1-DAY}
Default:	{15-MIN}
Addressing:	None
Description:	Time Period. The value for TMPER is verified, but does not affect the function of the RTRV-ATTR-T3 command.
SRVEFF	{NSA, SA}
Default:	< Both service effect values >
Addressing:	None
Description:	Service Effect, specifies the service effect of the condition type to be retrieved. Values are:
	NSA Non-Service Affecting
	SA Service Affecting

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  ["<AID>, T3 : <NTFCNCDE>, <CONDTYPE>, <LOCN>, [<DIRN>] , , <SRVEFF>"]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

OUTPUT PARAMETERS

AID	DS3_AID:	
	{T3-{1-4800}}	(T3-DS3#)
	{EC1T3-{1-3840}}	(EC1T3-EC1/STS1/DS3#)
	{OC3T3-{1-2240}-{1-3}}	(OC3T3-OC3#-STS1/DS3#)
	{OC12T3-{1-560}-{1-4}-{1-3}}	(OC12T3-OC12#-STM1#-STS1/DS3#)
	DS3 AID, identifies the DS3 port.	
NTFCNCDE	{CR, MJ, MN, NA, NR}	
	Notification Code, identifies the notification code of the condition type and service effect being retrieved. Values are:	
	CR	Critical Alarm
	MJ	Major Alarm
	MN	Minor Alarm
	NA	Not Alarmed
	NR	Not Reported

CONDTYPE	NEAR-END_CONDDTYPE:{1TO6LOF, 7LOF, ACTLPBK, AICMIS, AIS, FLTESC, INHPMREPT, ISD, LOF, LOS, MAN}, FAR-END_CONDDTYPE:{AIS, DS2YEL, FEACEQPT, ISD, LOF, LOS, RAI} Condition Type, identifies the condition type being retrieved. (Refer to Appendix C for a list of all condition types.) Values are:	
	1TO6LOF	One To Six Loss Of Frame, Incoming LOF detected on 1 to 6 DS2s embedded in the DS3.
	7LOF	Seven Loss Of Frame, Incoming LOF detected on all 7 DS2s embedded in the DS3.
	ACTLPBK	Active Loopback, the DS3 port is in loop back.
	AICMIS	Application Identification Channel Mismatch, AIC mismatch detected.
	AIS	Alarm Indication Signal, AIS detected.
	DS2YEL	DS2 Yellow (Remote Alarm Indication) detected on one of the DS2s embedded in the DS3.
	FEACEQPT	Far-End Alarm & Control (FEAC) Equipment detected.
	FLTESC	Facility Fault Escalation active.
	INHPMREPT	Inhibit Performance Monitoring Report, PM report capability inhibited.
	ISD	Idle Signal Detected.
	LOF	Loss Of Frame detected.
	LOS	Loss Of Signal detected.
	MAN	Manual removal (logical removal was performed on the facility).
	RAI	Remote Alarm Indication detected.
LOCN	{FEND, NEND} Location, identifies the location where the condition type is monitored. Values are:	
	FEND	Far-End, events occurring at a distant network element.
	NEND	Near-End, events occurring at the system.
DIRN	{TRMT, <NoVal>} Direction, identifies the direction of the condition type being monitored. Values are:	
	TRMT	Transmit Direction, value returned for CONDDTYPE of FLTESC.
	<NoVal>	No Value (null) returned for all conditions other than FLTESC.
SRVEFF	{NSA, SA} Service Effect, identifies the service effect of the condition type and notification code being retrieved. Values are:	
	NSA	Non-Service Affecting
	SA	Service Affecting

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent /* Condition type is not consistent with <FACILITY TYPE STRING>. */ /* Location is not consistent with <FACILITY TYPE STRING> <CONDITION TYPE STRING>. */
IDNV	Input, Data Not Valid /* Invalid notification code specified: <NOTIFICATION CODE STRING>. */ /* Invalid service effect specified: <SERVICE EFFECT STRING>. */ /* Invalid location specified: <LOCATION STRING>. */ /* Invalid condition type specified: <CONDITION TYPE STRING>. */
IIAC	Input, Invalid ACcess identifier /* Invalid Access ID specified. */ /* This command does not support keyword ALL for AID. */
SDBE	Status, internal Data Base Error /* Error <ERROR NUMBER> reading record from <FILENAME>. */
SROF	Status, Requested Operation Failed /* Failed to convert tp id <TP ID NUMBER> to AID string. */ /* Unable to determine supporting facility entity. */ /* Cannot open <FILENAME>. */ /* rpt_file error – <ERRNO>, status = <STATUS>. */ /* nrl_rpt_print error – no transaction, msgtype = <MSGTYPE>. */ /* rpt_print error – <ERRNO>, status = <STATUS>. */

EXAMPLES

In the following example, the notification code attribute for the near-end and far-end, non-service affecting ISD condition type for DS3 ports T3-1155 through T3-1156 is retrieved.

```
RTRV-ATTR-T3::T3-1155&&-1156::, ISD, , , NSA;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71080. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P71080 COMPLD
"T3-1155,T3:MN,ISD,NEND, , ,NSA"
"T3-1155,T3:NA,ISD,FEND, , ,NSA"
"T3-1156,T3:MN,ISD,NEND, , ,NSA"
"T3-1156,T3:NA,ISD,FEND, , ,NSA"
/* RTRV-ATTR-T3::T3-1155&&-1156::,ISD, , ,NSA [P71080] (1) */
;
```

In the following example, all condition type attributes for DS3 port T3–1163 are retrieved.

```
RTRV-ATTR-T3::T3-1163;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of P71085. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P71085 COMPLD
  "T3-1163,T3:NA,1TO6LOF,NEND,,,SA"
  "T3-1163,T3:NA,1TO6LOF,NEND,,,NSA"
  "T3-1163,T3:MJ,7LOF,NEND,,,SA"
  "T3-1163,T3:MJ,7LOF,NEND,,,NSA"
  "T3-1163,T3:NA,ACTLPBK,NEND,,,NSA"
  "T3-1163,T3:MJ,AICMIS,NEND,,,SA"
  "T3-1163,T3:MJ,AICMIS,NEND,,,NSA"
  "T3-1163,T3:MJ,AIS,NEND,,,SA"
  "T3-1163,T3:MJ,AIS,NEND,,,NSA"
  "T3-1163,T3:NA,AIS,FEND,,,SA"
  "T3-1163,T3:NA,AIS,FEND,,,NSA"
  "T3-1163,T3:NA,FEACEQPT,FEND,,,SA"
  "T3-1163,T3:NA,FEACEQPT,FEND,,,NSA"
  "T3-1163,T3:NA,FLTESC,NEND,TRMT,,,SA"
  "T3-1163,T3:NA,FLTESC,NEND,TRMT,,,NSA"
  "T3-1163,T3:NA,INHMPREPT,NEND,,,NSA"
  "T3-1163,T3:MJ,ISD,NEND,,,SA"
  "T3-1163,T3:MN,ISD,NEND,,,NSA"
  "T3-1163,T3:NA,ISD,FEND,,,SA"
  "T3-1163,T3:NA,ISD,FEND,,,NSA"
  "T3-1163,T3:MJ,LOF,NEND,,,SA"
  "T3-1163,T3:MN,LOF,NEND,,,NSA"
  "T3-1163,T3:NA,LOF,FEND,,,SA"
  "T3-1163,T3:NA,LOF,FEND,,,NSA"
  "T3-1163,T3:MJ,LOS,NEND,,,SA"
  "T3-1163,T3:MJ,LOS,NEND,,,NSA"
  "T3-1163,T3:NA,LOS,FEND,,,SA"
  "T3-1163,T3:NA,LOS,FEND,,,NSA"
  "T3-1163,T3:NA,MAN,NEND,,,SA"
  "T3-1163,T3:NA,MAN,NEND,,,NSA"
  "T3-1163,T3:NA,RAI,FEND,,,SA"
  "T3-1163,T3:NA,RAI,FEND,,,NSA"
  "T3-1163,T3:NA,DS2YEL,FEND,,,SA"
  "T3-1163,T3:NA,DS2YEL,FEND,,,NSA"
/* RTRV-ATTR-T3::T3-1163 [P71085] (2) */
;
```

RELATED COMMANDS

```
RTRV-ALM-ALL
RTRV-ALM-T3
RTRV-COND-ALL
RTRV-COND-T3
RTRV-DFLTATTR-T3
SET-ATTR-T3
SET-DFLTATTR-T3
```

RELATED AUTONOMOUS RESPONSES

REPT^ALM^T3

REPT^EVT^T3

COMMAND CODE: **RTRV-ATTR-VT1**
COMMAND NAME: **RETRIEVE ATTRIBUTE VT1**

PURPOSE

The RTRV-ATTR-VT1 command retrieves the provisioned condition type attributes (notification code and service effect) for the specified VT1.5 port. The CONDTYPE, NTFNCNDE, LOCN, and SRVEFF input parameters provide a search-key filter for retrieving condition type attributes satisfying the specified input parameters. The command is completed regardless of whether the VT1.5 port is provisioned.

The successful response for a RTRV-ATTR-VT1 command contains one line of parsable output data, in alphabetical order, for each condition type being reported per specified AID. If both service effect attributes are requested, a separate line of output data is provided for service affecting attributes (if any), followed by a line for non-service affecting attributes (if any), per condition type being reported.

If there are no condition types attributes matching the specified (valid) combination of AID, condition type, notification code, location, and service effect, then the command is completed with no line of parsable output data provided in the response message. In addition, no line of parsable output data is provided if the specified VT1.5 is embedded within a protection OC3.

A RTRV-ATTR-VT1 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-ATTR-VT1 : [TID] : AID : [CTAG] : : [NTFCNCDE] , [CONDTYPE] , [LOCN] , [DIRN] ,
[TMPER] , [SRVEFF] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.										
AID	VT1_AID: {EC1VT1-{1-3840}-{1-7}-{1-4}} (EC1VT1-EC1/STS1#-VTGrp#-VT1.5#) {OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}} (OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#) {OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}} (OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: VT1 AID, identifies the VT1.5 port.										
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.										
NTFCNCDE	{CR, MJ, MN, NA, NR} Default: < All applicable notification codes listed above > Addressing: None Description: Notification Code, specifies the notification code of the condition type to be retrieved. Values are: <table><tr><td>CR</td><td>Critical Alarm</td></tr><tr><td>MJ</td><td>Major Alarm</td></tr><tr><td>MN</td><td>Minor Alarm</td></tr><tr><td>NA</td><td>Not Alarmed</td></tr><tr><td>NR</td><td>Not Reported</td></tr></table>	CR	Critical Alarm	MJ	Major Alarm	MN	Minor Alarm	NA	Not Alarmed	NR	Not Reported
CR	Critical Alarm										
MJ	Major Alarm										
MN	Minor Alarm										
NA	Not Alarmed										
NR	Not Reported										

CONDTYPE	NEAR-END_CONDTYPE:{ACTLPBK, AIS, EBER, FLTESC, FRCDWKSWBK, FRCDWKSWPR, IDLE, INHPMREPT, LOP, MAN, MANWKSWBK, MANWKSWPR, ROLLMON, SDBER, SLMF}, FAR-END_CONDTYPE:{RFI}
Default:	< All applicable condition types listed above >
Addressing:	None
Description:	Condition Type, specifies the condition type to be retrieved. (Refer to Appendix C for a list of all condition types.) Values are:
ACTLPBK	Active Loopback, the VT1.5 port is in loop back. (Near-End only.)
AIS	Alarm Indication Signal, AIS detected. (Near-End only.)
EBER	Excessive Bit Error Rate detected. (Near-End only.)
FLTESC	Facility Fault Escalation active. (Near-End only.)
FRCDWKSWBK	Forced Working Switched Back, working facility was manually force switched from protection to the main facility. (Near-End only.)
FRCDWKSWPR	Forced Working Switched to Protection, working facility was manually force switched to the protection facility. (Near-End only.)
IDLE	Idle, incoming idle detected. (Near-End only.)
INHPMREPT	Inhibit Performance Monitoring Report, PM report capability inhibited. (Near-End only.)
LOP	Loss Of Pointer detected. (Near-End only.)
MAN	Manual removal (logical removal was performed on the facility). (Near-End only.)
MANWKSWBK	Manual Working Switched Back, working facility was manually switched from protection to the main facility. (Near-End only.)
MANWKSWPR	Manual Working Switched to Protection, working facility was manually switched to the protection facility. (Near-End only.)
RFI	Remote Failure Indication detected. (Far-End only.)
ROLLMON	Roll Monitoring, receive-side RTO port being monitored for valid signal. (Near-End only.)
SDBER	Signal Degrade Bit Error Rate detected. (Near-End only.)
SLMF	Signal Label Match Failure detected. (Near-End only.)
Restrictions:	RTRV-ATTR-VT1 is denied if the specified CONDTYPE value is not supported for the specified LOCN value (e.g., CONDTYPE of AIS and LOCN of FEND is entered).
LOCN	{FEND, NEND}
Default:	< All location values applicable to the specified condition type >
Addressing:	None
Description:	Location, specifies the monitoring location of the condition type to be retrieved. Values are:
FEND	Far-End, events occurring at a distant network element.
NEND	Near-End, events occurring at the system.
Restrictions:	RTRV-ATTR-VT1 is denied if the specified LOCN value is not supported for the specified CONDTYPE value (e.g., CONDTYPE of AIS and LOCN of FEND is entered).

DIRN	{NA, RCV, TRMT}	
	Default:	< All applicable directions >
	Addressing:	None
	Description:	Direction, specifies the direction of the condition type being monitored. The value for DIRN is verified, but does not affect the function of the RTRV-ATTR-VT1 command.
	NA	Not Applicable
TMPER	{15-MIN, 1-DAY}	
	Default:	{15-MIN}
	Addressing:	None
	Description:	Time Period. The value for TMPER is verified, but does not affect the function of the RTRV-ATTR-VT1 command.
	RCV	Receive side
SRVEFF	{NSA, SA}	
	Default:	< Both service effect values >
	Addressing:	None
	Description:	Service Effect, specifies the service effect of the condition type to be retrieved. Values are:
	NSA	Non-Service Affecting
	SA	Service Affecting

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  ["<AID>, VT1 : <NTFCNCDE>, <CONDTYPE>, <LOCN>, [<DIRN>] , , <SRVEFF>"]
  [/ * <Command Echo> [<CTAG>] (<CID [-VCNUM] >) */]
;

```

OUTPUT PARAMETERS

AID	VT1_AID:	
	{EC1VT1-{1-3840}-{1-7}-{1-4}}	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)
	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)
	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	
	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)	
NTFCNCDE	VT1 AID, identifies the VT1.5 port.	
	{CR, MJ, MN, NA, NR}	
	Notification Code, identifies the notification code of the condition type and service effect being retrieved. Values are:	
	CR	Critical Alarm
	MJ	Major Alarm
	MN	Minor Alarm
	NA	Not Alarmed
	NR	Not Reported

CONDTYPE	NEAR-END_CONDDTYPE:{ACTLPBK, AIS, EBER, FLTESC, FRCDWKSWBK, FRCDWKSWPR, IDLE, INHPMREPT, LOP, MAN, MANWKSWBK, MANWKSWPR, ROLLMON, SDBER, SLMF}, FAR-END_CONDDTYPE:{RFI} Condition Type, identifies the condition type being retrieved. (Refer to Appendix C for a list of all condition types.) Values are:	
	ACTLPBK	Active Loopback, the VT1.5 port is in loop back.
	AIS	Alarm Indication Signal, AIS detected.
	EBER	Excessive Bit Error Rate detected.
	FLTESC	Facility Fault Escalation active.
	FRCDWKSWBK	Forced Working Switched Back, working facility was manually force switched from protection to the main facility.
	FRCDWKSWPR	Forced Working Switched to Protection, working facility was manually force switched to the protection facility.
	IDLE	Idle, incoming idle detected.
	INHPMREPT	Inhibit Performance Monitoring Report, PM report capability inhibited.
	LOP	Loss Of Pointer detected.
	MAN	Manual removal (logical removal was performed on the facility).
	MANWKSWBK	Manual Working Switched Back, working facility was manually switched from protection to the main facility.
	MANWKSWPR	Manual Working Switched to Protection, working facility was manually switched to the protection facility.
	RFI	Remote Failure Indication detected.
	ROLLMON	Roll Monitoring, receive-side RTO port being monitored for valid signal.
	SDBER	Signal Degrade Bit Error Rate detected.
	SLMF	Signal Label Match Failure detected.
LOCN	{FEND, NEND} Location, identifies the location where the condition type is monitored. Values are:	
	FEND	Far-End, events occurring at a distant network element.
	NEND	Near-End, events occurring at the system.
DIRN	{TRMT, <NoVal>} Direction, identifies the direction of the condition type being monitored. Values are:	
	TRMT	Transmit Direction, value returned for CONDDTYPE of FLTESC.
	<NoVal>	No Value (null) returned for all conditions other than FLTESC.
SRVEFF	{NSA, SA} Service Effect, identifies the service effect of the condition type and notification code being retrieved. Values are:	
	NSA	Non-Service Affecting
	SA	Service Affecting

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent /* Condition type is not consistent with <FACILITY TYPE STRING>. */ /* Location is not consistent with <FACILITY TYPE STRING> <CONDITION TYPE STRING>. */
IDNV	Input, Data Not Valid /* Invalid notification code specified: <NOTIFICATION CODE STRING>. */ /* Invalid service effect specified: <SERVICE EFFECT STRING>. */ /* Invalid location specified: <LOCATION STRING>. */ /* Invalid condition type specified: <CONDITION TYPE STRING>. */
IIAC	Input, Invalid ACcess identifier /* Invalid Access ID specified. */ /* This command does not support keyword ALL for AID. */
SDBE	Status, internal Data Base Error /* Error <ERROR NUMBER> reading record from <FILENAME>. */
SROF	Status, Requested Operation Failed /* Failed to convert tp id <TP ID NUMBER> to AID string. */ /* Cannot open <FILENAME>. */ /* rpt_file error – <ERRNO>, status = <STATUS>. */ /* nrl_rpt_print error – no transaction, msgtype = <MSGTYPE>. */ /* rpt_print error – <ERRNO>, status = <STATUS>. */

EXAMPLES

In the following example, the notification code attribute for the near-end, non-service affecting IDLE condition type for VT1.5 ports EC1VT1-195-2-3 through EC1VT1-195-2-4 is retrieved.

```
RTRV-ATTR-VT1: : EC1VT1-195-2-3&&-4: : , IDLE, , , NSA;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71080. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P71080 COMPLD
"EC1VT1-195-2-3, VT1:NA, IDLE, NEND, , , NSA"
"EC1VT1-195-2-4, VT1:NA, IDLE, NEND, , , NSA"
/* RTRV-ATTR-VT1: : EC1VT1-195-2-3&&-4: : , IDLE, , , NSA [P71080] (1) */
;
```

In the following example, all condition type attributes for VT1.5 port EC1VT1-203-7-4 are retrieved.

```
RTRV-ATTR-VT1::EC1VT1-203-7-4;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P12083. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P12083 COMPLD
"EC1VT1-203-7-4,VT1:NA,ACTLPBK,NEND,,,NSA"
"EC1VT1-203-7-4,VT1:NR,AIS,NEND,,,SA"
"EC1VT1-203-7-4,VT1:NR,AIS,NEND,,,NSA"
"EC1VT1-203-7-4,VT1:MN,EBER,NEND,,,SA"
"EC1VT1-203-7-4,VT1:NA,EBER,NEND,,,NSA"
"EC1VT1-203-7-4,VT1:NA,FLTESC,NEND,TRMT,,SA"
"EC1VT1-203-7-4,VT1:NA,FLTESC,NEND,TRMT,,NSA"
"EC1VT1-203-7-4,VT1:NR,FRCDWKS WBK,NEND,,,NSA"
"EC1VT1-203-7-4,VT1:NR,FRCDWKS WPR,NEND,,,NSA"
"EC1VT1-203-7-4,VT1:NR,IDLE,NEND,,,SA"
"EC1VT1-203-7-4,VT1:NR,IDLE,NEND,,,NSA"
"EC1VT1-203-7-4,VT1:NR,INHMPREPT,NEND,,,NSA"
"EC1VT1-203-7-4,VT1:NR,LOP,NEND,,,SA"
"EC1VT1-203-7-4,VT1:NR,LOP,NEND,,,NSA"
"EC1VT1-203-7-4,VT1:NA,MAN,NEND,,,SA"
"EC1VT1-203-7-4,VT1:NA,MAN,NEND,,,NSA"
"EC1VT1-203-7-4,VT1:NR,MANWKS WBK,NEND,,,NSA"
"EC1VT1-203-7-4,VT1:NR,MANWKS WPR,NEND,,,NSA"
"EC1VT1-203-7-4,VT1:NR,RFI,FEND,,,SA"
"EC1VT1-203-7-4,VT1:NR,RFI,FEND,,,NSA"
"EC1VT1-203-7-4,VT1:NA,ROLLMON,NEND,,,NSA"
"EC1VT1-203-7-4,VT1:MN,SDBER,NEND,,,SA"
"EC1VT1-203-7-4,VT1:NA,SDBER,NEND,,,NSA"
"EC1VT1-203-7-4,VT1:NR,SLMF,NEND,,,SA"
"EC1VT1-203-7-4,VT1:NR,SLMF,NEND,,,NSA"
/* RTRV-ATTR-VT1::EC1VT1-203-7-4 [P12083] (1) */
;
```

RELATED COMMANDS

```
RTRV-ALM-ALL
RTRV-ALM-VT1
RTRV-COND-ALL
RTRV-COND-VT1
RTRV-DFLTATTR-VT1
SET-ATTR-VT1
SET-DFLTATTR-VT1
```

RELATED AUTONOMOUS RESPONSES

```
REPT^ALM^VT1
REPT^EVT^VT1
```

COMMAND CODE: **RTRV-BUS-STATUS**
COMMAND NAME: **RETRIEVE BUS STATUS**

PURPOSE

Retrieve-Status-Bus command retrieves the status of the intra-shelf ICL, MTL, MDT, PDT, RI and PBUS communication bus to/from the SPB identified by the AID.

The successful response for a RTRV-BUS-STATUS command either displays all pertinent data about the ICL, MTL, PBUS, MDT, PDT, and RI bus or only the card error counts pertaining to them.

A RTRV-BUS-STATUS command is denied if:

- An invalid parameter value or combination of parameter values is entered.
- The standby SPB AID is entered.

INPUT FORMAT

RTRV-BUS-STATUS : [TID] : AID : [CTAG] : : [DISPTYPE] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	EQUIPMENT_AID: {SPB-{2-43, 102-111, 112-135, 136-141}-{1, 3}-{1-2}} Default: Entry Required Addressing: None Description: Equipment AID: identifies the equipment object entity.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
DISPTYPE	{ALLDATA, CNTONLY} Default: All Data Addressing: None Description: Display Type, specifies the type of data to be displayed. ALLDATA All data; specifies the entire data about the bus status is displayed. CNTONLY Count Only; specifies only the count of the bus status is displayed.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
<BUSTYPE>-<BUSNUM>:<BUSSTATUS>[ , CARDERRCNT=<CARDERRCNT>] */
[/* <CARDAID>:<CARDSTATUS>[ , ]+ */]+
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

BUSTYPE	{ICL, MTL, PBUS, MDT, PDT, RI} Bus Type, identifies the communication bus type. Values are: ICL Interface Communications Link MTL Memory Transfer Link PBUS Processor communications BUS MDT Main Data Transfer Bus PDT Protect Data Transfer Bus RI Remote Inventory bus
BUSNUM	{1–6} Bus Number, identifies the ICL, MTL, PBUS, MDT, PDT, and RI bus number. There are a maximum of two ICL, MTL, PBUS, MDT, and PDT type buses and six RI type buses.
BUSSTATUS	{OK, ERR,NAV} Bus Status, identifies the state of the ICL, MTL, PBUS, MDT, PDT, and RI bus. Values are: OK OK, no errors detected ERR Error; Errors detected NAV Not Available; no cards on the bus
CARDERRCNT	{1–18} Card Error Count, specifies the number of cards reporting errors detected on the ICL, MTL, PBUS, MDT, PDT, and/or RI bus. CARDERRCNT is only reported if BUSSTATUS= ERR.

CARDAID= EQUIPMENT_AID:
{CDA-{4, 5, 10, 11, 16, 17, 22, 23, 102, 103}-3-1}
{CDB-{5}-{1, 3}-{1, 2}}
CDB-{2-43,104-111,112-135,136-141}-{1, 3}-{1, 2}
{SI36: CDB-{6-9, 12-15, 18-21, 24-43}-{1, 3}-{1-2},
{SI48: CDB-{2-43,104-111,112-135,136-141}-{1, 3}-{1, 2}
{DSB-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{1-2}}
{EOB-{5}-{1, 3}-{1-5}}
{SI48: EOB-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{1-2},
EOC: EOB-{4-5, 10-11, 16-17, 22-23, 102, 103}-1-{1-7, 9-15}}
{SI36: EP3-{6-8, 12-14}-{1, 3}-{1-14},
EP3-9-3-{1-14},
EP3-15-1-{1-14}}
{SI48: EP3-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42,
104-106,108-110, 136-141}-{1, 3}-{1-18},
EP3-{9, 21, 35, 43, 107}-3-{1-18},
EP3-{15, 27, 31, 39, 111}-1-{1-18}}
{SI48: ES1-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42}-{1, 3}-{2-9, 11-18},
ES1-{9, 21, 35, 43}-3-{2-9, 11-18},
ES1-{15, 27, 31, 39}-1-{2-9, 11-18}}
{SI36: ES1-{6-8, 12-14}-{1, 3}-{1-14},
ES1-9-3-{1-14},
ES1-15-1-{1-14}}
{IOB-{6-8, 12-14}-{1, 3}-{1, 3, 5, 7},
IOB-9-3-{1, 3, 5, 7},
IOB-15-1-{1, 3, 5, 7}}
{IPB-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{1-2}}
{MCB-{5}-{1, 3}-{1}}
{MCB-{2,3}-3-1}
{M16-{2-5, 10-11, 16-17, 22-23}-3-{1-16}}
{M32-{4-5, 10-11, 16-17, 22-23, 102, 103}-3-{1-16},
M32-{5}-{1, 3}-{1-3, 6-8}}
{M40-{2-3}-{1, 3}-{1-16}}
{M40-{5}-{1, 3}-{4, 5, 9, 10}}
{O1B-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{2-9, 11-18}}
{O4M-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{2-3, 11-12}}
{P56 - {6-9, 12-15, 18-21, 24-43, 112-135} - {1, 3} - {1-5},
P56 - {2-3} - {1, 3} - {1-4},
P56 - {4, 5, 10, 11, 16, 17, 22, 23} - 1 - {1-5},
P56 - {2-5, 10, 11, 16, 17, 22, 23} - 3 - {1-4},
P56-{5}-{1, 3}-{1-4}}
{RPB-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{1-2}}
{S3M-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{4-9, 13-18}}
I/O Equipment Card ID specifies the equipment AID for cards on the ICL, MTL, PBUS, MDT, PDT, and/or RI bus. CARDERRCNT is only reported if DISPTYPE= ALLDATA.

CARDSTATUS {OK,ERR,NAV}

Card Status identifies the state of the cards on the ICL, MTL, PBUS, MDT, PDT and/or RI bus. Values are:

OK	OK, no errors detected
ERR	Error; Errors detected
NAV	Not Available; Module is out of service

CARDERRCNT is only reported if DISTYPE= ALLDATA.

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

ENRE	Equipment, Not Recognized Equipment /*The command was rejected */
IDNV	Input, Data Not Valid /*Invalid DISPTYPE <disptype> */ /*Unable to retrieve DISPTYPE parameter. */
IIAC	Input, Invalid ACcess identifier /*Unable to retrieve level 2 processor id. */
SARB	Status, All Resources Busy /*Command already in progress on equipment. */ /*Activity timer <timer id> active on equipment. */
SNVS	Status, Not in Valid State /*<SPB AID> not in IS state */
SROF	Status, Requested Operation Failed /*Timeout waiting for response from level two processor */
SSRE	Status, System Resources Exceeded /*Unable to allocate aux buffer for <SPB AID> */

EXAMPLES

The system response varies greatly according to the type of shelf in which the SPB card is located. In the following example, the SPB is located in S136/S148. The two examples after this illustrate responses for other SPB locations.

All data about the communication bus related to SPB-6-1-1 will be displayed.

```
RTRV-BUS-STATUS::SPB-6-1-1::ALLDATA;
```

The output response, shown below, assumes CID 3-1 was used to enter the command and that the system generated a CTAG value of P49531. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P49531 COMPLD
/* ICL-1:OK */
/* ICL-2:OK */
/* MTL-1:OK */
/* MTL-2:ERR,CARDERRCNT=3 */
/* EP3-6-1-10:OK, EP3-6-1-11:OK, EP3-6-1-12:ERR, EP3-6-1-13:ERR */
/* EP3-6-1-14:ERR, EP3-6-1-15:OK, EP3-6-1-16:OK, EP3-6-1-17:NAV */
/* EP3-6-1-18:OK
/* PBUS-1:OK */
/* PBUS-2:OK */
/* MDT-1:OK */
/* MDT-2:OK */
/* PDT-1:OK */
/* PDT-2:OK */
/* RI-1:OK */
/* RI-2:OK */
/* RI-3:OK */
/* RI-4:OK */
/* RI-5:NA */
/* RI-6:OK */
/* RTRV-BUS-STATUS::SPB-6-1-1::ALLDATA [P49531] (3-1) */
;
```

RTRV-BUS-STATUS::SPB-5-3-2;

The output response below illustrates the result from a center or end stage SPB placement.

This response assumes CID 7-1 was used to enter the command and that the system generated a CTAG value of P4f271. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P4f271 COMPLD
/* ICL-1:OK */
/* ICL-2:OK */
/* PBUS-1:OK */
/* PBUS-2:OK */
/* RI-1:OK */
/* RI-2:OK */
/* RI-4:OK */
/* RI-5:OK */
/* RTRV-BUS-STATUS::SPB-5-3-2 [P4f271] (7-1) */
```

RTRV-BUS-STATUS::SPB-5-1-2;

This example shows a response for an SPB within an IRO shelf.

This response assumes CID 7-1 was used to enter the command and that the system generated a CTAG value of P4f280. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M   P4f80 COMPL
/* ICL-1:OK */
   /* ICL-2:OK */
   /* RI-1:OK */
   /* RI-2:OK */
   /* RI-3:OK */
   /* RI-4:OK */
   /* RI-5:OK */
   /* RI-6:OK */
/* RTRV-BUS-STATUS::SPB-5-1-2 [P4f280] (7-1)
```

RELATED COMMANDS

RTRV-ALM-ALL

RTRV-EQPT

COMMAND CODE: **RTRV-CID**
COMMAND NAME: **RETRIEVE COMMUNICATIONS
INTERFACE DEVICE**

PURPOSE

The RTRV-CID command retrieves the current configuration for the specified CPORT (and any associated X.25 virtual channels or TCP sessions) and identifies any user currently logged-in to the system over the CPORT or virtual channel.

The RTRV-CID command can be executed while in the Limited Command Execution mode (i.e., after execution of a STOP-OPS command) or the Normal Command Execution mode.

The successful response for a RTRV-CID command contains one or more lines of parsable output data, in ascending order, for each specified CPORT that is provisioned. No line of output data is provided for CPORTs that have not been provisioned (via ENT-CID).

- For CPORTs provisioned as non-X.25 and non-TCP ports, a single line of output data is provided for each specified CPORT.
- For CPORTs provisioned as X.25 ports, a line of output is provided to report information common to the X.25 CPORT, followed by a line of data for each provisioned virtual channel within the X.25 CPORT.
- For CPORTs provisioned as TCP ports, a line of output is provided to report information common to the TCP CPORT, followed by a line of data for each active session within the TCP CPORT.

A RTRV-CID command is denied if:

- An invalid parameter value is entered.
- System is in Limited Command Execution mode, and CPORT other than 3, 5, 7, 9 or 11 is specified.

INPUT FORMAT

RTRV-CID: [TID] : [CPORT] : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CPORT	{1-12} Default: <All provisioned CPORTs in the system> Addressing: &&-ranging and &-grouping Description: Control Port, specifies the physical communication port number on the APS control system.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```

    <SID> <YY-MM-DD> <HH:MM:SS>
M  <CTAG> COMPLD
    [ "<CPORT>:<PROTOCOL>,<BAUD>,<AUTOIN>,<ACTUSERDM>,[<UID>],[<TYPE>],
    [<DM>]::<ENABLE>,<CIDSTATE>" ]
    [ "<CPORT>:<PROTOCOL>,<BAUD>,<ACTUSERDM>:MODEM=<value>,SIZE=<value>,
    L3WIN=<value>,KWIN=<value>,HIPVC=<value>,LISVC=<value>,HISVC=<value>,
    LTSVC=<value>,HTSVC=<value>,LOSVC=<value>,HOSVC=<value>,ADDR=<value>:
    ,<CIDSTATE>" ]
    [ "<CPORT>,<VCNUM>:<VCTYPE>,[<LCN>],<AUTOIN>,<ACTUSERDM>:[<UID>],[<TYPE>],[<DM>],
    [<X25COA>],[<AMSGITMR>]::<ENABLE>,<CIDSTATE>" ]
    [ "<CPORT>:<PROTOCOL>,<BAUD>,<ACTUSERDM>::,<CIDSTATE>" ]
    [ "<CPORT>,<SESNUM>:<PROTOCOL>,<ACTUSERDM>:[<UID>],[<TYPE>],[<DM>]::<ENABLE>" ]
    [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

Note: The first format line of output data is used for each provisioned non-X.25 and non-TCP CPORT being reported.

The second format line of output data is used for each provisioned X.25 CPORT being reported.

The third format line of output data is used for each provisioned virtual channel within an X.25 CPORT being reported.

The fourth format line of output data is used for each provisioned TCP CPORT being reported.

The fifth format line of output data is used for each active session within each provisioned TCP CPORT being reported.

OUTPUT PARAMETERS

ACTUSERDM	{AUECHO, AUNOECHO}	ACT-USER Display Mode, indicates whether the input characters (keystrokes) for an ACT-USER command entered over the indicated CPORT, or entered over any provisioned X.25 PVCs or incoming SVCs within the CPORT, are echoed by the system. Values are:
	AUECHO	Character Echo, ACT-USER input characters are echoed.
	AUNOECHO	Character Not Echo, ACT-USER input characters are not echoed.
AMSGITMR	{15-3600, <NoVal>}	Autonomous (X.25 Call Out) Message Inactivity Timer, indicates the number of seconds the system waits for another autonomous message before terminating the X.25 outgoing SVC session. Expiration of the AMSGITMR indicates that no autonomous messages in the output message queue remain to be transmitted. A value for AMSGITMR is only returned if provisioning for an outgoing SVC (VCTYPE is SVC and AUTOIN is <UID>) is being reported.
AUTOIN	{%, <UID>}	Automatic Login, indicates whether a User ID is automatically logged-in on the control port or virtual channel. Values are:
	%	No Automatic Login, a normal log-on sequence (via ACT-USER) is required to access the system.
	<UID>	UID Automatically Logged-in, the User ID (UID) is automatically logged-in whenever the CPORT or virtual channel is in service.
BAUD	{1200, 2400, 4800, 9600, 19200, 38400, 10}	Baud Rate, identifies the baud rate of the control port. (Note. The system automatically selects the external timing reference provided by the DCE (Data Communication Equipment) if PROTOCOL is X25, regardless of the value returned for BAUD.) For CPORTs with PROTOCOL set to TCP, the BAUD parameter value is 10 megabit/second.

CIDSTATE	{AOOS, INSTALL, REMOVED, RUNNING, UNKNOWN} Current State/Status of the indicated CPORT or indicated X.25 virtual channel. Values are:	
	AOOS	Automatic Out-Of-Service, the system has automatically removed the CPORT or virtual channel from service. (e.g., an unusual, non-auto-recoverable system error occurred; an INIT-SYS:::1 must be executed to recover from the error.)
	INSTALL	CID Install Failed, while starting the CID software, the system could not configure the necessary equipment due to an equipment failure or similar problem. (Correct the problem and execute a RST-CID to recover.)
	REMOVED	Removed/Out-Of-Service, a RMV-CID was executed, or a RST-CID was not executed after the CID was provisioned.
	RUNNING	Running/In-Service, the CID is operational.
	UNKNOWN	Unknown, the state/status of the CID is not recognized by the system.
CPORT	{1-12} Control Port, identifies the physical control port number.	
DM	{ECHO, NA, NOECHO, <NoVal>} Display Mode, identifies whether input character echo is on or off after a user logs-in for a user provisioned (via ENT-USER) as a TTY CID type. A value for DM is only returned if a user is currently logged-in to the indicated CPORT or indicated X.25 virtual channel. Values are:	
	ECHO	Echo On, input characters from a TTY terminal are echoed.
	NOECHO	Echo Off, input characters from a TTY terminal are not echoed.
	NA	Not Applicable, the user is not provisioned as a TTY terminal type.
ENABLE	{STARTED, STOPPED} Output Display Enable, indicates whether output transmission on the indicated CPORT or indicated X.25 virtual channel is enabled or disabled (via START-CID or STOP-CID). Values are:	
	STARTED	Enabled, output transmission is enabled.
	STOPPED	Disabled, output transmission is stopped (disabled).
LCN	{1-8, <NoVal>} Logical Channel Number, indicates the provisioned value (via ENT-CID-VC) for the logical channel number (LCN) for the reported PVC X.25 virtual channel or the active LCN of a connected SVC for the reported SVC X.25 virtual channel . A value for LCN is <i>not</i> returned for if an inactive, unconnected SVC is being reported.	
PROTOCOL	{SNIDER, TCP, X25, XON} Protocol, identifies the communication protocol used with the control port. Values are:	
	SNIDER	SNIDER protocol.
	TCP	TCP/IP protocol, implies the selected CPORT is running the TCP/IP over the Local Area Network (LAN).
	X25	X.25 protocol.
	XON	XON/XOFF protocol, indicates the asynchronous XON/XOFF (flow control) protocol.
SESNUM	{1-32} Session Number, indicates the TCP session/connection number associated with the session on the LAN being reported. A value for SESNUM is only returned if provisioning for a LAN CPORT is being reported.	

TYPE	<p>{PRN, TTY, VDT, <NoVal>}</p> <p>CID Type, identifies the type of CID provisioned (via ENT-USER) for the user currently logged-in to the indicated CPORT or indicated X.25 virtual channel. A value for TYPE is only returned if a user is currently logged-in to the indicated CPORT or indicated X.25 virtual channel. Values are:</p> <p>Terminal Type, indicates the terminal CPORT configuration for the user. Values are:</p> <table> <tr> <td>PRN</td><td>Printer (output only) CPORT.</td></tr> <tr> <td>TTY</td><td>Teletype Terminal, non-cursor addressable input/output terminal.</td></tr> <tr> <td>VDT</td><td>Video Display Terminal, cursor addressable video display terminal.</td></tr> </table>	PRN	Printer (output only) CPORT.	TTY	Teletype Terminal, non-cursor addressable input/output terminal.	VDT	Video Display Terminal, cursor addressable video display terminal.
PRN	Printer (output only) CPORT.						
TTY	Teletype Terminal, non-cursor addressable input/output terminal.						
VDT	Video Display Terminal, cursor addressable video display terminal.						
UID	<p>{<USER_ID>, <NoVal>}</p> <p>User Identifier, identifies the UID of the user currently logged-in (via ACT-USER) to the indicated CPORT or indicated X.25 virtual channel. A value for UID is only returned if a user is currently logged-in to the indicated CPORT or indicated X.25 virtual channel.</p>						
VCNUM	<p>{1-32}</p> <p>Virtual Channel Number, identifies the X.25 virtual channel within the specified X.25 CPORT or the TCP session number within a TCP CPORT. A value for VCNUM is only returned if provisioning for a virtual channel is being reported.</p>						
VCTYPE	<p>{PVC, SVC}</p> <p>Virtual Circuit Type, identifies the type of virtual circuit for the indicated X.25 virtual channel. A value for VCTYPE is only returned if provisioning for a virtual channel is being reported. Values are:</p> <table> <tr> <td>PVC</td><td>Permanent Virtual Circuit</td></tr> <tr> <td>SVC</td><td>Switched Virtual Circuit</td></tr> </table>	PVC	Permanent Virtual Circuit	SVC	Switched Virtual Circuit		
PVC	Permanent Virtual Circuit						
SVC	Switched Virtual Circuit						
X25COA	<p>{<1-15 INTEGER X.25_CALL_OUT_ADDRESS>, <NoVal>}</p> <p>X.25 Call Out Address, indicates the X.25 Call Out Address of the called DTE for outgoing SVCs. A value for X25COA is only returned if provisioning for an outgoing SVC (VCTYPE is SVC and AUTOIN is <UID>) is being reported.</p>						
ADDR=	<p>< 1-15 INTEGER X.25_CALLED_ADDRESS ></p> <p>X.25 Called Address, indicates the provisioned value (via ED-CID-OSPORT) for the X.25 Called Address (the X.25 address for the system). A value for ADDR is only returned for an X.25 CPORT.</p>						
HIPVC=	<p>{0-8}</p> <p>Highest Incoming PVC Channel Number, indicates the provisioned value (via ED-CID-OSPORT) for the X.25 HIPVC number. A value for HIPVC is only returned for an X.25 CPORT.</p>						
HISVC=	<p>{0-4095}</p> <p>Highest Incoming SVC Channel Number, indicates the provisioned value (via ED-CID-OSPORT) for the X.25 HISVC number. A value for HISVC is only returned for an X.25 CPORT.</p>						
HOSVC=	<p>{0-4095}</p> <p>Highest Outgoing SVC Channel Number, indicates the provisioned value (via ED-CID-OSPORT) for the X.25 HOSVC number. A value for HOSVC is only returned for an X.25 CPORT.</p>						
HTSVC=	<p>{0-4095}</p> <p>Highest Two-way (Incoming or Outgoing) SVC Channel Number, indicates the provisioned value (via ED-CID-OSPORT) for the X.25 HTSVC number. A value for HTSVC is only returned for an X.25 CPORT.</p>						
KWIN=	<p>{1-7}</p> <p>Level 2 Window Size, indicates the provisioned value (via ED-CID-OSPORT) for the X.25 level 2 window size (in number of frames). A value for KWIN is only returned for an X.25 CPORT.</p>						

L3WIN=	{1–7} Level 3 Window Size, indicates the provisioned value (via ED–CID–OSPORT) for the X.25 level 3 window size. A value for L3WIN is only returned for an X.25 CPORT.
LISVC=	{0–4095} Lowest Incoming SVC Channel Number, indicates the provisioned value (via ED–CID–OSPORT) for the X.25 LISVC number. A value for LISVC is only returned for an X.25 CPORT.
LOSVC=	{0–4095} Lowest Outgoing SVC Channel Number, indicates the provisioned value (via ED–CID–OSPORT) for the X.25 LOSVC number. A value for LOSVC is only returned for an X.25 CPORT.
LTSVC=	{0–4095} Lowest Two–way (Incoming or Outgoing) SVC Channel Number, indicates the provisioned value (via ED–CID–OSPORT) for the X.25 LTSVC number. A value for LTSVC is only returned for an X.25 CPORT.
MODEM=	{NO, YES} Modem Controls, indicates whether the X.25 control port is provisioned (via ED–CID–OSPORT) to use RTS (Request To Send) and CTS (Clear To Send) modem control signals. A value for MODEM is only returned for an X.25 CPORT.
SIZE=	{128, 256} Packet Size, indicates the provisioned value (via ED–CID–OSPORT) for the X.25 maximum packet size. A value for SIZE is only returned for an X.25 CPORT.

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Optional Suggested Action Text> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non–Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid /* CID <CPORT> does not exist*/ /* X25 vc <VCNUM> does not exist */ /* This CID <CPORT> is an X.25 vc */
SDBE	Status, internal Data Base Error /* Unable to read OSDB – status = <status number> */

EXAMPLES

In the following example, CPORT information for all provisioned CPORTs and provisioned virtual channels is retrieved.

```
RTRV–CID;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of P07003. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P07003 COMPLD
"1:XON,9600,%,AUECHO::STARTED,RUNNING"
"2:XON,9600,%,AUECHO,system,VDT,NA::STARTED,RUNNING"
"3:X25,9600,AUNOECHO:MODEM=YES,SIZE=256,L3WIN=2,KWIN=7,HIPVC=4,
LISVC=5,HISVC=8,LTSVC=8,HTSVC=8,LOSVC=8,HOSVC=8,ADDR=0:,RUNNING"
"3,1:PVC,1,%%:STOPPED,RUNNING"
"3,2:SVC,5,%%:STARTED,RUNNING"
"3,3:PVC,3,%%:STARTED,REMOVED"
"3,5:SVC,,%,JONES,VDT,NA::STARTED,RUNNING"
"4:XON,9600,%,AUECHO,SMITH,TTY,ECHO::STARTED,RUNNING"
"5:XON,9600,%,AUECHO::STARTED,RUNNING"
"6:XON,9600,sysprint,AUECHO,sysprint,PRN,NA::STARTED,RUNNING"
/* RTRV-CID [P07003] (2) */
;
```

In the following example, CPORT information for CPORTs 1 and 3 is retrieved.

```
RTRV-CID::1&3;
```

The output responses, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of P07010. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P07010 COMPLD
"1:XON,9600,%,AUECHO::STARTED,RUNNING"
/* RTRV-CID::1 [P07010] (2) */
;

<SID> <YY-MM-DD> <HH:MM:SS>
M P07010 COMPLD
"3:X25,9600,,AUNOECHO:MODEM=YES,SIZE=256,L3WIN=2,KWIN=7,HIPVC=4,
LISVC=5,HISVC=8,LTSVC=8,HTSVC=8,LOSVC=8,HOSVC=8,ADDR=0:,RUNNING"
"3,1:PVC,1,%%:STOPPED,RUNNING"
"3,2:SVC,5,%%:STARTED,RUNNING"
"3,3:PVC,3,%%:STARTED,REMOVED"
"3,5:SVC,,%,JONES,VDT,NA::STARTED,RUNNING"
/* RTRV-CID::3 [P07010] (2) */
;
```

RELATED COMMANDS

DLT-CID
DLT-CID-VC
DLT-OSADDR-SITE
ED-CID
ED-CID-OSPORT
ED-CID-VC
ED-OSADDR-SITE
ED-PRMTR-SITE
ED-PRVG-USER
ENT-CID
ENT-CID-VC
ENT-OSADDR-SITE
ENT-USER
RMV-CID
RST-CID
RTRV-OSADDR-SITE
RTRV-PRMTR-SITE
START-CID
STOP-CID

COMMAND CODE: **RTRV-CKTID**
COMMAND NAME: **RETRIEVE CIRCUIT IDENTIFICATION**

PURPOSE

RTRV-CKTID retrieves a list of Symbolic Circuit IDs previously assigned to flag specific cross-connects with alphanumeric IDs (using ENT/ED-CRS/CONF commands). The search keys for this Circuit ID list are the CKTID and CKTIDTF parameters.

A separate line of parsable output data is provided for each of the following cross-connect types containing a CKTID or CKTIDTF parameter matching the input Circuit ID:

- 1WAY: One line of data for each one-way cross-connection, including the case of a one-way bridge connection, or a connection from a conference tail connected back to the conference head.
- 2WAY: One line of data for each two-way cross-connection, whether the two-way cross-connection was established as a single two-way cross-connect or as two one-way cross-connects.
- 2WAYPR: One line of data for each two-way path ring cross-connection. (Only preferred side is shown.)
- 2WAYDC: One line of data for each two-way drop and continue cross-connection. (Only preferred side is shown.)
- BCST: One line of data for each one-way cross-connection from the conference head to each conference tail.

A RTRV-CKTID command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-CKTID: [TID] :: [CTAG] :: CKTID;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
CKTID	< 0-45 VALID TID CHARACTERS > Default: <Entry Required> Addressing: None Description: FROM and TO Circuit ID. 1 to 45 ASCII characters (excluding semi-colon, double quote, greater than, lesser than and backslash characters) within enclosing double quotes. An asterisk (*) may be used as a wildcard character.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
" <FROM>, <TO>: <CTYPE>, <LEVEL>: [RDL=] [, CKTID=] [, CKTIDTF=] : <PST> [, <SST>] "
[/* <Command Echo> [<CTAG>] (<CID [-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

FROM	DS1_AID:	
	{T1-{1-59392}}	(T1-DS1#)
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)
	{EC1T1-{1-3840}-{1-28}}	(EC1T1-EC1/STS1/DS3#-DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-28}}	(OC3T1-OC3#-STS1/DS3#-DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}	(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)
	VT1_AID:	
	{EC1VT1-{1-3840}-{1-7}-{1-4}}	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)
	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)
	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	
	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)	
	DS3_AID:	
	{T3-{1-4800}}	(T3-DS3#)
	STS1_AID:	
	{EC1STS1-{1-3840}}	(EC1STS1-EC1/STS1#)
	{OC3STS1-{1-2240}-{1-3}}	(OC3STS1-OC3#-STS1#)
	{OC12STS1-{1-560}-{1-4}-{1-3}}	(OC12STS1-OC12#-STM1#-STS1#)
	STS3C_AID:	
	{OC3STS3C-{1-2240}}	(OC3STS3C-OC3#/STS3C#)
	{OC12STS3C-{1-560}-{1-4}}	(OC12STS3C-OC12#-STM1/STS3C#)
	DS1, VT1, DS3, STS1, or STS3C AID, indicates the FROM (receive side from the network) port of the cross-connection. FROM is the specified AID entered in the RTRV-CRS command if a two-way cross-connection exists.	
TO	DS1_AID:	
	{T1-{1-59392}}	(T1-DS1#)
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)
	{EC1T1-{1-3840}-{1-28}}	(EC1T1-EC1/STS1/DS3#-DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-28}}	(OC3T1-OC3#-STS1/DS3#-DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}	(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)
	VT1_AID:	
	{EC1VT1-{1-3840}-{1-7}-{1-4}}	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)
	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)
	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	
	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)	
	DS3_AID:	
	{T3-{1-4800}}	(T3-DS3#)
	STS1_AID:	
	{EC1STS1-{1-3840}}	(EC1STS1-EC1/STS1#)
	{OC3STS1-{1-2240}-{1-3}}	(OC3STS1-OC3#-STS1#)
	{OC12STS1-{1-560}-{1-4}-{1-3}}	(OC12STS1-OC12#-STM1#-STS1#)
	STS3C_AID:	
	{OC3STS3C-{1-2240}}	(OC3STS3C-OC3#/STS3C#)
	{OC12STS3C-{1-560}-{1-4}}	(OC12STS3C-OC12#-STM1/STS3C#)
	DS1, VT1, DS3, STS1, or STS3C AID, indicates the TO (transmit side to the network) port of the cross-connection. If a two-way cross-connection exists, TO is the cross-connection AID not specified in the RTRV-CKTID command.	

CTYPE	<p>{1WAY, 2WAY, 2WAYPR, 2WAYDC, BCST}</p> <p>Cross-connection Type. Values are:</p> <table><tr><td>1WAY</td><td>One-way cross-connection</td></tr><tr><td>2WAY</td><td>Two-way cross-connection</td></tr><tr><td>2WAYPR</td><td>Two-Way Path Protected connection</td></tr><tr><td>2WAYDC</td><td>Two-Way Drop and Continue connection</td></tr><tr><td>BCST</td><td>Broadcast conference cross-connection.</td></tr></table>	1WAY	One-way cross-connection	2WAY	Two-way cross-connection	2WAYPR	Two-Way Path Protected connection	2WAYDC	Two-Way Drop and Continue connection	BCST	Broadcast conference cross-connection.
1WAY	One-way cross-connection										
2WAY	Two-way cross-connection										
2WAYPR	Two-Way Path Protected connection										
2WAYDC	Two-Way Drop and Continue connection										
BCST	Broadcast conference cross-connection.										
LEVEL	<p>{STS1, STS3C, T1, T3, VT1}</p> <p>Rate of the cross-connected channel. Valid value are:</p> <table><tr><td>STS1</td><td>STS-1 cross connection, only displayed for an STS-1 to STS-1 cross connection.</td></tr><tr><td>STS3C</td><td>STS-3C cross connection, only displayed for an STS-3C to STS-3C cross connection.</td></tr><tr><td>T1</td><td>DS1 cross connection, displayed for a DS1 to DS1 and DS1 to VT1.5 cross connection.</td></tr><tr><td>T3</td><td>DS3 cross connection, displayed for a DS3 to DS3 and DS3 to STS-1 cross connection.</td></tr><tr><td>VT1</td><td>VT1.5 cross connection, only displayed for a VT1.5 to VT1.5 cross connection.</td></tr></table>	STS1	STS-1 cross connection, only displayed for an STS-1 to STS-1 cross connection.	STS3C	STS-3C cross connection, only displayed for an STS-3C to STS-3C cross connection.	T1	DS1 cross connection, displayed for a DS1 to DS1 and DS1 to VT1.5 cross connection.	T3	DS3 cross connection, displayed for a DS3 to DS3 and DS3 to STS-1 cross connection.	VT1	VT1.5 cross connection, only displayed for a VT1.5 to VT1.5 cross connection.
STS1	STS-1 cross connection, only displayed for an STS-1 to STS-1 cross connection.										
STS3C	STS-3C cross connection, only displayed for an STS-3C to STS-3C cross connection.										
T1	DS1 cross connection, displayed for a DS1 to DS1 and DS1 to VT1.5 cross connection.										
T3	DS3 cross connection, displayed for a DS3 to DS3 and DS3 to STS-1 cross connection.										
VT1	VT1.5 cross connection, only displayed for a VT1.5 to VT1.5 cross connection.										
RDL	<p>{Y}</p> <p>Indicates whether the red line feature is enabled:</p> <table><tr><td>Y</td><td>Red line is enabled</td></tr></table>	Y	Red line is enabled								
Y	Red line is enabled										
CKTID	<p><1-45 valid TID characters></p> <p>FROM to TO circuit ID. Valid Values are 1 to 45 ASCII characters (matches input CKTID parameter)</p>										
CKTIDTF	<p><0-45 valid TID characters></p> <p>TO to FROM circuit ID. Valid Values are 1 to 45 ASCII characters (matches input CKTID parameter)</p>										
PST	<p>{IS, OOS-AU}</p> <p>Primary State, indicates the current primary state of the cross-connection. Refer to Appendix G, State Transitions for a definition of state names and description of state transitions. Values are:</p> <table><tr><td>IS</td><td>In-Service</td></tr><tr><td>OOS-AU</td><td>Out-Of-Service-Autonomous</td></tr></table>	IS	In-Service	OOS-AU	Out-Of-Service-Autonomous						
IS	In-Service										
OOS-AU	Out-Of-Service-Autonomous										

SST	{ROLL, SGEO, STBYH, TERMB, TERMF, TERMT, TS, WRK}
	Secondary State, indicates any secondary states associated with the cross-connection. SST values may be shown in the output combined with an ampersand (&) if more than one value applies to the cross-connection at the time of the RTRV-CRS. Refer to Appendix G, State Transitions for a definition of state names and description of state transitions. Values are:
ROLL	Roll, indicates the ports in the cross connection are under rolling operation.
SGEO	Supporting Entity Outage
STBYH	Stand-by Hot. Applies when CTYPE = 2WAYPR and 2WAYDC. STBYH indicates all the entities required for the cross connection are in-service. But the path is not selected in the RPB module and is ready to be selected if a failure is detected in the working connection.
TERMB	Terminated-Both, indicates both the TO and FROM ports of the cross-connection are terminated.
TERMF	Terminated-From, indicates the FROM port of the cross-connection is terminated.
TERMT	Terminated-To, indicates the TO port of the cross-connection is terminated.
TS	Test, indicates the port is connected to a Test Access port.
WRK	Working. Applies when CTYPE = 2WAYPR and 2WAYDC. WRK indicates all entities required for the cross connection are in-service and the path is selected in the RPB module.

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
SDBE	Status, internal Data Base Error
	/* TP Database Error: <ERROR-STRING> for <AID-STRING> */
	/* CONN Database Error: <ERROR-STRING> for <AID-STRING> */
	/* CONF Database Error: <ERROR-STRING> for record number <RECORD-NUMBER> */
	/* RIP Database Error: <ERROR-STRING> for record number <RECORD-NUMBER> */
SROF	Status, Requested Operation Failed

EXAMPLES

The following example illustrates the command and associated output for a search on connections having a Circuit ID of TESTCKT. Note that CKTFROM showing in the response is a previously entered CKTIDTF ID for the TO FROM connection linked with the TESTCKT (FROM TO) connection.

```
RTRV-CKTID:::::"TESTCKT" ;

<SID> <YY-MM-DD> <HH:MM:SS>
M Pad567 COMPLD
  "T3T1-1-6,T3T1-5-3:2WAY,T1:CKTID=\"TESTCKT\",CKTIDTF=\"CKTFROM\":IS"
  "T3T1-1-7,T3T1-5-4:1WAY,T1:,RDL=Y,CKTID=\"TESTCKT\":IS"
/* RTRV-CKTID [Pad567] (2) */
;
```

The following example shows the command and associated output for a search on all connections having Circuit IDs that begin with the letters TEST.

```
RTRV-CKTID:::::"TEST*";

<SID> <YY-MM-DD> <HH:MM:SS>
M Pad568 COMPLD
  "T3T1-1-6,T3T1-5-3:2WAY,T1:CKTID=\"TESTCKT\",CKTIDTF=\"CKTFROM\":IS"
  "T3T1-1-7,T3T1-5-4:1WAY,T1:,RDL=Y,CKTID=\"TESTCKT\":IS"
  "T3T1-600-13,T3T1-5-5:1WAY,T1:CKTID=\"TESTCKT02\":IS"
/* RTRV-CKTID [Pad568] (2) */
;
```

RELATED COMMANDS

```
ED-CONF-T1
ED-CONF-VT1
RST-CID
RTRV-CRS
RTRV-RDL-ALL
```


COMMAND CODE: **RTRV-COND-ALL**
COMMAND NAME: **RETRIEVE CONDITION ALL**

PURPOSE

The RTRV-COND-ALL command retrieves the current status of any existing non-alarmed or not-reported standing conditions in the system, or any non-alarmed or not-reported standing conditions matching the specified combination of condition type or location (i.e., the CONDTYPE and LOCN parameters provide a filter for retrieving existing conditions satisfying the specified input parameters).

The successful response for a RTRV-COND-ALL command contains one line of parsable output data for each non-alarmed or not-reported standing condition being reported. If multiple non-alarmed or not-reported standing conditions exist, a line of output is provided for

- each equipment entity alarm, in ascending order by date and time of occurrence,
- each common (no specific entity) alarm, in ascending order by date and time of occurrence,
- each DS1 alarm, in ascending order by DS1 port number and ascending order by date and time of occurrence within each DS1 port number,
- each Timing Reference (TMG) alarm, in ascending order by TMG AID and ascending order by date and time of occurrence within each TMG AID,
- each F3 alarm, in ascending order by F3 port number and ascending order by date and time of occurrence within each F3 port number,
- each DS3 alarm, in ascending order by DS3 port number and ascending order by date and time of occurrence within each DS3 port number,
- each OC-3 alarm, in ascending order by OC-3 port number and ascending order by date and time of occurrence within each OC-3 port number,
- each OC-12 alarm, in ascending order by OC-12 port number and ascending order by date and time of occurrence within each OC-12 port number,
- each EC1 alarm, in ascending order by EC1 port number and ascending order by date and time of occurrence within each EC1 port number,
- each STS-1 alarm, in ascending order by STS-1 port number and ascending order by date and time of occurrence within each STS-1 port number,
- each STS-3C alarm, in ascending order by STS-3C port number and ascending order by date and time of occurrence within each STS-3C port number,
- each VT1.5 alarm, in ascending order by VT1.5 port number and ascending order by date and time of occurrence within each VT1.5 port number.

If there are no existing non-alarmed or not-reported standing conditions with attributes matching the specified (valid) combination of condition type and location, then the command is completed with no line of parsable output data provided in the response message.

A RTRV-COND-ALL command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-COND-ALL: [TID] : [AID] : [CTAG] : : [CONDTYPE] , [LOCN] , [DIRN] , [TMPER] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >	
	Default:	<SID>
	Addressing:	None
	Description:	Target Identifier, specifies the network node TID for the command.
AID	{ ALL }	
	Default:	{ALL}
	Addressing:	None
	Description:	Access Identifier, specifies all non-alarmed or not-reported standing conditions in the system are to be retrieved.

CTAG	<p>< 1–6 VALID CTAG CHARACTERS ></p> <p>Default: < System assigned CTAG value ></p> <p>Addressing: None</p> <p>Description: Correlation Tag, associates input command with its output responses.</p>
CONDTYPE	<p>EQUIPMENT_CONDTYPE:{ALMCKT, BKUPMEMP, BKUPMEMS, BPMISM, BPTERM, CARLOS, CD, CLKLCK0, CLKLCK1, CNTRLRFL, CONTBUS, CONTCOM, CONTR, CTNEQPT, DBF, DBFFT, DCCEQPT, DTLCKCPYFL, DUPMACADDR, DUPTARPEENTRY, FA, FANEQPT, FWMISM, GT1, GT4, IMPROPRMVL, INHSWDX, INHSWPR, INHSWWKG, INIT, INTERR, LOCKOUT, LOTRI, MAN, MANWKS WPR, MISC–1, OSIPARMISM, PRCDRERR, PWR, RARFAIL, SWFTDWN, SYNCEQPT, TERM–EC1, TERM–OC3, TERM–OC12, TERM–T1, TERM–T3EC1, TSA, TSI, TSTEQPT, WKS WPR, XIDMISM},</p> <p>COMMON_CONDTYPE:{DATAFLT, EUA, FRNGSYN, FSTSYN, GOS–EC1, GOS–OC12, GOS–OC3, GOS–STS1, GOS–STS3C, GOS–T1, GOS–T3, GOS–VT1, HLDVRSYN, INHFL, INIT, ITMIP, MANSELDATA CPY0, MANSELDATA CPY1, MANSWTOPRI, MANSWTOSEC, PAINTGRT, RCVRY, SWTOPRI, SWTOSEC, UPGRD1344, UPGRD2688},</p> <p>DS1_NEAR–END_CONDTYPE:{ACTLPBK, AIS, AIS–CI, ALWCBLPBK, DS1ISD, EOC, INHPMREPT, LOF, LOS, MAN, RVCBLPBK, ROLLMON, XMTCLPBK},</p> <p>DS1_FAR–END_CONDTYPE:{RAI, RAI–C},</p> <p>TMG_NEAR–END_CONDTYPE:{AIS, LOF, LOS, SLTMSIG, SYNCPRI, SYNCSEC, SYNCSTATQUAL},</p> <p>F3_CONDTYPE:{INHPMREPT},</p> <p>DS3_NEAR–END_CONDTYPE:{1TO6LOF, 7LOF, ACTLPBK, AICMIS, AIS, FLTESC, INHPMREPT, ISD, LOF, LOS, MAN},</p> <p>DS3_FAR–END_CONDTYPE:{AIS, DS2YEL, FEACEQPT, ISD, LOF, LOS, RAI},</p> <p>OC3_NEAR–END_CONDTYPE:{ACTLPBK, AIS, DUPTARPEENTRY, EBER, ESW, FRCDWKS WBK, FRCDWKS WPR, INHPMREPT, L2LCONFAL, L2SCONFAL, LDCCDLFL, LOCKOUTOFPR, LOF, LOS, MAN, MANWKS WBK, MANWKS WPR, SDBER, SDCCDLFL, WTR},</p> <p>OC3_FAR–END_CONDTYPE:{RFI},</p> <p>OC12_NEAR–END_CONDTYPE:{ACTLPBK, AIS, DUPTARPEENTRY, EBER, ESW, FRCDWKS WBK, FRCDWKS WPR, INHPMREPT, L2LCONFAL, L2SCONFAL, LDCCDLFL, LOCKOUTOFPR, LOF, LOS, MAN, MANWKS WBK, MANWKS WPR, SDBER, SDCCDLFL, WTR},</p> <p>OC12_FAR–END_CONDTYPE:{RFI},</p> <p>EC1_NEAR–END_CONDTYPE:{ACTLPBK, AIS, INHPMREPT, LOF, LOS, MAN},</p> <p>EC1_FAR–END_CONDTYPE:{RFI},</p> <p>STS1_NEAR–END_CONDTYPE:{ACTLPBK, AIS, EBER, FLTESC, FRCDWKS WBK, FRCDWKS WPR, IDLE, INHPMREPT, LOP, MAN, MANWKS WBK, MANWKS WPR, PDI, SDBER, SLMF},</p> <p>STS1_FAR–END_CONDTYPE:{RFI},</p> <p>STS3C_NEAR–END_CONDTYPE:{ACTLPBK, AIS, IDLE, INHPMREPT, LOP, MAN, SLMF},</p> <p>STS3C_FAR–END_CONDTYPE:{RFI},</p> <p>VT1_NEAR–END_CONDTYPE:{ACTLPBK, AIS, EBER, FLTESC, FRCDWKS WBK, FRCDWKS WPR, IDLE, INHPMREPT, LOP, MAN, MANWKS WBK, MANWKS WPR, ROLLMON, SDBER, SLMF},</p> <p>VT1_FAR–END_CONDTYPE:{RFI}</p> <p>Default: < All applicable condition types listed above ></p> <p>Addressing: None</p> <p>Description: Condition Type, specifies the condition type to be retrieved. (Refer to Appendix C for a list of all condition types.) Values are:</p>

Input Values for EQUIPMENT CONDITION TYPES are:

ALMCKT	Alarm Circuit, RDU/RSP failure detected.
BKUPMEMP	Backup Memory—Primary, magnetic disk backup failure.
BKUPMEMS	Backup Memory—Secondary, optical disk/tape drive back-up failure.
BPMISM	Backplane Mismatch, mismatch between the provisioned shelf and the installed shelf backplane
BPTERM	Backplane Termination failure detected in the SI48 I/O, EOC, End Stage, or Center Stage shelf.
CARLOS	Carrier Loss, loss of carrier event during IEEE 802.3 frame transmission on the LAN.
CD	Control and Display interface audit error detected.
CLKLCK0	Clock Lock 0, the clock path of the I/O, EOC, ES, and CS locked to clock bus 0.
CLKLCK1	Clock Lock 1, the clock path of the I/O, EOC, ES, and CS locked to clock bus 1.
CNTRLRFL	Controller Failure, LAPD or LAN controller failed set on the DSB.
CONTBUS	Control Bus, shelf control bus interface failure.
CONTCOM	Control Communication equipment failure.
CONTR	Control processor equipment failure.
CTNEQPT	Connection Equipment, facility/circuit interconnection equipment failure.
DBF	Database Backup Failure, OPD database backup failure detected (on second try).
DBFFT	Database Backup Failed on First Try, OPD database backup failure detected on first try.
DCCEQPT	Data Communication Channel Equipment, DCC Server Board failed.
DTLCKCPYFL	Data Lock Copy Fail, I/O modules in shelf/quad not locked to the copy specified.
DUPMACADDR	Duplicate MAC Address, detected on the LAN.
DUPTARPEENTRY	Duplicate TARP adjacency table.
FA	Fuse Alarm, a PDU/RDU/RSP circuit breaker or PDU fuse has failed.
FANEQPT	Fan Equipment, one or more of the fans in a fan assembly failed.
FWMISM	Firmware Mismatch, firmware version number does not match that in the system database.
GT1	GTI Cable fault for GTI cable carrying an STM1 signal.
GT4	GTI Cable fault for GTI cable carrying an STM4 signal.
IMPROPRMVL	Improper Removal, result of a physical circuit pack removal that was not preceded by a logical removal.
INHSDWX	Inhibit Switch Duplex, automatic copy switching of duplex equipment inhibited.
INHSWPR	Inhibit Switch to Protection, automatic protection switching of a main circuit pack to protection unit is inhibited.
INHSWWKG	Inhibit Switch to Working, automatic switching of a main circuit pack back to working (from protection) is inhibited.
INIT	Initialization, shelf initialization in-process.
INTERR	Internal Error, internal error suspected on equipment.
LOCKOUT	LockOut of automatic revertive switching due to excessive protection switching.
LOTRI	Loss Of Offboard Timing Reference Input from mate Mas-

MAN	ter Clock Board circuit pack. Manual removal (logical removal was performed on a circuit pack).
MANWKSWPR	Manual Working Switched to Protection, main/working unit was manually switched to the protection unit.
MISC-1	Miscellaneous Class-1, slave MCB is not ready.
OSIPARMISM	OS Initialization Parameter Mismatch, upper layer parameters or lower layer parameters specific to the LAN or manual area addresses are mismatched between two redundant DSBs.
PRCDRERR	Procedure Error, installed equipment does not support the facility provisioning.
PWR	Power, internal power failure detected.
RARFAIL	Re-Arrangement Failed, cross-connect rearrangement through the matrix failed due to SPB communication problem.
SWFTDWN	Software Download is in process on a circuit pack.
SYNCEQPT	Synchronization Equipment failure detected.
TERM-EC1	Termination Equipment-EC1, ES1 circuit pack failure.
TERM-OC3	Termination Equipment-OC3, O1B circuit pack failure.
TERM-OC12	Termination Equipment-OC12, O4M circuit pack failure.
TERM-T1	Termination Equipment-T1, DSI circuit pack failure.
TERM-T3EC1	Termination Equipment-T3/EC1, EP3 circuit pack failure.
TSA	Test Session Active, maintenance test session is active on the equipment.
TSI	Time Slot Interchange equipment failure.
TSTEQPT	Test Equipment failure.
WKSWPR	Working Switched to Protection, main/working unit automatically switched to the protection unit.
XIDMISM	Connection ID Mismatch, internal Connection ID Mismatch detected in the I/O shelf/quad.
Input Values for COMMON CONDITION TYPES are:	
DATAFLT	Data integrity Fault, CRC error detected during a database read.
EUA	Emergency User Access activated.
FRNGSYNC	Free Running Synchronization, manual switch to free running clock reference synchronization mode.
FSTSYNC	Fast Acquisition Synchronization, manual or automatic switch to fast acquisition clock reference synchronization mode.
GOS-EC1	Grade of Service-EC1, system-wide EC1 GOS threshold reached.
GOS-OC12	Grade of Service-OC12, system-wide OC-12 GOS threshold reached.
GOS-OC3	Grade of Service-OC3, system-wide OC-3 GOS threshold reached.
GOS-STS1	Grade of Service-STS1, system-wide STS-1 GOS threshold reached.
GOS-STS3C	Grade of Service-STS3C, system-wide STS-3C GOS threshold reached.
GOS-T1	Grade of Service-T1, system-wide DS1 GOS threshold reached.
GOS-T3	Grade of Service-T3, system-wide DS3 GOS threshold reached.

GOS-VT1	Grade of Service-VT1, system-wide VT1.5 GOS threshold reached.
HLDOVRSYNC	Synchronization Holdover, manual or automatic switch to holdover clock reference synchronization mode.
INHFL	Inhibit Fault Locating, automatic system-wide fault isolation inhibited.
INIT	Initialization, system initialization in-process.
ITMIP	Installation Test and Maintenance (ITM) mode is set.
MANSELDATACPY0	Manual Selection/Lock to Data Copy 0 due to execution of SELECT-COPY command.
MANSELDATACPY1	Manual Selection/Lock to Data Copy 1 due to execution of SELECT-COPY command.
MANSWTOPRI	Manual Switch To Primary Synchronization Reference.
MANSWTOSEC	Manual Switch To Secondary Synchronization Reference.
PAINTGRT	Path Integrity Failure, a system-wide data or clock failure detected.
RCVRY	Recovery. The System level recovery has been executed. The user must issue INIT-SYS command.
SWTOPRI	Automatic Switch To Primary Synchronization Reference.
SWTOSEC	Automatic Switch To Secondary Synchronization Reference.
UPGRD1344	672 Port to 1344 Port Upgrade in Progress.
UPGRD2688	1344 Port to 2688 Port Upgrade in Progress.
Input Values for DS1, TMG, F3, and DS3 CONDITION TYPES are:	
1TO6LOF	One To Six Loss Of Frame, Incoming LOF detected on 1 to 6 DS2s embedded in the DS3. (DS3 Near-End.)
7LOF	Seven Loss Of Frame, Incoming LOF detected on all 7 DS2s embedded in the DS3. (DS3 Near-End.)
ACTLPBK	Active Loopback, the port is in loop back. (DS1, DS3 Near-End.)
AICMIS	Application Identification Channel Mismatch, AIC mismatch detected. (DS3 Near-End.)
AIS	Alarm Indication Signal, AIS detected. (DS1, TMG, DS3 Near-End, DS3 Far-End.)
AIS-CI	Alarm Indication Signal for Customer Installation, Incoming AIS detected. (DS1 Near-End)
ALWCBLPBK	Allow C-Bit Loopback. (DS1 Near-End.)
DS2YEL	DS2 Yellow (Remote Alarm Indication) detected on one of the DS2s embedded in the DS3. (DS3 Far-End.)

DS1ISD	DS1 Idle Signal Detected, Incoming. (DS1 Near-End.)
EOC	Embedded Operations Channel, EOC failure detected. (DS1 Near-End.)
FEACEQPT	Far-End Alarm & Control (FEAC) Equipment detected. (DS3 Far-End.)
FLTESC	Facility Fault Escalation active. (DS3 Near-End.)
INHPMREPT	Inhibit Performance Monitoring Report, PM report capability inhibited. (DS1, DS3, F3 Near-End.)
ISD	Idle Signal Detected. (DS3 Near-End, DS3 Far-End.)
LOF	Loss Of Frame detected. (DS1, TMG, DS3 Near-End, DS3 Far-End.)
LOS	Loss Of Signal detected. (DS1, TMG, DS3 Near-End, DS3 Far-End.)
MAN	Manual removal (logical removal was performed on the facility). (DS1, DS3 Near-End.)
RAI	Remote Alarm Indication detected. (DS1, DS3 Far-End.)
RAI-CI	Remote Alarm Indication for Customer Installation detected. (DS1 Far-End.)
RCVCBLPBK	Receive (DS1) C-Bit Loopback. (DS1 Near-End.)
ROLLMON	Roll Monitoring, receive-side RTO port being monitored for valid signal. (DS1 Near-End.)
SLTMSIG	Slipping Timing Reference Signal detected. (TMG Near-End.)
SYNCPRI	Primary Reference Synchronization failure. (TMG Near-End.)
SYNCSEC	Secondary Reference Synchronization failure. (TMG Near-End.)
SYNCSTATQUAL	Synchronization Status Quality. (TMG Near-End.)
XMTCBLPBK	Transmit (DS1) C-Bit Loopback. (DS1 Near-End.)
Input Values for OC-3, OC-12, EC1, STS-1, STS-3C, and VT1.5 CONDITION TYPES are:	
ACTLPBK	Active Loopback, the port is in loop back. (OC-3, OC-12, EC1, STS-1, STS-3C, VT1.5 Near-End.)
AIS	Alarm Indication Signal, AIS detected. (OC-3, OC-12, EC1, STS-1, STS-3C, VT1.5 Near-End.)
DUPTARPENTRY	Duplicate TARP adjacency table. (OC-3, OC-12 Near-End.)
EBER	Excessive Bit Error Rate detected. (OC-3, OC-12, STS-1, VT1.5 Near-End.)
ESW	Excessive Switching, lockout of automatic revertive (OC-3, OC-12) switching due to excessive switching. (OC-3, OC-12 Near-End.)
FLTESC	Facility Fault Escalation active. (STS-1, VT1.5 Near-End.)
FRCDWKS WBK	Forced Working Switched Back, working facility was manually force switched from protection to the main facility. (OC-3, OC-12, STS-1 , VT1.5 Near-End.)
FRCDWKS WPR	Forced Working Switched to Protection, working facility was manually force switched to the protection facility. (OC-3, OC-12, STS-1 , VT1.5 Near-End.)
IDLE	Idle, incoming idle detected. (STS-1, STS-3C, VT1.5 Near-End.)
INHPMREPT	Inhibit Performance Monitoring Report, PM report capability inhibited. (OC-3, OC-12, EC1, STS-1, STS-3C,

	VT1.5 Near-End.)
L2LCONFAIL	Layer 2 Line DCC Connection Failure. (OC-3, OC-12 Near-End.)
L2SCONFAIL	Layer 2 Section DCC Connection Failure. (OC-3, OC-12 Near-End.)
LDCCDLFL	Line DCC Data Link Failure. (OC-3, OC-12 Near-End.)
LOCKOUTOFPR	LockOut Of Protection facility. (OC-3, OC-12 Near-End.)
LOF	Loss Of Frame detected. (OC-3, OC-12, EC1 Near-End.)
LOP	Loss Of Pointer detected. (STS-1, STS-3C, VT1.5 Near-End.)
LOS	Loss Of Signal detected. (OC-3, OC-12, EC1 Near-End.)
MAN	Manual removal (logical removal was performed on the facility). (OC-3, OC-12, EC1, STS-1, STS-3C, VT1.5 Near-End.)
MANWKSWBK	Manual Working Switched Back, working facility was manually switched from protection to the main facility. (OC-3, OC-12, STS-1, VT1.5 Near-End.)
MANWKSWPR	Manual Working Switched to Protection, working facility was manually switched to the protection facility. (OC-3, OC-12, STS-1, VT1.5 Near-End.)
PDI	Incoming PDI signal detected (STS1)
RFI	Remote Failure Indication detected. (OC-3, OC-12, EC1, STS-1, STS-3C, VT1.5 Far-End.)
ROLLMON	Roll Monitoring, receive-side RTO port being monitored for valid signal. (VT1.5 Near-End.)
SDBER	Signal Degrade Bit Error Rate detected. (OC-3, OC-12, STS-1, VT1.5 Near-End.)
SDCCDLFL	Section DCC Data Link Failure. (OC-3, OC-12 Near-End.)
SLMF	Signal Label Match Failure detected. (STS-1, STS-3C, VT1.5 Near-End.)
WTR	Wait To Restore of protection facility. (OC-3, OC-12 Near-End.)
Restrictions:	RTRV-COND-ALL is denied if the specified CONDTYPE value is not supported for the specified LOCN value (e.g., CONDTYPE of RAI and LOCN of NEND is entered). RTRV-COND-ALL is denied if the DS1 CI/NI Trouble Sectionalization Premium Feature Option (PFO) is not enabled and an input value of AIS-CI, DS1ISD or RAI-CI is entered.

LOCN	{FEND, NEND}
Default:	< All location values applicable to the specified condition type >
Addressing:	None
Description:	Location, specifies the location where the condition type is monitored. Values are:
FEND	Far-End, events occurring at a distant network element.
NEND	Near-End, events occurring at the system.
Restrictions:	RTRV-COND-ALL is denied if the specified LOCN value is not supported for the specified CONDTYPE value (e.g., CONDTYPE of RAI and LOCN of NEND is entered).

DIRN	{NA, RCV, TRMT}	
	Default:	< All applicable directions >
	Addressing:	None
	Description:	Direction, specifies the direction of the condition type being monitored. The value for DIRN is verified, but does not affect the function of the RTRV-COND-ALL command.
	NA	Not Applicable
TMPER	RCV	Receive side
	TRMT	Transmit direction
	{15-MIN, 1-DAY}	
	Default:	{15-MIN}
	Addressing:	None
	Description:	Time Period. The value for TMPER is verified, but does not affect the function of the RTRV-COND-ALL command.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  ["<AID> [ , <AIDTYPE> ] : <NTFCNCDE> , <CONDTYPE> , <SRVEFF> ,
    <OCRDAT> , <OCRMT> , <LOCN> , , " ]
  ["<AID> , <AIDTYPE> : <NTFCNCDE> , <CONDTYPE> , <SRVEFF> , <OCRDAT> , <OCRMT> ,
<LOCN> , [ <TRMT> ] , " ]
  [ /* <Command Echo> [ <CTAG> ] ( <CID [-VCNUM] > ) */ ]
;
```

OUTPUT PARAMETERS

AID {COM}
EQUIPMENT_AID:
 {ACM-1-2-{3-7, 10-14}}
 {CDA-{4, 5, 10, 11, 16, 17, 22, 23, **102, 103**}-3-1}
 {CDB-{5}-{1, 3}-{1, 2}}
 CDB-{2-43,**104-111**,112-135,**136-141**}-{1, 3}-{1, 2}
 {SI36: CDB-{6-9, 12-15, 18-21, 24-43}-{1, 3}-{1-2},
 {SI48: CDB-{2-43,**104-111**,112-135,**136-141**}-{1, 3}-{1, 2}
 {CID-1-1-{1-12}}
 {CIM-1-2-{3-7, 10-14}}
 {CKB-{1-63, 101, **102-111**, 112-135, **136-141**}-{0}-{1-2}}
 {CPU-1-2-{1-2}}
 {DSB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2}}
 {DSI-{44-63}-{1-4}-{1-32}}
 {DSK-1-3-1,
 DSK-1-4-2}
 {EOB-{5}-{1, 3}-{1-5}}
 {SI48: EOB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2},
 EOC: EOB-{4-5, 10-11, 16-17, 22-23, **102, 103**}-1-{1-7, 9-15}}
 {SI48: EP3-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42,
 104-106,108-110, 136-141}-{1, 3}-{1-18},
 EP3-{9, 21, 35, 43, **107**}-3-{1-18},
 EP3-{15, 27, 31, 39, **111**}-1-{1-18}}
 {SI36: EP3-{6-8, 12-14}-{1, 3}-{1-14},
 EP3-9-3-{1-14},
 EP3-15-1-{1-14}}
 {SI48: ES1-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42,
 104-106,108-110,136-141}-{1, 3}-{1-18},
 ES1-{9, 21, 35, 43,**107**}-3-{1-18},
 ES1-{15, 27, 31, 39,**111**}-1-{1-18}}
 {SI36: ES1-{6-8, 12-14}-{1, 3}-{1-14},
 ES1-9-3-{1-14},
 ES1-15-1-{1-14}}
 {ESA-{44-63}-{1-4}-{1-2}}
 {FAN-{1, 101}-0-1},
 FAN-{2-63, **102-111**, 112-135, **136-141**}-{1-3}-1}
 {FUSE-{2-43, **102-111**, 112-135, **136-141**}-0-{1-2}}
 {G1EOB-{4, 5,10, 11, 16, 17, 22, 23, **102, 103**}-1-{1-7, 9-15}-{1-16},
 G1EOB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2}-{1-16},
 G1EOB-{5}-{1, 3}-{1-5}-{1-16}}
 {SI48:G1EP3-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42, **104-106, 108-110**}-
 {1, 3}-{1-18}-{1-2},
 G1EP3-{9, 21, 35, 43, **107**}-3-{1-18}-{1-2},
 G1EP3-{15, 27, 31, 39, **111**}-1-{1-18}-{1-2}}
 {SI36: G1EP3 - {6-8, 12-14} - {1, 3} - {1-14} - {1-2},
 G1EP3 - 9 - 3 - {1-14} - {1-2},
 G1EP3 - {15} - 1 - {1-14} - {1-2} }
 {SI48:G1ES1-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42, **104-106, 108-110**}-
 {1, 3}-{1-18}-{1-2},
 G1ES1-{9, 21, 35, 43, **107**}-3-{1-18}-{1-2},
 G1ES1-{15, 27, 31, 39, **111**}-1-{1-18}-{1-2}}
 {SI36: G1ES1 - {6-8, 12-14} - {1, 3} - {1-14} - {1-2},

G1ES1-9-3-{1-14}-{1-2},
 G1ES1-{15-1-{1-14}-{1-2}}
 {G1IOB-{6-8, 12-14}-{1, 3}-{1, 3, 5, 7}-{1-3, 5-7},
 G1IOB-9-3-{1, 3, 5, 7}-{1-3, 5-7},
 G1IOB-15-1-{1, 3, 5, 7}-{1-3, 5-7}}
 {G1IRPB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2}-{1-18}}
 {G1M16-{2-5, 10-11, 16-17, 22-23, **102-103**}-3-{1-16}-{1-16}}
 {G1M32-{4-5, 10-11, 16-17, 22-23, **102-103**}-3-{1-16}-{1-32},
 G1M32-{5}-{1, 3}-{1-3, 6-8}-{1-32}}
 {G1M40-{2-3}-{1, 3}-{1-16}-{1-32},
 G1M40-{5}-{1, 3}-{4, 5, 9, 10}-{1-32}}
 {G1MRPB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2}-{1-16}}
 {G1O1B-{6-9, 12-15, 18-21, 24-43, 112-135}-{1, 3}-{2-9, 11-18}-{1-2}}
 {G1O4M-{6-9, 12-15, 18-21, 24-43, 112-135}-{1, 3}-{2, 3, 11, 12}-{1-2}}
 {G1S3M-{6-9, 12-15, 18-21, 24-43, 112-135}-{1, 3}-{4-9, 13-18}-{1-2}}
 {G4EOB-{4-5, 10-11, 16-17, 22-23}-1-{1-7, 9-15}-{1-4},
 G4EOB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1, 2}-{1-4},
 G4EOB-{5}-{1, 3}-{1-5}-{1-4}}
 {G4IOB-{6-8, 12-14}-{1, 3}-{1, 3, 5, 7}-{1-2},
 G4IOB-9-3-{1, 3, 5, 7}-{1, 2},
 G4IOB-15-1-{1, 3, 5, 7}-{1-2}}
 {G4OXB-{44-63}-{1-4}-{1, 2}-1}
 {HMU-{44-53}-{1-4}-{1-8}}
 {ICM-1-2-{1, 2, 8, 9}}
 {IOB-{6-8, 12-14}-{1, 3}-{1, 3, 5, 7},
 IOB-9-3-{1, 3, 5, 7},
 IOB-15-1-{1, 3, 5, 7}}
 {IPB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2}}
 {IPU-{44-63}-{1-4}-{1-8}}
 {LMU-{44-53}-{1-4}-{1-32}}
 {LT1-1-1-{1-6}}
 {LT2-1-1-{1-6}}
 {LT4-1-1-{7-16}}
 {LT5-1-1-{2-6}}
 {LT8-1-1-{7-16}}
 {M16-{2-5, 10-11, 16-17, 22-23}-3-{1-16}}
 {M32-{4-5, 10-11, 16-17, 22-23, **102**, **103**}-3-{1-16},
 M32-{5}-{1, 3}-{1-3, 6-8}}
 {M40-{2-3}-{1, 3}-{1-16}}
 {M40-{5}-{1, 3}-{4, 5, 9, 10}}
 {MCB-{2,3}-3-1}
 {MCB-{5}-{1, 3}-{1}}
 {O1B-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{2-9, 11-18}}
 {O4M-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{2-3, 11-12}}
 {OPD-1-3-1,
 OPD-1-4-2}
 {OXB-{44-63}-{1-4}-{1-2}}
 {P39-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-3},
 P39-{4, 5, 10, 11, 16, 17, 22, 23, **102**, **103**}-1-{1-3},
 P39-{4, 5, 10, 11, 16, 17, 22, 23, **102**, **103**}-3-{1-4},
 P39-{5}-{1, 3}-{1-4}}
 {P56-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-5},
 P56-{2-3}-{1, 3}-{1-4},

P56 – {4, 5, 10, 11, 16, 17, 22, 23, **102, 103**} – 1,3 – {1–5},
 P56 – {5} – {1, 3} – {1–4}}
 {PDU – {2–43, **102–111**, 112–135, **136–141**} – 0–1}
 {PRT – {44–63} – {1–4} – {8, 16, 24, 32}}
 {PSF – 1 – {3, 4} – {1, 2},
 PSF – {44–63} – {1–4} – {1–2}}
 {PST – 1 – {3, 4} – {1–2}}
 {QUAD – {44–63} – {1–4} – {1–4}}
 {RDU – {44–63} – 0–1}
 {RPB – {6–9, 12–15, 18–21, 24–43, **104–111**, 112–135, **136–141**} – {1, 3} – {1–2}}
 {RSP – {1, 101} – 0–1}
 {S3M – {6–9, 12–15, 18–21, 24–43, **104–111**, 112–135, **136–141**} – {1, 3} – {4–9, 13–18}}
 {SBT – 1 – 2 – {1–4}}
 {SHELF – {4–43, 102–141} – {1, 3} – 1}
 {SHELF – {5} – {1, 3} – {1}}
 {SIO – 1 – 2 – {1–2, 8–9}}
 {SPB – {2–43, **102–111**, 112–135, **136–141**} – {1, 3} – {1–2}}
 {SPB – {5} – {1, 3} – {1, 2}}
 {SWI – {44–63} – {1–4} – {1–7, 9–15, 17–23, 25–31}}
 DS1_AID:
 {T1 – {1–59392}} (T1–DS1#)
 {T3T1 – {1–4800} – {1–28}} (T3T1–DS3#–DS1#)
 {EC1T1 – {1–3840} – {1–28}} (EC1T1–EC1/STS1/DS3#–DS1#)
 {EC1T1 – {1–3840} – {1–7} – {1–4}} (EC1T1–EC1/STS1#–VTGrp#–VT1/DS1#)
 {OC3T1 – {1–2240} – {1–3} – {1–28}} (OC3T1–OC3#–STS1/DS3#–DS1#)
 {OC3T1 – {1–2240} – {1–3} – {1–7} – {1–4}} (OC3T1–OC3#–STS1#–VTGrp#–VT1/DS1#)
 {OC12T1 – {1–560} – {1–4} – {1–3} – {1–28}} (OC12T1–OC12#–STM1#–STS1/DS3#–DS1#)
 {OC12T1 – {1–560} – {1–4} – {1–3} – {1–7} – {1–4}}
 (OC12T1–OC12#–STM1#–STS1#–VTGrp#–VT1/DS1#)
 TMG_AID:
 {TMG – {0, 1}}
 F3_AID:
 {T3F3 – {1–4800} – {1–14}} (T3F3–DS3#–Fractional_DS3#)
 DS3_AID:
 {T3 – {1–4800}} (T3–DS3#)
 {EC1T3 – {1–3840}} (EC1T3–EC1/STS1/DS3#)
 {OC3T3 – {1–2240} – {1–3}} (OC3T3–OC3#–STS1/DS3#)
 {OC12T3 – {1–560} – {1–4} – {1–3}} (OC12T3–OC12#–STM1#–STS1/DS3#)
 OC3_AID:
 {OC3 – {1–2240}} (OC3–OC3#)
 OC12_AID:
 {OC12 – {1–560}} (OC12–OC12#)
 EC1_AID:
 {EC1 – {1–3840}} (EC1–EC1/STS1#)
 STS1_AID:
 {EC1STS1 – {1–3840}} (EC1STS1–EC1/STS1#)
 {OC3STS1 – {1–2240} – {1–3}} (OC3STS1–OC3#–STS1#)
 {OC12STS1 – {1–560} – {1–4} – {1–3}} (OC12STS1–OC12#–STM1#–STS1#)
 STS3C_AID:
 {OC3STS3C – {1–2240}} (OC3STS3C–OC3#/STS3C#)
 {OC12STS3C – {1–560} – {1–4}} (OC12STS3C–OC12#–STM1/STS3C#)

VT1_AID:	
	{EC1VT1-{1-3840}-{1-7}-{1-4}} (EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)
	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}} (OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)
	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}} (OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)
Access Identifier, identifies the specific entity pertaining to the condition type being retrieved.	
AIDTYPE	{EC1, EQPT, F3, OC3, OC12, STS1, STS3C, T1, T3, VT1}
	AID Type, identifies the type of AID for the condition type being retrieved. Values are:
	EC1 EC1 AID being reported.
	EQPT Equipment AID being reported.
	F3 F3 AID being reported.
	OC3 OC3 AID being reported.
	OC12 OC12 AID being reported.
	STS1 STS-1 AID being reported.
	STS3C STS-3C AID being reported.
	T1 DS1 or TMG AID being reported.
	T3 DS3 AID being reported.
	VT1 VT1.5 AID being reported.
NTFCNCDE	{NA, NR}
	Notification Code, identifies the notification code generated by the system when the condition occurred. Values are:
	NA Not Alarmed
	NR Not Reported
CONDTYPE	EQUIPMENT_CONDTYPE:{ALMCKT, BKUPMEMP, BKUPMEMS, BPMISM, BPTERM, CARLOS, CD, CLKLCK0, CLKLCK1, CNTRLRFL, CONTBUS, CONTCOM, CONTR, CTNEQPT, DBF, DBFFT, DCCEQPT, DTLCKCPYFL, DUPMACADDR, DUPTARPENTRY, FA, FANEQPT, FWMISM, GT1, GT4, IMPROPRMVL, INHSWDX, INHSWPR, INHSWWKG, INIT, INTERR, LOCKOUT, LOTRI, MAN, MANWKSWPR, MISC-1, OSIPARMISM, PRCDRERR, PWR, RARFAIL, SWFTDWN, SYNCEQPT, TERM-EC1, TERM-OC3, TERM-OC12, TERM-T1, TERM-T3EC1, TSA, TSI, TSTEQPT, WKSWPR, XIDMISM}, COMMON_CONDTYPE:{DATAFLT, EUA, FRNGSYNC, FSTSYNC, GOS-EC1, GOS-OC12, GOS-OC3, GOS-STs1, GOS-STs3C, GOS-T1, GOS-T3, GOS-VT1, HLDovRSync, INHFL, INIT, ITMIP, MANSELDataCPY0, MANSELDataCPY1, MANSWTOPRI, MANSWTOSEC, PAINTGRT, RCVRY, SWTOPRI, SWTOSEC, UPGRD1344, UPGRD2688}, DS1_NEAR-END_CONDTYPE:{ACTLPBK, AIS, AIS-CI, ALWCBLPBK, EOC, INHPMREPT, LOF, LOS, MAN, RCVCBLPBK, ROLLMON, XMTCLPBK}, DS1_FAR-END_CONDTYPE:{RAI, RAI-CI}, TMG_NEAR-END_CONDTYPE:{AIS, LOF, LOS, SLTMSIG, SYNCPRI, SYNCSEC, SYNCSTATQUAL}, F3_CONDTYPE:{INHPMREPT}, DS3_NEAR-END_CONDTYPE:{1TO6LOF, 7LOF, ACTLPBK, AICMIS, AIS, FLTESC, INHPMREPT, ISD, LOF, LOS, MAN}, DS3_FAR-END_CONDTYPE:{AIS, DS2YEL, FEACEQPT, ISD, LOF, LOS, RAI}, OC3_NEAR-END_CONDTYPE:{ACTLPBK, AIS, DUPTARPENTRY, EBER, ESW, FRCDWKSWBK, FRCDWKSWPR, INHPMREPT, L2LCONFAL, L2SCONFAL, LDCCDLFL, LOCKOUTOFPR, LOF, LOS, MAN, MANWKSWBK, MANWKSWPR, SDBER, SDCCDLFL, WTR}, OC3_FAR-END_CONDTYPE:{RFI}, OC12_NEAR-END_CONDTYPE:{ACTLPBK, AIS, DUPTARPENTRY, EBER, ESW,

FRCDWKSWBK, FRCDWKSWPR, INHPMREPT, L2LCONFAL, L2SCONFAL,
LDCCDLFL, LOCKOUTOFPR, LOF, LOS, MAN, MANWKSWBK, MANWKSWPR,
SDBER, SDCCDLFL, WTR},
OC12_FAR-END_CONDTYPE:{RFI},
EC1_NEAR-END_CONDTYPE:{ACTLPBK, AIS, INHPMREPT, LOF, LOS, MAN},
EC1_FAR-END_CONDTYPE:{RFI},
STS1_NEAR-END_CONDTYPE:{ACTLPBK, AIS, EBER, FLTESC, FRCDWKSWBK,
FRCDWKSWPR, IDLE, INHPMREPT, LOP, MAN, MANWKSWBK,
MANWKSWPR, PDI, SDBER, SLMF},
STS1_FAR-END_CONDTYPE:{RFI},
STS3C_NEAR-END_CONDTYPE:{ACTLPBK, AIS, IDLE, INHPMREPT, LOP, MAN,
SLMF},
STS3C_FAR-END_CONDTYPE:{RFI},
VT1_NEAR-END_CONDTYPE:{ACTLPBK, AIS, EBER, FLTESC, FRCDWKSWBK,
FRCDWKSWPR, IDLE, INHPMREPT, LOP, MAN, MANWKSWBK,
MANWKSWPR, ROLLMON, SDBER, SLMF},
VT1_FAR-END_CONDTYPE:{RFI}

Condition Type, identifies the condition type being retrieved. (Refer to Appendix C for a list of all condition types.) Values are:

Output Values for EQUIPMENT CONDITION TYPES are:

ALMCKT	Alarm Circuit, RDU/RSP failure detected.
BKUPMEMP	Backup Memory—Primary, magnetic disk backup failure.
BKUPMEMS	Backup Memory—Secondary, optical disk/tape drive back-up failure.
BPMISM	Backplane Mismatch, mismatch between the provisioned shelf and the installed shelf backplane.
BPTERM	Backplane Termination failure detected in the SI48 I/O, EOC, End Stage, or Center Stage shelf.
CARLOS	Carrier Loss, loss of carrier event during IEEE 802.3 frame transmission on the LAN.
CD	Control and Display interface audit error detected.
CLKLCK0	Clock Lock 0, the clock path of the I/O, EOC, ES, and CS locked to clock bus 0.
CLKLCK1	Clock Lock 1, the clock path of the I/O, EOC, ES, and CS locked to clock bus 1.
CNTRLRFL	Controller Failure, LAPD or LAN controller failed set on the DSB.
CONTBUS	Control Bus, shelf control bus interface failure.
CONTCOM	Control Communication equipment failure.
CONTR	Control processor equipment failure.
CTNEQPT	Connection Equipment, facility/circuit interconnection equipment failure.
DBF	Database Backup Failure, OPD database backup failure detected (on second try).
DBFFT	Database Backup Failed on First Try, OPD database backup failure detected on first try.
DCCEQPT	Data Communication Channel Equipment, DCC Server Board failed.
DTLCKCPYFL	Data Lock Copy Fail, I/O modules in shelf/quad not locked to the copy specified.
DUPMACADDR	Duplicate MAC Address detected on the LAN.
DUPTARPENTRY	Duplicate TARP adjacency table.
FA	Fuse Alarm, a PDU/RDU/RSP circuit breaker or PDU fuse has failed.

FANEQPT	Fan Equipment, one or more of the fans in a fan assembly failed.
FWMISM	Firmware Mismatch, firmware version number does not match that in the system database.
GT1	GTI Cable fault for GTI cable carrying an STM1 signal.
GT4	GTI Cable fault for GTI cable carrying an STM4 signal.
IMPROPRMVL	Improper Removal, result of a physical circuit pack removal that was not preceded by a logical removal.
INHSWDX	Inhibit Switch Duplex, automatic copy switching of duplex equipment inhibited.
INHSWPR	Inhibit Switch to Protection, automatic protection switching of a main circuit pack to protection unit is inhibited.
INHSWWKG	Inhibit Switch To Working, automatic switching of a main circuit pack back to working (from protection) is inhibited.
INIT	Initialization, shelf initialization in-process.
INTERR	Internal Error, internal error suspected on equipment.
LOCKOUT	LockOut of automatic revertive switching due to excessive protection switching.
LOTRI	Loss of Offboard Timing Reference Input from mate Master Clock Board circuit pack.
MAN	Manual removal (logical removal was performed on a circuit pack).
MANWKSWPR	Manual Working Switched to Protection, main/working unit was manually switched to the protection unit.
MISC-1	Miscellaneous Class-1, slave MCB is not ready.
OSIPARMISM	OS Initialization Parameter Mismatch, upper layer parameters or lower layer parameters specific to the LAN or manual area addresses are mismatched between two redundant DSBs.
PRCDRERR	Procedure Error, installed equipment does not support the facility provisioning.
PWR	Power, internal power failure detected.
RARFAIL	Re-Arrangement Failed, cross-connect rearrangement through the matrix failed due to SPB communication problem.
SWFTDWN	Software Download is in process on a circuit pack.
SYNCEQPT	Synchronization Equipment failure detected.
TERM-EC1	Termination Equipment-EC1, ES1 circuit pack failure.
TERM-OC3	Termination equipment-OC3, O1B circuit pack failure.
TERM-OC12	Termination equipment-OC12, O4M circuit pack failure.
TERM-T1	Termination equipment-T1, DSI circuit pack failure.
TERM-T3EC1	Termination equipment-T3/EC1, EP3 circuit pack failure.
TSA	Test Session Active, maintenance test session is active on the equipment.
TSI	Time Slot Interchange equipment failure.
TSTEQPT	Test Equipment failure.
WKSWPR	Working Switched to Protection, main/working unit automatically switched to the protection unit.
XIDMISM	Connection ID Mismatch, internal Connection ID Mismatch detected in the I/O shelf/quad.
Output Values for COMMON CONDITION TYPES are:	
DATAFLT	Data integrity Fault, CRC error detected during a database read.
EUA	Emergency User Access activated.

FRNGSYNC	Free Running Synchronization, manual switch to free running clock reference synchronization mode.
FSTSYNC	Fast Acquisition Synchronization, manual or automatic switch to fast acquisition clock reference synchronization mode.
GOS-EC1	Grade of Service-EC1, system-wide EC1 GOS threshold reached.
GOS-OC12	Grade of Service-OC12, system-wide OC-12 GOS threshold reached.
GOS-OC3	Grade of Service-OC3, system-wide OC-3 GOS threshold reached.
GOS-ST51	Grade of Service-ST51, system-wide STS-1 GOS threshold reached.
GOS-ST53C	Grade of Service-ST53C, system-wide STS-3C GOS threshold reached.
GOS-T1	Grade of Service-T1, system-wide DS1 GOS threshold reached.
GOS-T3	Grade of Service-T3, system-wide DS3 GOS threshold reached.
GOS-VT1	Grade of Service-VT1, system-wide VT1.5 GOS threshold reached.
HLDOVRSYNC	Synchronization Holdover, manual or automatic switch to holdover clock reference synchronization mode.
INHFL	Inhibit Fault Locating, automatic system-wide fault isolation inhibited.
INIT	Initialization, system initialization in-process.
ITMIP	Installation Test and Maintenance (ITM) mode is set.
MANSELDATAOPY0	Manual Selection/Lock to Data Copy 0 due to execution of SELECT-COPY command.
MANSELDATAOPY1	Manual Selection/Lock to Data Copy 1 due to execution of SELECT-COPY command.
MANSWTOPRI	Manual Switch To Primary Synchronization Reference.
MANSWTOSEC	Manual Switch To Secondary Synchronization Reference.
PAINTGRT	Path Integrity Failure, a system-wide data or clock failure detected.
RCVRY	Recovery. The System level recovery has been executed.
SWTOPRI	Automatic Switch To Primary Synchronization Reference.
SWTOSEC	Automatic Switch To Secondary Synchronization Reference.
UPGRD1344	672 Port to 1344 Port Upgrade in Progress.
UPGRD2688	1344 Port to 2688 Port Upgrade in Progress.
Output Values for DS1, TMG, F3, and DS3 CONDITION TYPES are:	
1TO6LOF	One To Six Loss Of Frame, Incoming LOF detected on 1 to 6 DS2s embedded in the DS3.
7LOF	Seven Loss Of Frame, Incoming LOF detected on all 7 DS2s embedded in the DS3.
ACTLPBK	Active Loopback, the port is in loop back.
AICMIS	Application Identification Channel Mismatch, AIC mismatch detected.
AIS	Alarm Indication Signal, AIS detected.
AIS-CI	Remote Alarm Indication for Customer Installation detected.
ALWCBLPBK	Allow C-Bit Loopback.
DS1ISD	DS1 Idle Signal Detected, Incoming.

DS2YEL	DS2 Yellow (Remote Alarm Indication) detected on one of the DS2s embedded in the DS3.
EOC	Embedded Operations Channel, EOC failure detected.
FEACEQPT	Far-End Alarm & Control (FEAC) Equipment detected.
FLTESC	Facility Fault Escalation active.
INHMPREPT	Inhibit Performance Monitoring Report, PM report capability inhibited.
ISD	Idle Signal Detected.
LOF	Loss Of Frame detected.
LOS	Loss Of Signal detected.
MAN	Manual removal (logical removal was performed on the facility).
RAI	Remote Alarm Indication detected.
RAI-CI	Remote Alarm Indication for Customer Installation detected.
RCVCBLPBK	Receive (DS1) C-Bit Loopback.
ROLLMON	Roll Monitoring, receive-side RTO port being monitored for valid signal.
SLTMSIG	Slipping Timing Reference Signal detected.
SYNCPRI	Primary Reference Synchronization failure.
SYNCSEC	Secondary Reference Synchronization failure.
SYNCSTATQUAL	Synchronization Status Quality.
XMTCBLPBK	Transmit (DS1) C-Bit Loopback.
Output Values for OC-3, OC-12, EC1, STS-1, STS-3C, and VT1.5 CONDITION TYPES are:	
ACTLPBK	Active Loopback, the port is in loop back.
AIS	Alarm Indication Signal, AIS detected.
DUPTARPENTRY	Duplicate TARP adjacency table.
EBER	Excessive Bit Error Rate detected.
ESW	Excessive Switching, lockout of automatic revertive (OC-3, OC-12) switching due to excessive switching.
FLTESC	Facility Fault Escalation active.
FRCDWKSWBK	Forced Working Switched Back, working facility was manually force switched from protection to the main facility.
FRCDWKSWPR	Forced Working Switched to Protection, working facility was manually force switched to the protection facility.
IDLE	Idle, incoming idle detected.
INHMPREPT	Inhibit Performance Monitoring Report, PM report capability inhibited.
L2LCONFAIL	Layer 2 Line DCC Connection Failure.
L2SCONFAIL	Layer 2 Section DCC Connection Failure.
LDCCDLFL	Line DCC Data Link Failure.
LOCKOUTOFPR	LockOut Of Protection facility.
LOF	Loss Of Frame detected.
LOP	Loss Of Pointer detected.
LOS	Loss Of Signal detected.
MAN	Manual removal (logical removal was performed on the facility).
MANWKSWBK	Manual Working Switched Back, working facility was manually switched from protection to the main facility.
MANWKSWPR	Manual Working Switched to Protection, working facility was manually switched to the protection facility.

	PDI	Incoming PDI signal detected.
	RFI	Remote Failure Indication detected.
	ROLLMON	Roll Monitoring, receive-side RTO port being monitored for valid signal.
	SDBER	Signal Degrade Bit Error Rate detected.
	SDCCDLFL	Section DCC Data Link Failure.
	SLMF	Signal Label Match Failure detected.
	WTR	Wait To Restore of protection facility.
SRVEFF	{NSA, SA}	Service Effect, identifies the service effect of the condition type and notification code being retrieved. Values are:
	NSA	Non-Service Affecting
	SA	Service Affecting
OCRDAT	{MONTH-DAY:{01-12} - {01-31} }	Occurrence Date, identifies the date when the condition occurred. The format of OCRDAT is <MONTH_OF_YEAR> - <DAY_OF_MONTH>.
OCRTM	{HOUR-MINUTE-SECOND:{00-23} - {00-59} - {00-59} }	Occurrence Time, identifies the time when the condition occurred. The format of OCRTM is <HOUR_OF_DAY> - <MINUTE_OF_HOUR> -<SECOND_OF_MINUTE>.
LOCN	{FEND, NEND}	Location, identifies the location where the condition type is monitored. Values are:
	FEND	Far-End, events occurring at a distant network element.
	NEND	Near-End, events occurring at the system. (A value of NEND is always reported for equipment or common condition types.)
DIRN	{TRMT, <NoVal>}	Direction, identifies the direction of the condition type being monitored. Values are:
	TRMT	Transmit Direction, value returned for CONDTYPE of FLTESC.
	<NoVal>	No Value (null) returned for all conditions other than FLTESC.

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

```

EFON    Equipage, Feature Option Not provided
IDNC    Input, Data Not Consistent
        /*Location is not consistent with <CONDITION TYPE STRING>.*//

```

IDNV	Input, Data Not Valid /* Invalid notification code specified: <NOTIFICATION CODE STRING>. */ /* Invalid service effect specified: <SERVICE EFFECT STRING>. */ /* Invalid location specified: <LOCATION STRING>. */ /* Invalid condition type specified: <CONDITION TYPE STRING>. */ /* Condition type is not MISC but has a -#: <CONDITION TYPE STRING>. */ /* Condition type is MISC but has no -#. */ /* Condition type is TERM but - <STRING> is not valid. */ /* Condition type is GOS but -<STRING> is not valid. */ /* Invalid parameter specified. */
IIAC	Input, Invalid ACcess identifier /* AID for RTRV-COND-ALL command must be ALL. */
SROF	Status, Requested Operation Failed /* Cannot open <FILENAME>. */ /* rpt_file error - <ERRNO>, status = <STATUS>. */ /* nrl_rpt_print error - no transaction, msgtype = <MSGTYPE>. */ /* rpt_print error - <ERRNO>, status = <STATUS>. */

EXAMPLES

In the following example, all existing non-alarmed or not-reported standing conditions in the system are retrieved.

```
RTRV-COND-ALL: :ALL;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated a CTAG value of P71066. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```

<SID> <YY-MM-DD> <HH:MM:SS>
M P71066 COMPLD
"OPD-1-3-1,EQPT:NA,DBFFT,NSA,07-01,07-30-28,NEND,, "
"EP3-9-3-3,EQPT:NA,INHWP,NSA,07-02,16-12-33,NEND,, "
"COM:NA,SWTOSEC,NSA,07-02,10-05-16,NEND,, "
"T3T1-963-4,T1:NA,ACTLPBK,NSA,07-02,07-30-28,NEND,, "
"T3T1-1108-10,T1:NR,AIS,NSA,07-02,08-44-30,NEND,, "
"T3-1155,T3:NA,INHMPREPT,NSA,07-02,09-05-12,FEND,, "
"T3-1305,T3:NA,AIS,NSA,07-02,05-15-34,NEND,, "
/* RTRV-COND-ALL: :ALL [P71066] (2) */
;

```

RELATED COMMANDS

```

CLR-ALM-EQPT
RTRV-ALM-ALL
RTRV-ALM-COM
RTRV-ALM-EC1
RTRV-ALM-EQPT
RTRV-ALM-F3
RTRV-ALM-OC3
RTRV-ALM-OC12
RTRV-ALM-ST51
RTRV-ALM-ST53C
RTRV-ALM-T1
RTRV-ALM-T3
RTRV-ALM-VT1
RTRV-ATTR-COM
RTRV-ATTR-EC1

```

RTRV-ATTR-EQPT
RTRV-ATTR-F3
RTRV-ATTR-OC3
RTRV-ATTR-OC12
RTRV-ATTR-STS1
RTRV-ATTR-STS3C
RTRV-ATTR-T1
RTRV-ATTR-T3
RTRV-ATTR-VT1
RTRV-COND-COM
RTRV-COND-EC1
RTRV-COND-EQPT
RTRV-COND-F3
RTRV-COND-OC3
RTRV-COND-OC12
RTRV-COND-STS1
RTRV-COND-STS3C
RTRV-COND-T1
RTRV-COND-T3
RTRV-COND-VT1
RTRV-GTI-STATUS
RTRV-PFO
RTRV-XIDMISM
SET-ATTR-COM
SET-ATTR-EC1
SET-ATTR-EQPT
SET-ATTR-F3
SET-ATTR-OC3
SET-ATTR-OC12
SET-ATTR-STS1
SET-ATTR-STS3C
SET-ATTR-T1
SET-ATTR-T3
SET-ATTR-VT1

RELATED AUTONOMOUS RESPONSES

REPT^EVT^COM
REPT^EVT^EC1
REPT^EVT^EQPT
REPT^EVT^F3
REPT^EVT^OC3
REPT^EVT^OC12
REPT^EVT^STS1
REPT^EVT^STS3C
REPT^EVT^T1
REPT^EVT^T3
REPT^EVT^VT1

COMMAND CODE: **RTRV-COND-COM**
COMMAND NAME: **RETRIEVE CONDITION COMMON**

PURPOSE

The RTRV-COND-COM command retrieves the current status of any existing non-alarmed or not-reported standing common (no specific entity) conditions for the specified condition type.

The successful response for a RTRV-COND-COM command contains one line of parsable output data, in ascending order by date and time of occurrence, for each non-alarmed or not-reported standing condition being reported.

If there are no existing non-alarmed or not-reported standing conditions for the specified condition type, then the command is completed with no line of parsable output data provided.

A RTRV-COND-COM command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-COND-COM: [TID] : [AID] : [CTAG] : : [CONDTYPE] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	{COM} Default: {COM} Addressing: None Description: Common AID, used when a specific AID is not identified.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
CONDTYPE	{DATAFLT, EUA, FRNGSYNC, FSTSYNC, GOS-EC1, GOS-OC12, GOS-OC3, GOS-ST51, GOS-ST53C, GOS-T1, GOS-T3, GOS-VT1, HLDVRSYNC, INHFL, INIT, ITMIP, MANSELDATACPY0, MANSELDATACPY1, MANSWTOPRI, MANSWTOSEC, PAINTGRT, RCVRY, SWTOPRI, SWTOSEC, UPGRD1344, UPGRD2688} Default: < All applicable condition types listed above > Addressing: None Description: Condition Type, specifies the condition type to be retrieved. (Refer to Appendix C for a list of all condition types.) Values are: DATAFLT Data integrity Fault, CRC error detected during a database read.

EUA	Emergency User Access activated.
FRNGSYNC	Free Running Synchronization, manual switch to free running clock reference synchronization mode.
FSTSYNC	Fast Acquisition Synchronization, manual or automatic switch to fast acquisition clock reference synchronization mode.
GOS-EC1	Grade of Service-EC1, system-wide EC1 GOS threshold reached.
GOS-OC12	Grade of Service-OC12, system-wide OC-12 GOS threshold reached.
GOS-OC3	Grade of Service-OC3, system-wide OC-3 GOS threshold reached.
GOS-ST1	Grade of Service-ST1, system-wide STS-1 GOS threshold reached.
GOS-ST3C	Grade of Service-ST3C, system-wide STS-3C GOS threshold reached.
GOS-T1	Grade of Service-T1, system-wide DS1 GOS threshold reached.
GOS-T3	Grade of Service-T3, system-wide DS3 GOS threshold reached.
GOS-VT1	Grade of Service-VT1, system-wide VT1.5 GOS threshold reached.
HLDOVRSYNC	Synchronization Holdover, manual or automatic switch to holdover clock reference synchronization mode.
INHFL	Inhibit Fault Locating, automatic system-wide fault isolation inhibited.
INIT	Initialization, system initialization in-process.
ITMIP	Installation Test and Maintenance (ITM) mode is set.
MANSELDATAOPY0	Manual Selection/Lock to Data Copy 0 due to execution of SELECT-COPY command.
MANSELDATAOPY1	Manual Selection/Lock to Data Copy 1 due to execution of SELECT-COPY command.
MANSWTOPRI	Manual Switch To Primary Synchronization Reference.
MANSWTOSEC	Manual Switch To Secondary Synchronization Reference.
PAINTGRT	Path Integrity Failure, a system-wide data or clock failure detected.
RCVRY	Recovery. The System level recovery has been executed.
SWTOPRI	Automatic Switch To Primary Synchronization Reference.
SWTOSEC	Automatic Switch To Secondary Synchronization Reference.
UPGRD1344	672 Port to 1344 Port Upgrade in Progress.
UPGRD2688	1344 Port to 2688 Port Upgrade in Progress.

SUCCESSFUL RESPONSE FORMAT

If matching conditions are found, the following response is sent:

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  ["COM:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,<OCRDAT>,<OCRTM>,<LOCN>,, "]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

NTFCNCDE	{NA, NR}	Notification Code, identifies the notification code generated by the system when the condition occurred. Values are:
	NA	Not Alarmed
	NR	Not Reported
CONDTYPE	{DATAFLT, EUA, FRNGSYNC, FSTSYNC, GOS-EC1, GOS-OC12, GOS-OC3, GOS-ST1, GOS-ST3C, GOS-T1, GOS-T3, GOS-VT1, HLDOVRSYNC, INHFL, INIT, ITMIP, MANSELDATAOPY0, MANSELDATAOPY1, MANSWTOPRI, MANSWTOSEC, PAINTGRT, RCVRY, SWTOPRI, SWTOSEC, UPGRD1344, UPGRD2688}	Condition Type, identifies the condition type being retrieved. (Refer to Appendix C for a list of all condition types.) Values are:
	DATAFLT	Data integrity Fault, CRC error detected during a database read.
	EUA	Emergency User Access activated.
	FRNGSYNC	Free Running Synchronization, manual switch to free running clock reference synchronization mode.
	FSTSYNC	Fast Acquisition Synchronization, manual or automatic switch to fast acquisition clock reference synchronization mode.
	GOS-EC1	Grade of Service-EC1, system-wide EC1 GOS threshold reached.
	GOS-OC12	Grade of Service-OC12, system-wide OC-12 GOS threshold reached.
	GOS-OC3	Grade of Service-OC3, system-wide OC-3 GOS threshold reached.
	GOS-ST1	Grade of Service-ST1, system-wide STS-1 GOS threshold reached.
	GOS-ST3C	Grade of Service-ST3C, system-wide STS-3C GOS threshold reached.
	GOS-T1	Grade of Service-T1, system-wide DS1 GOS threshold reached.
	GOS-T3	Grade of Service-T3, system-wide DS3 GOS threshold reached.
	GOS-VT1	Grade of Service-VT1, system-wide VT1.5 GOS threshold reached.
	HLDOVRSYNC	Synchronization Holdover, manual or automatic switch to holdover clock reference synchronization mode.
	INHFL	Inhibit Fault Locating, automatic system-wide fault isolation inhibited.
	INIT	Initialization, system initialization in-process.
	ITMIP	Installation Test and Maintenance (ITM) mode is set.
	MANSELDATAOPY0	Manual Selection/Lock to Data Copy 0 due to execution of

	MANSELDATACPY1	SELECT-COPY command. Manual Selection/Lock to Data Copy 1 due to execution of SELECT-COPY command.
	MANSWTOPRI	Manual Switch To Primary Synchronization Reference.
	MANSWTOSEC	Manual Switch To Secondary Synchronization Reference.
	PAINTGRT	Path Integrity Failure, a system-wide data or clock failure detected.
	RCVRY	Recovery. The System level recovery has been executed. The user must issue INIT-SYS command.
	SWTOPRI	Automatic Switch To Primary Synchronization Reference.
	SWTOSEC	Automatic Switch To Secondary Synchronization Reference.
	UPGRD1344	672 Port to 1344 Port Upgrade in Progress.
	UPGRD2688	1344 Port to 2688 Port Upgrade in Progress.
SRVEFF	{NSA, SA}	Service Effect, identifies the service effect of the condition type and notification code being retrieved. Values are: NSA Non-Service Affecting SA Service Affecting
OCRDAT	{MONTH-DAY:{01-12} - {01-31} }	Occurrence Date, identifies the date when the condition occurred. The format of OCRDAT is <MONTH_OF_YEAR> - <DAY_OF_MONTH>.
OCRTM	{HOUR-MINUTE-SECOND:{00-23} - {00-59} - {00-59} }	Occurrence Time, identifies the time when the condition occurred. The format of OCRTM is <HOUR_OF_DAY> - <MINUTE_OF_HOUR> -<SECOND_OF_MINUTE>.
LOCN	{NEND}	Location, identifies the location where the condition type is monitored. A value of NEND (Near-End) is always reported.

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

```

IDNV      Input, Data Not Valid
          /* Invalid notification code specified: <NOTIFICATION CODE STRING>. */
          /* Invalid service effect specified: <SERVICE EFFECT STRING>. */
          /* Invalid condition type specified: <CONDITION TYPE STRING>. */
          /* Condition type not valid for: COM. */
          /* Condition type is GOS but -<STRING> is not valid. */
          /* Invalid parameter specified. */
IIAC      Input, Invalid ACcess identifier
          /* AID must be COM. */

```

SROF Status, Requested Operation Failed
 /* Cannot open <FILENAME>. */
 /* rpt_file error – <ERRNO>, status = <STATUS>. */
 /* nrl_rpt_print error – no transaction, msgtype = <MSGTYPE>. */
 /* rpt_print error – <ERRNO>, status = <STATUS>. */

EXAMPLES

In the following example, any existing SWTOSEC non–alarmed or not–reported condition is retrieved.

```
RTRV-COND-COM: : : : SWTOSEC;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of P71052. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M P71052 COMPLD  
"COM:NA,SWTOSEC,NSA,07-02,09-30-28,NEND,, "  
/* RTRV-COND-COM: : : : SWTOSEC [P71052] (2) */  
;
```

RELATED COMMANDS

RTRV-ALM-ALL
RTRV-ALM-COM
RTRV-ATTR-COM
RTRV-COND-ALL
SET-ATTR-COM

RELATED AUTONOMOUS RESPONSES

REPT^EVT^COM

COMMAND CODE: **RTRV-COND-EC1**
COMMAND NAME: **RETRIEVE CONDITION EC1**

PURPOSE

The RTRV-COND-EC1 command retrieves the current status of any existing non-alarmed or not-reported standing conditions for the specified EC1 port, or for the specified EC1 port and any matching combination of a specified condition type and location (i.e., the CONDTYPE and LOCN parameters provide a filter for retrieving existing conditions satisfying the specified input parameters). The command is completed regardless of whether the EC1 port is provisioned.

The successful response for a RTRV-COND-EC1 command contains one line of parsable output data, in ascending order by port number and ascending order by date and time of occurrence within each port number, for each non-alarmed or not-reported standing condition being reported. If an AID of ALL is entered, all AIDs with an existing non-alarmed or not-reported standing condition are reported.

If there are no existing non-alarmed or not-reported standing conditions with attributes matching the specified (valid) combination of AID, condition type, and location, then the command is completed with no line of parsable output data provided in the response message.

A RTRV-COND-EC1 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-COND-EC1 : [TID] : AID : [CTAG] : : [CONDTYPE] , [LOCN] , [DIRN] , [TMPER] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	EC1_AID: {EC1-{1-3840} } (EC1-EC1/STS1#) ALL_AID: {ALL} Default: Entry Required Addressing: &&-ranging and &-grouping Description: EC1 AID, identifies the EC1 port. Name-defined values are: ALL All provisioned EC1 ports in the system.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

CONDTYPE	NEAR-END_CONDDTYPE:{ACTLPBK, AIS, INHPMREPT, LOF, LOS, MAN}, FAR-END_CONDDTYPE:{RFI} Default: < All applicable condition types listed above > Addressing: None Description: Condition Type, specifies the condition type to be retrieved. (Refer to Appendix C for a list of all condition types.) Values are: <table> <tr> <td>ACTLPBK</td><td>Active Loopback, the EC1 port is in loop back. (Near-End only.)</td></tr> <tr> <td>AIS</td><td>Alarm Indication Signal, AIS detected. (Near-End only.)</td></tr> <tr> <td>INHPMREPT</td><td>Inhibit Performance Monitoring Report, PM report capability Inhibited. (Near-End only.)</td></tr> <tr> <td>LOF</td><td>Loss Of Frame detected. (Near-End only.)</td></tr> <tr> <td>LOS</td><td>Loss Of Signal detected. (Near-End only.)</td></tr> <tr> <td>MAN</td><td>Manual removal (logical removal was performed on the facility). (Near-End only.)</td></tr> <tr> <td>RFI</td><td>Remote Failure Indication detected. (Far-End only.)</td></tr> </table> Restrictions: RTRV-COND-EC1 is denied if the specified CONDDTYPE value is not supported for the specified LOCN value (e.g., CONDDTYPE of AIS and LOCN of FEND is entered).	ACTLPBK	Active Loopback, the EC1 port is in loop back. (Near-End only.)	AIS	Alarm Indication Signal, AIS detected. (Near-End only.)	INHPMREPT	Inhibit Performance Monitoring Report, PM report capability Inhibited. (Near-End only.)	LOF	Loss Of Frame detected. (Near-End only.)	LOS	Loss Of Signal detected. (Near-End only.)	MAN	Manual removal (logical removal was performed on the facility). (Near-End only.)	RFI	Remote Failure Indication detected. (Far-End only.)
ACTLPBK	Active Loopback, the EC1 port is in loop back. (Near-End only.)														
AIS	Alarm Indication Signal, AIS detected. (Near-End only.)														
INHPMREPT	Inhibit Performance Monitoring Report, PM report capability Inhibited. (Near-End only.)														
LOF	Loss Of Frame detected. (Near-End only.)														
LOS	Loss Of Signal detected. (Near-End only.)														
MAN	Manual removal (logical removal was performed on the facility). (Near-End only.)														
RFI	Remote Failure Indication detected. (Far-End only.)														
LOCN	{FEND, NEND} Default: < All location values applicable to the specified condition type > Addressing: None Description: Location, specifies the location where the condition type is monitored. Values are: <table> <tr> <td>FEND</td><td>Far-End, events occurring at a distant network element.</td></tr> <tr> <td>NEND</td><td>Near-End, events occurring at the system.</td></tr> </table> Restrictions: RTRV-COND-EC1 is denied if the specified LOCN value is not supported for the specified CONDDTYPE value (e.g., CONDDTYPE of AIS and LOCN of FEND is entered).	FEND	Far-End, events occurring at a distant network element.	NEND	Near-End, events occurring at the system.										
FEND	Far-End, events occurring at a distant network element.														
NEND	Near-End, events occurring at the system.														
DIRN	{NA, RCV, TRMT} Default: < All applicable directions > Addressing: None Description: Direction, specifies the direction of the condition type being monitored. The value for DIRN is verified, but does not affect the function of the RTRV-COND-EC1 command. <table> <tr> <td>NA</td><td>Not Applicable</td></tr> <tr> <td>RCV</td><td>Receive side</td></tr> <tr> <td>TRMT</td><td>Transmit direction</td></tr> </table>	NA	Not Applicable	RCV	Receive side	TRMT	Transmit direction								
NA	Not Applicable														
RCV	Receive side														
TRMT	Transmit direction														
TMPER	{15-MIN, 1-DAY} Default: {15-MIN} Addressing: None Description: Time Period. The value for TMPER is verified, but does not affect the function of the RTRV-COND-EC1 command.														

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  ["<AID>,EC1:<NTFCNCDE>,<CONDDTYPE>,<SRVEFF>,<OCRDAT>,<OCRTM>,<LOCN>,, "]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

OUTPUT PARAMETERS

AID	EC1_AID: {EC1-{1-3840} } EC1 AID, identifies the EC1 port.	(EC1-EC1/STS1#)
-----	--	-----------------

NTFCNCDE	{NA, NR} Notification Code, identifies the notification code generated by the system when the condition occurred. Values are: NA Not Alarmed NR Not Reported
CONDTYPE	NEAR-END_CONDTYPE:{ACTLPBK, AIS, INHPMREPT, LOF, LOS, MAN}, FAR-END_CONDTYPE:{RFI} Condition Type, identifies the condition type being retrieved. (Refer to Appendix C for a list of all condition types.) Values are: ACTLPBK Active Loopback, the EC1 port is in loop back. AIS Alarm Indication Signal, AIS detected. INHPMREPT Inhibit Performance Monitoring Report, PM report capability Inhibited. LOF Loss Of Frame detected. LOS Loss Of Signal detected. MAN Manual removal (logical removal was performed on the facility). RFI Remote Failure Indication detected.
SRVEFF	{NSA, SA} Service Effect, identifies the service effect of the condition type and notification code being retrieved. Values are: NSA Non-Service Affecting SA Service Affecting
OCRDAT	{MONTH-DAY:{01-12} - {01-31} } Occurrence Date, identifies the date when the condition occurred. The format of OCRDAT is <MONTH_OF_YEAR> - <DAY_OF_MONTH>.
OCRTM	{HOUR-MINUTE-SECOND:{00-23} - {00-59} - {00-59} } Occurrence Time, identifies the time when the condition occurred. The format of OCRTM is <HOUR_OF_DAY> - <MINUTE_OF_HOUR> -<SECOND_OF_MINUTE>.
LOCN	{FEND, NEND} Location, identifies the location where the condition type is monitored. Values are: FEND Far-End, events occurring at a distant network element. NEND Near-End, events occurring at the system.

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent /* Condition type is not consistent with <FACILITY TYPE STRING>. */ /* Location is not consistent with <FACILITY TYPE STRING> <CONDITION TYPE STRING>. */
IDNV	Input, Data Not Valid /* Invalid notification code specified: <NOTIFICATION CODE STRING>. */ /* Invalid service effect specified: <SERVICE EFFECT STRING>. */ /* Invalid location specified: <LOCATION STRING>. */ /* Invalid condition type specified: <CONDITION TYPE STRING>. */ /* Invalid parameter specified. */
IIAC	Input, Invalid ACcess identifier /* Invalid Access ID specified. */
SROF	Status, Requested Operation Failed /* Cannot open <FILENAME>. */ /* rpt_file error – <ERRNO>, status = <STATUS>. */ /* nrl_rpt_print error – no transaction, msgtype = <MSGTYPE>. */ /* rpt_print error – <ERRNO>, status = <STATUS>. */

EXAMPLES

In the following example, all existing non-alarmed or not-reported standing conditions for EC1 port EC1-337 through EC1-338 are retrieved.

```
RTRV-COND-EC1: : EC1-337&&-338;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated a CTAG value of P71066. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P71066 COMPLD
"EC1-337, EC1:MN, LOF, NSA, 07-02, 08-44-30, NEND, ,"
"EC1-337, EC1:NA, INHPMREPT, NSA, 07-02, 09-05-12, NEND, ,"
"EC1-337, EC1:NA, MAN, NSA, 07-02, 09-25-42, NEND, ,"
"EC1-338, EC1:NA, INHPMREPT, NSA, 07-02, 11-42-18, NEND, ,"
/* RTRV-COND-EC1: : EC1-337&&-338 [P71066] (2) */
;
```

RELATED COMMANDS

```
RTRV-ALM-ALL
RTRV-ALM-EC1
RTRV-ATTR-EC1
RTRV-COND-ALL
RTRV-DFLTATTR-EC1
SET-ATTR-EC1
SET-DFLTATTR-EC1
```

RELATED AUTONOMOUS RESPONSES

```
REPT^EVT^EC1
```


COMMAND CODE: **RTRV-COND-EQPT**
COMMAND NAME: **RETRIEVE CONDITION EQUIPMENT**

PURPOSE

The RTRV-COND-EQPT command retrieves the current status of any existing non-alarmed or not-reported standing conditions for the specified equipment AID, or for any matching combination of a specified equipment AID and condition type. The command is completed regardless of whether the equipment entity is provisioned.

The successful response for a RTRV-COND-EQPT command contains one line of parsable output data, in ascending order by date and time of occurrence, for each non-alarmed or not-reported standing condition being reported. If an AID of ALL is entered, a line of output is provided for each AID with an existing non-alarmed or not-reported standing condition.

If there are no existing non-alarmed or not-reported standing conditions matching the specified (valid) combination of AID and condition type, then the command is completed with no line of parsable output data provided.

A RTRV-COND-EQPT command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-COND-EQPT : [TID] : AID : [CTAG] : : [CONDTYPE] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	{ACM, ALL, CDA, CDB, CID, CIM, CKB, CPU, DSB, DSI, DSK, EOB, EP3, ES1, ESA, FAN, FUSE, G1EOB, G1EP3, G1ES1, G1IOB, G1IRPB, G1M16, G1M32, G1M40, G1MRPB, G1O1B, G1O4M, G1S3M, G4EOB, G4IOB, G4OXB, HMU, ICM, IOB, IPB, IPU, LMU, LT1, LT2, LT4, LT5, LT8, M16, M32, M40, MCB, O1B, O4M, OPD, OXB, P39, P56, PDU, PRT, PSF, PST, QUAD, RDU, RPB, RSP, S3M, SBT, SHELF, SIO, SPB, SWI} Default: Entry Required Addressing: None Description: Equipment AID, identifies the equipment entities. Values are: ACM All Administrative Communications Module circuit packs. ALL All applicable AIDs pertaining to the specified CONDTYPE. CDA All Clock Distribution A circuit packs. CDB All Clock Distribution B circuit packs. CID All Communications Interface Devices (VDT, TTY, PRN). CIM All Communications Interface Module circuit packs. CKB All Circuit Breakers, circuit breakers in the PDU/RDU/RSP. CPU All Central Processing Unit circuit packs. DSB All DCC Server Boards. DSI All DS1 Input/Output circuit packs. DSK All Disk Drives. EOB All Electrical to Optical Board circuit packs. EP3 All Electrical Plesiochronous DS3/STS1 Interface circuit packs. ES1 All Electrical Plesiochronous STS1 Interface circuit packs. ESA All External DS1 Signal Adapter circuit packs. FAN All Fan/Blower assemblies. FUSE All Fuses, PDU fuses.

G1EOB	All GTI cables carrying an STM1 signal and terminating on an EOB.
G1EP3	All GTI cables carrying an STM1 signal and terminating on an EP3.
G1ES1	All GTI cables carrying an STM1 signal and terminating on an ES1.
G1IOB	All GTI cables coming into IOB module and carrying STM–1 signal.
G1IRPB	All GTI cables carrying an STM1 signal and terminating on the I/O side of the RPB circuit pack.
G1M16	All GTI cables carrying an STM1 signal and terminating on a M16.
G1M32	All GTI cables carrying an STM1 signal and terminating on a M32.
G1M40	All GTI cables carrying an STM1 signal and terminating on a M40.
G1MRPB	All GTI cables carrying an STM1 signal and terminating on the matrix side of the RPB circuit pack.
G1O1B	All GTI cables carrying an STM1 signal and terminating on an O1B.
G1O4M	All GTI cables carrying an STM1 signal and terminating on an O4M.
G1S3M	All GTI cables carrying an STM1 signal and terminating on an S3M.
G4EOB	All GTI cables carrying an STM4 signal and terminating on an EOB.
G4IOB	All GTI cables coming into IOB module and carrying STM–4 signal.
G4OXB	All GTI cables carrying an STM4 signal and terminating on an OXB.
HMU	All High Speed Muldem Unit (M23 multiplexing) circuit packs.
ICM	All Intelligent Communications Module circuit packs.
IOB	Inter–rack Optics Board
IPB	All Internal Protection Board circuit packs.
IPU	All Interface Processing Unit circuit packs.
LMU	All Low Speed Muldem Unit (M12 multiplexing) circuit packs.
LT1	All Level 1 Translator (RS–232) circuit packs.
LT2	All Level 2 Translator (RS–449/422) circuit packs.
LT4	All Level 4 Translator (ACL) circuit packs.
LT5	All Level 5 Translator (RS449/423 & LAN) circuit packs.
LT8	All Level 8 Translator (ACL) circuit packs.
M16	All Matrix End/Center Stage 16 circuit packs.
M32	All Matrix End Stage 32 circuit packs.
M40	All Matrix End/Center Stage 40 circuit packs.
MCB	All Master Clock Board circuit packs.
O1B	All OC3 Module (STM1) Board circuit packs.
O4M	All OC12 Module (STM4) Board circuit packs.
OPD	All Optical Disk Drives.
OXB	All Optical Transceiver Board circuit packs.
P39	All Power Supply, 3.9V circuit packs.
P56	All Power Supply, 5.6V circuit packs.
PDU	All Power Distribution Units.
PRT	All DS1 Protect circuit packs.
PSF	All Power Supply, 5V circuit packs.
PST	All Power Supply, 12V circuit packs.
QUAD	All DS1 Shelf Quadrants.
RDU	All Rack Distribution Units.
RPB	All Ring Protection Board circuit packs.
RSP	All Rack Status Panels.
S3M	All STS3C Module circuit packs.
SBT	All System Bus Termination circuit packs.
SHELF	All I/O, EOC, End Stage, or Center Stage Shelves.
SIO	All Serial Input/Output circuit packs.
SPB	All Satellite Processor Board circuit packs.
SWI	All DS1 Switch circuit packs.

Restrictions: RTRV-COND-EQPT is denied if the specified AID is not valid for the specified CONDTYPE. (Refer to Appendix C and CONDTYPE below.)
RTRV-COND-EQPT is denied for a 240-port LMC system if an AID of CDA is entered.

CTAG < 1-6 VALID CTAG CHARACTERS >
Default: < System assigned CTAG value >
Addressing: None
Description: Correlation Tag, associates input command with its output responses.

CONDTYPE {ALMCKT, BKUPMEMP, BKUPMEMS, BPMISM, BPTERM, CARLOS, CD, CLKLCK0, CLKLCK1, CNTRLRFL, CONTBUS, CONTCOM, CONTR, CTNEQPT, DBF, DBFFT, DCCEQPT, DTLCKCPYFL, DUPMACADDR, DUPTARPENTRY, FA, FANEQPT, FWMISM, GT1, GT4, IMPROPRMVL, INHSWDX, INHSWPR, INHSWWKG, INIT, INTERR, LOCKOUT, LOTRI, MAN, MANWKSUPR, MISC-1, OSIPARMISM, PRCDRERR, PWR, RARFAIL, SWFTDWN, SYNCEQPT, TERM-EC1, TERM-OC3, TERM-OC12, TERM-T1, TERM-T3, TERM-T3EC1, TSA, TSI, WKSUPR, XIDMISM}

Default: < All applicable condition types listed above >
Addressing: None
Description: Condition Type, specifies the condition type to be retrieved. (Refer to Appendix C for a list of all condition types.) Values are:

ALMCKT	Alarm Circuit, RDU/RSP failure detected. (Valid for an AID of ALL, RDU, RSP.)
BKUPMEMP	Backup Memory-Primary, magnetic disk backup failure. (Valid for an AID of ALL, DSK.)
BKUPMEMS	Backup Memory-Secondary, optical disk/tape drive backup failure. (Valid for an AID of ALL, OPD.)
BPMISM	Backplane Mismatch, mismatch between the provisioned shelf and the installed shelf backplane. (Valid for an AID of ALL, SHELF.)
BPTERM	Backplane Termination failure detected in the SI48 I/O, EOC, End Stage, or Center Stage shelf. (Valid for an AID of ALL, SHELF.)
CARLOS	Carrier Loss, loss of carrier event during IEEE 802.3 frame transmission on the LAN. (Valid for an AID of ALL, CID, DSB.)
CD	Control and Display interface audit error detected. (Valid for an AID of ALL, CID.)
CLKLCK0	Clock Lock 0, the clock path of the I/O, EOC, ES, and CS locked to clock bus 0. (Valid for an AID of ALL, QUAD, SHELF.)
CLKLCK1	Clock Lock 1, the clock path of the I/O, EOC, ES, and CS locked to clock bus 1. (Valid for an AID of ALL, QUAD, SHELF.)
CNTRLRFL	Controller Failure, LAPD or LAN controller failed set on the DSB. (Valid for an AID of ALL, DSB.)
CONTBUS	Control Bus, shelf control bus interface failure. (Valid for an AID of ALL, IPU, SPB.)
CONTCOM	Control Communication equipment failure. (Valid for an AID of ALL, ACM, CIM, ICM, SIO.)
CONTR	Control processor equipment failure. (Valid for an AID of ALL, CPU, IPU, SPB.)
CTNEQPT	Connection Equipment, facility/circuit interconnection equipment failure. (Valid for an AID of ALL, EOB, IOB, IPB,

	LMU, OXB, RPB, S3M.)
DBF	Database Backup Failure, OPD database backup failure detected (on second try). (Valid for an AID of ALL, OPD.)
DBFFT	Database Backup Failed on First Try, OPD database backup failure detected on first try. (Valid for an AID of ALL, OPD.)
DCCEQPT	Data Communication Channel Equipment, DCC Server Board failed. (Valid for an AID of ALL, DSB.)
DTLCKCPYFL	Data Lock Copy Fail, I/O modules in shelf/quad not locked to the copy specified. (Valid for an AID of ALL, SHELF, QUAD.)
DUPMACADDR	Duplicate MAC Address detected on the LAN. (Valid for an AID of ALL, DSB.)
DUPTARENTRY	Duplicate TARP adjacency table. (Valid for an AID of ALL, DSB.)
FA	Fuse Alarm, a PDU/RDU/RSP circuit breaker or PDU fuse has failed. (Valid for an AID of ALL, CKB, FUSE.)
FANEQPT	Fan Equipment, one or more of the fans in a fan assembly failed. (Valid for an AID of ALL, FAN.)
FWMISM	Firmware Mismatch, firmware version number does not match that in the system database. (Valid for an AID of ALL, MCB.)
GT1	GTI Cable fault for GTI cable carrying an STM1 signal (Valid for an AID of ALL, G1EOB, G1EP3, G1ES1, G1IOB, G1IRPB, G1S3M, G1M16, G1M32, G1M40, G1MRPB, G1O1B, G1O4M.)
GT4	GTI Cable fault for GTI cable carrying an STM4 signal (Valid for an AID of ALL, G4EOB, G4IOB, G4OXB.)
IMPROPRMVL	Improper Removal, result of a physical circuit pack removal that was not preceded by a logical removal. (Valid for AID of ALL, ACM, CDA, CDB, CIM, CPU, DSB, DSI, EOB, EP3, ES1, ESA, FAN, HMU, ICM, IOB, IPB, IPU, LT1, LT2, LT4, LT5, LT8, M16, M32, M40, MCB, O1B, O4M, OXB, P39, P56, PDU, PRT, PSF, PST, RDU, RPB, S3M, SBT, SIO, SPB, SWI.)
INHSDWX	Inhibit Switch Duplex, automatic copy switching of duplex equipment inhibited. (Valid for an AID of ALL, CPU, IPU, SPB.)
INHSWPR	Inhibit Switch to Protection, automatic protection switching of a main circuit pack to protection unit is inhibited. (Valid for an AID of ALL, DSI, EP3, ES1, HMU, LMU.)
INHSWWKG	Inhibit Switch to Working, automatic switching of a main circuit pack back to working (from protection) is inhibited. (Valid for an AID of ALL, DSI, EP3, ES1, HMU, LMU.)
INIT	Initialization, shelf initialization in-process. (Valid for an AID of ALL, SHELF.)
INTERR	Internal Error, internal error suspected on equipment. (Valid for an AID of ALL, CDA, CDB, DSI, EOB, EP3, ES1, HMU, IOB, IPB, LMU, M16, M32, M40, MCB, O1B, O4M, OXB, RPB, S3M.)
LOCKOUT	LockOut of automatic revertive switching due to excessive protection switching. (Valid for an AID of ALL, DSI, EP3, ES1, HMU, LMU.)
LOTRI	Loss Of Offboard Timing Reference Input from mate Mas-

	ter Clock Board circuit pack. (Valid for an AID of ALL, MCB.)
MAN	Manual removal (logical removal was performed on a circuit pack). (Valid for an AID of ALL, ACM, CDA, CDB, CIM, CPU, DSB, DSI, DSK, EOB, EP3, ES1, HMU, ICM, IOB, IPB, IPU, LMU, M16, M32, M40, MCB, O1B, O4M, OXB, P39, P56, PSF, RPB, S3M, SIO, SPB.)
MANWKSWPR	Manual Working Switched to Protection, main/working unit was manually switched to the protection unit. (Valid for an AID of ALL, DSI, EP3, ES1, HMU, LMU.)
MISC-1	Miscellaneous Class-1, slave MCB is not ready. (Valid for an AID of ALL, MCB.)
OSIPARMISM	OS Initialization Parameter Mismatch, upper layer parameters or lower layer parameters specific to the LAN or manual area addresses are mismatched between two redundant DSBs. (Valid for an AID of ALL, DSB.)
PRCDRERR	Procedure Error, installed equipment does not support the facility provisioning. (Valid for an AID of ALL, ACM, CDA, CDB, CIM, CPU, DSB, DSI, EOB, EP3, ES1, HMU, ICM, IOB, IPB, IPU, LMU, LT1, LT2, LT4, LT5, LT8, M16, M32, M40, MCB, OXB, O1B, O4M, P39, P56, PRT, RPB, S3M, SIO, SWI.)
PWR	Power, internal power failure detected. (Valid for an AID of ALL, P39, P56, PSF, PST, RSP.)
RARFAIL	Re-Arrangement Failed, cross-connect rearrangement through the matrix failed due to SPB communication problem. (Valid for an AID of ALL, M16, M32, M40, SPB.)
SWFTDWN	Software Download is in process on a circuit pack. (Valid for an AID of ALL, ACM, CIM, DSB, EP3, ES1, ICM, IPU, M16, M32, M40, MCB, O1B, O4M, OXB, RPB, S3M, SPB.)
SYNCEQPT	Synchronization Equipment failure detected. (Valid for an AID of ALL, CDA, CDB, MCB.)
TERM-EC1	Termination Equipment-EC1, ES1 circuit pack failure. (Valid for an AID of ALL, ES1.)
TERM-OC3	Termination Equipment-OC3, O1B circuit pack failure. (Valid for an AID of ALL, O1B.)
TERM-OC12	Termination Equipment-OC12, O4M circuit pack failure. (Valid for an AID of ALL, O4M.)
TERM-T1	Termination Equipment-T1, DSI circuit pack failure. (Valid for an AID of ALL, DSI.)
TERM-T3	Termination Equipment-T3, HMU circuit pack failure. (Valid for an AID of ALL, HMU.)
TERM-T3EC1	Termination Equipment-T3/EC1, EP3 circuit pack failure. (Valid for an AID of ALL, EP3.)
TSA	Test Session Active, maintenance test session active on the equipment. (Valid for an AID of ALL, DSI, EP3, ES1, HMU, LMU, M16, M32, O1B, O4M, S3M.)
TSI	Time Slot Interchange equipment failure. (Valid for an AID of ALL, M16, M32, M40.)
WKSWPR	Working Switched to Protection, main/working unit automatically switched to the protection unit. (Valid for an AID of ALL, DSI, EP3, ES1, HMU, LMU.)
XIDMISM	Connection ID Mismatch, internal Connection ID Mis-

match detected in the I/O shelf/quad. (Valid for an AID of ALL, QUAD, SHELF)

Restrictions: RTRV-COND-EQPT is denied if the specified CONDTYPE is not valid for the specified AID.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  ["<AID>, EQPT:<NTFCNCDE>, <CONDTYPE>, <SRVEFF>, <OCRDAT>, <OCRTM>, <LOCN>, , "]
  [/ * <Command Echo> [<CTAG>] (<CID [-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

AID	EQUIPMENT_AID:
	{ACM-1-2-{3-7, 10-14}}
	{CDA-{4, 5, 10, 11, 16, 17, 22, 23, 102, 103 }-3-1}
	{CDB-{5}-{1, 3}-{1, 2}}
	CDB-{2-43, 104-111 ,112-135, 136-141 }-{1, 3}-{1, 2}
	{SI36: CDB-{6-9, 12-15, 18-21, 24-43}-{1, 3}-{1-2},
	{SI48: CDB-{2-43, 104-111 ,112-135, 136-141 }-{1, 3}-{1, 2}
	{CID-1-1-{1-12}}
	{CIM-1-2-{3-7, 10-14}}
	{CKB-{1-63, 101, 102-111 , 112-135, 136-141 }-{0}-{1-2}}
	{CPU-1-2-{1-2}}
	{DSB-{6-9, 12-15, 18-21, 24-43, 104-111 , 112-135, 136-141 }-{1, 3}-{1-2}}
	{DSI-{44-63}-{1-4}-{1-32}}
	{DSK-1-3-1,
	DSK-1-4-2}
	{EOB-{5}-{1, 3}-{1-5}}
	{SI48: EOB-{6-9, 12-15, 18-21, 24-43, 104-111 , 112-135, 136-141 }-{1, 3}-{1-2},
	EOC: EOB-{4-5, 10-11, 16-17, 22-23, 102, 103 }-1-{1-7, 9-15}}
	{SI48: EP3-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42,
	104-106,108-110, 136-141 }-{1, 3}-{1-18},
	EP3-{9, 21, 35, 43, 107 }-3-{1-18},
	EP3-{15, 27, 31, 39, 111 }-1-{1-18}}
	{SI36: EP3-{6-8, 12-14}-{1, 3}-{1-14},
	EP3-9-3-{1-14},
	EP3-15-1-{1-14}}
	{SI48: ES1-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42,
	104-106,108-110,136-141 }-{1, 3}-{1-18},
	ES1-{9, 21, 35, 43, 107 }-3-{1-18},
	ES1-{15, 27, 31, 39, 111 }-1-{1-18}}
	{SI36: ES1-{6-8, 12-14}-{1, 3}-{1-14},
	ES1-9-3-{1-14},
	ES1-15-1-{1-14}}
	{ESA-{44-63}-{1-4}-{1-2}}
	{FAN-{1, 101}-0-1},
	FAN-{2-63, 102-111 , 112-135, 136-141 }-{1-3}-1}
	{FUSE-{2-43, 102-111 , 112-135, 136-141 }-0-{1-2}}
	{G1EOB-{4, 5,10, 11, 16, 17, 22, 23, 102, 103 }-1-{1-7, 9-15}-{1-16},
	G1EOB-{6-9, 12-15, 18-21, 24-43, 104-111 , 112-135, 136-141 }-{1, 3}-{1-2}-{1-16},
	G1EOB-{5}-{1, 3}-{1-5}-{1-16}}
	{SI48:G1EP3-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42, 104-106, 108-110 }-

{1, 3}–{1–18}–{1–2},
 G1EP3–{9, 21, 35, 43, **107**}–3–{1–18}–{1–2},
 G1EP3–{15, 27, 31, 39, **111**}–1–{1–18}–{1–2}
 {SI36: G1EP3 – {6–8, 12–14} – {1, 3} – {1–14} – {1–2},
 G1EP3 – 9 – 3 – {1–14} – {1–2},
 G1EP3 – {15} – 1 – {1–14} – {1–2} }
 {SI48: G1ES1–{6–8, 12–14, 18–20, 24–26, 28–30, 32–34, 36–38, 40–42, **104–106, 108–110**}–
 {1, 3}–{1–18}–{1–2},
 G1ES1–{9, 21, 35, 43, **107**}–3–{1–18}–{1–2},
 G1ES1–{15, 27, 31, 39, **111**}–1–{1–18}–{1–2}
 {SI36: G1ES1 – {6–8, 12–14} – {1, 3} – {1–14} – {1–2},
 G1ES1 – 9 – 3 – {1–14} – {1–2},
 G1ES1 – {15–1}–{1–14}–{1–2} }
 {G1IOB–{6–8, 12–14}–{1, 3}–{1, 3, 5, 7}–{1–3, 5–7},
 G1IOB–9–3–{1, 3, 5, 7}–{1–3, 5–7},
 G1IOB–15–1–{1, 3, 5, 7}–{1–3, 5–7}}
 {G1IRPB–{6–9, 12–15, 18–21, 24–43, **104–111, 112–135, 136–141**}–{1, 3}–{1–2}–{1–18} }
 {G1M16–{2–5, 10–11, 16–17, 22–23, **102–103**}–3–{1–16}–{1–16}}
 {G1M32–{4–5, 10–11, 16–17, 22–23, **102–103**}–3–{1–16}–{1–32},
 G1M32–{5}–{1, 3}–{1–3, 6–8}–{1–32}}
 {G1M40–{2–3}–{1, 3}–{1–16}–{1–32},
 G1M40–{5}–{1, 3}–{4, 5, 9, 10}–{1–32}}
 {G1MRPB–{6–9, 12–15, 18–21, 24–43, **104–111, 112–135, 136–141**}–{1, 3}–{1–2}–{1–16}}
 {G1O1B–{6–9, 12–15, 18–21, 24–43, 112–135}–{1, 3}–{2–9, 11–18}–{1–2}}
 {G1O4M–{6–9, 12–15, 18–21, 24–43, 112–135}–{1, 3}–{2, 3, 11, 12}–{1–2}}
 {G1S3M–{6–9, 12–15, 18–21, 24–43, 112–135}–{1, 3}–{4–9, 13–18}–{1–2}}
 {G4EOB–{4–5, 10–11, 16–17, 22–23}–1–{1–7, 9–15}–{1–4},
 G4EOB–{6–9, 12–15, 18–21, 24–43, **104–111, 112–135, 136–141**}–{1, 3}–{1, 2}–{1–4},
 G4EOB–{5}–{1, 3}–{1–5}–{1–4}}
 {G4IOB–{6–8, 12–14}–{1, 3}–{1, 3, 5, 7}–{1–2},
 G4IOB–9–3–{1, 3, 5, 7}–{1, 2},
 G4IOB–15–1–{1, 3, 5, 7}–{1–2}}
 {G4OXB–{44–63}–{1–4}–{1, 2}–1}
 {HMU–{44–53}–{1–4}–{1–8}}
 {ICM–1–2–{1, 2, 8, 9}}
 {IOB–{6–8, 12–14}–{1, 3}–{1, 3, 5, 7},
 IOB–9–3–{1, 3, 5, 7},
 IOB–15–1–{1, 3, 5, 7}}
 {IPB–{6–9, 12–15, 18–21, 24–43, **104–111, 112–135, 136–141**}–{1, 3}–{1–2}}
 {IPU–{44–63}–{1–4}–{1–8}}
 {LMU–{44–53}–{1–4}–{1–32}}
 {LT1–1–1–{1–6}}
 {LT2–1–1–{1–6}}
 {LT4–1–1–{7–16}}
 {LT5–1–1–{2–6}}
 {LT8–1–1–{7–16}}
 {M16–{2–5, 10–11, 16–17, 22–23}–3–{1–16}}
 {M32–{4–5, 10–11, 16–17, 22–23, **102, 103**}–3–{1–16},
 M32–{5}–{1, 3}–{1–3, 6–8}}
 {M40–{2–3}–{1, 3}–{1–16}}
 {M40–{5}–{1, 3}–{4, 5, 9, 10}}
 {MCB–{2,3}–3–1}
 {MCB–{5}–{1, 3}–{1}}
 {O1B–{6–9, 12–15, 18–21, 24–43, **104–111, 112–135, 136–141**}–{1, 3}–{2–9, 11–18}}

{O4M-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{2-3, 11-12}}
 {OPD-1-3-1,
 OPD-1-4-2}
 {OXB-{44-63}-{1-4}-{1-2}}
 {P39-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-3},
 P39-{4, 5, 10, 11, 16, 17, 22, 23, **102**, **103**}-1-{1-3},
 P39-{4, 5, 10, 11, 16, 17, 22, 23, **102**, **103**}-3-{1-4},
 P39-{5}-{1, 3}-{1-4}}
 {P56-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-5},
 P56-{2-3}-{1, 3}-{1-4},
 P56-{4, 5, 10, 11, 16, 17, 22, 23, **102**, **103**}-1,3-{1-5},
 P56-{5}-{1, 3}-{1-4}}
 {PDU-{2-43, **102-111**, 112-135, **136-141**}-0-1}
 {PRT-{44-63}-{1-4}-{8, 16, 24, 32}}
 {PSF-1-{3, 4}-{1, 2},
 PSF-{44-63}-{1-4}-{1-2}}
 {PST-1-{3, 4}-{1-2}}
 {QUAD-{44-63}-{1-4}-{1-4}}
 {RDU-{44-63}-0-1}
 {RPB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2}}
 {RSP-{1, 101}-0-1}
 {S3M-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{4-9, 13-18}}
 {SBT-1-2-{1-4}}
 {SHELF-{4-43, 102-141}-{1, 3}-1}
 {SHELF-{5}-{1, 3}-{1}}
 {SIO-1-2-{1-2, 8-9}}
 {SPB-{2-43, **102-111**, 112-135, **136-141**}-{1, 3}-{1-2}}
 {SPB-{5}-{1, 3}-{1, 2}}
 {SWI-{44-63}-{1-4}-{1-7, 9-15, 17-23, 25-31}}
 Equipment AID, identifies the equipment entity.

NTFCNCDE {NA, NR}
 Notification Code, identifies the notification code generated by the system when the condition occurred. Values are:
 NA Not Alarmed
 NR Not Reported

CONDTYPE {ALMCKT, BKUPMEMP, BKUPMEMS, BPMISM, BPTERM, CARLOS, CD, CLKLCK0, CLKLCK1, CNTRLRFL, CONTBUS, CONTCOM, CONTR, CTNEQPT, DBF, DBFFT, DCCEQPT, DTLCKCPYFL, DUPMACADDR, DUPTARPENTRY, FA, FANEQPT, FWMISM, GT1, GT4, IMPROPRMVL, INHSWDX, INHSWPR, INHSWWKG, INIT, INTERR, LOCKOUT, LOTRI, MAN, MANWKSWPR, MISC-1, OSIPARMISM, PRCDRERR, PWR, RARFAIL, SWFTDWN, SYNCEQPT, TERM-EC1, TERM-OC3, TERM-OC12, TERM-T1, TERM-T3, TERM-T3EC1, TSA, TSI, WKSWPR, XIDMISM}
 Condition Type, identifies the condition type being retrieved. (Refer to Appendix C for a list of all condition types.) Values are:
 ALMCKT Alarm Circuit, RDU/RSP failure detected.
 BKUPMEMP Backup Memory-Primary, magnetic disk backup failure.
 BKUPMEMS Backup Memory-Secondary, optical disk/tape drive backup failure.
 BPMISM Backplane Mismatch, mismatch between the provisioned shelf and the installed shelf backplane.
 BPTERM Backplane Termination failure detected in the SI48 I/O, EOC, End Stage, or Center Stage shelf.

CARLOS	Carrier Loss, loss of carrier event during IEEE 802.3 frame transmission on the LAN.
CD	Control and Display interface audit error detected.
CLKLCK0	Clock Lock 0, the clock path of the I/O, EOC, ES, and CS locked to clock bus 0.
CLKLCK1	Clock Lock 1, the clock path of the I/O, EOC, ES, and CS locked to clock bus 1.
CNTRLRFL	Controller Failure, LAPD or LAN controller failed set on the DSB.
CONTBUS	Control Bus, shelf control bus interface failure.
CONTCOM	Control Communication equipment failure.
CONTR	Control processor equipment failure.
CTNEQPT	Connection Equipment, facility/circuit interconnection equipment failure.
DBF	Database Backup Failure, OPD database backup failure detected (on second try).
DBFFT	Database Backup Failed on First Try, OPD database backup failure detected on first try.
DCCEQPT	Data Communication Channel Equipment, DCC Server Board failed.
DTLCKCPYFL	Data Lock Copy Fail, I/O modules in shelf/quad not locked to the copy specified.
DUPMACADDR	Duplicate MAC Address detected on the LAN.
DUPTARPENTRY	Duplicate TARP adjacency table.
FA	Fuse Alarm, a PDU/RDU/RSP circuit breaker or PDU fuse has failed.
FANEQPT	Fan Equipment, one or more of the fans in a fan assembly failed.
FWMISM	Firmware Mismatch, firmware version number does not match that in the system database.
GT1	GTI Cable fault for GTI cable carrying an STM1 signal.
GT4	GTI Cable fault for GTI cable carrying an STM4 signal.
IMPROPRMVL	Improper Removal, result of a physical circuit pack removal that was not preceded by a logical removal.
INHSDWX	Inhibit Switch Duplex, automatic copy switching of duplex equipment inhibited.
INHSWPR	Inhibit Switch to Protection, automatic protection switching of a main circuit pack to protection unit is inhibited.
INHSWWKG	Inhibit Switch to Working, automatic switching of a main circuit pack back to working (from protection) is inhibited.
INIT	Initialization, shelf initialization in-process.
INTERR	Internal Error, internal error suspected on equipment.
LOCKOUT	LockOut of automatic revertive switching due to excessive protection switching.
LOTRI	Loss Of Offboard Timing Reference Input from mate Master Clock Board circuit pack.
MAN	Manual removal (logical removal was performed on a circuit pack).
MANWKSWPR	Manual Working Switched to Protection, main/working unit was manually switched to the protection unit.
MISC-1	Miscellaneous Class-1, slave MCB is not ready.
OSIPARMISM	OS Initialization Parameter Mismatch, upper layer parameters or lower layer parameters specific to the LAN or manual area addresses are mismatched between two re-

	PRCDRERR	dundant DSBs. Procedure Error, installed equipment does not support the facility provisioning.
	PWR	Power, internal power failure detected.
	RARFAIL	Re-Arrangement Failed, cross-connect rearrangement through the matrix failed due to SPB communication problem.
	SWFTDWN	Software Download is in process on a circuit pack.
	SYNCEQPT	Synchronization Equipment failure detected.
	TERM-EC1	Termination Equipment-EC1, ES1 circuit pack failure.
	TERM-OC3	Termination Equipment-OC3, O1B circuit pack failure.
	TERM-OC12	Termination Equipment-OC12, O4M circuit pack failure.
	TERM-T1	Termination Equipment-T1, DSI circuit pack failure.
	TERM-T3	Termination Equipment-T3, HMU circuit pack failure.
	TERM-T3EC1	Termination Equipment-T3/EC1, EP3 circuit pack failure.
	TSA	Test Session Active, maintenance test session active on the equipment.
	TSI	Time Slot Interchange equipment failure.
	WKSWPR	Working Switched to Protection, main/working unit automatically switched to the protection unit.
	XIDMISM	Connection ID Mismatch, internal Connection ID Mismatch detected in the I/O shelf/quad.
SRVEFF	{NSA, SA} Service Effect, identifies the service effect of the condition type and notification code being retrieved. Values are: NSA Non-Service Affecting SA Service Affecting	
OCRDAT	{MONTH-DAY:{01-12} - {01-31}} Occurrence Date, identifies the date when the condition occurred. The format of OCRDAT is <MONTH_OF_YEAR> - <DAY_OF_MONTH>.	
OCRTM	{HOUR-MINUTE-SECOND:{00-23} - {00-59} - {00-59}} Occurrence Time, identifies the time when the condition occurred. The format of OCRTM is <HOUR_OF_DAY> - <MINUTE_OF_HOUR> - <SECOND_OF_MINUTE>.	
LOCN	{NEND} Location, identifies the location where the condition type is monitored. A value of NEND (Near-End) is always reported.	

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV Input, Data Not Valid
 /* Invalid notification code specified: <NOTIFICATION CODE STRING>. */
 /* Invalid service effect specified: <SERVICE EFFECT STRING>. */
 /* Invalid condition type specified: <CONDITION TYPE STRING>. */
 /* Condition type not valid for: EQPT. */
 /* Condition type is not MISC but has a -#: <CONDITION TYPE STRING>. */
 /* Condition type is MISC but has no -#. */
 /* Condition type is TERM but - <STRING> is not valid. */
 /* Invalid parameter specified. */

IIAC Input, Invalid ACcess identifier
 /* Invalid card type specified: <CARD TYPE STRING>. */

SROF Status, Requested Operation Failed
 /* Cannot open <FILENAME>. */
 /* rpt_file error - <ERRNO>, status = <STATUS>. */
 /* nrl_rpt_print error - no transaction, msgtype = <MSGTYPE>. */
 /* rpt_print error - <ERRNO>, status = <STATUS>. */

EXAMPLES

In the following example, any existing DBF non-alarmed or not-reported condition is retrieved.

```
RTRV-COND-EQPT: :ALL: : :DBF;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of P71052. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M P71052 COMPLD  
"OPD-1-3-1, EQPT:NA,DBF,NSA,07-02,09-30-28,NEND, ,"  
/* RTRV-COND-EQPT: :ALL: : :DBF [P71052] (2) */  
;
```

RELATED COMMANDS

```
CLR-ALM-EQPT  
RTRV-ALM-ALL  
RTRV-ALM-EQPT  
RTRV-ATTR-EQPT  
RTRV-COND-ALL  
RTRV-GTI-STATUS  
RTRV-XIDMISM  
SET-ATTR-EQPT
```

RELATED AUTONOMOUS RESPONSES

```
REPT^EVT^EQPT
```


COMMAND CODE: **RTRV-COND-F3**
COMMAND NAME: **RETRIEVE CONDITION F3**

PURPOSE

The RTRV-COND-F3 command retrieves the current status of any existing non-alarmed or not-reported standing conditions for the specified F3 port, or for the specified F3 port and any matching combination of a specified condition type and location (i.e., the CONDTYPE and LOCN parameters provide a filter for retrieving existing conditions satisfying the specified input parameters). The command is completed regardless of whether the F3 port is provisioned.

The successful response for a RTRV-COND-F3 command contains one line of parsable output data, in ascending order by port number and ascending order by date and time of occurrence within each port number, for each non-alarmed or not-reported standing condition being reported. If an AID of ALL is entered, all AIDs with an existing non-alarmed or not-reported standing condition are reported.

If there are no existing non-alarmed or not-reported standing conditions with attributes matching the specified (valid) combination of AID, condition type, and location, then the command is completed with no line of parsable output data provided in the response message.

A RTRV-COND-F3 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-COND-F3 : [TID] : AID : [CTAG] : : [CONDTYPE] , [LOCN] , [DIRN] , [TMPER] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	F3_AID: {T3F3-{1-4800}-{1-14}} (T3F3-DS3#-Fractional_DS3#) ALL_AID: {ALL} Default: Entry Required Addressing: &&-ranging and &-grouping Description: F3 AID, identifies the F3 port. Name-defined values are: ALL All provisioned F3 ports in the system.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
CONDTYPE	{INHPMREPT} Default: < All applicable condition types listed above > Addressing: None Description: Condition Type, specifies the condition type to be retrieved. (Refer to Appendix C for a list of all condition types.) Values are: INHPMREPT Inhibit Performance Monitoring Report, PM report capability Inhibited.
LOCN	{NEND} Default: < All location values applicable to the specified condition type > Addressing: None Description: Location, specifies the location where the condition type is monitored. Values are: NEND Near-End, events occurring at the system.

DIRN	{NA, RCV}	
	Default:	{NA}
	Addressing:	None
	Description:	Direction, specifies the direction of the condition type being monitored. The value for DIRN is verified, but does not affect the function of the RTRV-COND-F3 command.
	NA	Not Applicable
	RCV	Receive side
TMPER	{15-MIN, 1-DAY}	
	Default:	{15-MIN}
	Addressing:	None
	Description:	Time Period. The value for TMPER is verified, but does not affect the function of the RTRV-COND-F3 command.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  ["<AID>, F3 : <NTFCNCDE>, <CONDTYPE>, <SRVEFF>, <OCRDAT>, <OCRTM>, <LOCN>, , "]
  [/ * <Command Echo> [<CTAG>] (<CID [-VCNUM]>) */]
;

```

OUTPUT PARAMETERS

AID	F3_AID:	
	{T3F3-{1-4800}-{1-14}}	(T3F3-DS3#-Fractional_DS3#)
	F3 AID, identifies the F3 port.	
NTFCNCDE	{NA, NR}	
	Notification Code, identifies the notification code generated by the system when the condition occurred. Values are:	
	NA	Not Alarmed
	NR	Not Reported
CONDTYPE	{INHPMREPT}	
	Condition Type, identifies the condition type being retrieved. (Refer to Appendix C for a list of all condition types.) Values are:	
	INHPMREPT	Inhibit Performance Monitoring Report, PM report capability Inhibited.
SRVEFF	{NSA, SA}	
	Service Effect, identifies the service effect of the condition type and notification code being retrieved. Values are:	
	NSA	Non-Service Affecting
	SA	Service Affecting
OCRDAT	{MONTH-DAY:{01-12} - {01-31}}	
	Occurrence Date, identifies the date when the condition occurred. The format of OCRDAT is <MONTH_OF_YEAR> - <DAY_OF_MONTH>.	
OCRTM	{HOUR-MINUTE-SECOND:{00-23} - {00-59} - {00-59}}	
	Occurrence Time, identifies the time when the condition occurred. The format of OCRTM is <HOUR_OF_DAY> - <MINUTE_OF_HOUR> - <SECOND_OF_MINUTE>.	
LOCN	{NEND}	
	Location, identifies the location where the condition type is monitored. Values are:	
	NEND	Near-End, events occurring at the system.

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent /*Condition type is not consistent with <FACILITY TYPE STRING>.*/ /*Location is not consistent with <FACILITY TYPE STRING> <CONDITION TYPE STRING>.*/ STRING>.*/
IDNV	Input, Data Not Valid /* Invalid notification code specified: <NOTIFICATION CODE STRING>.*/ /* Invalid service effect specified: <SERVICE EFFECT STRING>.*/ /* Invalid location specified: <LOCATION STRING>.*/ /* Invalid condition type specified: <CONDITION TYPE STRING>.*/ /* Invalid parameter specified. */
IIAC	Input, Invalid ACcess identifier /*Invalid Access ID specified.*/
SROF	Status, Requested Operation Failed /*rpt_file error – <ERRNO>, status = <STATUS>*/ /*Cannot open <FILENAME>*/ /*nrl_rpt_print error – no transaction, msgtype = <MSGTYPE>*/ /* rpt_print error – <ERRNO>, status = <STATUS>.*/

EXAMPLES

In the following example, all existing non-alarmed or not-reported standing conditions for F3 port T3F3-4-14 are retrieved.

```
RTRV-COND-F3::T3F3-4-14;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated a CTAG value of P71066. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```

<SID> <YY-MM-DD> <HH:MM:SS>
M P71066 COMPLD
  "T3F3-4-14,F3:NA,INHMPREPT,NSA,07-02,09-05-12,NEND,, "
  [/ * RTRV-COND-F3::T3F3-4-14 [P71066] (2) */]
;

```

RELATED COMMANDS

```

RTRV-ALM-ALL
RTRV-ALM-F3
RTRV-ATTR-F3
RTRV-COND-ALL
RTRV-DFLTATTR-F3
SET-ATTR-F3

```

3AL45392AJ

Issue 01, February 2005

SET-DFLTATTR-F3

RELATED AUTONOMOUS RESPONSES

REPT^EVT^F3

COMMAND CODE: **RTRV-COND-OC12**
COMMAND NAME: **RETRIEVE CONDITION OC-12**

PURPOSE

The RTRV-COND-OC12 command retrieves the current status of any existing non-alarmed or not-reported standing conditions for the specified OC-12 port, or for the specified OC-12 port and any matching combination of a specified condition type and location (i.e., the CONDTYPE and LOCN parameters provide a filter for retrieving existing conditions satisfying the specified input parameters). The command is completed regardless of whether the OC-12 port is provisioned.

The successful response for a RTRV-COND-OC12 command contains one line of parsable output data, in ascending order by port number and ascending order by date and time of occurrence within each port number, for each non-alarmed or not-reported standing condition being reported. If an AID of ALL is entered, all AIDs with an existing non-alarmed or not-reported standing condition are reported.

If there are no existing non-alarmed or not-reported standing conditions with attributes matching the specified (valid) combination of AID, condition type, and location, then the command is completed with no line of parsable output data provided in the response message.

A RTRV-COND-OC12 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-COND-OC12 : [TID] : AID : [CTAG] : : [CONDTYPE] , [LOCN] , [DIRN] , [TMPER] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	OC12_AID: {OC12-{1-560}} (OC12-OC12#) ALL_AID: {ALL} Default: Entry Required Addressing: &&-ranging and &-grouping Description: OC12 AID, identifies the OC-12 port. Name-defined values are: ALL All provisioned OC-12 ports in the system.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

CONDTYPE	NEAR-END_CONDDTYPE:{ACTLPBK, AIS, DUPTARPENRY, EBER, ESW, FRCDWKS WBK, FRCDWKS WPR, INHPMREPT, L2LCONFAIL, L2S CONFAIL, LDCCDLFL, LOCKOUTOFPR, LOF, LOS, MAN, MANWKS WBK, MANWKS WPR, SDBER, SDCCDLFL, WTR}, FAR-END_CONDDTYPE:{RFI}
Default:	< All applicable condition types listed above >
Addressing:	None
Description:	Condition Type, specifies the condition type to be retrieved. (Refer to Appendix C for a list of all condition types.) Values are:
ACTLPBK	Active Loopback, the OC-12 port is in loopback. (Near-End only.)
AIS	Alarm Indication Signal, AIS detected. (Near-End only.)
DUPTARPENRY	Duplicate TARP adjacency table. (Near-End only.)
EBER	Excessive Bit Error Rate detected. (Near-End only.)
ESW	Excessive Switching, lock out of automatic revertive (OC-12) switching due to excessive switching. (Near-End only.)
FRCDWKS WBK	Forced Working Switched Back, working facility was manually force switched from protection to the main facility. (Near-End only.)
FRCDWKS WPR	Forced Working Switched to Protection, working facility was manually force switched to the protection facility. (Near-End only.)
INHPMREPT	Inhibit Performance Monitoring Report, PM report capability inhibited. (Near-End only.)
L2LCONFAIL	Layer 2 Line DCC Connection Failure. (Near-End only.)
L2S CONFAIL	Layer 2 Section DCC Connection Failure. (Near-End only.)
LDCCDLFL	Line DCC Data Link Failure. (Near-End only.)
LOCKOUTOFPR	LockOut Of Protection facility. (Near-End only.)
LOF	Loss Of Frame detected. (Near-End only.)
LOS	Loss Of Signal detected. (Near-End only.)
MAN	Manual removal (logical removal was performed on the facility). (Near-End only.)
MANWKS WBK	Manual Working Switched Back, working facility was manually switched back to the main facility. (Near-End only.)
MANWKS WPR	Manual Working Switched to Protection, working facility was manually switched to the protection facility. (Near-End only.)
RFI	Remote Failure Indication detected. (Far-End only.)
SDBER	Signal Degrade Bit Error Rate detected. (Near-End only.)
SDCCDLFL	Section DCC Data Link Failure. (Near-End only.)
WTR	Wait To Restore of protection facility. (Near-End only.)
Restrictions:	RTRV-COND-OC12 is denied if the specified CONDDTYPE value is not supported for the specified LOCN value (e.g., CONDDTYPE of RFI and LOCN of NEND is entered).

LOCN	{FEND, NEND}
Default:	< All location values applicable to the specified condition type >
Addressing:	None
Description:	Location, specifies the location where the condition type is monitored. Values are:
	FEND Far-End, events occurring at a distant network element.
	NEND Near-End, events occurring at the system.
Restrictions:	RTRV-COND-OC12 is denied if the specified LOCN value is not supported for the specified CONDTYPE value (e.g., CONDTYPE of RFI and LOCN of NEND is entered).
DIRN	{NA, RCV, TRMT}
Default:	< All applicable directions >
Addressing:	None
Description:	Direction, specifies the direction of the condition type being monitored. The value for DIRN is verified, but does not affect the function of the RTRV-COND-OC12 command.
	NA Not Applicable
	RCV Receive side
	TRMT Transmit direction
TMPER	{15-MIN, 1-DAY}
Default:	{15-MIN}
Addressing:	None
Description:	Time Period. The value for TMPER is verified, but does not affect the function of the RTRV-COND-OC12 command.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  ["<AID>,OC12:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,<OCDAT>,<OCDTM>,<LOCN>,, "]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

OUTPUT PARAMETERS

AID	OC12_AID: {OC12-{1-560}} OC12 AID, identifies the OC-12 port.	(OC12-OC12#)
NTFCNCDE	{NA, NR} Notification Code, identifies the notification code generated by the system when the condition occurred. Values are:	
	NA Not Alarmed	
	NR Not Reported	

CONDTYPE	<p>NEAR-END_CONDDTYPE:{ACTLPBK, AIS, DUPTARPENRY, EBER, ESW, FRCDWKS WBK, FRCDWKS WPR, INHPMREPT, L2LCONFAIL, L2SCONFAIL, LDCCDLFL, LOCKOUTOFPR, LOF, LOS, MAN, MANWKS WBK, MANWKS WPR, SDBER, SDCCDLFL, WTR},</p> <p>FAR-END_CONDDTYPE:{RFI}</p> <p>Condition Type, identifies the condition type being retrieved. (Refer to Appendix C for a list of all condition types.) Values are:</p> <table> <tr> <td>ACTLPBK</td><td>Active Loopback, the OC-12 port is in loopback.</td></tr> <tr> <td>AIS</td><td>Alarm Indication Signal, AIS detected.</td></tr> <tr> <td>DUPTARPENRY</td><td>Duplicate TARP adjacency table.</td></tr> <tr> <td>EBER</td><td>Excessive Bit Error Rate detected.</td></tr> <tr> <td>ESW</td><td>Excessive Switching, lockout of automatic revertive (OC-12) switching due to excessive switching.</td></tr> <tr> <td>FRCDWKS WBK</td><td>Forced Working Switched Back, working facility was manually force switched from protection to the main facility.</td></tr> <tr> <td>FRCDWKS WPR</td><td>Forced Working Switched to Protection, working facility was manually force switched to the protection facility.</td></tr> <tr> <td>INHPMREPT</td><td>Inhibit Performance Monitoring Report, PM report capability inhibited.</td></tr> <tr> <td>L2LCONFAIL</td><td>Layer 2 Line DCC Connection Failure.</td></tr> <tr> <td>L2SCONFAIL</td><td>Layer 2 Section DCC Connection Failure.</td></tr> <tr> <td>LDCCDLFL</td><td>Line DCC Data Link Failure.</td></tr> <tr> <td>LOCKOUTOFPR</td><td>LockOut Of Protection facility.</td></tr> <tr> <td>LOF</td><td>Loss Of Frame detected.</td></tr> <tr> <td>LOS</td><td>Loss Of Signal detected.</td></tr> <tr> <td>MAN</td><td>Manual removal (logical removal was performed on the facility).</td></tr> <tr> <td>MANWKS WBK</td><td>Manual Working Switched Back, working facility was manually switched back to the main facility.</td></tr> <tr> <td>MANWKS WPR</td><td>Manual Working Switched to Protection, working facility was manually switched to the protection facility.</td></tr> <tr> <td>RFI</td><td>Remote Failure Indication detected.</td></tr> <tr> <td>SDBER</td><td>Signal Degrade Bit Error Rate detected.</td></tr> <tr> <td>SDCCDLFL</td><td>Section DCC Data Link Failure</td></tr> <tr> <td>WTR</td><td>Wait To Restore of protection facility.</td></tr> </table>	ACTLPBK	Active Loopback, the OC-12 port is in loopback.	AIS	Alarm Indication Signal, AIS detected.	DUPTARPENRY	Duplicate TARP adjacency table.	EBER	Excessive Bit Error Rate detected.	ESW	Excessive Switching, lockout of automatic revertive (OC-12) switching due to excessive switching.	FRCDWKS WBK	Forced Working Switched Back, working facility was manually force switched from protection to the main facility.	FRCDWKS WPR	Forced Working Switched to Protection, working facility was manually force switched to the protection facility.	INHPMREPT	Inhibit Performance Monitoring Report, PM report capability inhibited.	L2LCONFAIL	Layer 2 Line DCC Connection Failure.	L2SCONFAIL	Layer 2 Section DCC Connection Failure.	LDCCDLFL	Line DCC Data Link Failure.	LOCKOUTOFPR	LockOut Of Protection facility.	LOF	Loss Of Frame detected.	LOS	Loss Of Signal detected.	MAN	Manual removal (logical removal was performed on the facility).	MANWKS WBK	Manual Working Switched Back, working facility was manually switched back to the main facility.	MANWKS WPR	Manual Working Switched to Protection, working facility was manually switched to the protection facility.	RFI	Remote Failure Indication detected.	SDBER	Signal Degrade Bit Error Rate detected.	SDCCDLFL	Section DCC Data Link Failure	WTR	Wait To Restore of protection facility.
ACTLPBK	Active Loopback, the OC-12 port is in loopback.																																										
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SDCCDLFL	Section DCC Data Link Failure																																										
WTR	Wait To Restore of protection facility.																																										
SRVEFF	<p>{NSA, SA}</p> <p>Service Effect, identifies the service effect of the condition type and notification code being retrieved. Values are:</p> <table> <tr> <td>NSA</td><td>Non-Service Affecting</td></tr> <tr> <td>SA</td><td>Service Affecting</td></tr> </table>	NSA	Non-Service Affecting	SA	Service Affecting																																						
NSA	Non-Service Affecting																																										
SA	Service Affecting																																										
OCRDAT	<p>{MONTH-DAY:{01-12} - {01-31} }</p> <p>Occurrence Date, identifies the date when the condition occurred. The format of OCRDAT is <MONTH_OF_YEAR> - <DAY_OF_MONTH>.</p>																																										
OCRTM	<p>{HOUR-MINUTE-SECOND:{00-23} - {00-59} - {00-59} }</p> <p>Occurrence Time, identifies the time when the condition occurred. The format of OCRTM is <HOUR_OF_DAY> - <MINUTE_OF_HOUR> -<SECOND_OF_MINUTE>.</p>																																										
LOCN	<p>{FEND, NEND}</p> <p>Location, identifies the location where the condition type is monitored. Values are:</p> <table> <tr> <td>FEND</td><td>Far-End, events occurring at a distant network element.</td></tr> <tr> <td>NEND</td><td>Near-End, events occurring at the system.</td></tr> </table>	FEND	Far-End, events occurring at a distant network element.	NEND	Near-End, events occurring at the system.																																						
FEND	Far-End, events occurring at a distant network element.																																										
NEND	Near-End, events occurring at the system.																																										

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent /* Condition type is not consistent with <FACILITY TYPE STRING>. */ /* Location is not consistent with <FACILITY TYPE STRING> <CONDITION TYPE STRING>. */
IDNV	Input, Data Not Valid /* Invalid notification code specified: <NOTIFICATION CODE STRING>. */ /* Invalid service effect specified: <SERVICE EFFECT STRING>. */ /* Invalid location specified: <LOCATION STRING>. */ /* Invalid condition type specified: <CONDITION TYPE STRING>. */ /* Invalid parameter specified. */
IIAC	Input, Invalid ACcess identifier /* Invalid Access ID specified. */
SROF	Status, Requested Operation Failed /* Cannot open <FILENAME>. */ /* rpt_file error – <ERRNO>, status = <STATUS>. */ /* nrl_rpt_print error – no transaction, msgtype = <MSGTYPE>. */ /* rpt_print error – <ERRNO>, status = <STATUS>. */

EXAMPLES

In the following example, any existing non-alarmed or not-reported standing conditions for OC-12 ports OC12-124 through OC12-125 are retrieved.

```
RTRV-COND-OC12::OC12-124&&-125;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated a CTAG value of P71061. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```

<SID> <YY-MM-DD> <HH:MM:SS>
M P71061 COMPLD
  "OC12-124,OC12:NA,INHMPREPT,NSA,07-02,11-42-18,NEND,, "
  "OC12-125,OC12:NA,INHMPREPT,NSA,07-02,11-42-18,NEND,, "
  /* RTRV-COND-OC12::OC12-124&&-125 [P71061] (1) */
;

```

In the following example, all existing non–alarmed or not–reported standing conditions for OC–12 port OC12–113 are retrieved.

```
RTRV-COND-OC12::OC12-113;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated a CTAG value of P71066. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P71066 COMPLD
"OC12-113,OC12:NA,INHMPREPT,NSA,07-02,09-05-12,NEND,, "
"OC12-113,OC12:NA,MAN,NSA,07-02,09-25-42,NEND,, "
/* RTRV-COND-OC12::OC12-113 [P71066] (2) */
;
```

RELATED COMMANDS

```
RTRV-ALM-ALL
RTRV-ALM-OC12
RTRV-ATTR-OC12
RTRV-COND-ALL
RTRV-DFLTATTR-OC12
SET-ATTR-OC12
SET-DFLTATTR-OC12
```

RELATED AUTONOMOUS RESPONSES

```
REPT^EVT^OC12
```

COMMAND CODE: **RTRV-COND-OC3**
COMMAND NAME: **RETRIEVE CONDITION OC-3**

PURPOSE

The RTRV-COND-OC3 command retrieves the current status of any existing non-alarmed or not-reported standing conditions for the specified OC-3 port, or for the specified OC-3 port and any matching combination of a specified condition type and location (i.e., the CONDTYPE and LOCN parameters provide a filter for retrieving existing conditions satisfying the specified input parameters). The command is completed regardless of whether the OC-3 port is provisioned.

The successful response for a RTRV-COND-OC3 command contains one line of parsable output data, in ascending order by port number and ascending order by date and time of occurrence within each port number, for each non-alarmed or not-reported standing condition being reported. If an AID of ALL is entered, all AIDs with an existing non-alarmed or not-reported standing condition are reported.

If there are no existing non-alarmed or not-reported standing conditions with attributes matching the specified (valid) combination of AID, condition type, and location, then the command is completed with no line of parsable output data provided in the response message.

A RTRV-COND-OC3 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-COND-OC3 : [TID] : AID : [CTAG] : : [CONDTYPE] , [LOCN] , [DIRN] , [TMPER] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	OC3_AID: {OC3-{1-2240}} (OC3-OC3#) ALL_AID: {ALL} Default: Entry Required Addressing: &&-ranging and &-grouping Description: OC3 AID, identifies the OC-3 port. Name-defined values are: ALL All provisioned OC-3 ports in the system.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

CONDTYPE	NEAR-END_CONDDTYPE:{ACTLPBK, AIS, DUPTARPENRY, EBER, ESW, FRCDWKS WBK, FRCDWKS WPR, INHPMREPT, L2LCONFAIL, L2S CONFAIL, LDCCDLFL, LOCKOUTOFPR, LOF, LOS, MAN, MANWKS WBK, MANWKS WPR, SDBER, SDCCDLFL, WTR}, FAR-END_CONDDTYPE:{RFI}
Default:	< All applicable condition types listed above >
Addressing:	None
Description:	Condition Type, specifies the condition type to be retrieved. (Refer to Appendix C for a list of all condition types.) Values are:
ACTLPBK	Active Loopback, the OC-3 port is in loopback. (Near-End only.)
AIS	Alarm Indication Signal, AIS detected. (Near-End only.)
DUPTARPENRY	Duplicate TARP adjacency table. (Near-End only.)
EBER	Excessive Bit Error Rate detected. (Near-End only.)
ESW	Excessive Switching, lock out of automatic revertive (OC-3) switching due to excessive switching. (Near-End only.)
FRCDWKS WBK	Forced Working Switched Back, working facility was manually force switched from protection to the main facility. (Near-End only.)
FRCDWKS WPR	Forced Working Switched to Protection, working facility was manually force switched to the protection facility. (Near-End only.)
INHPMREPT	Inhibit Performance Monitoring Report, PM report capability inhibited. (Near-End only.)
L2LCONFAIL	Layer 2 Line DCC Connection Failure. (Near-End only.)
L2S CONFAIL	Layer 2 Section DCC Connection Failure. (Near-End only.)
LDCCDLFL	Line DCC Data Link Failure. (Near-End only.)
LOCKOUTOFPR	LockOut Of Protection facility. (Near-End only.)
LOF	Loss Of Frame detected. (Near-End only.)
LOS	Loss Of Signal detected. (Near-End only.)
MAN	Manual removal (logical removal was performed on the facility). (Near-End only.)
MANWKS WBK	Manual Working Switched Back, working facility was manually switched back to the main facility. (Near-End only.)
MANWKS WPR	Manual Working Switched to Protection, working facility was manually switched to the protection facility. (Near-End only.)
RFI	Remote Failure Indication detected. (Far-End only.)
SDBER	Signal Degrade Bit Error Rate detected. (Near-End only.)
SDCCDLFL	Section DCC Data Link Failure. (Near-End only.)
WTR	Wait To Restore of protection facility. (Near-End only.)
Restrictions:	RTRV-COND-OC3 is denied if the specified CONDDTYPE value is not supported for the specified LOCN value (e.g., CONDDTYPE of RFI and LOCN of NEND is entered).

LOCN	{FEND, NEND}	
	Default:	< All location values applicable to the specified condition type >
	Addressing:	None
	Description:	Location, specifies the location where the condition type is monitored. Values are:
	FEND	Far-End, events occurring at a distant network element.
DIRN	NEND	Near-End, events occurring at the system.
	Restrictions:	RTRV-COND-OC3 is denied if the specified LOCN value is not supported for the specified CONDTYPE value (e.g., CONDTYPE of RFI and LOCN of NEND is entered).
	{NA, RCV, TRMT}	
	Default:	< All applicable directions >
	Addressing:	None
TMPER	Description:	Direction, specifies the direction of the condition type being monitored. The value for DIRN is verified, but does not affect the function of the RTRV-COND-OC3 command.
	NA	Not Applicable
	RCV	Receive side
	TRMT	Transmit direction
	{15-MIN, 1-DAY}	
	Default:	{15-MIN}
	Addressing:	None
	Description:	Time Period. The value for TMPER is verified, but does not affect the function of the RTRV-COND-OC3 command.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  ["<AID>,OC3:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,<OCRDAT>,<OCRTM>,<LOCN>,, "]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

OUTPUT PARAMETERS

AID	OC3_AID:	
	{OC3-{1-2240}}	(OC3-OC3#)
	OC3 AID, identifies the OC-3 port.	
NTFCNCDE	{NA, NR}	
	Notification Code, identifies the notification code generated by the system when the condition occurred. Values are:	
	NA	Not Alarmed
	NR	Not Reported

CONDTYPE	<p>NEAR-END_CONDDTYPE:{ACTLPBK, AIS, DUPTARPENRY, EBER, ESW, FRCDWKS WBK, FRCDWKS WPR, INHPMREPT, L2LCONFAIL, L2S CONFAIL, LDCCDLFL, LOCKOUTOFPR, LOF, LOS, MAN, MANWKS WBK, MANWKS WPR, SDBER, SDCCDLFL, WTR},</p> <p>FAR-END_CONDDTYPE:{RFI}</p> <p>Condition Type, identifies the condition type being retrieved. (Refer to Appendix C for a list of all condition types.) Values are:</p> <table> <tr><td>ACTLPBK</td><td>Active Loopback, the OC-3 port is in loopback.</td></tr> <tr><td>AIS</td><td>Alarm Indication Signal, AIS detected.</td></tr> <tr><td>DUPTARPENRY</td><td>Duplicate TARP adjacency table.</td></tr> <tr><td>EBER</td><td>Excessive Bit Error Rate detected.</td></tr> <tr><td>ESW</td><td>Excessive Switching, lockout of automatic revertive (OC-3) switching due to excessive switching.</td></tr> <tr><td>FRCDWKS WBK</td><td>Forced Working Switched Back, working facility was manually force switched from protection to the main facility.</td></tr> <tr><td>FRCDWKS WPR</td><td>Forced Working Switched to Protection, working facility was manually force switched to the protection facility.</td></tr> <tr><td>INHPMREPT</td><td>Inhibit Performance Monitoring Report, PM report capability inhibited.</td></tr> <tr><td>L2LCONFAIL</td><td>Layer 2 Line DCC Connection Failure.</td></tr> <tr><td>L2S CONFAIL</td><td>Layer 2 Section DCC Connection Failure.</td></tr> <tr><td>LDCCDLFL</td><td>Line DCC Data Link Failure.</td></tr> <tr><td>LOCKOUTOFPR</td><td>LockOut Of Protection facility.</td></tr> <tr><td>LOF</td><td>Loss Of Frame detected.</td></tr> <tr><td>LOS</td><td>Loss Of Signal detected.</td></tr> <tr><td>MAN</td><td>Manual removal (logical removal was performed on the facility).</td></tr> <tr><td>MANWKS WBK</td><td>Manual Working Switched Back, working facility was manually switched back to the main facility.</td></tr> <tr><td>MANWKS WPR</td><td>Manual Working Switched to Protection, working facility was manually switched to the protection facility.</td></tr> <tr><td>RFI</td><td>Remote Failure Indication detected.</td></tr> <tr><td>SDBER</td><td>Signal Degrade Bit Error Rate detected.</td></tr> <tr><td>SDCCDLFL</td><td>Section DCC Data Link Failure</td></tr> <tr><td>WTR</td><td>Wait To Restore of protection facility.</td></tr> </table>	ACTLPBK	Active Loopback, the OC-3 port is in loopback.	AIS	Alarm Indication Signal, AIS detected.	DUPTARPENRY	Duplicate TARP adjacency table.	EBER	Excessive Bit Error Rate detected.	ESW	Excessive Switching, lockout of automatic revertive (OC-3) switching due to excessive switching.	FRCDWKS WBK	Forced Working Switched Back, working facility was manually force switched from protection to the main facility.	FRCDWKS WPR	Forced Working Switched to Protection, working facility was manually force switched to the protection facility.	INHPMREPT	Inhibit Performance Monitoring Report, PM report capability inhibited.	L2LCONFAIL	Layer 2 Line DCC Connection Failure.	L2S CONFAIL	Layer 2 Section DCC Connection Failure.	LDCCDLFL	Line DCC Data Link Failure.	LOCKOUTOFPR	LockOut Of Protection facility.	LOF	Loss Of Frame detected.	LOS	Loss Of Signal detected.	MAN	Manual removal (logical removal was performed on the facility).	MANWKS WBK	Manual Working Switched Back, working facility was manually switched back to the main facility.	MANWKS WPR	Manual Working Switched to Protection, working facility was manually switched to the protection facility.	RFI	Remote Failure Indication detected.	SDBER	Signal Degrade Bit Error Rate detected.	SDCCDLFL	Section DCC Data Link Failure	WTR	Wait To Restore of protection facility.
ACTLPBK	Active Loopback, the OC-3 port is in loopback.																																										
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SDBER	Signal Degrade Bit Error Rate detected.																																										
SDCCDLFL	Section DCC Data Link Failure																																										
WTR	Wait To Restore of protection facility.																																										
SRVEFF	<p>{NSA, SA}</p> <p>Service Effect, identifies the service effect of the condition type and notification code being retrieved. Values are:</p> <table> <tr><td>NSA</td><td>Non-Service Affecting</td></tr> <tr><td>SA</td><td>Service Affecting</td></tr> </table>	NSA	Non-Service Affecting	SA	Service Affecting																																						
NSA	Non-Service Affecting																																										
SA	Service Affecting																																										
OCRDAT	<p>{MONTH-DAY:{01-12} - {01-31} }</p> <p>Occurrence Date, identifies the date when the condition occurred. The format of OCRDAT is <MONTH_OF_YEAR> - <DAY_OF_MONTH>.</p>																																										
OCRTM	<p>{HOUR-MINUTE-SECOND:{00-23} - {00-59} - {00-59} }</p> <p>Occurrence Time, identifies the time when the condition occurred. The format of OCRTM is <HOUR_OF_DAY> - <MINUTE_OF_HOUR> -<SECOND_OF_MINUTE>.</p>																																										
LOCN	<p>{FEND, NEND}</p> <p>Location, identifies the location where the condition type is monitored. Values are:</p> <table> <tr><td>FEND</td><td>Far-End, events occurring at a distant network element.</td></tr> <tr><td>NEND</td><td>Near-End, events occurring at the system.</td></tr> </table>	FEND	Far-End, events occurring at a distant network element.	NEND	Near-End, events occurring at the system.																																						
FEND	Far-End, events occurring at a distant network element.																																										
NEND	Near-End, events occurring at the system.																																										

UNSUCCESSFUL RESPONSE FORMAT

```

    <SID> <YY-MM-DD> <HH:MM:SS>
M  <CTAG> DENY
    <ERROR CODE>
    [/* <Informational Error Description Text> */]
    [/* <Expanded Error Code Description> */]
    [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent /* Condition type is not consistent with <FACILITY TYPE STRING>. */ /* Location is not consistent with <FACILITY TYPE STRING> <CONDITION TYPE STRING>. */
IDNV	Input, Data Not Valid /* Invalid notification code specified: <NOTIFICATION CODE STRING>. */ /* Invalid service effect specified: <SERVICE EFFECT STRING>. */ /* Invalid location specified: <LOCATION STRING>. */ /* Invalid condition type specified: <CONDITION TYPE STRING>. */ /* Invalid parameter specified. */
IIAC	Input, Invalid ACcess identifier /* Invalid Access ID specified. */
SROF	Status, Requested Operation Failed /* Cannot open <FILENAME>. */ /* rpt_file error – <ERRNO>, status = <STATUS>. */ /* nrl_rpt_print error – no transaction, msgtype = <MSGTYPE>. */ /* rpt_print error – <ERRNO>, status = <STATUS>. */

EXAMPLES

In the following example, any existing non-alarmed or not-reported standing conditions for OC-3 ports OC3-124 through OC3-125 are retrieved.

```
RTRV-COND-OC3::OC3-124&&-125;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated a CTAG value of P71061. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```

    <SID> <YY-MM-DD> <HH:MM:SS>
M  P71061 COMPLD
    "OC3-124,OC3:NA,INHMPREPT,NSA,07-02,11-42-18,NEND,, "
    "OC3-125,OC3:NA,INHMPREPT,NSA,07-02,11-42-18,NEND,, "
    /* RTRV-COND-OC3::OC3-124&&-125 [P71061] (1) */
;

```

In the following example, all existing non–alarmed or not–reported standing conditions for OC–3 port OC3–113 are retrieved.

```
RTRV-COND-OC3::OC3-113;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated a CTAG value of P71066. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P71066 COMPLD
"OC3-113,OC3:NA,INHMPREPT,NSA,07-02,09-05-12,NEND,, "
"OC3-113,OC3:NA,MAN,NSA,07-02,09-25-42,NEND,, "
/* RTRV-COND-OC3::OC3-113 [P71066] (2) */
;
```

RELATED COMMANDS

```
RTRV-ALM-ALL
RTRV-ALM-OC3
RTRV-ATTR-OC3
RTRV-COND-ALL
RTRV-DFLTATTR-OC3
SET-ATTR-OC3
SET-DFLTATTR-OC3
```

RELATED AUTONOMOUS RESPONSES

```
REPT^EVT^OC3
```

COMMAND CODE: **RTRV-COND-STS1**
COMMAND NAME: **RETRIEVE CONDITION STS-1**

PURPOSE

The RTRV-COND-STS1 command retrieves the current status of any existing non-alarmed or not-reported standing conditions for the specified STS-1 port, or for the specified STS-1 port and any matching combination of a specified condition type and location (i.e., the CONDTYPE and LOCN parameters provide a filter for retrieving existing conditions satisfying the specified input parameters). The command is completed regardless of whether the STS-1 port is provisioned.

The successful response for a RTRV-COND-STS1 command contains one line of parsable output data, in ascending order by port number and ascending order by date and time of occurrence within each port number, for each non-alarmed or not-reported standing condition being reported. If an AID of ALL is entered, all AIDs with an existing non-alarmed or not-reported standing condition are reported.

If there are no existing non-alarmed or not-reported standing conditions with attributes matching the specified (valid) combination of AID, condition type, and location, then the command is completed with no line of parsable output data provided in the response message. In addition, no line of parsable output data is provided if the specified STS-1 is embedded within a protection OC-3 or OC-12.

A RTRV-COND-STS1 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-COND-STS1: [TID] :AID: [CTAG] :: [CONDTYPE] , [LOCN] , [DIRN] , [TMPER] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >		
	Default:	<SID>	
	Addressing:	None	
	Description:	Target Identifier, specifies the network node TID for the command.	
AID	STS1_AID:		
	{EC1STS1-{1-3840}}	(EC1STS1-EC1/STS1#)	
	{OC3STS1-{1-2240}-{1-3}}	(OC3STS1-OC3#-STS1#)	
	{OC12STS1-{1-560}-{1-4}-{1-3}}	(OC12STS1-OC12#-STM1#-STS1#)	
	ALL_AID:		
	{ALL}		
	Default:	Entry Required	
	Addressing:	&&-ranging and &-grouping	
	Description:	STS1 AID, identifies the STS-1 port. Name-defined values are:	
	ALL	All provisioned STS-1 ports in the system.	
CTAG	< 1-6 VALID CTAG CHARACTERS >		
	Default:	< System assigned CTAG value >	
	Addressing:	None	
	Description:	Correlation Tag, associates input command with its output responses.	

CONDTYPE	<p>NEAR-END_CONDDTYPE:{ACTLPBK, AIS, EBER, FLTESC, FRCDWKSWBK, FRCDWKSWPR, IDLE, INHPMREPT, LOP, MAN, MANWKSWBK, MANWKSWPR, PDI, SDBER, SLMF}, FAR-END_CONDDTYPE:{RFI}</p> <p>Default: < All applicable condition types listed above > Addressing: None Description: Condition Type, specifies the condition type to be retrieved. (Refer to Appendix C for a list of all condition types.) Values are:</p> <table> <tr> <td>ACTLPBK</td><td>Active Loopback, the STS-1 port is in loop back. (Near-End only.)</td></tr> <tr> <td>AIS</td><td>Alarm Indication Signal, AIS detected. (Near-End only.)</td></tr> <tr> <td>EBER</td><td>Excessive Bit Error Rate detected. (Near-End only.)</td></tr> <tr> <td>FLTESC</td><td>Facility Fault Escalation active. (Near-End only.)</td></tr> <tr> <td>FRCDWKSWBK</td><td>Forced Working Switched Back, working facility was manually force switched from protection to the main facility. (Near-End only.)</td></tr> <tr> <td>FRCDWKSWPR</td><td>Forced Working Switched to Protection, working facility was manually force switched to the protection facility. (Near-End only.)</td></tr> <tr> <td>IDLE</td><td>Idle, incoming idle detected. (Near-End only.)</td></tr> <tr> <td>INHPMREPT</td><td>Inhibit Performance Monitoring Report, PM report capability inhibited. (Near-End only.)</td></tr> <tr> <td>LOP</td><td>Loss Of Pointer detected. (Near-End only.)</td></tr> <tr> <td>MAN</td><td>Manual removal (logical removal was performed on the facility). (Near-End only.)</td></tr> <tr> <td>MANWKSWBK</td><td>Manual Working Switched Back, working facility was manually switched from protection to the main facility. (Near-End only.)</td></tr> <tr> <td>MANWKSWPR</td><td>Manual Working Switched to Protection, working facility was manually switched to the protection facility. (Near-End only.)</td></tr> <tr> <td>PDI</td><td>Incoming PDI signal detected (STS1)</td></tr> <tr> <td>RFI</td><td>Remote Failure Indication detected. (Far-End only.)</td></tr> <tr> <td>SDBER</td><td>Signal Degrade Bit Error Rate detected. (Near-End only.)</td></tr> <tr> <td>SLMF</td><td>Signal Label Match Failure detected. (Near-End only.)</td></tr> </table> <p>Restrictions: RTRV-COND-STS1 is denied if the specified CONDDTYPE value is not supported for the specified LOCN value (e.g., CONDDTYPE of AIS and LOCN of FEND is entered).</p>	ACTLPBK	Active Loopback, the STS-1 port is in loop back. (Near-End only.)	AIS	Alarm Indication Signal, AIS detected. (Near-End only.)	EBER	Excessive Bit Error Rate detected. (Near-End only.)	FLTESC	Facility Fault Escalation active. (Near-End only.)	FRCDWKSWBK	Forced Working Switched Back, working facility was manually force switched from protection to the main facility. (Near-End only.)	FRCDWKSWPR	Forced Working Switched to Protection, working facility was manually force switched to the protection facility. (Near-End only.)	IDLE	Idle, incoming idle detected. (Near-End only.)	INHPMREPT	Inhibit Performance Monitoring Report, PM report capability inhibited. (Near-End only.)	LOP	Loss Of Pointer detected. (Near-End only.)	MAN	Manual removal (logical removal was performed on the facility). (Near-End only.)	MANWKSWBK	Manual Working Switched Back, working facility was manually switched from protection to the main facility. (Near-End only.)	MANWKSWPR	Manual Working Switched to Protection, working facility was manually switched to the protection facility. (Near-End only.)	PDI	Incoming PDI signal detected (STS1)	RFI	Remote Failure Indication detected. (Far-End only.)	SDBER	Signal Degrade Bit Error Rate detected. (Near-End only.)	SLMF	Signal Label Match Failure detected. (Near-End only.)
ACTLPBK	Active Loopback, the STS-1 port is in loop back. (Near-End only.)																																
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SDBER	Signal Degrade Bit Error Rate detected. (Near-End only.)																																
SLMF	Signal Label Match Failure detected. (Near-End only.)																																
LOCN	<p>{FEND, NEND}</p> <p>Default: < All location values applicable to the specified condition type > Addressing: None Description: Location, specifies the location where the condition type is monitored. Values are:</p> <table> <tr> <td>FEND</td><td>Far-End, events occurring at a distant network element.</td></tr> <tr> <td>NEND</td><td>Near-End, events occurring at the system.</td></tr> </table> <p>Restrictions: RTRV-COND-STS1 is denied if the specified LOCN value is not supported for the specified CONDDTYPE value (e.g., CONDDTYPE of AIS and LOCN of FEND is entered).</p>	FEND	Far-End, events occurring at a distant network element.	NEND	Near-End, events occurring at the system.																												
FEND	Far-End, events occurring at a distant network element.																																
NEND	Near-End, events occurring at the system.																																

DIRN	{NA, RCV, TRMT}
Default:	< All applicable directions >
Addressing:	None
Description:	Direction, specifies the direction of the condition type being monitored. The value for DIRN is verified, but does not affect the function of the RTRV-COND-STS1 command.
	NA Not Applicable
	RCV Receive side
	TRMT Transmit direction
TMPER	{15-MIN, 1-DAY}
Default:	{15-MIN}
Addressing:	None
Description:	Time Period. The value for TMPER is verified, but does not affect the function of the RTRV-COND-STS1 command.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  ["<AID>, STS1:<NTFCNCDE>, <CONDTYPE>, <SRVEFF>, <OCRDAT>, <OCRTM>, <LOCN>,
  [<DIRN>], "]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

OUTPUT PARAMETERS

AID	STS1_AID:	
	{EC1STS1-{1-3840}}	(EC1STS1-EC1/STS1#)
	{OC3STS1-{1-2240}-{1-3}}	(OC3STS1-OC3#-STS1#)
	{OC12STS1-{1-560}-{1-4}-{1-3}}	(OC12STS1-OC12#-STM1#-STS1#)
	STS1 AID, identifies the STS-1 port.	
NTFCNCDE	{NA, NR}	
	Notification Code, identifies the notification code generated by the system when the condition occurred. Values are:	
	NA	Not Alarmed
	NR	Not Reported

CONDTYPE	NEAR-END_CONDDTYPE:{ACTLPBK, AIS, EBER, FLTESC, FRCDWKSWBK, FRCDWKSWPR, IDLE, INHPMREPT, LOP, MAN, MANWKSWBK, MANWKSWPR, PDI, SDBER, SLMF}, FAR-END_CONDDTYPE:{RFI} Condition Type, identifies the condition type being retrieved. (Refer to Appendix C for a list of all condition types.) Values are:	
	ACTLPBK	Active Loopback, the STS-1 port is in loop back.
	AIS	Alarm Indication Signal, AIS detected.
	EBER	Excessive Bit Error Rate detected.
	FLTESC	Facility Fault Escalation active.
	FRCDWKSWBK	Forced Working Switched Back, working facility was manually force switched from protection to the main facility.
	FRCDWKSWPR	Forced Working Switched to Protection, working facility was manually force switched to the protection facility.
	IDLE	Idle, incoming idle detected.
	INHPMREPT	Inhibit Performance Monitoring Report, PM report capability inhibited.
	LOP	Loss Of Pointer detected.
	MAN	Manual removal (logical removal was performed on the facility).
	MANWKSWBK	Manual Working Switched Back, working facility was manually switched from protection to the main facility.
	MANWKSWPR	Manual Working Switched to Protection, working facility was manually switched to the protection facility.
	PDI	Incoming PDI signal detected (STS1)
	RFI	Remote Failure Indication detected.
	SDBER	Signal Degrade Bit Error Rate detected.
	SLMF	Signal Label Match Failure detected.
SRVEFF	{NSA, SA} Service Effect, identifies the service effect of the condition type and notification code being retrieved. Values are:	
	NSA	Non-Service Affecting
	SA	Service Affecting
OCRDAT	{MONTH-DAY:{01-12} - {01-31} } Occurrence Date, identifies the date when the condition occurred. The format of OCRDAT is <MONTH_OF_YEAR> - <DAY_OF_MONTH>.	
OCRTM	{HOUR-MINUTE-SECOND:{00-23} - {00-59} - {00-59} } Occurrence Time, identifies the time when the condition occurred. The format of OCRTM is <HOUR_OF_DAY> - <MINUTE_OF_HOUR> -<SECOND_OF_MINUTE>.	
LOCN	{FEND, NEND} Location, identifies the location where the condition type is monitored. Values are:	
	FEND	Far-End, events occurring at a distant network element.
	NEND	Near-End, events occurring at the system.
DIRN	{TRMT, <NoVal>} Direction, identifies the direction of the condition type being monitored. Values are:	
	TRMT	Transmit Direction, value returned for CONDTYPE of FLTESC.
	<NoVal>	No Value (null) returned for all conditions other than FLTESC.

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent
	/* Condition type is not consistent with <FACILITY TYPE STRING>. */
	/* Location is not consistent with <FACILITY TYPE STRING> <CONDITION TYPE STRING>. */
IDNV	Input, Data Not Valid
	/* Invalid notification code specified: <NOTIFICATION CODE STRING>. */
	/* Invalid service effect specified: <SERVICE EFFECT STRING>. */
	/* Invalid location specified: <LOCATION STRING>. */
	/* Invalid condition type specified: <CONDITION TYPE STRING>. */
	/* Invalid parameter specified. */
IIAC	Input, Invalid ACcess identifier
	/* Invalid Access ID specified. */
SROF	Status, Requested Operation Failed
	/* Cannot open <FILENAME>. */
	/* rpt_file error – <ERRNO>, status = <STATUS>. */
	/* nrl_rpt_print error – no transaction, msgtype = <MSGTYPE>. */
	/* rpt_print error – <ERRNO>, status = <STATUS>. */

EXAMPLES

In the following example, any existing non-alarmed or not-reported standing conditions for STS-1 ports EC1STS1-349 through EC1STS1-350 are retrieved.

```
RTRV-COND-STs1::EC1STS1-349&&-350;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated a CTAG value of P71061. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```

<SID> <YY-MM-DD> <HH:MM:SS>
M P71061 COMPLD
  "EC1STS1-349,STS1:NA,INHMPREPT,NSA,07-02,11-42-18,NEND,, "
  "EC1STS1-350,STS1:NA,INHMPREPT,NSA,07-02,11-42-18,NEND,, "
  [/ * RTRV-COND-STs1::EC1STS1-349&&-350 [P71061] (1) */]
;

```

In the following example, all existing non-alarmed or not-reported standing conditions for STS-1 port EC1STS1-337 are retrieved.

```
RTRV-COND-STs1::EC1STS1-337;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated a CTAG value of P71066. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M  P71066  COMPLD
    "EC1STS1-337,STS1:NA,INHMPREPT,NSA,07-02,09-05-12,NEND,, "
    "EC1STS1-337,STS1:NA,MAN,NSA,07-02,09-25-42,NEND,, "
    /* RTRV-COND-STS1::EC1STS1-337 [P71066] (2) */
;
```

RELATED COMMANDS

```
RTRV-ALM-ALL
RTRV-ALM-STS1
RTRV-ATTR-STS1
RTRV-COND-ALL
RTRV-DFLTATTR-STS1
SET-ATTR-STS1
SET-DFLTATTR-STS1
```

RELATED AUTONOMOUS RESPONSES

```
REPT^EVT^STS1
```

COMMAND CODE: **RTRV-COND-STS3C**
COMMAND NAME: **RETRIEVE CONDITION STS-3C**

PURPOSE

The RTRV-COND-STS3C command retrieves the current status of any existing non-alarmed or not-reported standing conditions for the specified STS-3C port, or for the specified STS-3C port and any matching combination of a specified condition type and location (i.e., the CONDTYPE and LOCN parameters provide a filter for retrieving existing conditions satisfying the specified input parameters). The command is completed regardless of whether the STS-3C port is provisioned.

The successful response for a RTRV-COND-STS3C command contains one line of parsable output data, in ascending order by port number and ascending order by date and time of occurrence within each port number, for each non-alarmed or not-reported standing condition being reported. If an AID of ALL is entered, all AIDs with an existing non-alarmed or not-reported standing condition are reported.

If there are no existing non-alarmed or not-reported standing conditions with attributes matching the specified (valid) combination of AID, condition type, and location, then the command is completed with no line of parsable output data provided in the response message. In addition, no line of parsable output data is provided if the specified STS-3C is embedded within a protection OC-3 or OC-12.

A RTRV-COND-STS3C command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-COND-STS3C: [TID] :AID: [CTAG] : : [CONDTYPE] , [LOCN] , [DIRN] , [TMPER] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >		
	Default:	<SID>	
	Addressing:	None	
	Description:	Target Identifier, specifies the network node TID for the command.	
AID	STS3C_AID:		
	{OC3STS3C-{1-2240}}	(OC3STS3C-OC3#/STS3C#)	
	{OC12STS3C-{1-560}-{1-4}}	(OC12STS3C-OC12#-STM1/STS3C#)	
	ALL_AID:		
	{ALL}		
	Default:	Entry Required	
	Addressing:	&&-ranging and &-grouping	
	Description:	STS3C AID, identifies the STS-3C port. Name-defined values are:	
	ALL	All provisioned STS-3C ports in the system.	
CTAG	< 1-6 VALID CTAG CHARACTERS >		
	Default:	< System assigned CTAG value >	
	Addressing:	None	
	Description:	Correlation Tag, associates input command with its output responses.	

CONDTYPE	NEAR-END_CONDDTYPE:{ACTLPBK, AIS, IDLE, INHPMREPT, LOP, MAN, SLMF}, FAR-END_CONDDTYPE:{RFI} Default: < All applicable condition types listed above > Addressing: None Description: Condition Type, specifies the condition type to be retrieved. (Refer to Appendix C for a list of all condition types.) Values are: <table> <tr> <td>ACTLPBK</td><td>Active Loopback, the STS-3C port is in loop back. (Near-End only.)</td></tr> <tr> <td>AIS</td><td>Alarm Indication Signal, AIS detected. (Near-End only.)</td></tr> <tr> <td>IDLE</td><td>Idle, incoming idle detected. (Near-End only.)</td></tr> <tr> <td>INHPMREPT</td><td>Inhibit Performance Monitoring Report, PM report capability Inhibited. (Near-End only.)</td></tr> <tr> <td>LOP</td><td>Loss Of Pointer detected. (Near-End only.)</td></tr> <tr> <td>MAN</td><td>Manual removal (logical removal was performed on the facility). (Near-End only.)</td></tr> <tr> <td>RFI</td><td>Remote Failure Indication detected. (Far-End only.)</td></tr> <tr> <td>SLMF</td><td>Signal Label Match Failure detected. (Near-End only.)</td></tr> </table> Restrictions: RTRV-COND-STSC is denied if the specified CONDDTYPE value is not supported for the specified LOCN value (e.g., CONDDTYPE of AIS and LOCN of FEND is entered).	ACTLPBK	Active Loopback, the STS-3C port is in loop back. (Near-End only.)	AIS	Alarm Indication Signal, AIS detected. (Near-End only.)	IDLE	Idle, incoming idle detected. (Near-End only.)	INHPMREPT	Inhibit Performance Monitoring Report, PM report capability Inhibited. (Near-End only.)	LOP	Loss Of Pointer detected. (Near-End only.)	MAN	Manual removal (logical removal was performed on the facility). (Near-End only.)	RFI	Remote Failure Indication detected. (Far-End only.)	SLMF	Signal Label Match Failure detected. (Near-End only.)
ACTLPBK	Active Loopback, the STS-3C port is in loop back. (Near-End only.)																
AIS	Alarm Indication Signal, AIS detected. (Near-End only.)																
IDLE	Idle, incoming idle detected. (Near-End only.)																
INHPMREPT	Inhibit Performance Monitoring Report, PM report capability Inhibited. (Near-End only.)																
LOP	Loss Of Pointer detected. (Near-End only.)																
MAN	Manual removal (logical removal was performed on the facility). (Near-End only.)																
RFI	Remote Failure Indication detected. (Far-End only.)																
SLMF	Signal Label Match Failure detected. (Near-End only.)																
LOCN	{FEND, NEND} Default: < All location values applicable to the specified condition type > Addressing: None Description: Location, specifies the location where the condition type is monitored. Values are: <table> <tr> <td>FEND</td><td>Far-End, events occurring at a distant network element.</td></tr> <tr> <td>NEND</td><td>Near-End, events occurring at the system.</td></tr> </table> Restrictions: RTRV-COND-STSC is denied if the specified LOCN value is not supported for the specified CONDDTYPE value (e.g., CONDDTYPE of AIS and LOCN of FEND is entered).	FEND	Far-End, events occurring at a distant network element.	NEND	Near-End, events occurring at the system.												
FEND	Far-End, events occurring at a distant network element.																
NEND	Near-End, events occurring at the system.																
DIRN	{NA, RCV, TRMT} Default: {NA} Addressing: None Description: Direction, specifies the direction of the condition type being monitored. The value for DIRN is verified, but does not affect the function of the RTRV-COND-STSC command. <table> <tr> <td>NA</td><td>Not Applicable</td></tr> <tr> <td>RCV</td><td>Receive side</td></tr> <tr> <td>TRMT</td><td>Transmit direction</td></tr> </table>	NA	Not Applicable	RCV	Receive side	TRMT	Transmit direction										
NA	Not Applicable																
RCV	Receive side																
TRMT	Transmit direction																
TMPER	{15-MIN, 1-DAY} Default: {15-MIN} Addressing: None Description: Time Period. The value for TMPER is verified, but does not affect the function of the RTRV-COND-STSC command.																

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  ["<AID>, STSC:<NTFCNCDE>, <CONDDTYPE>, <SRVEFF>, <OCDAT>, <OCDTM>,
<LOCN>,, "]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

OUTPUT PARAMETERS

AID	STS3C_AID: {OC3STS3C-{1-2240}} {OC12STS3C-{1-560}}-{1-4}} STS3C AID, identifies the STS-3C port.	(OC3STS3C-OC3#/STS3C#) (OC12STS3C-OC12#-STM1/STS3C#)
NTFCNCDE	{NA, NR} Notification Code, identifies the notification code generated by the system when the condition occurred. Values are: NA Not Alarmed NR Not Reported	
CONDTYPE	NEAR-END_CONDTYPE:{ACTLPBK, AIS, IDLE, INHPMREPT, LOP, MAN, SLMF}, FAR-END_CONDTYPE:{RFI} Condition Type, identifies the condition type being retrieved. (Refer to Appendix C for a list of all condition types.) Values are: ACTLPBK Active Loopback, the STS-3C port is in loop back. AIS Alarm Indication Signal, AIS detected. IDLE Idle, incoming idle detected. INHPMREPT Inhibit Performance Monitoring Report, PM report capability Inhibited. LOP Loss Of Pointer detected. MAN Manual removal (logical removal was performed on the facility). RFI Remote Failure Indication detected. SLMF Signal Label Match Failure detected.	
SRVEFF	{NSA, SA} Service Effect, identifies the service effect of the condition type and notification code being retrieved. Values are: NSA Non-Service Affecting SA Service Affecting	
OCRDAT	{MONTH-DAY:{01-12} - {01-31} } Occurrence Date, identifies the date when the condition occurred. The format of OCRDAT is <MONTH_OF_YEAR> - <DAY_OF_MONTH>.	
OCRTM	{HOUR-MINUTE-SECOND:{00-23} - {00-59} - {00-59} } Occurrence Time, identifies the time when the condition occurred. The format of OCRTM is <HOUR_OF_DAY> - <MINUTE_OF_HOUR> -<SECOND_OF_MINUTE>.	
LOCN	{FEND, NEND} Location, identifies the location where the condition type is monitored. Values are: FEND Far-End, events occurring at a distant network element. NEND Near-End, events occurring at the system.	

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent /* Condition type is not consistent with <FACILITY TYPE STRING>. */ /* Location is not consistent with <FACILITY TYPE STRING> <CONDITION TYPE STRING>. */
IDNV	Input, Data Not Valid /* Invalid notification code specified: <NOTIFICATION CODE STRING>. */ /* Invalid service effect specified: <SERVICE EFFECT STRING>. */ /* Invalid location specified: <LOCATION STRING>. */ /* Invalid condition type specified: <CONDITION TYPE STRING>. */ /* Invalid parameter specified. */
IIAC	Input, Invalid ACcess identifier /* Invalid Access ID specified. */
SROF	Status, Requested Operation Failed /* Cannot open <FILENAME>. */ /* rpt_file error – <ERRNO>, status = <STATUS>. */ /* nrl_rpt_print error – no transaction, msgtype = <MSGTYPE>. */ /* rpt_print error – <ERRNO>, status = <STATUS>. */

EXAMPLES

In the following example, any existing non–alarmed or not–reported standing conditions for STS–3C ports OC3STS3C–12 through OC3STS3C–13 are retrieved.

```
RTRV-COND-STS3C::OC3STS3C-12&&-13;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated a CTAG value of P71061. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P71061 COMPLD
"OC3STS3C-12,STS3C:NA,INHMPREPT,NSA,07-02,11-42-18,NEND,, "
"OC3STS3C-13,STS3C:NA,INHMPREPT,NSA,07-02,11-42-18,NEND,, "
/* RTRV-COND-STS3C::OC3STS3C-12&&-13 [P71061] (1) */
;
```

In the following example, all existing non–alarmed or not–reported standing conditions for STS–3C port OC3STS3C–1 are retrieved.

```
RTRV-COND-STS3C::OC3STS3C-1;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated a CTAG value of P71066. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P71066 COMPLD
"OC3STS3C-1,STS3C:NA,INHMPREPT,NSA,07-02,09-05-12,NEND,, "
"OC3STS3C-1,STS3C:NA,MAN,NSA,07-02,09-25-42,NEND,, "
/* RTRV-COND-STS3C::OC3STS3C-1 [P71066] (2) */
;
```

RELATED COMMANDS

```
RTRV-ALM-ALL
RTRV-ALM-STS3C
RTRV-ATTR-STS3C
RTRV-COND-ALL
RTRV-DFLTATTR-STS3C
SET-ATTR-STS3C
```

SET-DFLTATTR-STS3C

RELATED AUTONOMOUS RESPONSES

REPT^EVT^STS3C

COMMAND CODE: **RTRV-COND-T1**
COMMAND NAME: **RETRIEVE CONDITION T1**

PURPOSE

The RTRV-COND-T1 command retrieves the current status of any existing non-alarmed or not-reported standing conditions for the specified DS1 or Timing Reference (TMG) port, or for the specified DS1 or TMG port and any matching combination of a specified condition type and location (i.e., the CONDTYPE and LOCN parameters provide a filter for retrieving existing conditions satisfying the specified input parameters). The command is completed regardless of whether the DS1 or TMG port is provisioned.

The successful response for a RTRV-COND-T1 command contains one line of parsable output data, in ascending order by port number and ascending order by date and time of occurrence within each port number, for each non-alarmed or not-reported standing condition being reported. If an AID of ALL is entered, all AIDs with an existing non-alarmed or not-reported standing condition are reported.

If there are no existing non-alarmed or not-reported standing conditions with attributes matching the specified (valid) combination of AID, condition type, and location, then the command is completed with no line of parsable output data provided in the response message. In addition, no line of parsable output data is provided if the specified DS1 is embedded within a protection OC3.

A RTRV-COND-T1 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-COND-T1 : [TID] : AID : [CTAG] : : [CONDTYPE] , [LOCN] , [DIRN] , [TMPER] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	DS1_AID: { T1-{1-59392} } (T1-DS1#) { T3T1-{1-4800}-{1-28} } (T3T1-DS3#-DS1#) { EC1T1-{1-3840}-{1-28} } (EC1T1-EC1/STS1/DS3#-DS1#) { EC1T1-{1-3840}-{1-7}-{1-4} } (EC1T1-EC1/STS1#-VTGrp#-VT1/DS1#) { OC3T1-{1-2240}-{1-3}-{1-7}-{1-4} } (OC3T1-OC3#-STS1#-VTGrp#-VT1/DS1#) { OC3T1-{1-2240}-{1-3}-{1-28} } (OC3T1-OC3#-STS1/DS3#-DS1#) { OC12T1-{1-560}-{1-4}-{1-3}-{1-28} } (OC12T1-OC12#-STM1#-STS1/DS3#-DS1#) { OC12T1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4} } (OC12T1-OC12#-STM1#-STS1#-VTGrp#-VT1/DS1#) TMG_AID: { TMG-{0, 1} } ALL_AID: { ALL } Default: Entry Required Addressing: &&-ranging and &-grouping Description: DS1/TMG AID, identifies the DS1 or Timing Reference port. Name-defined values are: ALL All provisioned DS1 and TMG ports in the system. Restrictions: RTRV-COND-T1 is denied if the specified AID does not support the specified CONDTYPE (e.g., DS1 AID and CONDTYPE of SYNCSEC).
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

CONDTYPE	DS1_NEAR-END_CONDTYPE:{ACTLPBK, AIS, AIS-CI, ALWCBLPBK, DS1ISD, EOC, INHPMREPT, LOF, LOS, MAN, RCVCLPBK, ROLLMON, XMTCLPBK}, DS1_FAR-END_CONDTYPE:{RAI, RAI-CI}, TMG_NEAR-END_CONDTYPE:{AIS, LOF, LOS, SLTMSIG, SYNCPRI, SYNCSEC, SYNCSTATQUAL}
Default:	< All applicable condition types listed above >
Addressing:	None
Description:	Condition Type, specifies the condition type to be retrieved. (Refer to Appendix C for a list of all condition types.) Values are:
ACTLPBK	Active Loopback, the DS1 port is in loop back. (DS1 Near-End only.)
AIS	Alarm Indication Signal, AIS detected. (DS1 or TMG Near-End only.)
AIS-CI	Alarm Indication Signal for Customer Installation, Incoming AIS detected. (DS1 Near-End)
ALWCBLPBK	Allow C-Bit Loopback. (DS1 Near-End only.)
DS1ISD	DS1 Idle Signal Detected, Incoming. (DS1 Near-End.)
EOC	Embedded Operations Channel, EOC failure detected. (DS1 Near-End only.)
INHPMREPT	Inhibit Performance Monitoring Report, PM report capability inhibited. (DS1 Near-End only.)
LOF	Loss Of Frame detected. (DS1 or TMG Near-End only.)
LOS	Loss Of Signal detected. (DS1 or TMG Near-End only.)
MAN	Manual removal (logical removal was performed on the facility). (DS1 Near-End only.)
RAI	Remote Alarm Indication detected. (DS1 Far-End only.)
RAI-CI	Remote Alarm Indication for Customer Installation detected. (DS1 Far-End.)
RCVCLPBK	Receive (DS1) C-Bit Loopback. (DS1 Near-End only.)
ROLLMON	Roll Monitoring, receive-side RTO port being monitored for valid signal. (DS1 Near-End only.)
SLTMSIG	Slipping Timing Reference Signal detected. (TMG Near-End only.)
SYNCPRI	Primary Reference Synchronization failure. (TMG Near-End only.)
SYNCSEC	Secondary Reference Synchronization failure. (TMG Near-End only.)
SYNCSTATQUAL	Synchronization Status Quality. (TMG Near-End only.)
XMTCLPBK	Transmit (DS1) C-Bit Loopback. (DS1 Near-End only.)
Restrictions:	RTRV-COND-T1 is denied if the specified CONDTYPE is not supported for the specified AID (e.g., CONDTYPE of SYNCSEC and DS1 AID). RTRV-COND-T1 is denied if the specified CONDTYPE value is not supported for the specified LOCN value (e.g., CONDTYPE of RAI and LOCN of NEND is entered). RTRV-COND-T1 is denied if the DS1 CI/NI Trouble Sectionalization Premium Feature Option (PFO) is not enabled and an input value of AIS-CI, DS1ISD or RAI-CI is entered.

LOCN	{FEND, NEND}
Default:	< All location values applicable to the specified condition type >
Addressing:	None
Description:	Location, specifies the location where the condition type is monitored. Values are:
	FEND Far-End, events occurring at a distant network element.
	NEND Near-End, events occurring at the system.
Restrictions:	RTRV-COND-T1 is denied if the specified LOCN value is not supported for the specified CONDTYPE value (e.g., CONDTYPE of RAI and LOCN of NEND is entered).
DIRN	{NA, RCV, TRMT}
Default:	< All applicable directions >
Addressing:	None
Description:	Direction, specifies the direction of the condition type being monitored. The value for DIRN is verified, but does not affect the function of the RTRV-COND-T1 command.
	NA Not Applicable
	RCV Receive side
	TRMT Transmit direction
TMPER	{15-MIN, 1-DAY}
Default:	{15-MIN}
Addressing:	None
Description:	Time Period. The value for TMPER is verified, but does not affect the function of the RTRV-COND-T1 command.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  ["<AID>, T1:<NTFCNCDE>, <CONDTYPE>, <SRVEFF>, <OCRDAT>, <OCRTM>, <LOCN>, , " ]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

OUTPUT PARAMETERS

AID	DS1_AID:	
	{T1-{1-59392}}	(T1-DS1#)
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)
	{EC1T1-{1-3840}-{1-28}}	(EC1T1-EC1/STS1/DS3#-DS1#)
	{EC1T1-{1-3840}-{1-7}-{1-4}}	(EC1T1-EC1/STS1#-VTGrp#-VT1/DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3T1-OC3#-STS1#-VTGrp#-VT1/DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-28}}	(OC3T1-OC3#-STS1/DS3#-DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}	(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	(OC12T1-OC12#-STM1#-STS1#-VTGrp#-VT1/DS1#)
	(OC12T1-OC12#-STM1#-STS1#-VTGrp#-VT1/DS1#)	
	TMG_AID:	
	{TMG-{0, 1}}	
	DS1/TMG AID, identifies the DS1 or Timing Reference port.	
NTFCNCDE	{NA, NR}	
	Notification Code, identifies the notification code generated by the system when the condition occurred. Values are:	
	NA	Not Alarmed
	NR	Not Reported

CONDTYPE	<p>DS1_NEAR-END_CONDTYPE:{ACTLPBK, AIS, AIS-CI, ALWCBLPBK, DS1ISD, EOC, INHPMREPT, LOF, LOS, MAN, RCVCLPBK, ROLLMON, XMTCLPBK}, DS1_FAR-END_CONDTYPE:{RAI, RAI-CI}, TMG_NEAR-END_CONDTYPE:{AIS, LOF, LOS, SLTMSIG, SYNCPRI, SYNCSEC, SYNCSTATQUAL}</p> <p>Condition Type, identifies the condition type being retrieved. (Refer to Appendix C for a list of all condition types.) Values are:</p> <table> <tr> <td>ACTLPBK</td><td>Active Loopback, the DS1 port is in loop back.</td></tr> <tr> <td>AIS</td><td>Alarm Indication Signal, AIS detected.</td></tr> <tr> <td>AIS-CI</td><td>Remote Alarm Indication for Customer Installation detected.</td></tr> <tr> <td>ALWCBLPBK</td><td>Allow C-Bit Loopback.</td></tr> <tr> <td>DS1ISD</td><td>DS1 Idle Signal Detected, Incoming.</td></tr> <tr> <td>EOC</td><td>Embedded Operations Channel, EOC failure detected.</td></tr> <tr> <td>INHPMREPT</td><td>Inhibit Performance Monitoring Report, PM report capability inhibited.</td></tr> <tr> <td>LOF</td><td>Loss Of Frame detected.</td></tr> <tr> <td>LOS</td><td>Loss Of Signal detected.</td></tr> <tr> <td>MAN</td><td>Manual removal (logical removal was performed on the facility).</td></tr> <tr> <td>RAI</td><td>Remote Alarm Indication detected.</td></tr> <tr> <td>RAI-CI</td><td>Remote Alarm Indication for Customer Installation detected.</td></tr> <tr> <td>RCVCLPBK</td><td>Receive (DS1) C-Bit Loopback.</td></tr> <tr> <td>ROLLMON</td><td>Roll Monitoring, receive-side RTO port being monitored for valid signal.</td></tr> <tr> <td>SLTMSIG</td><td>Slipping Timing Reference Signal detected.</td></tr> <tr> <td>SYNCPRI</td><td>Primary Reference Synchronization failure.</td></tr> <tr> <td>SYNCSEC</td><td>Secondary Reference Synchronization failure.</td></tr> <tr> <td>SYNCSTATQUAL</td><td>Synchronization Status Quality.</td></tr> <tr> <td>XMTCLPBK</td><td>Transmit (DS1) C-Bit Loopback.</td></tr> </table>	ACTLPBK	Active Loopback, the DS1 port is in loop back.	AIS	Alarm Indication Signal, AIS detected.	AIS-CI	Remote Alarm Indication for Customer Installation detected.	ALWCBLPBK	Allow C-Bit Loopback.	DS1ISD	DS1 Idle Signal Detected, Incoming.	EOC	Embedded Operations Channel, EOC failure detected.	INHPMREPT	Inhibit Performance Monitoring Report, PM report capability inhibited.	LOF	Loss Of Frame detected.	LOS	Loss Of Signal detected.	MAN	Manual removal (logical removal was performed on the facility).	RAI	Remote Alarm Indication detected.	RAI-CI	Remote Alarm Indication for Customer Installation detected.	RCVCLPBK	Receive (DS1) C-Bit Loopback.	ROLLMON	Roll Monitoring, receive-side RTO port being monitored for valid signal.	SLTMSIG	Slipping Timing Reference Signal detected.	SYNCPRI	Primary Reference Synchronization failure.	SYNCSEC	Secondary Reference Synchronization failure.	SYNCSTATQUAL	Synchronization Status Quality.	XMTCLPBK	Transmit (DS1) C-Bit Loopback.
ACTLPBK	Active Loopback, the DS1 port is in loop back.																																						
AIS	Alarm Indication Signal, AIS detected.																																						
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DS1ISD	DS1 Idle Signal Detected, Incoming.																																						
EOC	Embedded Operations Channel, EOC failure detected.																																						
INHPMREPT	Inhibit Performance Monitoring Report, PM report capability inhibited.																																						
LOF	Loss Of Frame detected.																																						
LOS	Loss Of Signal detected.																																						
MAN	Manual removal (logical removal was performed on the facility).																																						
RAI	Remote Alarm Indication detected.																																						
RAI-CI	Remote Alarm Indication for Customer Installation detected.																																						
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SYNCSEC	Secondary Reference Synchronization failure.																																						
SYNCSTATQUAL	Synchronization Status Quality.																																						
XMTCLPBK	Transmit (DS1) C-Bit Loopback.																																						
SRVEFF	<p>{NSA, SA}</p> <p>Service Effect, identifies the service effect of the condition type and notification code being retrieved. Values are:</p> <table> <tr> <td>NSA</td><td>Non-Service Affecting</td></tr> <tr> <td>SA</td><td>Service Affecting</td></tr> </table>	NSA	Non-Service Affecting	SA	Service Affecting																																		
NSA	Non-Service Affecting																																						
SA	Service Affecting																																						
OCRDAT	<p>{MONTH-DAY:{01-12} - {01-31} }</p> <p>Occurrence Date, identifies the date when the condition occurred. The format of OCRDAT is <MONTH_OF_YEAR> - <DAY_OF_MONTH>.</p>																																						
OCRTM	<p>{HOUR-MINUTE-SECOND:{00-23} - {00-59} - {00-59} }</p> <p>Occurrence Time, identifies the time when the condition occurred. The format of OCRTM is <HOUR_OF_DAY> - <MINUTE_OF_HOUR> -<SECOND_OF_MINUTE>.</p>																																						
LOCN	<p>{FEND, NEND}</p> <p>Location, identifies the location where the condition type is monitored. Values are:</p> <table> <tr> <td>FEND</td><td>Far-End, events occurring at a distant network element.</td></tr> <tr> <td>NEND</td><td>Near-End, events occurring at the system.</td></tr> </table>	FEND	Far-End, events occurring at a distant network element.	NEND	Near-End, events occurring at the system.																																		
FEND	Far-End, events occurring at a distant network element.																																						
NEND	Near-End, events occurring at the system.																																						

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

EFON	Equipage, Feature Option Not provided
IDNC	Input, Data Not Consistent /* Condition type is not consistent with <FACILITY TYPE STRING>. */ /* Location is not consistent with <FACILITY TYPE STRING> <CONDITION TYPE STRING>. */
IDNV	Input, Data Not Valid /* Invalid notification code specified: <NOTIFICATION CODE STRING>. */ /* Invalid service effect specified: <SERVICE EFFECT STRING>. */ /* Invalid location specified: <LOCATION STRING>. */ /* Invalid condition type specified: <CONDITION TYPE STRING>. */ /* Invalid parameter specified. */
IIAC	Input, Invalid ACcess identifier /* Invalid Access ID specified. */
SROF	Status, Requested Operation Failed /* Cannot open <FILENAME>. */ /* rpt_file error – <ERRNO>, status = <STATUS>. */ /* nrl_rpt_print error – no transaction, msgtype = <MSGTYPE>. */ /* rpt_print error – <ERRNO>, status = <STATUS>. */

EXAMPLES

In the following example, any existing non-alarmed or not-reported AIS standing condition for DS1 ports T3T1-1309-10 through T3T1-1309-11 is retrieved.

```
RTRV-COND-T1::T3T1-1309-10&&-11::AIS;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated a CTAG value of P71061. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```

<SID> <YY-MM-DD> <HH:MM:SS>
M P71061 COMPLD
  "T3T1-1309-10,T1:NA,AIS,NSA,07-02,07-30-28,NEND,, "
  /* RTRV-COND-T1::T3T1-1309-10&&-11::AIS [P71061] (1) */
;

```

In the following example, all existing non–alarmed or not–reported standing conditions for DS1 port T3T1–1297–10 are retrieved.

```
RTRV-COND-T1::T3T1-1297-10;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated a CTAG value of P71066. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P71066 COMPLD
  "T3T1-1297-10,T1:NA,LOF,SA,07-02,08-44-30,NEND,, "
/* RTRV-COND-T1::T3T1-1297-10 [P71066] (2) */
;
```

RELATED COMMANDS

```
RTRV-ALM-ALL
RTRV-ALM-T1
RTRV-ATTR-T1
RTRV-COND-ALL
RTRV-DFLTATTR-T1
RTRV-PFO
SET-ATTR-T1
SET-DFLTATTR-T1
```

RELATED AUTONOMOUS RESPONSES

```
REPT^EVT^T1
```

COMMAND CODE: **RTRV-COND-T3**
COMMAND NAME: **RETRIEVE CONDITION T3**

PURPOSE

The RTRV-COND-T3 command retrieves the current status of any existing non-alarmed or not-reported standing conditions for the specified DS3 port, or for the specified DS3 port and any matching combination of a specified condition type and location (i.e., the CONDTYPE and LOCN parameters provide a filter for retrieving existing conditions satisfying the specified input parameters). The command is completed regardless of whether the DS3 port is provisioned.

The successful response for a RTRV-COND-T3 command contains one line of parsable output data, in ascending order by port number and ascending order by date and time of occurrence within each port number, for each non-alarmed or not-reported standing condition being reported. If an AID of ALL is entered, all AIDs with an existing non-alarmed or not-reported standing condition are reported.

If there are no existing non-alarmed or not-reported standing conditions with attributes matching the specified (valid) combination of AID, condition type, and location, then the command is completed with no line of parsable output data provided in the response message. In addition, no line of parsable output data is provided if the specified DS3 is embedded within a protection OC3.

A RTRV-COND-T3 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-COND-T3 : [TID] : AID : [CTAG] : : [CONDTYPE] , [LOCN] , [DIRN] , [TMPER] ;

INPUT PARAMETERS

TID	< 1–20 VALID TID CHARACTERS >		
	Default:	<SID>	
	Addressing:	None	
	Description:	Target Identifier, specifies the network node TID for the command.	
AID	DS3_AID:		
	{T3–{1–4800}}	(T3–DS3#)	
	{EC1T3–{1–3840}}	(EC1T3–EC1/STS1/DS3#)	
	{OC3T3–{1–2240}–{1–3}}	(OC3T3–OC3#–STS1/DS3#)	
	{OC12T3–{1–560}–{1–4}–{1–3}}	(OC12T3–OC12#–STM1#–STS1/DS3#)	
	ALL_AID:		
	{ALL}		
	Default:	Entry Required	
	Addressing:	&&–ranging and &–grouping	
	Description:	DS3 AID, identifies the DS3 port. Name–defined values are:	
	ALL	All provisioned DS3 ports in the system.	
CTAG	< 1–6 VALID CTAG CHARACTERS >		
	Default:	< System assigned CTAG value >	
	Addressing:	None	
	Description:	Correlation Tag, associates input command with its output responses.	

CONDTYPE	<p>NEAR-END_CONDDTYPE:{1TO6LOF, 7LOF, ACTLPBK, AICMIS, AIS, FLTESC, INHPMREPT, ISD, LOF, LOS, MAN}, FAR-END_CONDDTYPE:{AIS, DS2YEL, FEACEQPT, ISD, LOF, LOS, RAI}</p> <p>Default: < All applicable condition types listed above ></p> <p>Addressing: None</p> <p>Description: Condition Type, specifies the condition type to be retrieved. (Refer to Appendix C for a list of all condition types.) Values are:</p> <table> <tr> <td>1TO6LOF</td><td>One To Six Loss Of Frame, Incoming LOF detected on 1 to 6 DS2s embedded in the DS3. (Near-End only.)</td></tr> <tr> <td>7LOF</td><td>Seven Loss Of Frame, Incoming LOF detected on all 7 DS2s embedded in the DS3. (Near-End only.)</td></tr> <tr> <td>ACTLPBK</td><td>Active Loopback, the DS3 port is in loop back. (Near-End only.)</td></tr> <tr> <td>AICMIS</td><td>Application Identification Channel Mismatch, AIC mismatch detected. (Near-End only.)</td></tr> <tr> <td>AIS</td><td>Alarm Indication Signal, AIS detected. (Near-End or Far-End.)</td></tr> <tr> <td>DS2YEL</td><td>DS2 Yellow (Remote Alarm Indication) detected on one of the DS2s embedded in the DS3. (Far-End only.)</td></tr> <tr> <td>FEACEQPT</td><td>Far-End Alarm & Control (FEAC) Equipment detected. (Far-End only.)</td></tr> <tr> <td>FLTESC</td><td>Facility Fault Escalation active. (Near-End only.)</td></tr> <tr> <td>INHPMREPT</td><td>Inhibit Performance Monitoring Report, PM report capability inhibited. (Near-End only.)</td></tr> <tr> <td>ISD</td><td>Idle Signal Detected. (Near-End or Far-End.)</td></tr> <tr> <td>LOF</td><td>Loss Of Frame detected. (Near-End or Far-End.)</td></tr> <tr> <td>LOS</td><td>Loss Of Signal detected. (Near-End or Far-End.)</td></tr> <tr> <td>MAN</td><td>Manual removal (logical removal was performed on the facility. (Near-End only.)</td></tr> <tr> <td>RAI</td><td>Remote Alarm Indication detected. (Far-End only.)</td></tr> </table> <p>Restrictions: RTRV-COND-T3 is denied if the specified CONDDTYPE value is not supported for the specified LOCN value (e.g., CONDDTYPE of 7LOF and LOCN of FEND is entered).</p>	1TO6LOF	One To Six Loss Of Frame, Incoming LOF detected on 1 to 6 DS2s embedded in the DS3. (Near-End only.)	7LOF	Seven Loss Of Frame, Incoming LOF detected on all 7 DS2s embedded in the DS3. (Near-End only.)	ACTLPBK	Active Loopback, the DS3 port is in loop back. (Near-End only.)	AICMIS	Application Identification Channel Mismatch, AIC mismatch detected. (Near-End only.)	AIS	Alarm Indication Signal, AIS detected. (Near-End or Far-End.)	DS2YEL	DS2 Yellow (Remote Alarm Indication) detected on one of the DS2s embedded in the DS3. (Far-End only.)	FEACEQPT	Far-End Alarm & Control (FEAC) Equipment detected. (Far-End only.)	FLTESC	Facility Fault Escalation active. (Near-End only.)	INHPMREPT	Inhibit Performance Monitoring Report, PM report capability inhibited. (Near-End only.)	ISD	Idle Signal Detected. (Near-End or Far-End.)	LOF	Loss Of Frame detected. (Near-End or Far-End.)	LOS	Loss Of Signal detected. (Near-End or Far-End.)	MAN	Manual removal (logical removal was performed on the facility. (Near-End only.)	RAI	Remote Alarm Indication detected. (Far-End only.)
1TO6LOF	One To Six Loss Of Frame, Incoming LOF detected on 1 to 6 DS2s embedded in the DS3. (Near-End only.)																												
7LOF	Seven Loss Of Frame, Incoming LOF detected on all 7 DS2s embedded in the DS3. (Near-End only.)																												
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FEACEQPT	Far-End Alarm & Control (FEAC) Equipment detected. (Far-End only.)																												
FLTESC	Facility Fault Escalation active. (Near-End only.)																												
INHPMREPT	Inhibit Performance Monitoring Report, PM report capability inhibited. (Near-End only.)																												
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LOF	Loss Of Frame detected. (Near-End or Far-End.)																												
LOS	Loss Of Signal detected. (Near-End or Far-End.)																												
MAN	Manual removal (logical removal was performed on the facility. (Near-End only.)																												
RAI	Remote Alarm Indication detected. (Far-End only.)																												
LOCN	<p>{FEND, NEND}</p> <p>Default: < All location values applicable to the specified condition type ></p> <p>Addressing: None</p> <p>Description: Location, specifies the location where the condition type is monitored. Values are:</p> <table> <tr> <td>FEND</td><td>Far-End, events occurring at a distant network element.</td></tr> <tr> <td>NEND</td><td>Near-End, events occurring at the system.</td></tr> </table> <p>Restrictions: RTRV-COND-T3 is denied if the specified LOCN value is not supported for the specified CONDDTYPE value (e.g., CONDDTYPE of 7LOF and LOCN of FEND is entered).</p>	FEND	Far-End, events occurring at a distant network element.	NEND	Near-End, events occurring at the system.																								
FEND	Far-End, events occurring at a distant network element.																												
NEND	Near-End, events occurring at the system.																												
DIRN	<p>{NA, RCV, TRMT}</p> <p>Default: < All applicable directions ></p> <p>Addressing: None</p> <p>Description: Direction, specifies the direction of the condition type being monitored. The value for DIRN is verified, but does not affect the function of the RTRV-COND-T3 command.</p> <table> <tr> <td>NA</td><td>Not Applicable</td></tr> <tr> <td>RCV</td><td>Receive side</td></tr> <tr> <td>TRMT</td><td>Transmit direction</td></tr> </table>	NA	Not Applicable	RCV	Receive side	TRMT	Transmit direction																						
NA	Not Applicable																												
RCV	Receive side																												
TRMT	Transmit direction																												

TMPER {15-MIN, 1-DAY}
Default: {15-MIN}
Addressing: None
Description: Time Period. The value for TMPER is verified, but does not affect the function of the RTRV-COND-T3 command.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  ["<AID>, T3 : <NTFCNCDE>, <CONDTYPE>, <SRVEFF>, <OCRDAT>, <OCRTM>, <LOCN>,
  [<DIRN>], "]
  [/ * <Command Echo> [<CTAG>] (<CID [-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

AID DS3_AID:
 {T3-{1-4800}} (T3-DS3#)
 {EC1T3-{1-3840}} (EC1T3-EC1/STS1/DS3#)
 {OC3T3-{1-2240}-{1-3}} (OC3T3-OC3#-STS1/DS3#)
 {OC12T3-{1-560}-{1-4}-{1-3}} (OC12T3-OC12#-STM1#-STS1/DS3#)
 DS3 AID, identifies the DS3 port.

NTFCNCDE {NA, NR}
 Notification Code, identifies the notification code generated by the system when the condition occurred. Values are:
 NA Not Alarmed
 NR Not Reported

CONDTYPE NEAR-END_CONDTYPE:{1TO6LOF, 7LOF, ACTLPBK, AICMIS, AIS, FLTESC, INHPMREPT, ISD, LOF, LOS, MAN},
 FAR-END_CONDTYPE:{AIS, DS2YEL, FEACEQPT, ISD, LOF, LOS, RAI}
 Condition Type, identifies the condition type being retrieved. (Refer to Appendix C for a list of all condition types.) Values are:
 1TO6LOF One To Six Loss Of Frame, Incoming LOF detected on 1 to 6 DS2s embedded in the DS3.
 7LOF Seven Loss Of Frame, Incoming LOF detected on all 7 DS2s embedded in the DS3.
 ACTLPBK Active Loopback, the DS3 port is in loop back.
 AICMIS Application Identification Channel Mismatch, AIC mismatch detected.
 AIS Alarm Indication Signal, AIS detected.
 DS2YEL DS2 Yellow (Remote Alarm Indication) detected on one of the DS2s embedded in the DS3.
 FEACEQPT Far-End Alarm & Control (FEAC) Equipment detected.
 FLTESC Facility Fault Escalation active.
 INHPMREPT Inhibit Performance Monitoring Report, PM report capability inhibited.
 ISD Idle Signal Detected.
 LOF Loss Of Frame detected.
 LOS Loss Of Signal detected.
 MAN Manual removal (logical removal was performed on the facility).
 RAI Remote Alarm Indication detected.

SRVEFF	{NSA, SA} Service Effect, identifies the service effect of the condition type and notification code being retrieved. Values are: NSA Non-Service Affecting SA Service Affecting
OCRDAT	{MONTH-DAY:{01-12} - {01-31} } Occurrence Date, identifies the date when the condition occurred. The format of OCRDAT is <MONTH_OF_YEAR> - <DAY_OF_MONTH>.
OCRTM	{HOUR-MINUTE-SECOND:{00-23} - {00-59} - {00-59} } Occurrence Time, identifies the time when the condition occurred. The format of OCRTM is <HOUR_OF_DAY> - <MINUTE_OF_HOUR> - <SECOND_OF_MINUTE>.
LOCN	{FEND, NEND} Location, identifies the location where the condition type is monitored. Values are: FEND Far-End, events occurring at a distant network element. NEND Near-End, events occurring at the system.
DIRN	{TRMT, <NoVal>} Direction, identifies the direction of the condition type being monitored. Values are: TRMT Transmit Direction, value returned for CONDTYPE of FLTESC. <NoVal> No Value (null) returned for all conditions other than FLTESC.

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent /* Condition type is not consistent with <FACILITY TYPE STRING>. */ /* Location is not consistent with <FACILITY TYPE STRING> <CONDITION TYPE STRING>. */
IDNV	Input, Data Not Valid /* Invalid notification code specified: <NOTIFICATION CODE STRING>. */ /* Invalid service effect specified: <SERVICE EFFECT STRING>. */ /* Invalid location specified: <LOCATION STRING>. */ /* Invalid condition type specified: <CONDITION TYPE STRING>. */ /* Invalid parameter specified. */
IIAC	Input, Invalid ACcess identifier /* Invalid Access ID specified. */
SROF	Status, Requested Operation Failed /* Cannot open <FILENAME>. */ /* rpt_file error - <ERRNO>, status = <STATUS>. */ /* nrl_rpt_print error - no transaction, msgtype = <MSGTYPE>. */ /* rpt_print error - <ERRNO>, status = <STATUS>. */

EXAMPLES

In the following example, any existing non–alarmed or not–reported standing conditions for DS3 ports T3–1309 through T3–1310 are retrieved.

```
RTRV-COND-T3::T3-1309&&-1310;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated a CTAG value of P71061. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P71061 COMPLD
  "T3-1309,T3:NA,AIS,NSA,07-02,07-30-28,FEND,, "
  "T3-1309,T3:NA,INHMPREPT,NSA,07-02,11-42-18,NEND,, "
/* RTRV-COND-T3::T3-1309&&-1310 [P71061] (1) */
;
```

In the following example, all existing non–alarmed or not–reported standing conditions for DS3 port T3–1297 are retrieved.

```
RTRV-COND-T3::T3-1297;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated a CTAG value of P71066. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P71066 COMPLD
  "T3-1297,T3:NA,LOF,NSA,07-02,08-44-30,FEND,, "
  "T3-1297,T3:NA,INHMPREPT,NSA,07-02,09-05-12,NEND,, "
/* RTRV-COND-T3::T3-1297 [P71066] (2) */
;
```

RELATED COMMANDS

```
RTRV-ALM-ALL
RTRV-ALM-T3
RTRV-ATTR-T3
RTRV-COND-ALL
RTRV-DFLTATTR-T3
SET-ATTR-T3
SET-DFLTATTR-T3
```

RELATED AUTONOMOUS RESPONSES

```
REPT^EVT^T3
```


COMMAND CODE: **RTRV-COND-VT1**
COMMAND NAME: **RETRIEVE CONDITION VT1**

PURPOSE

The RTRV-COND-VT1 command retrieves the current status of any existing non-alarmed or not-reported standing conditions for the specified VT1.5 port, or for the specified VT1.5 port and any matching combination of a specified condition type and location (i.e., the CONDTYPE and LOCN parameters provide a filter for retrieving existing conditions satisfying the specified input parameters). The command is completed regardless of whether the VT1.5 port is provisioned.

The successful response for a RTRV-COND-VT1 command contains one line of parsable output data, in ascending order by port number and ascending order by date and time of occurrence within each port number, for each non-alarmed or not-reported standing condition being reported. If an AID of ALL is entered, all AIDs with an existing non-alarmed or not-reported standing condition are reported.

If there are no existing non-alarmed or not-reported standing conditions with attributes matching the specified (valid) combination of AID, condition type, and location, then the command is completed with no line of parsable output data provided in the response message. In addition, no line of parsable output data is provided if the specified VT1.5 is embedded within a protection OC-3 or OC-12.

A RTRV-COND-VT1 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-COND-VT1 : [TID] : AID : [CTAG] : : [CONDTYPE] , [LOCN] , [DIRN] , [TMPER] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >		
	Default:	<SID>	
	Addressing:	None	
	Description:	Target Identifier, specifies the network node TID for the command.	
AID	VT1_AID:		
	{EC1VT1-{1-3840}-{1-7}-{1-4}}	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)	
	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)	
	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}		
	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)		
	ALL_AID:		
	{ALL}		
	Default:	Entry Required	
	Addressing:	&&-ranging and &-grouping	
	Description:	VT1 AID, identifies the VT1.5 port. Name-defined values are:	
	ALL	All provisioned VT1.5 ports in the system.	
CTAG	< 1-6 VALID CTAG CHARACTERS >		
	Default:	< System assigned CTAG value >	
	Addressing:	None	
	Description:	Correlation Tag, associates input command with its output responses.	

CONDTYPE	NEAR-END_CONDDTYPE:{ACTLPBK, AIS, EBER, FLTESC, FRCDWKSWBK, FRCDWKSWPR, IDLE, INHPMREPT, LOP, MAN, MANWKSWBK, MANWKSWPR, ROLLMON, SDBER, SLMF}, FAR-END_CONDDTYPE:{RFI}
Default:	< All applicable condition types listed above >
Addressing:	None
Description:	Condition Type, specifies the condition type to be retrieved. (Refer to Appendix C for a list of all condition types.) Values are:
ACTLPBK	Active Loopback, the VT1.5 port is in loop back. (Near-End only.)
AIS	Alarm Indication Signal, AIS detected. (Near-End only.)
EBER	Excessive Bit Error Rate detected. (Near-End only.)
FLTESC	Facility Fault Escalation active. (Near-End only.)
FRCDWKSWBK	Forced Working Switched Back, working facility was manually force switched from protection to the main facility. (Near-End only.)
FRCDWKSWPR	Forced Working Switched to Protection, working facility was manually force switched to the protection facility. (Near-End only.)
IDLE	Idle, incoming idle detected. (Near-End only.)
INHPMREPT	Inhibit Performance Monitoring Report, PM report capability inhibited. (Near-End only.)
LOP	Loss Of Pointer detected. (Near-End only.)
MAN	Manual removal (logical removal was performed on the facility). (Near-End only.)
MANWKSWBK	Manual Working Switched Back, working facility was manually switched from protection to the main facility. (Near-End only.)
MANWKSWPR	Manual Working Switched to Protection, working facility was manually switched to the protection facility. (Near-End only.)
RFI	Remote Failure Indication detected. (Far-End only.)
ROLLMON	Roll Monitoring, receive-side RTO port being monitored for valid signal. (Near-End only.)
SDBER	Signal Degrade Bit Error Rate detected. (Near-End only.)
SLMF	Signal Label Match Failure detected. (Near-End only.)
Restrictions:	RTRV-COND-VT1 is denied if the specified CONDDTYPE value is not supported for the specified LOCN value (e.g., CONDDTYPE of AIS and LOCN of FEND is entered).
LOCN	{FEND, NEND}
Default:	< All location values applicable to the specified condition type >
Addressing:	None
Description:	Location, specifies the location where the condition type is monitored. Values are:
FEND	Far-End, events occurring at a distant network element.
NEND	Near-End, events occurring at the system.
Restrictions:	RTRV-COND-VT1 is denied if the specified LOCN value is not supported for the specified CONDDTYPE value (e.g., CONDDTYPE of AIS and LOCN of FEND is entered).

DIRN	{NA, RCV, TRMT}
Default:	< All applicable directions >
Addressing:	None
Description:	Direction, specifies the direction of the condition type being monitored. The value for DIRN is verified, but does not affect the function of the RTRV-COND-VT1 command.
	NA Not Applicable
	RCV Receive side
	TRMT Transmit direction
TMPER	{15-MIN, 1-DAY}
Default:	{15-MIN}
Addressing:	None
Description:	Time Period. The value for TMPER is verified, but does not affect the function of the RTRV-COND-VT1 command.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  ["<AID>, VT1:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,<OCDAT>,<OCRTM>,<LOCN>,<DIRN>"],"]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

AID	VT1_AID:	
	{EC1VT1-{1-3840}-{1-7}-{1-4}}	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)
	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)
	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	
	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)	
	VT1 AID, identifies the VT1.5 port.	
NTFCNCDE	{NA, NR}	
	Notification Code, identifies the notification code generated by the system when the condition occurred. Values are:	
	NA	Not Alarmed
	NR	Not Reported

CONDTYPE	NEAR-END_CONDDTYPE:{ACTLPBK, AIS, EBER, FLTESC, FRCDWKSWBK, FRCDWKSWPR, IDLE, INHPMREPT, LOP, MAN, MANWKSWBK, MANWKSWPR, ROLLMON, SDBER, SLMF}, FAR-END_CONDDTYPE:{RFI} Condition Type, identifies the condition type being retrieved. (Refer to Appendix C for a list of all condition types.) Values are:	
	ACTLPBK	Active Loopback, the VT1.5 port is in loop back.
	AIS	Alarm Indication Signal, AIS detected.
	EBER	Excessive Bit Error Rate detected.
	FLTESC	Facility Fault Escalation active.
	FRCDWKSWBK	Forced Working Switched Back, working facility was manually force switched from protection to the main facility.
	FRCDWKSWPR	Forced Working Switched to Protection, working facility was manually force switched to the protection facility.
	IDLE	Idle, incoming idle detected.
	INHPMREPT	Inhibit Performance Monitoring Report, PM report capability inhibited.
	LOP	Loss Of Pointer detected.
	MAN	Manual removal (logical removal was performed on the facility).
	MANWKSWBK	Manual Working Switched Back, working facility was manually switched from protection to the main facility.
	MANWKSWPR	Manual Working Switched to Protection, working facility was manually switched to the protection facility.
	RFI	Remote Failure Indication detected.
	ROLLMON	Roll Monitoring, receive-side RTO port being monitored for valid signal.
	SDBER	Signal Degrade Bit Error Rate detected.
	SLMF	Signal Label Match Failure detected.
SRVEFF	{NSA, SA} Service Effect, identifies the service effect of the condition type and notification code being retrieved. Values are:	
	NSA	Non-Service Affecting
	SA	Service Affecting
OCRDAT	{MONTH-DAY:{01-12} - {01-31} } Occurrence Date, identifies the date when the condition occurred. The format of OCRDAT is <MONTH_OF_YEAR> - <DAY_OF_MONTH>.	
OCRTM	{HOUR-MINUTE-SECOND:{00-23} - {00-59} - {00-59} } Occurrence Time, identifies the time when the condition occurred. The format of OCRTM is <HOUR_OF_DAY> - <MINUTE_OF_HOUR> -<SECOND_OF_MINUTE>.	
LOCN	{FEND, NEND} Location, identifies the location where the condition type is monitored. Values are:	
	FEND	Far-End, events occurring at a distant network element.
	NEND	Near-End, events occurring at the system.
DIRN	{TRMT, <NoVal>} Direction, identifies the direction of the condition type being monitored. Values are:	
	TRMT	Transmit Direction, value returned for CONDTYPE of FLTESC.
	<NoVal>	No Value (null) returned for all conditions other than FLTESC.

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent /* Condition type is not consistent with <FACILITY TYPE STRING>. */ /* Location is not consistent with <FACILITY TYPE STRING> <CONDITION TYPE STRING>. */
IDNV	Input, Data Not Valid /* Invalid notification code specified: <NOTIFICATION CODE STRING>. */ /* Invalid service effect specified: <SERVICE EFFECT STRING>. */ /* Invalid location specified: <LOCATION STRING>. */ /* Invalid condition type specified: <CONDITION TYPE STRING>. */ /* Invalid parameter specified. */
IIAC	Input, Invalid ACcess identifier /* Invalid Access ID specified. */
SROF	Status, Requested Operation Failed /* Cannot open <FILENAME>. */ /* rpt_file error – <ERRNO>, status = <STATUS>. */ /* nrl_rpt_print error – no transaction, msgtype = <MSGTYPE>. */ /* rpt_print error – <ERRNO>, status = <STATUS>. */

EXAMPLES

In the following example, any existing non-alarmed or not-reported standing conditions for VT1.5 ports EC1VT1-349-3-1 through EC1VT1-349-3-2 are retrieved.

```
RTRV-COND-VT1: :EC1VT1-349-3-1&&-2;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated a CTAG value of P71061. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```

<SID> <YY-MM-DD> <HH:MM:SS>
M P71061 COMPLD
  "EC1VT1-349-3-1,VT1:NA,INHMPREPT,NSA,07-02,11-42-18,NEND,,"
  "EC1VT1-349-3-2,VT1:NA,INHMPREPT,NSA,07-02,11-42-18,NEND,,"
  /* RTRV-COND-VT1: :EC1VT1-349-3-1&&-2 [P71061] (1) */
;

```

In the following example, all existing non-alarmed or not-reported standing conditions for VT1.5 port EC1VT1-337-7-4 are retrieved.

```
RTRV-COND-VT1::EC1VT1-337-7-4;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated a CTAG value of P71066. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P71066 COMPLD
"EC1VT1-337-7-4,VT1:NA,INHMPREPT,NSA,07-02,09-05-12,NEND,, "
"EC1VT1-337-7-4,VT1:NA,MAN,NSA,07-02,09-25-42,NEND,, "
/* RTRV-COND-VT1::EC1VT1-337-7-4 [P71066] (2) */
;
```

RELATED COMMANDS

```
RTRV-ALM-ALL
RTRV-ALM-VT1
RTRV-ATTR-VT1
RTRV-COND-ALL
RTRV-DFLTATTR-VT1
SET-ATTR-VT1
SET-DFLTATTR-VT1
```

RELATED AUTONOMOUS RESPONSES

```
REPT^EVT^VT1
```

COMMAND CODE: **RTRV-CONF-T1**
COMMAND NAME: **RETRIEVE CONFERENCE T1**

PURPOSE

The RTRV-CONF-T1 command retrieves the one-way conference cross-connections in which the specified DS1 is involved either as a head (MASTER) or a tail. The conference connections for all conference heads/tails within the specified range of AIDs are retrieved; i.e. this command retrieves conference information as long as the specified DS1 is involved as a head or tail in a conference and regardless of whether the specified AID is connected to a DS1 or a VT1.5. The command is executed regardless of the provisioning of the specified port or the state of the cross-connection. In addition, it is executed with no line of parsable output data provided if the specified DS1 is embedded within a protection OC-3 or OC-12.

The successful response for a RTRV-CONF-T1 contains one line of parsable output data, in ascending order, for each one-way conference cross-connection associated with the specified port either as conference head (MASTER) or conference tail for each conference AID within the specified range of AIDs. Connection types other than conference, including one-way back connections from a conference tail to a conference head, are not reported.

A RTRV-CONF-T1 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-CONF-T1 : [TID] : AID : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	DS1_AID: { T1-{1-59392} } (T1-DS1#) { T3T1-{1-4800}-{1-28} } (T3T1-DS3#-DS1#) { EC1T1-{1-3840}-{1-28} } (EC1T1-EC1/STS1/DS3#-DS1#) { OC3T1-{1-2240}-{1-3}-{1-28} } (OC3T1-OC3#-STS1/DS3#-DS1#) { OC12T1-{1-560}-{1-4}-{1-3}-{1-28} } (OC12T1-OC12#-STM1#-STS1/DS3#-DS1#) ALL_AID: { ALL } Default: Entry Required Addressing: &&-ranging and &-grouping Description: Identifies a DS1 port or the first in a range of ports. A report is generated for each AID that is involved in a conference within the specified range. When ALL is specified, only those conference connections which have a T1 as the conference head will be retrieved.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  "<HEAD>,<TAIL>: [RDL=] [, CKTID=] "
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

OUTPUT PARAMETERS

HEAD	DS1_AID:	
	{T1-{1-59392}}	(T1-DS1#)
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)
	{EC1T1-{1-3840}-{1-28}}	(EC1T1-EC1/STS1/DS3#-DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-28}}	(OC3T1-OC3#-STS1/DS3#-DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}	(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)
	VT1_AID:	
	{EC1VT1-{1-3840}-{1-7}-{1-4}}	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)
	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)
	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	
	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)	
	Identifies the head (receive side from the network) of a broadcast conference connection which could be a DS1 or VT1.5.	
TAIL	DS1_AID:	
	{T1-{1-59392}}	(T1-DS1#)
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)
	{EC1T1-{1-3840}-{1-28}}	(EC1T1-EC1/STS1/DS3#-DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-28}}	(OC3T1-OC3#-STS1/DS3#-DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}	(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)
	VT1_AID:	
	{EC1VT1-{1-3840}-{1-7}-{1-4}}	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)
	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)
	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	
	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)	
	Identifies the tail (transmit side to the network) of a broadcast conference connection which could be a DS1 or VT1.5.	
RDL	{Y}	
	Red Line Status of Cross-Connection. Value:	
	Y	Connection is Redlined.
CKTID	{ "<0-45 VALID CKTID CHARACTERS>" FROM-TO circuit ID previously assigned to cross-connection	

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

```

IIAC      Input, Invalid ACcess identifier
SDBE      Status, internal Data Base Error
/* TP Database Error: <ERROR-STRING> for <AID-STRING> */
/* CONN Database Error: <ERROR-STRING> for <AID-STRING> */
/* CONF Database Error: <ERROR-STRING> for record number <RECORD-NUM-
BER> */

```

SROF Status, Requested Operation Failed

EXAMPLES

In the following example, a conference connection report is generated for all AIDs that are either conference heads (MASTERS) or conference tails within the range of ports T3T1-1-1 through T3T1-3-28.

```
RTRV-CONF-T1::T3T1-1-1&&-28&T3T1-2-1&&-28&T3T1-3-1&&-28;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of Pad567. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed. The example assumes there is one conference head within the specified range of ports.

The following example shows that conference head T3T1-1-12 is connected to conference tails T3T1-1-1, T3T1-2-2, and T3T1-3-3. It also shows that conference tail T3T1-3-8 is connected to VT1.5 conference head EC1VT1-10-7-3 and that this connection has been redlined.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pad567 COMPLD
  "T3T1-1-12,T3T1-1-1"
  "T3T1-1-12,T3T1-2-2"
  "T3T1-1-12,T3T1-3-3"
  "EC1VT1-10-7-3,T3T1-3-8::RDL=Y"
/* RTRV-CONF-T1::T3T1-1-1&&-28&T3T1-2-1&&-28&T3T1-3-1&&-28
[Pad567] (2) */
;
```

RELATED COMMANDS

DLT-CONF-T1
DLT-CONF-VT1
DLT-CRS-T1
DLT-CRS-VT1
ED-CONF-VT1
ED-CONF-VT1
ENT-CONF-T1
ENT-CONF-T1
ENT-CRS-T1
ENT-CRS-VT1
ENT-T1
ENT-VT1
RTRV-CONF-VT1
RTRV-CRS
RTRV-CRS-T1
RTRV-CRS-VT1
RTRV-POOL
RTRV-RDL-ALL
RTRV-T1
RTRV-VT1

COMMAND CODE: **RTRV-CONF-VT1**
COMMAND NAME: **RETRIEVE CONFERENCE VT1**

PURPOSE

The RTRV-CONF-VT1 command retrieves the one-way conference cross-connections in which the specified VT1.5 is involved either as a head (MASTER) or a tail. The conference connections for all conference heads/tails within the specified range of AIDs are retrieved; i.e. this command retrieves conference information as long as the specified VT1.5 is involved as a head or tail in a conference with another VT1.5 or DS1 port. The command is executed regardless of the provisioning of the specified port or the state of the cross-connection. In addition, it is executed with no line of parsable output data provided if the specified VT1.5 is embedded within a protection OC3.

The successful response for a RTRV-CONF-VT1 contains one line of parsable output data, in ascending order, for each one-way conference cross-connection associated with the specified port either as conference head (MASTER) or conference tail for each conference AID within the specified range of AIDs. Connection types other than conference, including one-way back connections from a conference tail to a conference head, are not reported.

A RTRV-CONF-VT1 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-CONF-VT1 : [TID] : AID : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	VT1_AID: {EC1VT1-{1-3840}-{1-7}-{1-4}} (EC1VT1-EC1/STS1#-VTGrp#-VT1.5#) {OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}} (OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#) {OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}} (OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#) {ALL} Default: Entry Required Addressing: &&-ranging and &-grouping Description: Identifies a VT1.5 port or a range of ports. A report is generated for each AID that is involved in a conference within the specified range. When ALL is specified, only those conference connections which have a VT1.5 as the conference head will be retrieved.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  "<HEAD>,<TAIL>:: [RDL] [, CKTID] "
  [/* <Command Echo> [<CTAG>] (<CID [-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

HEAD	VT1_AID: {EC1VT1-{1-3840}-{1-7}-{1-4}} (EC1VT1-EC1/STS1#-VTGrp#-VT1.5#) {OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}} (OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#) {OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}} (OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#) Identifies the head (receive side from the network) of a broadcast conference connection.
TAIL	VT1_AID: {EC1VT1-{1-3840}-{1-7}-{1-4}} (EC1VT1-EC1/STS1#-VTGrp#-VT1.5#) {OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}} (OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#) {OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}} (OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#) Identifies the tail (transmit side to the network) of a broadcast conference connection.
RDL	{Y} Red Line Status of Cross-Connection. Value: Y Connection is Redlined.
CKTID	{"<0-45 VALID CKTID CHARACTERS>"} FROM-TO circuit ID previously assigned to cross-connection

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
SDBE	Status, internal Data Base Error /* TP Database Error: <ERROR-STRING> for <AID-STRING> */ /* CONN Database Error: <ERROR-STRING> for <AID-STRING> */ /* CONF Database Error: <ERROR-STRING> for record number <RECORD-NUM- BER> */
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, a conference connection report is generated for all AIDs that are either conference heads (MASTERS) or conference tails within the range of ports EC1VT1-1-1-1 through EC1VT1-1-3-4.

```
RTRV-CONF-VT1: : EC1VT1-1-1-1&&-4&EC1VT1-1-2-1&&-4&EC1VT1-1-3-1&&-4;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of Pad567. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed. The example assumes there is one conference head within the specified range of ports.

Conference head EC1VT1-1-1-3 is connected to conference tails EC1VT1-9-1-1, EC1VT1-2-2-2, and EC1VT1-3-3-3. One conference tail EC1VT1-1-3-4 is connected to VT1 conference head OC3VT1-159-1-1-3. This connection to EC1VT1-1-3-4 has been redlined.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pad567 COMPLD
  "EC1VT1-1-1-3, EC1VT1-9-1-1"
  "EC1VT1-1-1-3, EC1VT1-2-2-2"
  "EC1VT1-1-1-3, EC1VT1-3-3-3"
  "OC3VT1-159-1-1-3, EC1VT1-1-3-4: :RDL=Y"
/ *RTRV-CONF-VT1: : EC1VT1-1-1-1&&-4&EC1VT1-1-2-1&&-4&EC1VT1-1-3-1&&-4
[Pad567] (2) */
;
```

RELATED COMMANDS

```
DLT-CONF-T1
DLT-CONF-VT1
DLT-CRS-T1
DLT-CRS-VT1
ED-CONF-T1
ED-CONF-VT1
ENT-CONF-T1
ENT-CONF-T1
ENT-CONF-VT1
ENT-CRS-T1
ENT-CRS-VT1
ENT-T1
ENT-VT1
RTRV-CONF-T1
RTRV-CRS
RTRV-CRS-T1
RTRV-CRS-VT1
RTRV-POOL
RTRV-RDL-ALL
RTRV-T1
RTRV-VT1
```


COMMAND CODE: **RTRV-CRS**
COMMAND NAME: **RETRIEVE CROSS-CONNECTION**

PURPOSE

The RTRV-CRS command retrieves the connection path, connection type, transmission level, and current PST,SST state for the cross-connection identified by AID from the system database. The command is executed regardless of the provisioning of the specified port or the state of the cross-connection.

The successful response for a RTRV-CRS contains one line of parsable output data, in ascending order (from lowest FROM AID to largest FROM AID), for each cross-connection associated with the specified AID. A line of parsable output data is only displayed if the specified AID is provisioned and cross-connected. A SST value is only displayed when a secondary state is currently applied to the cross-connection. If a specified AID is embedded within a protection OC-3, RTRV-CRS completes successfully with no line of parsable output data displayed.

If the AID specifies a DS1, this command retrieves cross connect information that might exist between the specified AID and another DS1 or VT1.5. If the AID specifies a VT1.5, this command retrieves cross connect information that might exist between the specified AID and another DS1 or VT1.5.

If the AID specifies a DS3, this command retrieves cross connect information that might exist between the specified AID and another DS3 or STS1. If the AID specifies an STS1, this command retrieves cross connect information that might exist between the specified AID and another DS3 or STS-1. If the AID specifies an STS-3C, this command retrieves cross connect information that might exist between the specified AID and another STS-3C.

If the AID specifies an STS-1 or VT1.5 embedded within a ring OC-3/OC-12 (refer to ENT-RNG-OC3 or ENT-RNG-OC12), this command retrieves cross connect information that might exist between the specified AID (displayed in the "FROM" position) and another facility, which would be the drop facility (displayed in the "TO" position). If the AID specifies a drop facility (STS-1/VT1.5) that is not part of an OC-3/OC-12 ring, this command retrieves cross connect information that might exist between the specified AID (displayed in the "FROM" position), and the start-up STS-1/VT1.5 (displayed in the "TO" position) embedded within the ring OC-3/OC-12 facility.

A separate line of parsable output data is provided for each of the following cross-connection situations:

- 1WAY: One line of data for each one-way cross-connection, including the case of a one-way bridge connection, or a connection from a conference tail connected back to the conference head.
- 2WAY: One line of data for each two-way cross-connection, whether the two-way cross-connection was established as a single two-way cross-connect or as two one-way cross-connects.
- 2WAYPR: One or two lines of data for each two-way path ring cross-connection—one line for the ODD port, another line for the EVEN port. For a drop connection, one line of data is shown. For a ring-to-ring connection, two lines are shown.
- 2WAYDC: One or two lines of data for each two-way drop and continue cross-connection—one line for the ODD port, another line for the EVEN port. For a drop connection, one line of data is shown. For a ring-to-ring connection, two lines are shown.
- BCST: If the FROM AID is a broadcast conference head, one line of data for each one-way cross-connection from the conference head to each conference tail.

A RTRV-CRS command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-CRS: [TID] :AID: [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >
Default:	<SID>
Addressing:	None
Description:	Target Identifier, specifies the network node TID for the command.

AID	DS1_AID:	
	{T1-{1-59392}}	(T1-DS1#)
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)
	{EC1T1-{1-3840}-{1-28}}	(EC1T1-EC1/STS1/DS3#-DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-28}}	(OC3T1-OC3#-STS1/DS3#-DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}	(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)
	VT1_AID:	
	{EC1VT1-{1-3840}-{1-7}-{1-4}}	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)
	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)
	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	
	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)	
	DS3_AID:	
	{T3-{1-4800}}	(T3-DS3#)
	STS1_AID:	
	{EC1STS1-{1-3840}}	(EC1STS1-EC1/STS1#)
	{OC3STS1-{1-2240}-{1-3}}	(OC3STS1-OC3#-STS1#)
	{OC12STS1-{1-560}-{1-4}-{1-3}}	(OC12STS1-OC12#-STM1#-STS1#)
	STS3C_AID:	
	{OC3STS3C-{1-2240}}	(OC3STS3C-OC3#/STS3C#)
	{OC12STS3C-{1-560}-{1-4}}	(OC12STS3C-OC12#-STM1/STS3C#)
	Default:	Entry Required
	Addressing:	&&-ranging and &-grouping
	Description:	Identifies the DS1/VT1.5/DS3/STS-1/STS-3C port or a range of ports. If DS1 or VT1.5 AID is specified, the cross connect information that exists between the specified AID and another VT1.5 or DS1 will be displayed. If DS3 or STS1 AID is specified, the cross connect information that exists between the specified AID and another DS3 or STS-1 will be displayed. If STS3C AID is specified, the cross connect information that exists between the specified AID and another STS-3C will be displayed.
CTAG	< 1-6 VALID CTAG CHARACTERS >	
	Default:	< System assigned CTAG value >
	Addressing:	None
	Description:	Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
"<FROM>,<TO>:<CTYPE>,<LEVEL>:[RDL=] [,CKTID=] [,CKTIDTF=]:<PST>[,<SST>]"
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

OUTPUT PARAMETERS

FROM	DS1_AID:	
	{T1-{1-59392}}	(T1-DS1#)
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)
	{EC1T1-{1-3840}-{1-28}}	(EC1T1-EC1/STS1/DS3#-DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-28}}	(OC3T1-OC3#-STS1/DS3#-DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}	(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)
	VT1_AID:	
	{EC1VT1-{1-3840}-{1-7}-{1-4}}	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)
	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)
	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	
	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)	
	DS3_AID:	
	{T3-{1-4800}}	(T3-DS3#)
	STS1_AID:	
	{EC1STS1-{1-3840}}	(EC1STS1-EC1/STS1#)
	{OC3STS1-{1-2240}-{1-3}}	(OC3STS1-OC3#-STS1#)
	{OC12STS1-{1-560}-{1-4}-{1-3}}	(OC12STS1-OC12#-STM1#-STS1#)
	STS3C_AID:	
	{OC3STS3C-{1-2240}}	(OC3STS3C-OC3#/STS3C#)
	{OC12STS3C-{1-560}-{1-4}}	(OC12STS3C-OC12#-STM1/STS3C#)
	DS1, VT1, DS3, STS1, or STS3C AID, indicates the FROM (receive side from the network) port of the cross-connection. FROM is the specified AID entered in the RTRV-CRS command if a two-way cross-connection exists.	
TO	DS1_AID:	
	{T1-{1-59392}}	(T1-DS1#)
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)
	{EC1T1-{1-3840}-{1-28}}	(EC1T1-EC1/STS1/DS3#-DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-28}}	(OC3T1-OC3#-STS1/DS3#-DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}	(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)
	VT1_AID:	
	{EC1VT1-{1-3840}-{1-7}-{1-4}}	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)
	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)
	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	
	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)	
	DS3_AID:	
	{T3-{1-4800}}	(T3-DS3#)
	STS1_AID:	
	{EC1STS1-{1-3840}}	(EC1STS1-EC1/STS1#)
	{OC3STS1-{1-2240}-{1-3}}	(OC3STS1-OC3#-STS1#)
	{OC12STS1-{1-560}-{1-4}-{1-3}}	(OC12STS1-OC12#-STM1#-STS1#)
	STS3C_AID:	
	{OC3STS3C-{1-2240}}	(OC3STS3C-OC3#/STS3C#)
	{OC12STS3C-{1-560}-{1-4}}	(OC12STS3C-OC12#-STM1/STS3C#)
	DS1, VT1, DS3, STS1, or STS3C AID, indicates the TO (transmit side to the network) port of the cross-connection. If a two-way cross-connection exists, TO is the cross-connection AID not specified in the RTRV-CRS command.	

CTYPE	{1WAY, 2WAY, 2WAYPR, 2WAYDC, BCST} Cross-connection Type. Values are: <table> <tr> <td>1WAY</td><td>One-way cross-connection</td></tr> <tr> <td>2WAY</td><td>Two-way cross-connection</td></tr> <tr> <td>2WAYPR</td><td>Two-Way Path Protected connection</td></tr> <tr> <td>2WAYDC</td><td>Two-Way Drop and Continue connection</td></tr> <tr> <td>BCST</td><td>Broadcast conference cross-connection.</td></tr> </table>	1WAY	One-way cross-connection	2WAY	Two-way cross-connection	2WAYPR	Two-Way Path Protected connection	2WAYDC	Two-Way Drop and Continue connection	BCST	Broadcast conference cross-connection.
1WAY	One-way cross-connection										
2WAY	Two-way cross-connection										
2WAYPR	Two-Way Path Protected connection										
2WAYDC	Two-Way Drop and Continue connection										
BCST	Broadcast conference cross-connection.										
LEVEL	{STS1, STS3C, T1, T3, VT1} Rate of the cross-connected channel. Valid value are: <table> <tr> <td>STS1</td><td>STS-1 cross connection, only displayed for an STS-1 to STS-1 cross connection.</td></tr> <tr> <td>STS3C</td><td>STS-3C cross connection, only displayed for an STS-3C to STS-3C cross connection.</td></tr> <tr> <td>T1</td><td>DS1 cross connection, displayed for a DS1 to DS1 and DS1 to VT1.5 cross connection.</td></tr> <tr> <td>T3</td><td>DS3 cross connection, displayed for a DS3 to DS3 and DS3 to STS-1 cross connection.</td></tr> <tr> <td>VT1</td><td>VT1.5 cross connection, only displayed for a VT1.5 to VT1.5 cross connection.</td></tr> </table>	STS1	STS-1 cross connection, only displayed for an STS-1 to STS-1 cross connection.	STS3C	STS-3C cross connection, only displayed for an STS-3C to STS-3C cross connection.	T1	DS1 cross connection, displayed for a DS1 to DS1 and DS1 to VT1.5 cross connection.	T3	DS3 cross connection, displayed for a DS3 to DS3 and DS3 to STS-1 cross connection.	VT1	VT1.5 cross connection, only displayed for a VT1.5 to VT1.5 cross connection.
STS1	STS-1 cross connection, only displayed for an STS-1 to STS-1 cross connection.										
STS3C	STS-3C cross connection, only displayed for an STS-3C to STS-3C cross connection.										
T1	DS1 cross connection, displayed for a DS1 to DS1 and DS1 to VT1.5 cross connection.										
T3	DS3 cross connection, displayed for a DS3 to DS3 and DS3 to STS-1 cross connection.										
VT1	VT1.5 cross connection, only displayed for a VT1.5 to VT1.5 cross connection.										
RDL	{Y} Red Line Status of Cross-Connection. Value: <table> <tr> <td>Y</td><td>Connection is Redlined.</td></tr> </table>	Y	Connection is Redlined.								
Y	Connection is Redlined.										
CKTID	{"<0-45 VALID CKTID CHARACTERS>" FROM-TO circuit ID previously assigned to cross-connection										
CKTIDTF	{"<0-45 VALID CKTIDTF CHARACTERS>" TO-FROM circuit ID previously assigned to cross-connection										
PST	{IS, OOS-AU} Primary State, indicates the current primary state of the cross-connection. Refer to Appendix G, State Transitions for a definition of state names and description of state transitions. Values are: <table> <tr> <td>IS</td><td>In-Service</td></tr> <tr> <td>OOS-AU</td><td>Out-Of-Service-Autonomous</td></tr> </table>	IS	In-Service	OOS-AU	Out-Of-Service-Autonomous						
IS	In-Service										
OOS-AU	Out-Of-Service-Autonomous										

SST	{ROLL, SGEO, STBYH, TERMB, TERMF, TERMT, TS, WRK}
	Secondary State, indicates any secondary states associated with the cross-connection. SST values may be shown in the output combined with an ampersand (&) if more than one value applies to the cross-connection at the time of the RTRV-CRS. Refer to Appendix G, State Transitions for a definition of state names and description of state transitions. Values are:
ROLL	Roll, indicates the ports in the cross connection are under rolling operation.
SGEO	Supporting Entity Outage
STBYH	Stand-by Hot. Applies when CTYPE = 2WAYPR and 2WAYDC. STBYH indicates all the entities required for the cross connection are in-service. But the path is not selected in the RPB module and is ready to be selected if a failure is detected in the working connection.
TERMB	Terminated-Both, indicates both the TO and FROM ports of the cross-connection are terminated.
TERMF	Terminated-From, indicates the FROM port of the cross-connection is terminated.
TERMT	Terminated-To, indicates the TO port of the cross-connection is terminated.
TS	Test, indicates the port is connected to a Test Access port.
WRK	Working. Applies when CTYPE = 2WAYPR and 2WAYDC. WRK indicates all entities required for the cross connection are in-service and the path is selected in the RPB module.

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
SDBE	Status, internal Data Base Error
	/* TP Database Error: <ERROR-STRING> for <AID-STRING> */
	/* CONN Database Error: <ERROR-STRING> for <AID-STRING> */
	/* CONF Database Error: <ERROR-STRING> for record number <RECORD-NUMBER> */
	/* RIP Database Error: <ERROR-STRING> for record number <RECORD-NUMBER> */
SROF	Status, Requested Operation Failed

EXAMPLES

The following example illustrates the command and associated output for port T3T1-1-6 two-way connected to port T3T1-5-3 and one-way bridged to port T3T1-5-4. The two-way connection has been previously re-lined and assigned a circuit ID of TESTCKT3.

```
RTRV-CRS::T3T1-1-6;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of Pad567. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pad567 COMPLD
"T3T1-1-6,T3T1-5-3:2WAY,T1:RDL=Y,CKTID=TESTCKT3:IS"
"T3T1-1-6,T3T1-5-4:1WAY,T1::IS"
/* RTRV-CRS::T3T1-1-6 [Pad567] (2) */
;
```

The following example illustrates the command and associated output for port T3-1107 two-way path ring connected to port OC3STS1-101-1 and two-way path ring bridged to port OC3STS1-102-1.

```
RTRV-CRS::T3-1107;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of P8e373. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pad567 COMPLD
"T3-1107,OC3STS1-101-1:2WAYPR,T3::IS,WRK"
"T3-1107,OC3STS1-102-1:2WAYPR,T3::IS,STBYH"
/* RTRV-CRS::T3-1107 [P8e373] (2-5) */
;
```


The following example illustrates the command and associated output for DS1 ports T3T1-1-1 through T3T1-1-7.

```
RTRV-CRS::T3T1-1-1&&-7;
```

The output response, shown below, assumes the X.25 virtual channel 3 of CID 4 was used to enter the command and a system generated CTAG value of Pdb148. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed. The example assumes:

Port T3T1-1-1 is two-way connected to port T3T1-3-5 with a one-way bridge to port T3T1-7-17.

Port T3T1-1-2 is one-way connected to T3T1-2-8 but the T3T1-1-2 port facility is failed (LOF, for example).

Port T3T1-1-3 is two-way connected to port T3T1-3-28 and is also connected to a Test Access port for testing.

Port T3T1-1-4 is two-way connected to port T3T1-12-21 but port T3T1-12-21 is terminated.

Port T3T1-1-5 is not cross-connected.

Port T3T1-1-6 is connected as a broadcast conference head to ports T3T1-7-3, 10-17-3, and T3T1-27-3 with port T3T1-17-3 connected back to the T3T1-1-6 conference head.

Port T3T1-1-7 is connected as a broadcast conference head to ports T3T1-8-4 and T3T1-28-4.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M  Pdb148  COMPLD
    "T3T1-1-1,T3T1-3-5:2WAY,T1::IS"
    "T3T1-1-1,T3T1-7-17:1WAY,T1::IS"
    "T3T1-1-2,T3T1-2-8:1WAY,T1::OOS-AU,SGEO"
    "T3T1-1-3,T3T1-3-28:2WAY,T1::IS,TS"
    "T3T1-1-4,T3T1-12-21:2WAY,T1::IS,TERMT"
    "T3T1-1-6,T3T1-7-3:BCST,T1::IS"
    "T3T1-1-6,T3T1-17-3:BCST,T1::IS"
    "T3T1-1-6,T3T1-27-3:BCST,T1::IS"
    "T3T1-1-7,T3T1-8-4:BCST,T1::IS"
    "T3T1-1-7,T3T1-28-4:BCST,T1::IS"
    "T3T1-17-3,T3T1-1-6:1WAY,T1::IS"
/*  RTRV-CRS::T3T1-1-1&&-7 [Pdb148] (4-3) */
;
```

RELATED COMMANDS

DLT-CONF-T1
DLT-CONF-VT1
DLT-CRS-ST3C
DLT-CRS-ST31
DLT-CRS-T1
DLT-CRS-T3
ENT-CRS-ST31
ENT-CRS-ST3C
ENT-CRS-T1
ENT-CRS-T3
ENT-CONF-T1
ENT-ROLL-T1
ENT-ROLL-VT1
ENT-T1
RTRV-CKTID
RTRV-CONF-T1
RTRV-CONF-VT1
RTRV-CRS-ST31
RTRV-CRS-ST3C
RTRV-CRS-T1
RTRV-CRS-T3
RTRV-LPBK-T1
RTRV-RDL-ALL
RTRV-T1
RTRV-TACC

COMMAND CODE: **RTRV-CRS-ALL**
COMMAND NAME: **RETRIEVE CROSS-CONNECTION ALL**

PURPOSE

The RTRV-CRS-ALL command retrieves the connection path, connection type, transmission level, and current PST,SST state for the specified cross-connection types (CLEVEL) that exist within the specified Block Size (BLKSIZE) starting at the specified Block Number (BLKNUM) offset in the system cross-connection database. The command is executed regardless of the provisioning of the specified port or the state of the cross-connection.

This command is not efficient for retrieving the cross connect information over a range of ports. This command is most effective when used by an Operations System (OS) to retrieve all the cross connects that exist in the system. In order to do this, the OS should issue a sequence of RTRV-CRS-ALL commands, starting from a block number (BLKNUM) of 1 for a given BLKSIZE and incrementing the BLKNUM successively until an error message with error code IDRG is received. The BLKSIZE should be selected with a recognition that a larger block size will adversely effect the performance of the system and the retrieval will take longer to execute.

The command, for a particular block size, retrieves all the connections FROM another port and not the connection TO another port. For example, in case of BLKSIZE=128 and BLKNUM=1, if all the ports in that range are broadcast heads, they would not be reported unless there is a back-connection. These connections would eventually get reported when the BLKSIZE and BLKNUM is searched where the tail port exist.

The successful response for a RTRV-CRS-ALL contains a line of parsable output data for each cross-connection that currently exists in the cross-connection database area determined by the specified BLKNUM, BLKSIZE, and CLEVEL. A line of parsable output data is only displayed for existing cross-connections. A SST value is only displayed when a secondary state is currently applied to the cross-connection.

The successful response for a RTRV-CRS-ALL that retrieves ring cross-connections displays the drop port in the ring OC-3 or OC-12 (refer to ENT-RNG-OC3 or ENT-RNG-OC12) in the "FROM" position and the start-up STS-1 or VT1.5 embedded with the ring OC-3/OC-12 facility in the "TO" position.

A separate line of parsable output data is provided for each of the following cross-connection situations:

- 1WAY: One line of data for each one-way cross-connection, including the case of a one-way bridge connection, or a connection from a conference tail connected back to the conference head.
- 2WAY: One line of data for each two-way cross-connection, whether the two-way cross-connection was established as a single two-way cross-connect or as two one-way cross-connections.
- 2WAYPR: One or two lines of data for each two-way path ring cross-connection—one line for the ODD port, another line for the EVEN port. For a drop connection, one line of data is shown. For a ring-to-ring connection, two lines are shown.
- 2WAYDC: One or two lines of data for each two-way drop and continue cross-connection—one line for the ODD port, another line for the EVEN port. For a drop connection, one line of data is shown. For a ring-to-ring connection, two lines are shown.
- BCST: If the TO AID is a broadcast conference tail, one line of data for each one-way cross-connection from the conference tail to each conference head.

A RTRV-CRS-ALL command is denied if:

- The beginning record number of a block, as evaluated from the entered BLKSIZE and BLKNUM, exceeds the number of records in the cross-connection database.
- An invalid parameter value is entered.

INPUT FORMAT

RTRV-CRS-ALL: [TID] : [AID] : [CTAG] : : [BLKSIZE] , [BLKNUM] , [CLEVEL] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >
Default:	<SID>
Addressing:	None
Description:	Target Identifier, specifies the network node TID for the command.

AID	{ALL} Default: ALL Addressing: None Description: Access Identifier, specifies all FROM cross-connections within the specified BLKSIZE and BLKNUM range.						
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.						
BLKSIZE	{128, 256, 512, 1024} Default: {128} Addressing: None Description: Block Size, specifies the block size in the cross-connection database for which any existing cross-connections are reported.						
BLKNUM	{1-1610} Default: {1} Addressing: None Description: Block Number, specifies the block number offset within the cross-connection database for which any existing cross-connections are reported. For example, if BLKNUM of 2 and BLKSIZE of 128 are entered, then the cross-connection database entries from 129 to 256 are searched for cross-connections.						
CLEVEL	{T1, T3, STS3C} Default: {T1} Addressing: None Description: Connection Level, specifies the types of connections (T1 and VT1, or T3 and STS1) that are to be reported. Values are: <table> <tr> <td>T1</td><td>T1 Level, specifies any DS1 or VT1.5 cross-connections within the specified BLKSIZE and BLKNUM are reported.</td></tr> <tr> <td>T3</td><td>T3 Level, specifies any DS3 or STS-1 cross-connections within the specified BLKSIZE and BLKNUM are reported.</td></tr> <tr> <td>STS3C</td><td>STS3C Level, specifies any STS3C cross-connections within the specified BLKSIZE and BLKNUM are reported.</td></tr> </table>	T1	T1 Level, specifies any DS1 or VT1.5 cross-connections within the specified BLKSIZE and BLKNUM are reported.	T3	T3 Level, specifies any DS3 or STS-1 cross-connections within the specified BLKSIZE and BLKNUM are reported.	STS3C	STS3C Level, specifies any STS3C cross-connections within the specified BLKSIZE and BLKNUM are reported.
T1	T1 Level, specifies any DS1 or VT1.5 cross-connections within the specified BLKSIZE and BLKNUM are reported.						
T3	T3 Level, specifies any DS3 or STS-1 cross-connections within the specified BLKSIZE and BLKNUM are reported.						
STS3C	STS3C Level, specifies any STS3C cross-connections within the specified BLKSIZE and BLKNUM are reported.						

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
"<FROM>, <TO>: <CTYPE>, <LEVEL>: [RDL=] [, CKTID=] [, CKTIDTF=] : <PST> [, <SST>]"
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

FROM	DS1_AID:	
	{T1-{1-59392}}	(T1-DS1#)
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)
	{EC1T1-{1-3840}-{1-28}}	(EC1T1-EC1/STS1/DS3#-DS1#)
	{EC1T1-{1-3840}-{1-7}-{1-4}}	(EC1T1-EC1/STS1#-VTGrp#-VT1/DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-28}}	(OC3T1-OC3#-STS1/DS3#-DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3T1-OC3#-STS1#-VTGrp#-VT1/DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}	(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	
	(OC12T1-OC12#-STM1#-STS1#-VTGrp#-VT1/DS1#)	
	DS3_AID:	
	{T3-{1-4800}}	(T3-DS3#)
	STS1_AID:	
	{EC1STS1-{1-3840}}	(EC1STS1-EC1/STS1#)
	{OC3STS1-{1-2240}-{1-3}}	(OC3STS1-OC3#-STS1#)
	{OC12STS1-{1-560}-{1-4}-{1-3}}	(OC12STS1-OC12#-STM1#-STS1#)
	STS3C_AID:	
	{OC3STS3C-{1-2240}}	(OC3STS3C-OC3#/STS3C#)
	{OC12STS3C-{1-560}-{1-4}}	(OC12STS3C-OC12#-STM1/STS3C#)
	VT1.5_AID:	
	{EC1VT1-{1-3840}-{1-7}-{1-4}}	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)
	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)
	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	
	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)	

FROM Port AID, indicates the FROM (receive side from the network) port of the reported cross-connection. FROM is the specified AID entered in the RTRV-CRS-ALL command if a two-way cross-connection exists.

TO	<p>DS1_AID:</p> <p>{T1-{1-59392}} (T1-DS1#)</p> <p>{T3T1-{1-4800}-{1-28}} (T3T1-DS3#-DS1#)</p> <p>{EC1T1-{1-3840}-{1-28}} (EC1T1-EC1/STS1/DS3#-DS1#)</p> <p>{EC1T1-{1-3840}-{1-7}-{1-4}} (EC1T1-EC1/STS1#-VTGrp#-VT1/DS1#)</p> <p>{OC3T1-{1-2240}-{1-3}-{1-28}} (OC3T1-OC3#-STS1/DS3#-DS1#)</p> <p>{OC3T1-{1-2240}-{1-3}-{1-7}-{1-4}} (OC3T1-OC3#-STS1#-VTGrp#-VT1/DS1#)</p> <p>{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}} (OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)</p> <p>{OC12T1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}} (OC12T1-OC12#-STM1#-STS1#-VTGrp#-VT1/DS1#)</p> <p>DS3_AID:</p> <p>{T3-{1-4800}} (T3-DS3#)</p> <p>STS1_AID:</p> <p>{EC1STS1-{1-3840}} (EC1STS1-EC1/STS1#)</p> <p>{OC3STS1-{1-2240}-{1-3}} (OC3STS1-OC3#-STS1#)</p> <p>{OC12STS1-{1-560}-{1-4}-{1-3}} (OC12STS1-OC12#-STM1#-STS1#)</p> <p>STS3C_AID:</p> <p>{OC3STS3C-{1-2240}} (OC3STS3C-OC3#/STS3C#)</p> <p>{OC12STS3C-{1-560}-{1-4}} (OC12STS3C-OC12#-STM1/STS3C#)</p> <p>VT1.5_AID:</p> <p>{EC1VT1-{1-3840}-{1-7}-{1-4}} (EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)</p> <p>{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}} (OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)</p> <p>{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}} (OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)</p> <p>TO Port AID, indicates the TO (transmit side to the network) port of the reported cross-connection. If a two-way cross-connection exists, TO is the cross-connection AID not specified in the RTRV-CRS-ALL command.</p>										
CTYPE	<p>{1WAY, 2WAY, 2WAYPR, 2WAYDC, BCST}</p> <p>Cross-connection Type. Values are:</p> <table> <tr> <td>1WAY</td><td>One-way cross-connection.</td></tr> <tr> <td>2WAY</td><td>Two-way cross-connection.</td></tr> <tr> <td>2WAYPR</td><td>Two-way path ring connection. Not valid for STS-3C.</td></tr> <tr> <td>2WAYDC</td><td>Two-Way Drop and Continue connection. Not valid for STS-3C.</td></tr> <tr> <td>BCST</td><td>Broadcast conference cross-connection.</td></tr> </table>	1WAY	One-way cross-connection.	2WAY	Two-way cross-connection.	2WAYPR	Two-way path ring connection. Not valid for STS-3C.	2WAYDC	Two-Way Drop and Continue connection. Not valid for STS-3C.	BCST	Broadcast conference cross-connection.
1WAY	One-way cross-connection.										
2WAY	Two-way cross-connection.										
2WAYPR	Two-way path ring connection. Not valid for STS-3C.										
2WAYDC	Two-Way Drop and Continue connection. Not valid for STS-3C.										
BCST	Broadcast conference cross-connection.										
LEVEL	<p>{STS1, STS3C, T1, T3, VT1}</p> <p>Cross-connection Level, indicates the rate of the cross-connected channel. Values are:</p> <table> <tr> <td>STS1</td><td>STS-1 cross-connection, only displayed for an STS-1 to STS-1 cross-connection.</td></tr> <tr> <td>STS3C</td><td>STS-3C cross-connection, only displayed for an STS-3C to STS-3C cross-connection.</td></tr> <tr> <td>T1</td><td>DS1 cross-connection, displayed for a DS1 to DS1 and DS1 to VT1.5 cross-connection.</td></tr> <tr> <td>T3</td><td>DS3 cross-connection, displayed for a DS3 to DS3 and DS3 to STS1 cross-connection.</td></tr> <tr> <td>VT1</td><td>VT1.5 cross-connection, only displayed for a VT1.5 to VT1.5 cross-connection.</td></tr> </table>	STS1	STS-1 cross-connection, only displayed for an STS-1 to STS-1 cross-connection.	STS3C	STS-3C cross-connection, only displayed for an STS-3C to STS-3C cross-connection.	T1	DS1 cross-connection, displayed for a DS1 to DS1 and DS1 to VT1.5 cross-connection.	T3	DS3 cross-connection, displayed for a DS3 to DS3 and DS3 to STS1 cross-connection.	VT1	VT1.5 cross-connection, only displayed for a VT1.5 to VT1.5 cross-connection.
STS1	STS-1 cross-connection, only displayed for an STS-1 to STS-1 cross-connection.										
STS3C	STS-3C cross-connection, only displayed for an STS-3C to STS-3C cross-connection.										
T1	DS1 cross-connection, displayed for a DS1 to DS1 and DS1 to VT1.5 cross-connection.										
T3	DS3 cross-connection, displayed for a DS3 to DS3 and DS3 to STS1 cross-connection.										
VT1	VT1.5 cross-connection, only displayed for a VT1.5 to VT1.5 cross-connection.										
RDL	<p>{Y}</p> <p>Red Line Status of Cross-Connection. Value:</p> <table> <tr> <td>Y</td><td>Connection is Redlined.</td></tr> </table>	Y	Connection is Redlined.								
Y	Connection is Redlined.										
CKTID	<p>{<0-45 VALID CKTID CHARACTERS>}</p> <p>FROM-TO circuit ID previously assigned to cross-connection</p>										

CKTIDTF	{"<0–45 VALID CKTIDTF CHARACTERS>"}	TO–FROM circuit ID previously assigned to cross–connection
PST	{IS, OOS–AU}	Primary State, indicates the current primary state of the cross–connection. Refer to Appendix G, State Transitions for a definition of state names and description of state transitions. Values are: IS In-Service OOS–AU Out-Of-Service–Autonomous
SST	{ROLL, SGEO, TERMB, TERMF, TERMT, TS, STBYH, WRK}	Secondary State, indicates any secondary states associated with the cross–connection. SST values may be shown in the output combined with an ampersand (&) if more than one value applies to the cross–connection at the time of the RTRV–CRS. Refer to Appendix G, State Transitions for a definition of state names and description of state transitions. Values are: ROLL Roll, indicates the ports in the cross–connection are under rolling operation. SGEO Supporting Entity Outage TERMB Terminated-Both, indicates both the TO and FROM ports of the cross–connection are terminated. TERMF Terminated-From, indicates the FROM port of the cross–connection is terminated. TERMT Terminated-To, indicates the TO port of the cross–connection is terminated. TS Test, indicates the port is connected to a Test Access port. STBYH Stand-by Hot. Applies when CTYPE = 2WAYPR and 2WAYDC. STBYH indicates all the entities required for the cross connection are in–service. But the path is not selected in the RPB module and is ready to be selected if a failure is detected in the working connection. WRK Working. Applies when CTYPE = 2WAYPR and 2WAYDC. WRK indicates all entities required for the cross connection are in–service and the path is selected in the RPB module.

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non–Parser Error Codes used with this command are:

```

IDRG      Input, Data RanGe
           /* The value entered for BLKNUM is not valid for the BLKSIZE */
IPNV      Input, Parameter Not Valid
SDBE      Status, internal Data Base Error
           /* CONN Database Error: <ERROR-STRING> for <AID-STRING> */
           /* TP Database Error: <ERROR-STRING> for <AID-STRING> */

```

EXAMPLES

The following example illustrates the command and associated output for port T3T1-1-6 two-way connected to port T3T1-6-3 and one-way bridged to port T3T1-6-4.

```
RTRV-CRS-ALL:::::128,1,T1;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of Pad567. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M Pad567 COMPLD  
  "T3T1-1-6,T3T1-6-3:2WAY,T1:CKTID="TSTCKT4":IS"  
  "T3T1-1-6,T3T1-6-4:1WAY,T1::IS"  
  /* RTRV-CRS-ALL:::::128,1,T1 [Pad567] (2) */  
;
```

RELATED COMMANDS

```
DLT-CONF-T1  
DLT-CONF-VT1  
DLT-CRS-STs1  
DLT-CRS-STs3C  
DLT-CRS-T1  
DLT-CRS-T3  
DLT-CRS-VT1  
ED-CRS-STs1  
ED-CRS-T1  
ED-CRS-T3  
ED-CRS-VT1  
ENT-CONF-T1  
ENT-CONF-VT1  
ENT-CRS-STs1  
ENT-CRS-STs3C  
ENT-CRS-T1  
ENT-CRS-T3  
ENT-CRS-VT1  
ENT-ROLL-T1  
ENT-ROLL-VT1  
RTRV-CKTID  
RTRV-CONF-T1  
RTRV-CONF-VT1  
RTRV-CRS  
RTRV-CRS-STs1  
RTRV-CRS-STs3C  
RTRV-CRS-T1  
RTRV-CRS-T3  
RTRV-CRS-VT1  
RTRV-LPBK-STs1  
RTRV-LPBK-T1  
RTRV-LPBK-T3  
RTRV-LPBK-VT1  
RTRV-RDL-ALL  
RTRV-TACC
```


COMMAND CODE: **RTRV-CRS-ST51**
COMMAND NAME: **RETRIEVE CROSS-CONNECTION ST5-1**

PURPOSE

The RTRV-CRS-ST51 command retrieves the connection path and connection type for a one-way, two-way, two-way path or two-way drop and continue ring cross-connection identified by AID from the system database. The command is executed regardless of the provisioning of the specified port or the state of the cross-connection.

The successful response for a RTRV-CRS-ST51 contains one line of parsable output data, in ascending order (from lowest FROM AID to largest FROM AID), for each one-way or two-way cross-connection associated with the specified AID. A line of parsable output data is only displayed if the specified AID is cross-connected. In addition, no line of parsable output data is displayed if the specified ST5-1 is embedded within a protection OC-3 or OC-12 which is in normal linear mode. In ring mode (refer to ENT-RNG-OC3 or ENT-RNG-OC12), the RTRV-CRS-ST51 command displays output data for ST5-1s embedded within either odd-numbered or even-numbered OC-3 or OC-12 of a ring.

If the AID specifies an ST5-1 embedded within a ring OC3, this command retrieves cross connect information that might exist between the specified AID (displayed in the "FROM" position) and a drop non-terminated ST5-1 (displayed in the "TO" position). If the AID specifies a drop non-terminated ST5-1 that is not part of an OC3 ring, this command retrieves cross connect information that might exist between the specified AID (displayed in the "FROM" position), and the start-up ST5-1 (displayed in the "TO" position) embedded within the ring OC-3/OC-12 facility.

A separate line of parsable output data is provided for each of the following cross-connection situations:

- 1WAY: One line of data for each one-way cross-connection.
- 2WAY: One line of data for each two-way cross-connection, whether the two-way cross-connection was established as a single two-way cross-connection or as two one-way cross-connections.
- 2WAYPR: One line of data for each two-way path ring cross-connection.
- 2WAYDC: One line of data for each two-way drop and continue ring cross-connection.

The RTRV-CRS-ST51 retrieves information about the cross connect between the specified ST5-1 and another ST5-1 or DS3 port.

A RTRV-CRS-ST51 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-CRS-ST51 : [TID] : AID : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	STS1_AID: {EC1STS1-{1-3840}} (EC1STS1-EC1/STS1#) {OC3STS1-{1-2240}-{1-3}} (OC3STS1-OC3#-STS1#) {OC12STS1-{1-560}-{1-4}-{1-3}} (OC12STS1-OC12#-STM1#-STS1#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: Identifies the STS1 port or a range of STS-1 ports. Retrieves cross connection that exists between the specified STS-1 and another STS-1 or DS3.

CTAG < 1–6 VALID CTAG CHARACTERS >
Default: < System assigned CTAG value >
Addressing: None
Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  "<FROM>,<TO>:<CTYPE>:[RDL=] [,CKTID=] [,CKTIDTF=]"
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

FROM DS3_AID:
 {T3-{1–4800}} (T3–DS3#)
 STS1_AID:
 {EC1STS1-{1–3840}} (EC1STS1–EC1/STS1#)
 {OC3STS1-{1–2240}–{1–3}} (OC3STS1–OC3#–STS1#)
 {OC12STS1-{1–560}–{1–4}–{1–3}} (OC12STS1–OC12#–STM1#–STS1#)
 DS3 or STS1 AID, indicates the FROM (receive side from the network) port of the cross-connection. If a two-way cross-connection exists, FROM is the specified AID entered in the RTRV–CRS–STS1 command. If a two-way path or a two-way drop and continue ring cross-connection exists, either the FROM or TO AID can be an STS–1 within a ring OC–3 or OC–12.

TO DS3_AID:
 {T3-{1–4800}} (T3–DS3#)
 STS1_AID:
 {EC1STS1-{1–3840}} (EC1STS1–EC1/STS1#)
 {OC3STS1-{1–2240}–{1–3}} (OC3STS1–OC3#–STS1#)
 {OC12STS1-{1–560}–{1–4}–{1–3}} (OC12STS1–OC12#–STM1#–STS1#)
 DS3 or STS1 AID, indicates the TO (transmit side to the network) port of the cross-connection. If a two-way cross-connection exists, TO is the cross-connection AID not specified in the RTRV–CRS–STS1 command. If a two-way path or a two-way drop and continue ring cross-connection exists, either the FROM or TO AID can be an STS–1 within a ring OC–3 or OC–12.

CTYPE {1WAY, 2WAY, 2WAYPR, 2WAYDC}
 Cross-connection Type. Values are:
 1WAY One-way (through matrix) non-ring connection
 2WAY Two-way drop (through matrix) ring or non-ring connection or two-way pass-through ring connection
 2WAYPR Two-Way Path Protected Ring connection
 2WAYDC Two-Way Drop and Continue ring connection

RDL {Y}
 Red Line Status of Cross-Connection. Value:
 Y Connection is Redlined.

CKTID {"<0–45 VALID CKTID CHARACTERS>"}
 FROM–TO circuit ID previously assigned to cross-connection

CKTIDTF {"<0–45 VALID CKTIDTF CHARACTERS>"}
 TO–FROM circuit ID previously assigned to cross-connection

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

```
IIAC      Input, Invalid ACcess identifier
SDBE      Status, internal Data Base Error
          /* TP Database Error: <ERROR-STRING> for <AID-STRING> */
          /* CONN Database Error: <ERROR-STRING> for <AID-STRING> */
          /* RIP Database Error: <ERROR-STRING> for record number <RECORD-
            NUMBER> */
```

EXAMPLES

The following example illustrates the command and associated output for a one-way connection from STS-1 port embedded within OC-3; OC3STS1-1-3 to STS-1 port EC1STS1-5 an STS-1 embedded within EC1.

```
RTRV-CRS-STs1::OC3STS1-1-3;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of Pad567. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed. The output shows that the connection is redlined and assigned a circuit ID of TESTCKT5.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pad567 COMPLD
  "OC3STS1-1-3,EC1STS1-5:1WAY:RDL=Y,CKTID=TESTCKTID5"
  /* RTRV-CRS-STs1::OC3STS1-1-3 [Pad567] (2) */
;
```

The following example illustrates the command and associated output for STS-1 ports OC3STS1-9-1 through OC3STS1-9-3.

```
RTRV-CRS::OC3STS1-9-1&&-3;
```

The output response, shown below, assumes the X.25 virtual channel 2 of CID 3 was used to enter the command and a system generated CTAG value of Pdb149. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed. The example assumes:

Port OC3STS1-9-1 is two-way connected to port T3-3.

Port OC3STS1-9-2 is one-way connected to OC3STS1-7-1.

Port OC3STS1-9-3 is one-way connected to OC3STS1-1-3

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pdb149 COMPLD
  "OC3STS1-9-1,T3-3:2WAY"
  "OC3STS1-9-2,OC3STS1-7-1:1WAY"
  "OC3STS1-9-3,OC3STS1-1-3:1WAY"
  /* RTRV-CRS-STs1::OC3STS1-9-1&&-3 [Pdb149] (3-2) */
;
```

RELATED COMMANDS

DLT-CRS-STs1

ENT-CRS-STs1

ENT-STs1

RTRV-CKTID

RTRV-CRS

RTRV-CRS-ALL

RTRV-LPBK-STs1

RTRV-RDL-ALL

RTRV-STs1

COMMAND CODE: **RTRV-CRS-STS3C**
COMMAND NAME: **RETRIEVE CROSS-CONNECTION
STS-3C**

PURPOSE

The RTRV-CRS-STS3C command retrieves the connection path and connection type for a one-way or two-way cross-connection identified by AID from the system database. The command is executed regardless of the provisioning of the specified port or the state of the cross-connection.

The successful response for a RTRV-CRS-STS3C contains one line of parsable output data, in ascending order (from lowest FROM AID to largest FROM AID), for each one-way or two-way cross-connection associated with the specified AID. A line of parsable output data is only displayed if the specified AID is cross-connected. In addition, no line of parsable output data is displayed if the specified STS-3C is embedded within a protection OC-3/OC-12.

A separate line of parsable output data is provided for each of the following cross-connection situations:

- 1WAY: One line of data for each one-way cross-connection.
- 2WAY: One line of data for each two-way cross-connection, whether the two-way cross-connection was established as a single two-way cross-connection or as two one-way cross-connections.

The RTRV-CRS-STS3C retrieves information about the cross connect between the specified STS-3C and another STS-3C port.

A RTRV-CRS-STS3C command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-CRS-STS3C: [TID] :AID: [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	STS3C_AID: {OC3STS3C-{1-2240}} (OC3STS3C-OC3#/STS3C#) {OC12STS3C-{1-560}-{1-4}} (OC12STS3C-OC12#-STM1/STS3C#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: Identifies the STS-3C port or a range of STS-3C ports. Retrieves cross connection that exists between the specified STS-3C and another STS-3C.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  "<FROM>,<TO>:<CTYPE>:[RDL=] [,CKTID=] [,CKTIDTF=] : "
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

FROM	<p>STS3C_AID: {OC3STS3C-{1-2240}} (OC3STS3C-OC3#/STS3C#) {OC12STS3C-{1-560}-{1-4}} (OC12STS3C-OC12#-STM1/STS3C#) STS3C AID, indicates the FROM (receive side from the network) port of the cross-connection. If a two-way cross-connection exists, FROM is the specified AID entered in the RTRV-CRS-ST3C command.</p>
TO	<p>STS3C_AID: {OC3STS3C-{1-2240}} (OC3STS3C-OC3#/STS3C#) {OC12STS3C-{1-560}-{1-4}} (OC12STS3C-OC12#-STM1/STS3C#) STS3C AID, indicates the TO (transmit side to the network) port of the cross-connection. If a two-way cross-connection exists, TO is the cross-connection AID not specified in the RTRV-CRS-ST3C command.</p>
CTYPE	<p>{1WAY, 2WAY} Cross-connection Type. Values are: 1WAY One-way cross-connection. 2WAY Two-way cross-connection.</p>
RDL	<p>{Y} Red Line Status of Cross-Connection. Value: Y Connection is Redlined.</p>
CKTID	<p>{"<0-45 VALID CKTID CHARACTERS>"} FROM-TO circuit ID previously assigned to cross-connection</p>
CKTIDTF	<p>{"<0-45 VALID CKTIDTF CHARACTERS>"} TO-FROM circuit ID previously assigned to cross-connection</p>

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

```

IIAC      Input, Invalid ACcess identifier
SDBE      Status, internal Data Base Error
          /* TP Database Error: <ERROR-STRING> for <AID-STRING> */
          /* CONN Database Error: <ERROR-STRING> for <AID-STRING> */
          /* RIP Database Error: <ERROR-STRING> for record number <RECORD-
NUMBER> */

```

EXAMPLES

The following example illustrates the command and associated output for a one-way connection from STS-3C port embedded within OC-3; OC3STS3C-1 to STS-3C port OC3STS3C-5, an STS-3C embedded within OC-3. The output shows the connection has been redlined and has a circuit ID of TESTCKT6.

```
RTRV-CRS-ST3C: :OC3STS3C-1;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of Pad567. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pad567 COMPLD
"OC3STS3C-1,OC3STS3C-5:1WAY:RDL=Y,CKTID=TESTCKT6"
/* RTRV-CRS-ST3C::OC3STS3C-1 [Pad567] (2) */
;
```

The following example illustrates the command and associated output for STS3C ports OC3STS3C-1 through OC3STS3C-5.

```
RTRV-CRS::OC3STS3C-1&&-5;
```

The output response, shown below, assumes the X.25 virtual channel 2 of CID 3 was used to enter the command and a system generated CTAG value of Pdb149. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed. The example assumes:

Port OC3STS3C-1 is two-way connected to port OC3STS3C-73

Port OC3STS3C-3 is one-way connected to OC3STS3C-57.

Port OC3STS3C-5 is one-way connected to OC3STS3C-41.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pdb149 COMPLD
"OC3STS3C-1,OC3STS3C-73:2WAY"
"OC3STS3C-3,OC3STS3C-57:1WAY"
"OC3STS3C-5,OC3STS3C-41:1WAY"
/* RTRV-CRS-ST3C::OC3STS3C-1&&-5 [Pdb149] (3-2) */
;
```

RELATED COMMANDS

```
DLT-CRS-ST3C
ENT-CRS-ST3C
ENT-ST3C
RTRV-CKTID
RTRV-CRS
RTRV-RDL-ALL
RTRV-ST3C
```


COMMAND CODE: **RTRV-CRS-T1**
COMMAND NAME: **RETRIEVE CROSS-CONNECTION T1**

PURPOSE

The RTRV-CRS-T1 command retrieves the connection path and connection type for a one-way, two-way, two-way path or two-way drop and continue ring cross-connection identified by AID from the system database. Other cross-connection types, such as broadcast conference connections, are not reported. The command is executed regardless of the provisioning of the specified port or the state of the cross-connection.

The successful response for a RTRV-CRS-T1 contains one line of parsable output data, in ascending order (from lowest FROM AID to largest FROM AID), for each one-way or two-way cross-connection associated with the specified AID. A line of parsable output data is only displayed if the specified AID is cross-connected. In addition, no line of parsable output data is displayed if the specified DS1 is embedded within a protection OC3/OC12.

If the AID specifies a drop terminated T1 that is not part of an OC3/OC12 ring (refer to ENT-RNG-OC3 or ENT-RNG-OC12), this command retrieves cross connect information that might exist between the specified AID (displayed in the "FROM" position), and the start-up VT1.5 (displayed in the "TO" position) embedded within the ring OC3/OC12 facility.

A separate line of parsable output data is provided for each of the following cross-connection situations:

- 1WAY: One line of data for each one-way cross-connection, including the case of a one-way bridge connection, or a connection from a conference tail connected back to the conference head.
- 2WAY: One line of data for each two-way cross-connection, whether the two-way cross-connection was established as a single two-way cross-connection or as two one-way cross-connections.
- 2WAYPR: One line of data for each two-way path ring cross-connection.
- 2WAYDC: One line of data for each two-way drop and continue ring cross-connection.

The RTRV-CRS-T1 retrieves information about the cross connect whether the specified DS1 is cross connected to DS1 or VT1.5.

A RTRV-CRS-T1 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-CRS-T1 : [TID] : AID : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >	
	Default:	<SID>
	Addressing:	None
	Description:	Target Identifier, specifies the network node TID for the command.
AID	DS1_AID:	
	{T1-{1-59392}}	(T1-DS1#)
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)
	{EC1T1-{1-3840}-{1-28}}	(EC1T1-EC1/STS1/DS3#-DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-28}}	(OC3T1-OC3#-STS1/DS3#-DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}	(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)
	Default:	Entry Required
	Addressing:	&&-ranging and &-grouping
	Description:	Identifies the DS1 port or a range of ports. Retrieves cross connection that exists between the specified DS1 and another DS1 or VT1.5.
CTAG	< 1-6 VALID CTAG CHARACTERS >	
	Default:	< System assigned CTAG value >
	Addressing:	None
	Description:	Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  "<FROM>,<TO>:<CTYPE>:[RDL=] [,CKTID=] [,CKTIDTF=]"
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

OUTPUT PARAMETERS

FROM	<p>DS1_AID:</p> <p>{T1-{1-59392}} (T1-DS1#)</p> <p>{T3T1-{1-4800}-{1-28}} (T3T1-DS3#-DS1#)</p> <p>{EC1T1-{1-3840}-{1-28}} (EC1T1-EC1/STS1/DS3#-DS1#)</p> <p>{OC3T1-{1-2240}-{1-3}-{1-28}} (OC3T1-OC3#-STS1/DS3#-DS1#)</p> <p>{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}} (OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)</p> <p>VT1_AID:</p> <p>{EC1VT1-{1-3840}-{1-7}-{1-4}} (EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)</p> <p>{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}} (OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)</p> <p>{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}} (OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)</p> <p>DS1 or VT1 AID, indicates the FROM (receive side from the network) port of the cross-connection. If a two-way cross-connection exists, FROM is the specified AID entered in the RTRV-CRS-T1 command. If a two-way path or a two-way drop and continue ring cross-connection exists, either the FROM or TO AID can be a VT1.5 within a ring OC3/OC12.</p>								
TO	<p>DS1_AID:</p> <p>{T1-{1-59392}} (T1-DS1#)</p> <p>{T3T1-{1-4800}-{1-28}} (T3T1-DS3#-DS1#)</p> <p>{EC1T1-{1-3840}-{1-28}} (EC1T1-EC1/STS1/DS3#-DS1#)</p> <p>{OC3T1-{1-2240}-{1-3}-{1-28}} (OC3T1-OC3#-STS1/DS3#-DS1#)</p> <p>{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}} (OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)</p> <p>VT1_AID:</p> <p>{EC1VT1-{1-3840}-{1-7}-{1-4}} (EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)</p> <p>{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}} (OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)</p> <p>{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}} (OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)</p> <p>DS1 or VT1 AID, indicates the TO (transmit side to the network) port of the cross-connection. If a two-way cross-connection exists, TO is the cross-connection AID not specified in the RTRV-CRS-T1 command. If a two-way path or a two-way drop and continue ring cross-connection exists, either the FROM or TO AID can be a VT1.5 within a ring OC3/OC12.</p>								
CTYPE	<p>{1WAY, 2WAY, 2WAYPR, 2WAYDC}</p> <p>Cross-connection Type. Values are:</p> <table border="0"> <tr> <td style="padding-right: 20px;">1WAY</td> <td>One-way (through matrix) non-ring connection</td> </tr> <tr> <td>2WAY</td> <td>Two-way drop (through matrix) ring or non-ring connection</td> </tr> <tr> <td>2WAYPR</td> <td>Two-Way Path Protected Ring connection</td> </tr> <tr> <td>2WAYDC</td> <td>Two-Way Drop and Continue ring connection</td> </tr> </table>	1WAY	One-way (through matrix) non-ring connection	2WAY	Two-way drop (through matrix) ring or non-ring connection	2WAYPR	Two-Way Path Protected Ring connection	2WAYDC	Two-Way Drop and Continue ring connection
1WAY	One-way (through matrix) non-ring connection								
2WAY	Two-way drop (through matrix) ring or non-ring connection								
2WAYPR	Two-Way Path Protected Ring connection								
2WAYDC	Two-Way Drop and Continue ring connection								
RDL	<p>{Y}</p> <p>Red Line Status of Cross-Connection. Value:</p> <table border="0"> <tr> <td style="padding-right: 20px;">Y</td> <td>Connection is Redlined.</td> </tr> </table>	Y	Connection is Redlined.						
Y	Connection is Redlined.								
CKTID	<p>{ "<0-45 VALID CKTID CHARACTERS>" }</p> <p>FROM-TO circuit ID previously assigned to cross-connection</p>								

CKTIDTF {"<0-45 VALID CKTIDTF CHARACTERS>"}
TO-FROM circuit ID previously assigned to cross-connection

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

```
IIAC      Input, Invalid ACcess identifier
SDBE      Status, internal Data Base Error
          /* TP Database Error: <ERROR-STRING> for <AID-STRING> */
          /* CONN Database Error: <ERROR-STRING> for <AID-STRING> */
          /* RIP Database Error: <ERROR-STRING> for record number <RECORD-
            NUMBER> */
```

EXAMPLES

The following example illustrates the command and associated output for a redlined one-way connection from DS1 port T3T1-1-6 to DS1 port T3T1-5-3.

```
RTRV-CRS-T1::T3T1-1-6;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of Pad567. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pad567 COMPLD
"T3T1-1-6,T3T1-5-3:1WAY:RDL=Y"
/* RTRV-CRS-T1::T3T1-1-6 [Pad567] (2) */
;
```

The following example illustrates the command and associated output for DS1 ports T3T1-10-1 through T3T1-10-4.

```
RTRV-CRS::T3T1-10-1&&-4;
```

The output response, shown below, assumes the X.25 virtual channel 2 of CID 3 was used to enter the command and a system generated CTAG value of Pdb149. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed. The example assumes:

Port T3T1-10-1 is two-way connected to port T3T1-3-5 with a one-way bridge to port T3T1-7-17.

Port T3T1-10-2 is one-way connected to EC1T1-2-8.

Port T3T1-10-3 is not cross-connected.

Port T3T1-10-4 is two-way connected to port T3T1-12-21.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pdb149 COMPLD
"T3T1-10-1,T3T1-3-5:2WAY"
"T3T1-10-1,T3T1-7-17:1WAY"
"T3T1-10-2,EC1T1-2-8:1WAY"
"T3T1-10-4,T3T1-12-21:2WAY"
/* RTRV-CRS-T1::T3T1-10-1&&-4 [Pdb149] (3-2) */
;
```

RELATED COMMANDS

```
RTRV-CRS
RTRV-CRS-ALL
RTRV-CONF-T1
RTRV-LPBK-T1
RTRV-TACC
ENT-CRS-T1
ENT-CONF-T1
ENT-ROLL-T1
DLT-CRS-T1
DLT-CONF-T1
ENT-T1
RTRV-T1
```

COMMAND CODE: **RTRV-CRS-T3**
COMMAND NAME: **RETRIEVE CROSS-CONNECTION T3**

PURPOSE

The RTRV-CRS-T3 command retrieves the connection path and connection type for a one-way, two-way, two-way path or two-way drop and continue ring cross-connection identified by AID from the system database. The command is executed regardless of the provisioning of the specified port or the state of the cross-connection.

RTRV-CRS-T3 retrieves information about the cross-connection between the specified T3 and another STS-1 or DS3 port.

The successful response for a RTRV-CRS-T3 contains one line of parsable output data, in ascending order (from lowest FROM AID to largest FROM AID), for each one-way or two-way cross-connection associated with the specified AID. A line of parsable output data is only displayed if the specified AID is cross-connected..

If the AID specifies a drop terminated T3 that is not part of an OC-3/OC-12 ring (refer to ENT-RNG-OC3 or ENT-RNG-OC12), this command retrieves cross connect information that might exist between the specified AID (displayed in the "FROM" position), and the start-up STS-1 (displayed in the "TO" position) embedded within the ring OC-3/OC-12 facility.

A separate line of parsable output data is provided for each of the following cross-connection situations:

- 1WAY: One line of data for each one-way cross-connection.
- 2WAY: One line of data for each two-way cross-connection, whether the two-way cross-connection was established as a single two-way cross-connection or as two one-way cross-connections.
- 2WAYPR: One line of data for each two-way path ring cross-connection.
- 2WAYDC: One line of data for each two-way drop and continue ring cross-connection.

A RTRV-CRS-T3 command is denied if:

- The specified T3 is an embedded DS3.
- An invalid parameter value is entered.

INPUT FORMAT

RTRV-CRS-T3 : [TID] : AID : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	DS3_AID: {T3-{1-4800}} (T3-DS3#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: Identifies the DS3 port or a range of DS3 ports. Retrieves cross connection that exists between the specified DS3 and another DS3 or STS-1.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
"<FROM>,<TO>:<CTYPE>:[RDL=] [,CKTID=] [,CKTIDTF=] "
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

FROM	<p>DS3_AID: {T3-{1-4800}} (T3-DS3#)</p> <p>STS1_AID: {EC1STS1-{1-3840}} (EC1STS1-EC1/STS1#) {OC3STS1-{1-2240}-{1-3}} (OC3STS1-OC3#-STS1#) {OC12STS1-{1-560}-{1-4}-{1-3}} (OC12STS1-OC12#-STM1#-STS1#)</p> <p>DS3 or STS-1 AID, indicates the FROM (receive side from the network) port of the cross-connection. If a two-way cross-connection exists, FROM is the specified AID entered in the RTRV-CRS-T3 command. If a two-way path or a two-way drop and continue ring cross-connection exists, either the FROM or TO AID can be an STS-1 within a ring OC-3/OC-12.</p>								
TO	<p>DS3_AID: {T3-{1-4800}} (T3-DS3#)</p> <p>STS1_AID: {EC1STS1-{1-3840}} (EC1STS1-EC1/STS1#) {OC3STS1-{1-2240}-{1-3}} (OC3STS1-OC3#-STS1#) {OC12STS1-{1-560}-{1-4}-{1-3}} (OC12STS1-OC12#-STM1#-STS1#)</p> <p>DS3 or STS-1 AID, indicates the TO (transmit side to the network) port of the cross-connection. If a two-way cross-connection exists, TO is the cross-connection AID not specified in the RTRV-CRS-T3 command. If a two-way path or a two-way drop and continue ring cross-connection exists, either the FROM or TO AID can be an STS-1 within a ring OC-3/OC-12.</p>								
CTYPE	<p>{1WAY, 2WAY, 2WAYPR, 2WAYDC}</p> <p>Cross-connection Type. Values are:</p> <table> <tr> <td>1WAY</td><td>One-way (through matrix) non-ring connection</td></tr> <tr> <td>2WAY</td><td>Two-way drop (through matrix) ring or non-ring connection</td></tr> <tr> <td>2WAYPR</td><td>Two-Way Path Protected Ring connection</td></tr> <tr> <td>2WAYDC</td><td>Two-Way Drop and Continue ring connection</td></tr> </table>	1WAY	One-way (through matrix) non-ring connection	2WAY	Two-way drop (through matrix) ring or non-ring connection	2WAYPR	Two-Way Path Protected Ring connection	2WAYDC	Two-Way Drop and Continue ring connection
1WAY	One-way (through matrix) non-ring connection								
2WAY	Two-way drop (through matrix) ring or non-ring connection								
2WAYPR	Two-Way Path Protected Ring connection								
2WAYDC	Two-Way Drop and Continue ring connection								
RDL	<p>{Y}</p> <p>Red Line Status of Cross-Connection. Value:</p> <table> <tr> <td>Y</td><td>Connection is Redlined.</td></tr> </table>	Y	Connection is Redlined.						
Y	Connection is Redlined.								
CKTID	<p>{"<0-45 VALID CKTID CHARACTERS>"}</p> <p>FROM-TO circuit ID previously assigned to cross-connection</p>								
CKTIDTF	<p>{"<0-45 VALID CKTIDTF CHARACTERS>"}</p> <p>TO-FROM circuit ID previously assigned to cross-connection</p>								

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC Input, Invalid ACcess identifier
SDBE Status, internal Data Base Error
 /* TP Database Error: <ERROR-STRING> for <AID-STRING> */
 /* CONN Database Error: <ERROR-STRING> for <AID-STRING> */
 /* RIP Database Error: <ERROR-STRING> for record number <RECORD-
 NUMBER> */

EXAMPLES

The following example illustrates the command and associated output for a one-way connection from DS3 port T3-1 to STS-1 port EC1STS1-5, an STS-1 embedded within an EC1.

```
RTRV-CRS-T3::T3-1;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of Pad567. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed. The connection has been assigned a circuit ID of TESTCKTID6.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M Pad567 COMPLD  
"T3-1,EC1STS1-5:1WAY:CKTID=TESTCKTID6"  
/* RTRV-CRS-T3::T3-1" [Pad567] (2) */  
;
```

The following example illustrates the command and associated output for DS3 ports T3-11 through T3-13.

```
RTRV-CRS::T3-11&&-13;
```

The output response, shown below, assumes the X.25 virtual channel 2 of CID 3 was used to enter the command and a system generated CTAG value of Pdb149. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed. The example assumes:

Port T3-11 is two-way connected to port T3-3, an electrical DS3 with a one-way bridge to port OC3STS1-7-1, an STS-1 embedded within OC-3.

Port T3-12 is one-way connected to T3-24.

Port T3-13 is not cross-connected.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M Pdb149 COMPLD  
"T3-11,T3-3:2WAY"  
"T3-11,OC3STS1-7-1:1WAY"  
"T3-12,T3-24:1WAY"  
/* RTRV-CRS-T3::T3-11&&-13 [Pdb149] (3-2) */  
;
```

The following example illustrates the command and associated output for a redlined one-way connection from DS3 port T3-1 to DS3 port T3-5.

```
RTRV-CRS-T3::T3-1;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of Pad567. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M Pad567 COMPLD  
"T3-1,T3-5:1WAY:RDL=Y"  
/* RTRV-CRS-T3::T3-1 [Pad567] (2) */  
;
```

RELATED COMMANDS

DLT-CRS-T3

ENT-CRS-T3
ENT-T3
RTRV-CKTID
RTRV-CRS
RTRV-CRS-ALL
RTRV-LPBK-T3
RTRV-RDL-ALL
RTRV-T3

COMMAND CODE: **RTRV-CRS-VT1**
COMMAND NAME: **RETRIEVE CROSS-CONNECTION VT1**

PURPOSE

The RTRV-CRS-VT1 command retrieves the connection path and connection type for a one-way, two-way, two-way path or two-way drop and continue ring cross-connection identified by AID from the system database. Other cross-connection types, such as broadcast conference connections, are not reported. The command is executed regardless of the provisioning of the specified port or the state of the cross-connection.

The RTRV-CRS-VT1 retrieves information about the cross connect whether the specified VT1.5 is cross connected to DS1 or VT1.5.

The successful response for a RTRV-CRS-VT1 contains one line of parsable output data, in ascending order (from lowest FROM AID to largest FROM AID), for each one-way or two-way cross-connection associated with the specified AID. A line of parsable output data is only displayed if the specified AID is cross-connected. In addition, no line of parsable output data is displayed if the specified VT1.5 is embedded within a protection OC3 which is in normal linear mode. In ring mode (refer to ENT-RNG-OC3 or ENT-RNG-OC12), the RTRV-CRS-VT1 command displays output data for VT1.5s embedded within either odd-numbered or even-numbered ring OC-3s/OC-12s.

If the AID specifies a VT1.5 embedded within a ring OC-3/OC-12, this command retrieves cross connect information that might exist between the specified AID (displayed in the "FROM" position) and a drop non-terminated VT1.5 (displayed in the "TO" position). If the AID specifies a drop non-terminated VT1.5 that is not part of an OC-3/OC-12 ring, this command retrieves cross connect information that might exist between the specified AID (displayed in the "FROM" position), and the start-up VT1.5 (displayed in the "TO" position) embedded within the ring OC-3/OC-12 facility.

A separate line of parsable output data is provided for each of the following cross-connection situations:

- 1WAY: One line of data for each one-way cross-connection, including the case of a one-way bridge connection, or a connection from a conference tail connected back to the conference head.
- 2WAY: One line of data for each two-way cross-connection, whether the two-way cross-connection was established as a single two-way cross-connection or as two one-way cross-connections.
- 2WAYPR: One line of data for each two-way path ring cross-connection.
- 2WAYDC: One line of data for each two-way drop and continue ring cross-connection.

A RTRV-CRS-VT1 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-CRS-VT1: [TID] :AID: [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	VT1_AID: {EC1VT1-{1-3840}-{1-7}-{1-4}} (EC1VT1-EC1/STS1#-VTGrp#-VT1.5#) {OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}} (OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#) {OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}} (OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: Identifies the VT1.5 port or a range of ports. Retrieves cross connection that exists between the specified VT1.5 and another DS1 or VT1.5.

CTAG	< 1–6 VALID CTAG CHARACTERS >
Default:	< System assigned CTAG value >
Addressing:	None
Description:	Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```

M  <SID> <YY-MM-DD> <HH:MM:SS>
    <CTAG> COMPLD
    "<FROM>,<TO>:<CTYPE>:[RDL=] [,CKTID=] [,CKTIDTF=]"
    [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

OUTPUT PARAMETERS

FROM	DS1_AID:	
	{T1-{1-59392}}	(T1-DS1#)
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)
	{EC1T1-{1-3840}-{1-28}}	(EC1T1-EC1/STS1/DS3#-DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-28}}	(OC3T1-OC3#-STS1/DS3#-DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}	(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)
	VT1_AID:	
	{EC1VT1-{1-3840}-{1-7}-{1-4}}	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)
	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)
	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	
	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)	

DS1 or VT1 AID, indicates the FROM (receive side from the network) port of the cross-connection. If a two-way cross-connection exists, FROM is the specified AID entered in the RTRV-CRS-VT1 command. If a two-way path or a two-way drop and continue ring cross-connection exists, either the FROM or TO AID can be a VT1.5 within a ring QC-3/QC-12.

TO	DS1_AID:	
	{T1-{1-59392}}	(T1-DS1#)
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)
	{EC1T1-{1-3840}-{1-28}}	(EC1T1-EC1/STS1/DS3#-DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-28}}	(OC3T1-OC3#-STS1/DS3#-DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}	(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)
	VT1_AID:	
	{EC1VT1-{1-3840}-{1-7}-{1-4}}	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)
	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)
	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	
	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)	

DS1 or VT1 AID, indicates the TO (transmit side to the network) port of the cross-connection. If a two-way cross-connection exists, TO is the cross-connection AID not specified in the RTRV-CRS-VT1 command. If a two-way path or a two-way drop and continue ring cross-connection exists, either the FROM or TO AID can be a VT1.5 within a ring OC-3/OC-12.

CTYPE	{1WAY, 2WAY, 2WAYPR, 2WAYDC}
	Cross-connection Type. Values are:
1WAY	One-way (through matrix) non-ring connection
2WAY	Two-way drop (through matrix) ring or non-ring connection or two-way pass-through ring connection
2WAYPR	Two-Way Path Protected Ring connection
2WAYDC	Two-Way Drop and Continue ring connection

RDL	{Y} Red Line Status of Cross-Connection. Value: Y Connection is Redlined.
CKTID	{"<0-45 VALID CKTID CHARACTERS>" FROM-TO circuit ID previously assigned to cross-connection
CKTIDTF	{"<0-45 VALID CKTIDTF CHARACTERS>" TO-FROM circuit ID previously assigned to cross-connection

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

```

IIAC      Input, Invalid ACcess identifier
SDBE      Status, internal Data Base Error
          /* TP Database Error: <ERROR-STRING> for <AID-STRING> */
          /* CONN Database Error: <ERROR-STRING> for <AID-STRING> */
          /* RIP Database Error: <ERROR-STRING> for record number <RECORD-
            NUMBER> */

```

EXAMPLES

The following example illustrates the command and associated output for a redlined one-way connection from VT1.5 port embedded within EC1 EC1VT1-1-6-4 to DS1 port T3T1-5-3.

```
RTRV-CRS-VT1::EC1VT1-1-6-4;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of Pad567. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```

<SID> <YY-MM-DD> <HH:MM:SS>
M Pad567 COMPLD
  "EC1VT1-1-6-4,T3T1-5-3:1WAY:RDL=Y"
  /* RTRV-CRS-VT1::EC1VT1-1-6-4 [Pad567] (2) */
;

```

The following example illustrates the command and associated output for VT1.5 ports EC1VT1-10-1-1 through EC1VT1-10-1-4.

```
RTRV-CRS::EC1VT1-10-1-1&&-4;
```

The output response, shown below, assumes the X.25 virtual channel 2 of CID 3 was used to enter the command and a system generated CTAG value of Pdb149. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed. The example assumes:

Port EC1VT1-10-1-1 is two-way connected to port T3T1-3-5 with a one-way bridge to port T3T1-7-17.

Port EC1VT1-10-1-2 is one-way connected to EC1T1-2-8.

Port EC1VT1-10-1-3 is not cross-connected.

Port EC1VT1-10-1-4 is two-way connected to port T3T1-12-21.

```

    <SID> <YY-MM-DD> <HH:MM:SS>
M   Pdb149 COMPLD
    "EC1VT1-10-1-1,T3T1-3-5:2WAY"
    "EC1VT1-10-1-1,T3T1-7-17:1WAY"
    "EC1VT1-10-1-2,EC1T1-2-8:1WAY"
    "EC1VT1-10-1-4,T3T1-12-21:2WAY"
/* RTRV-CRS-VT1::EC1VT1-10-1-1&&-4 [Pdb149] (3-2) */
;

```

RELATED COMMANDS

```

DLT-CONF-VT1
DLT-CRS-VT1
ENT-CONF-VT1
ENT-CRS-VT1
ENT-ROLL-VT1
ENT-VT1
RTRV-CKTID
RTRV-CONF-VT1
RTRV-CRS
RTRV-CRS-ALL
RTRV-LPBK-VT1
RTRV-RDL-ALL
RTRV-VT1

```

COMMAND CODE: **RTRV-DA**
COMMAND NAME: **RETRIEVE DELAYED ACTIVATION**

PURPOSE

The RTRV-DA command retrieves information about scheduled delayed activated commands from the delayed activation table.

The commands ACT-DB-BACKUP, DLT-EQPT, ENT-EQPT, and INIT-SYS can be scheduled to be delayed activated at a specified future time, either once, or perpetually, by entering values for the ON (Order Number), DATE, and TIME parameters when the command is entered. When the command is entered with these parameters specified, the command line is entered into the delayed activation table.

Entries in the delayed activation table are retrieved via the RTRV-DA command according to the specified Order Number, and the specified search key parameters TTYPE (Trigger Type), TIMEGE (Time Greater Than or Equal To), or TIMELE (Time Less Than or Equal To).

NOTE: Although the ON parameter value can be an integer from 0 to 999999, the user should limit the number of delayed activation commands at any given time to 500.

A RTRV-DA command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-DA: [TID] :ON: [CTAG] : : : [TIMEGE=] [, TIMELE=] [, TTYPE=] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
ON	{ON_AID:{0-999999}, ALL} Default: Entry Required Addressing: &&-ranging and &-grouping Description: Order Number AID, specifies the Order Number associated with the command entry in the delayed activation table that is to be retrieved. 0-999999 Order Number value previously assigned to the command. ALL All pending Order Numbers are to be retrieved. Restrictions: RTRV-DA is denied if the specified Order Number does not exist in the delayed activation table.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

TIMEGE=	{YY-MM-DD[-HH-MN]:{ {00-99} - {01-12} - {01-31} [- {00-23} - {00-59}] }, <NoVal> }
Default:	<NoVal>
Addressing:	None
Description:	Time Greater Than or Equal To, specifies commands scheduled for delayed activation whose trigger time is greater than or equal to the designated date and time are to be retrieved. The values for each element of the TIMEGE parameter are:
<YY>	The last two digits of the year. Values are: 70-99 1970 through 1999 00-69 2000 through 2069
<MM>	Month of the year. Values are: 1-12
<DD>	Day of the month. Values are: 1-31
<HH>	Hour of the day. Values are: 0-23
<MN>	Minute of the Hour. Values are: 0-59
	The value for TIMEGE if TIMEGE is not used to sort the delayed activation table is:
<NoVal>	No Value, TIMEGE is not used to sort the delayed activation table.
Restrictions:	RTRV-DA is denied if a TIMEGE value is entered and a TTYPE value of {BOTH, MANUAL} is entered.
TIMELE=	{YY-MM-DD[-HH-MN]:{ {00-99} - {01-12} - {01-31} [- {00-23} - {00-59}] }, <NoVal> }
Default:	<NoVal>
Addressing:	None
Description:	Time Less Than or Equal To, specifies commands scheduled for delayed activation whose trigger time is less than or equal to the designated date and time are to be retrieved. The values for each element of the TIMELE parameter are:
<YY>	The last two digits of the year. Values are: 70-99 1970 through 1999 00-69 2000 through 2069
<MM>	Month of the year. Values are: 1-12
<DD>	Day of the month. Values are: 1-31
<HH>	Hour of the day. Values are: 0-23
<MN>	Minute of the Hour. Values are: 0-59
	The value for TIMELE if TIMELE is not used to sort the delayed activation table is:
<NoVal>	No Value, TIMELE is not used to sort the delayed activation table.
Restrictions:	RTRV-DA is denied if a TIMELE value is entered and a TTYPE value of {BOTH, MANUAL} is entered.

TTYE= {BOTH, MANUAL, TIME}
Default: {BOTH }
Addressing: None
Description: Trigger Type, specifies the delayed activation trigger type of the command to be retrieved. Values are:
 BOTH Specifies both manual and time (automatic) trigger types.
 MANUAL Specifies manual trigger type.
 TIME Specifies time (automatic) trigger type.
Restrictions: RTRV-DA is denied if TTYPE value of {BOTH, MANUAL} is entered and a TIMEGE value or TIMELE value is entered.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
/* ORDER#   DATE       COMMAND */
/* <ON_AID> <TEVT>     <TL1_CMD> */
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

ON_AID {ON_AID:{0 – 999999} }
 Order Number Identifier, indicates the Order Number of the scheduled delayed activated command.

TEVT { {<YY> – <MM> – <DD>,<HH> – <MN> – <SS>}, Manual Command}
 Trigger Event, identifies the trigger event (trigger time or manual trigger) for the scheduled delayed activation command that is retrieved. Values for time activated commands are in the form of DATE,TIME. The value “Manual Command” is returned for manually activated (via ACT-DA) commands.
 The values for each element of the DATE,TIME formatted value are:

 <YY> The last two digits of the year. Values are:
 70–99 1970 through 1999
 00–69 2000 through 2069
 ALL All Years

 <MM> Month of the year. Values are:
 01–12
 ALL All Months

 <DD> Day of the month. Values are:
 01–31
 ALL All Days

 <HH> Hour of the day. Values are:
 00–23
 ALL All Hours

 <MN> Minute of the Hour. Values are:
 00–59
 ALL All Minutes

 <SS> Seconds of the Minute. Values are:
 00–59
 ALL All Seconds

 The value for a manually activated command is:
 Manual Command Manual command trigger, indicates that the delayed activated command must be manually triggered by executing an ACT-DA command.

TL1_CMD <TL1_COMMAND>
 TL1 Command, identifies the TL1 command code and its parameter data as entered for delayed activation.

UNSUCCESSFUL RESPONSE FORMAT

```

      <SID> <YY-MM-DD> <HH:MM:SS>
M  <CTAG> DENY
      <ERROR CODE>
      [/* <Informational Error Description Text> */]
      [/* <Expanded Error Code Description> */]
      [/* <Optional Suggested Action Text> */]
      [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

```

IPNV      Input, Parameter Not Valid
          /* Invalid order number = [AID] */
          /* Invalid type = <order_type> */
          /* Command with order number = [AID] not found in crontab */
          /* ON=[AID] with ttype=<order_type>, not found in crontab */
          /* ON=[AID] not chronologically within TIMEGE or TIMELE */
          /* TIMEGE (yy-mm-dd) greater than TIMELE(yy-mm-dd) */
          /* TIMEGE & TIMELE can only be entered for TTYPE=TIME */

SDBE      Status, internal Data Base Error
          /* rpt_file=<d>, rpt_name=<s> */
          /* rpt_file=<d>, rpt_name=<s> */
          /* database error reading crontab */

SROF      Status, Requested Operation Failed
          /* command with order number=<order_number> not found in crontab */
          /* database error reading crontab */

```

EXAMPLES

In the following example, RTRV-DA is used to retrieve all scheduled delayed activated commands.

```
RTRV-DA::ALL;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P28006. The response header would contain the provisioned Site ID of the system, and the date and time the commands were executed.

```

      <SID> <YY-MM-DD> <HH:MM:SS>
M  P28006 COMPLD
      /* ORDER #          DATE          COMMAND */
      /* 1001            Manual Command  INIT-SYS:::::1 */
      /* 1010            94-12-31,12-00-00 ACT-DB-BACKUP::OPD-1-3-1 */
      /* RTRV-DA::ALL [P28006] (1) */
;

```


In the following example, RTRV-DA is used to retrieve all scheduled commands that are scheduled for delayed activation on or after 94-11-30 and on or before 95-1-1.

```
RTRV-DA::ALL:::TTYPE=TIME,TIMEGE=94-11-30,TIMELE=95-1-1;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P28009. The response header would contain the provisioned Site ID of the system, and the date and time the commands were executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P28009 COMPLD
/* ORDER#      DATE                      COMMAND */
/* 1010        94-12-31,12-00-00        ACT-DB-BACKUP::OPD-1-3-1 */
/* RTRV-DA::ALL:::TTYPE=TIME,TIMEGE=94-11-30,TIMELE=95-1-1 [P28009]
(1) */
;
```

In the following example, RTRV-DA is used to retrieve all scheduled commands with a MANUAL trigger type.

```
RTRV-DA::ALL:::TTYPE=MANUAL;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of P28011. The response header would contain the provisioned Site ID of the system, and the date and time the commands were executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P28011 COMPLD
/* ORDER #      DATE                      COMMAND */
/* 1001          Manual Command          INIT-SYS:::::1 */
/* RTRV-DA::ALL:::TTYPE=MANUAL [P28011] (2) */
;
```

RELATED COMMANDS

ACT-DA
ACT-DB-BACKUP
CANC-DA
DLT-EQPT
ENT-EQPT
INIT-SYS

COMMAND CODE: **RTRV-DB-LABEL**
COMMAND NAME: **RETRIEVE DATABASE LABEL**

PURPOSE

The RTRV-DB-LABEL command reads the database label from the system disk or optical disk media in the specified disk drive. The command is executed regardless of the provisioning or state of the equipment.

If an optical disk (OPD) or hard disk (DSK) is specified and VERIFY is specified for the VER parameter, the 32-bit CRC (Cyclic Redundancy Code) is calculated for the data stored on the specified media and compared to the CRC stored on the media. If the calculated CRC and stored CRC do not match, an unsuccessful response (DENY) message is returned for the RTRV-DB-LABEL command.

The successful output response for a RTRV-DB-LABEL command displays one output line per successful equipment AID. Each output displays its appropriate AID (OPD, DSK) and its associated database label. The unsuccessful output response for a RTRV-DB-LABEL command displays a separate non-parsable line of data for each failed equipment AID.

The RTRV-DB-LABEL command can be executed while in the Limited Command Execution mode (i.e., after execution of a STOP-OPS command) or the Normal Command Execution mode.

The RTRV-DB-LABEL command is denied if:

- The read operation from the disk drive cannot be performed (e.g., the disk drive is not functional, the media is not inserted in the optical disk, the optical disk door is not closed, the optical disk is currently in use, etc.).
- The disk media does not contain a valid database label.
- The AID of an OPD and VER of VERIFY are specified and the CRC validation fails.
- The AID ALL and VER value of VERIFY are specified.
- A database backup is in progress.
- Either hard disk drive (DSK) is not in an in-service state.
- A DSKPTN value of ACT, ALTDB, or INACT and a VER of verify are specified.
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-DB-LABEL : [TID] : AID : [CTAG] : : [VER] [, DSKPTN] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >
Default:	<SID>
Addressing:	None
Description:	Target Identifier, specifies the network node TID for the command.

AID	<p>EQUIPMENT_AID:</p> <p>{ALL}</p> <p>{DSK-1-3-1, DSK-1-4-2}</p> <p>{OPD-1-3-1, OPD-1-4-2}</p> <p>Default: Entry Required</p> <p>Addressing: None</p> <p>Description: Equipment AID, specifies the equipment entity. Refer to Appendix B, Access Identifiers (AIDs) for a definition of equipment mnemonics. If the AID of ALL is issued, only the currently active generic release and database information labels are displayed for all partitions on all provisioned hard disk drive (DSK) devices and on the currently mounted optical drive (OPD) device. For both DSK and OPD devices, 1-3-1 indicates Copy 0, and 1-4-2 indicates Copy1.</p> <p>Restrictions: RTRV-DB-LABEL is denied if:</p> <ul style="list-style-type: none"> • Any value of DSKPTN is entered and the specified AID is an OPD or ALL. • A DSKPTN value of ISU and AID of an OPD device are specified. • DBBK is specified together with the AID of an OPD device. • No database backup exists on the specified media/device. • No generic file exists on the specified media/device. • The system is in Limited Mode and AID of ALL is selected.
CTAG	<p>< 1-6 VALID CTAG CHARACTERS ></p> <p>Default: < System assigned CTAG value ></p> <p>Addressing: None</p> <p>Description: Correlation Tag, associates input command with its output responses.</p>
VER	<p>{NOVERIFY, VERIFY}</p> <p>Default: {NOVERIFY}</p> <p>Addressing: None</p> <p>Description: Verify, specifies whether a CRC (Cyclic Redundancy Code) or GCRC (Generic Cyclic Redundancy Code) verification of the data is performed. Values are:</p> <p>NOVERIFY No CRC or GCRC Verification, specifies that no CRC or GCRC verification is to be performed.</p> <p>VERIFY CRC or GCRC Verification, specifies that the CRC or GCRC calculated from the stored data is compared to the CRC or GCRC stored on the media. The RTRV-DB-LABEL command is denied if the CRCs do not match.</p> <p>Restrictions: RTRV-DB-LABEL is denied if VER of VERIFY is entered and the specified AID is for a hard disk drive or ALL.</p>

DSKPTN	{ACT, ALL, ALTDB, DBBK, INACT, ISU}
Default:	{ACT}
Addressing:	None
Description:	Disk Partition, identifies the release generic and/or database backup version on the hard disk. Values are:
ACT	Active, identifies the currently active release generic and database on the hard disk.
ALL	All, identifies all the release generics and/or databases on the hard disk.
ALTDDB	Alternate Database, identifies the alternate database on the hard disk.
DBBK	Database Backup, identifies a database backup file on the hard disk.
INACT	Inactive, identifies the currently inactive release generic and database on the hard disk.
ISU	In service upgrade, identifies the uploaded generic file.
Restrictions:	RTRV-DB-LABEL is denied if <ul style="list-style-type: none"> Any value of DSKPTN is entered and the specified AID is an OPD or ALL. A DSKPTN value of ISU and AID of an OPD device are specified. DBBK is specified together with the AID of an OPD device. No database backup exists on the specified media/device. No generic file exists on the specified media/device.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  ["<AID> [ , <DSKPTN> ] : [ <DBSYSTYPE> , <DBSTREAM> , <DBRLSTYPE> <DBRLSNUM> .
  <DBIREV> . <DBMREV> , <DBSID> , <DBDATE> , <DBTIME> , [ <WRCNT> ] , [ <CRC> ] ]
  [ : <GSYSTYP> = <value> , <GSTRM> = <value> , <GRLSID> = <value> , <GDATE> = <value> ,
  <GTIME> = <value> [ , <GCRC> = <value> ] ] " ]
  [ / * <Command Echo> [ <CTAG> ] ( <CID [-VCNUM]> ) * / ]
;

```

OUTPUT PARAMETERS

AID	EQUIPMENT_AID:
	{ALL}
	{DSK-1-3-1,
	DSK-1-4-2}
	{OPD-1-3-1,
	OPD-1-4-2}
	Equipment AID, identifies the equipment entity.

DSKPTN	{ACT, ALL, ALTDB, DBBK, INACT, ISU} Disk Partition, identifies the release generic and/or database backup version on the hard drive. Values are:												
	<table> <tr> <td>ACT</td><td>Active, identifies the currently active release generic and database on the DSK.</td></tr> <tr> <td>ALL</td><td>All, identifies all the release generics and/or databases on the hard disk</td></tr> <tr> <td>ALTDDB</td><td>Alternate Database, identifies the alternate database on the DSK.</td></tr> <tr> <td>DBBK</td><td>Database Backup, identifies a database backup file.</td></tr> <tr> <td>INACT</td><td>Inactive, identifies the currently inactive release generic and database on the hard drive.</td></tr> <tr> <td>ISU</td><td>In service upgrade, identifies the uploaded generic file.</td></tr> </table>	ACT	Active, identifies the currently active release generic and database on the DSK.	ALL	All, identifies all the release generics and/or databases on the hard disk	ALTDDB	Alternate Database, identifies the alternate database on the DSK.	DBBK	Database Backup, identifies a database backup file.	INACT	Inactive, identifies the currently inactive release generic and database on the hard drive.	ISU	In service upgrade, identifies the uploaded generic file.
ACT	Active, identifies the currently active release generic and database on the DSK.												
ALL	All, identifies all the release generics and/or databases on the hard disk												
ALTDDB	Alternate Database, identifies the alternate database on the DSK.												
DBBK	Database Backup, identifies a database backup file.												
INACT	Inactive, identifies the currently inactive release generic and database on the hard drive.												
ISU	In service upgrade, identifies the uploaded generic file.												
DBSYSTYPE	{1631SX} System Type of the system software for the database on the indicated disk.												
DBSTREAM	{LMC-APS} Release Stream of the system software for the database on the indicated disk. Values are:												
	<table> <tr> <td>LMC-APS</td><td>Large Matrix Configuration-Administration Processing System.</td></tr> </table>	LMC-APS	Large Matrix Configuration-Administration Processing System.										
LMC-APS	Large Matrix Configuration-Administration Processing System.												
DBRLSTYPE	{F, P, R} Software Release Type of the system software for the database on the indicated disk. Refer to the Software Support Agreement for applicable terms and conditions. Values are:												
	<table> <tr> <td>F</td><td>First Office Application, the software load is intended for FOA evaluation and testing and is qualified to carry traffic under specified conditions or constraints.</td></tr> <tr> <td>P</td><td>Preliminary, the software load is only intended for evaluation and testing under controlled, non-traffic bearing conditions.</td></tr> <tr> <td>R</td><td>Released, the software load is fully qualified to carry traffic per applicable Alcatel specifications.</td></tr> </table>	F	First Office Application, the software load is intended for FOA evaluation and testing and is qualified to carry traffic under specified conditions or constraints.	P	Preliminary, the software load is only intended for evaluation and testing under controlled, non-traffic bearing conditions.	R	Released, the software load is fully qualified to carry traffic per applicable Alcatel specifications.						
F	First Office Application, the software load is intended for FOA evaluation and testing and is qualified to carry traffic under specified conditions or constraints.												
P	Preliminary, the software load is only intended for evaluation and testing under controlled, non-traffic bearing conditions.												
R	Released, the software load is fully qualified to carry traffic per applicable Alcatel specifications.												
DBRLSNUM	<Database Release Number> Software Release Number of the system software for the database on the indicated disk.												
DBIREV	{00-99} Intermediate Release Revision of the system software for the database on the indicated disk. Refer to the Software Support Agreement.												
DBMREV	{00-99} Maintenance Release Revision of the system software for the database on the indicated disk. Refer to the Software Support Agreement.												
DBSID	<1-20 CHARACTER SID> Database Site Identification: If the AID of a hard disk is specified, DBSID identifies the provisioned SID of the system. If the AID of an OPD is specified, DBSID identifies the SID from which the database on the optical disk media originated.												
DBDATE	{YY-MM-DD:{00-37,70-99}-{1-12}-{1-31}} Database Backup Date. The format of DBDATE is <YY>-<MM>-<DD> where <YY> is the year, <MM> is the month, <DD> is the day. The values for <YY> from 70 through 99 are interpreted as the year 1970 through the year 1999 and the values for <YY> from 00 through 37 are interpreted as the year 2000 through the year 2037. If the AID of a hard disk is specified, DBDATE indicates the date of the last database backup or the backup date of the last restored database (the date stored on the optical disk media used in the last database restoral). If the AID of an OPD is specified, DBDATE indicates the date the data was written to the optical disk media.												

DBTIME	{HH-MN-SS:{00-23}-{00-59}-{00-59}} Database Backup Time. The format of DBTIME is <HH>-<MN>-<SS> where <HH> is the hour, <MN> is the minute, and <SS> is the second. If the AID of a hard disk is specified, DBTIME indicates the time of the last database back-up or the backup time of the last restored database (the time stored on the optical disk media used in the last database restoral). If the AID of an OPD is specified, DBTIME indicates the time the data was written to the optical disk media.
WRCNT	{0-999} Media Write Count, indicates the number of times data has been written to the optical disk media. A value for WRCNT is only returned in a successful response if the AID of an OPD is specified in the command.
CRC	{0X{00000000-FFFFFFFF} } Database Backup Cyclic Redundancy Code, indicates the 8-digit hexadecimal value of the 32-bit Cyclic Redundancy Code stored on the optical disk media. A value for CRC is only returned in a successful response if the AID of an OPD and VER of VERIFY is specified in the command.
GSYSTYP=	{1631SX} Generic System Type, identifies the Generic System Type of the system software for the release generic on the indicated disk and partition.
GSTRM=	{LMC-APS, <NoVal>} Generic Stream, identifies the Generic Release Stream of the system software for the release generic on the indicated disk and partition. Value is: LMC-APS Large Matrix Configuration-Administration Processing System. <NoVal> "No value" is returned if a value for GSTRM is not on the backup media.
GRLSID=	{<GRLSTYPE><GRLSNUM>.<GIREV>.<GMREV>} Generic Release Identification, identifies the Generic Release ID of the system software for the release generic on the indicated disk and partition. The format of GRLSID is <GRLSTYPE><GRLSNUM>.<GIREV>.<GMREV> and the values are: GRLSTYPE Generic Release Type, identifies the software release type {F, P, R}. GRLSNUM Generic Release Number, identifies the software release number {00-99}. GIREV Generic Intermediate Revision, identifies the intermediate release revision {00-99}. GMREV Generic Maintenance Revision, identifies the maintenance release revision {00-99}.
GDATE=	{MM-DD-YY:{1-12}-{1-31}-{00-99}} Generation Date, specifies the Generation Date of the system software for the release generic on the indicated disk and partition. The format of GDATE is <MM>-<DD>-<YY> where <MM> is the month, <DD> is the day, and <YY> is the year.
GTIME=	{HH-MM-SS:{0-23}-{0-59}-{00-59}} Generation Time, specifies the Generation Time of the system software for the release generic on the indicated disk and partition. The format of GTIME is <HH>-<MM>-<SS> where <HH> is the hour, <MM> is the minute, and <SS> is the second.
GCRC=	{0X{00000000-FFFFFFFF} } Generic Cyclic Redundancy Code, indicates the 8-digit hexadecimal value of the 32-bit Cyclic Redundancy Code stored on the optical disk media. A value for CRC is only returned in a successful response if the AID of an OPD and VER of VERIFY is specified in the command.

UNSUCCESSFUL RESPONSE FORMAT

The following unsuccessful response format is generated if an incorrect or invalid command is entered.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Optional Suggested Action Text> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

The following unsuccessful response format is generated if an incorrect AID is entered.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  ["<AID>[,DSKPTN]:<Unreadable Media or Invalid Label Stream>"]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent
SROF	Status, Requested Operation Failed
	/* CRC Mismatch or Read Error */
	/* Creation Date: <DBDATE> <DBTIME> */
	/* Media Write Count: <WRCNT>, CRC: <CRC> */
	/* Media drive already in use */
	/* Can't guarantee exclusive use of media drive */
	/* Media drive open error */
	/* Can't get media label */
	/* Media does not contain a valid DB Backup label */
	/* Unable to open media to verify */
	/* <AID> contains an invalidated label, write count: <WRCNT> */

EXAMPLES

In the following example, the database label is retrieved and the data verified for the media in OPD-0-1.

```
RTRV-DB-LABEL::OPD-0-1:::VERIFY;
```

The output response, shown below, assumes CID 3 was used to enter the command and a system generated CTAG value of P02018. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P02018 COMPLD
  "OPD-0-1:1631SX,LMC-
APS,R06.00.00,ANSDSL672,94-11-18,14-08-33,5,0X8F4B7EA3"
  / * RTRV-DB-LABEL::OPD-0-1:::VERIFY [P02018] (3) */
;
```

RELATED COMMANDS

```
ACT-DB-BACKUP
CANC-DB-BACKUP
RESTORE-DB
```


COMMAND CODE: **RTRV-DCC-STATS**
COMMAND NAME: **RETRIEVE DCC STATISTICS**

PURPOSE

The RTRV-DCC-STATS command retrieves the Layer 2 (data link layer) statistic counters of the SONET Data Communication Channel (DCC) network. This command retrieves both the Line and Section DCC data link statistic counters of the specified OC-3 or OC-12.

If the specified OC-3 or OC-12 is not provisioned, i.e., it is in UAS secondary state, or is a protect OC-3, the command completes successfully without producing any output.

If the specified OC-3 or OC-12 is provisioned (i.e., DCC is provisioned), but the DCC is out-of-service, the command completes successfully without producing any output except for the PST value of OOS.

A RTRV-DCC-STATS command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-DCC-STATS: [TID] :AID: [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	OC-3 AID: {OC3-{1-2240}} (OC3-OC3#) OC12_AID: {OC12-{1-560}} (OC12-OC12#) Default: Entry Required Addressing: None Description: Optical Carrier AID, identifies the OC-3 or OC-12 port.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  "<AID>, LDCC: IFTX=<value>, BYTEIFTX=<value>, SABMTX=<value>, UIFTX=<value>,
  IFRX=<value>, BYTEIFRX=<value>, SABMRX=<value>, UIFRX=<value>,
  INVFRMRX=<value>, VFRMRX=<value>, FRMRTX=<value>:<PST>"
  "<AID>, SDCC: IFTX=<value>, BYTEIFTX=<value>, SABMTX=<value>, UIFTX=<value>,
  IFRX=<value>, BYTEIFRX=<value>, SABMRX=<value>, UIFRX=<value>,
  INVFRMRX=<value>, VFRMRX=<value>, FRMRTX=<value>:<PST>"
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

BYTEIFRX= Number of Information Bytes Received

BYTEIFTX=	Number of Information Bytes Transmitted
FRMRTX=	Number of Frames Retransmitted
IFRX=	Number of Information Frames Received
IFTX=	Number of Information Frames Transmitted
INVFRMRX=	Number of Invalid Frames Received
SABMRX=	Number of Set Asynchronous Balanced Mode Frames Received
SABMTX=	Number of Set Asynchronous Balanced Mode Frames Transmitted
UIFRX=	Number of Unnumbered Information Frames Received
UIFTX=	Number of Unnumbered Information Frames Transmitted
VFRMRX=	Number of Valid Frames Received
PST	{IS, OOS} Primary State. Indicates the current primary state of the DCC. IS In-Service OOS Out-Of-Service

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
SDBE	Status, internal Data Base Error /*TP Database Error: <ERROR-STRING> for <AID-STRING>*/ /*DCC Database Error: <ERROR-STRING> for <AID-STRING>*/ /*TPidToAidStr(<TP-TYPE>, <RECORD-NUMBER>) Error: <ERROR-STRING>*/
SROF	Status, Requested Operation Failed /*Could not communicate with the SPB. */ /*SPB communication time out*/ /*Bad response code returned from SPB (<RESPONSE-CODE>)*/*
SSRE	Status, System Resources Exceeded

EXAMPLES

In the following example, both the Line and Section DCC data link statistic counters of the OC-3 are being retrieved.

```
RTRV-DCC-STATS::OC3-16;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of Pad567. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M Pad567 COMPLD  
"OC3-16,LDCC:IFTX=100,BYTEIFTX=0,SABMTX=1,UIFTX=0,IFRX=100,BYTEIFRX=0,  
SABMRX=1,UIFRX=0,INVFRMRX=0,VFRMRX=1,FRMRTX=0:IS"  
"OC3-16,SDCC:IFTX=100,BYTEIFTX=0,SABMTX=1,UIFTX=0,IFRX=100,BYTEIFRX=0,  
SABMRX=1,UIFRX=0,INVFRMRX=0,VFRMRX=1,FRMRTX=0:IS"  
/* RTRV-DCC-STATS::OC3-16 [Pad567] (2) */  
;
```

RELATED COMMANDS

CLR-DCC-STATS

COMMAND CODE: **RTRV-DFLT-EC1**
COMMAND NAME: **RETRIEVE DEFAULT EC1**

PURPOSE

The RTRV-DFLT-EC1 command retrieves the system defaults for EC1 port parameters specified in the SET-DFLT-EC1 command. The response output shows the EC1 parameter system default values that can be changed with the SET-DFLT-EC1 command and are used for provisioning of EC1 ports when a parameter value is not explicitly specified in the ENT-EC1 command.

A RTRV-DFLT-EC1 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-DFLT-EC1 : [TID] : : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  "AINSTH=<value>:<PST>, [<SST>]"
  [/* <Command Echo> [<CTAG>] (<CID [-VCNUM] >) */]
;
```

OUTPUT PARAMETERS

AINSTH=	{HH-MM:{00-48} – {00-59}} Automatic In-Service Threshold, indicates how long a customer signal must be present on the facility without a LOS, LOF, or AIS-L alarm condition before the system puts the facility into the In-Service state. Value is: HH-MM Time, specifies the duration of an alarm-free signal where value HH indicates the duration in hours and value MM indicates the duration in minutes.
PST	{IS, OOS} Primary State, indicates the system default provisioning primary state value that will be used when provisioning EC1 ports. Values are: IS In-Service OOS Out-Of-Service
SST	{AINS, <NoVal>} Secondary State, indicates the system default provisioning secondary state value that will be used when provisioning EC1 ports. Values are: AINS Automatic In-Service <NoVal> No Value, the SST default database value is unpopulated. (No SST value is reported in a successful response message.) Note: AINS is automatically off (default=OFF) unless specifically enabled during the provisioning of the facility (via ENT-rr:::SST=AINS or ED-rr:::SST=AINS).

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

```
SDBE      Status, internal Data Base Error
          /* DFLT Database Error: <ERROR-STRING> */
```

EXAMPLES

The following example illustrates the command and associated response output.

```
RTRV-DFLT-EC1;
```

The output response, shown below, assumes CID 4 was used to enter the command and a system generated CTAG value of Pac579. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pac579 COMPLD
  "AINSTH=05-30:IS,AINS"
/* RTRV-DFLT-EC1 [Pac579] (4) */
;
```

RELATED COMMANDS

```
DLT-EC1
ED-EC1
ENT-EC1
RMV-EC1
RST-EC1
RTRV-EC1
SET-DFLT-EC1
```

COMMAND CODE: **RTRV-DFLT-OC12**
COMMAND NAME: **RETRIEVE DEFAULT OC-12**

PURPOSE

The RTRV-DFLT-OC12 command retrieves the system defaults for OC-12 port parameters specified in the SET-DFLT-OC12 command. The response output shows the OC-12 parameter system default values that can be changed with the SET-DFLT-OC12 command and are used for provisioning of OC-12 ports when a parameter value is not explicitly specified in the ENT-OC12 command.

A RTRV-DFLT-OC12 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-DFLT-OC12 : [TID] : : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  "AINSTH=<value>,S1TRANS=<value>,SDTHSW=<value>:<PST>,<SST>"
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

AINSTH=	{HH-MM:{00-48} – {00-59}} Automatic In-Service Threshold, indicates how long a customer signal must be present on the facility without a LOS, LOF, or AIS-L alarm condition before the system puts the facility into the In-Service state. Value is: HH-MM Time, specifies the duration of an alarm-free signal where value HH indicates the duration in hours and value MM indicates the duration in minutes.
S1TRANS=	{ DUS, ACT } S1 byte transmitted, determines if the S1 byte transmitted has the "DUS" message or has the actual traceability of the signal. Values are: DUS Don't USE. The S1 byte is set to "DON'T USE for Synchronization" message. ACT ACTual. The S1 byte is set to the actual traceability of the signal.
SDTHSW=	{5, 6, 7, 8, 9} Signal Degrade Threshold Switching level, indicates the system default provisioning for the signal degrade threshold over which the Signal Degrade protection switching is initiated. Values are: 5 BER threshold of 10E-5. 6 BER threshold of 10E-6. 7 BER threshold of 10E-7. 8 BER threshold of 10E-8. 9 BER threshold of 10E-9.

PST	{IS, OOS}
	Primary State, indicates the system default provisioning primary state value that will be used when provisioning OC-12 ports. Values are:
	IS In-Service
	OOS Out-Of-Service
SST	{AINS, <NoVal>}
	Secondary State. Indicates the system default provisioning secondary state value that will be used when provisioning OC-12 ports. Values are:
	AINS Automatic In-Service
	<NoVal> No Value, the SST default database value is unpopulated. (No SST value is reported in a successful response message.)
	Note: AINS is automatically off (default=OFF) unless specifically enabled during the provisioning of the facility (via ENT-rr:::SST=AINS or ED-rr:::SST=AINS).

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/ * <Informational Error Description Text> */]
[/ * <Expanded Error Code Description> */]
[/ * <Command Echo> [<CTAG>] (<CID [-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

```

SDBE        Status, internal Data Base Error
             /* DFLT Database Error: <ERROR-STRING> */
```

EXAMPLES

The following example illustrates the command and associated response output.

```
RTRV-DFLT-OC12;
```

The output response, shown below, assumes CID 4 was used to enter the command and a system generated CTAG value of Pac579. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```

<SID> <YY-MM-DD> <HH:MM:SS>
M Pac579 COMPLD
"AINSTH=05-30,S1TRANS=DUS,SDTHSW=6:IS,AINS"
/* RTRV-DFLT-OC12 [Pac579] (4) */
;
```

RELATED COMMANDS

```

DLT-OC12
ED-OC12
ENT-OC12
RMV-OC12
RST-OC12
RTRV-OC12
SET-DFLT-OC12
```


COMMAND CODE: **RTRV-DFLT-OC3**
COMMAND NAME: **RETRIEVE DEFAULT OC-3**

PURPOSE

The RTRV-DFLT-OC3 command retrieves the system defaults for OC-3 port parameters specified in the SET-DFLT-OC3 command. The response output shows the OC-3 parameter system default values that can be changed with the SET-DFLT-OC3 command and are used for provisioning of OC-3 ports when a parameter value is not explicitly specified in the ENT-OC3 command.

A RTRV-DFLT-OC3 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-DFLT-OC3 : [TID] : : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >
Default:	<SID>
Addressing:	None
Description:	Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS >
Default:	< System assigned CTAG value >
Addressing:	None
Description:	Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  "AINSTH=<value>,S1TRANS=<value>,SDTHSW=<value>:<PST>,<SST>"
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

AINSTH=	{HH-MM:{00-48} - {00-59}}
	Automatic In-Service Threshold, indicates how long a customer signal must be present on the facility without a LOS, LOF, or AIS-L alarm condition before the system puts the facility into the In-Service state. Value is:
	HH-MM Time, specifies the duration of an alarm-free signal where value HH indicates the duration in hours and value MM indicates the duration in minutes.
S1TRANS=	{ DUS, ACT }
	S1 byte transmitted, determines if the S1 byte transmitted has the "DUS" message or has the actual traceability of the signal. Values are:
	DUS Don't USE. The S1 byte is set to "DON'T USE for Synchronization" message.
	ACT ACTual. The S1 byte is set to the actual traceability of the signal.
SDTHSW=	{5, 6, 7, 8, 9}
	Signal Degrade Threshold Switching level, indicates the system default provisioning for the signal degrade threshold over which the Signal Degrade protection switching is initiated. Values are:
	5 BER threshold of 10E-5.
	6 BER threshold of 10E-6.
	7 BER threshold of 10E-7.
	8 BER threshold of 10E-8.
	9 BER threshold of 10E-9.

PST	{IS, OOS} Primary State, indicates the system default provisioning primary state value that will be used when provisioning OC-3 ports. Values are: IS In-Service OOS Out-Of-Service
SST	{AINS, <NoVal> Secondary State. Indicates the system default provisioning secondary state value that will be used when provisioning OC-3 ports. Values are: AINS Automatic In-Service <NoVal> No Value, the SST default database value is unpopulated. (No SST value is reported in a successful response message.) Note: AINS is automatically off (default=OFF) unless specifically enabled during the provisioning of the facility (via ENT-rr:::SST=AINS or ED-rr:::SST=AINS).

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

```

SDBE      Status, internal Data Base Error
          /* DFLT Database Error: <ERROR-STRING> */

```

EXAMPLES

The following example illustrates the command and associated response output.

```

RTRV-DFLT-OC3 ;

The output response, shown below, assumes CID 4 was used to enter the command and a system generated CTAG value of Pac579. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

<SID> <YY-MM-DD> <HH:MM:SS>
M Pac579 COMPLD
  "AINSTH=05-30,S1TRANS=DUS,SDTHSW=6:IS,AINS"
  /* RTRV-DFLT-OC3 [Pac579] (4) */
;

```

RELATED COMMANDS

```

DLT-OC3
ED-OC3
ENT-OC3
RMV-OC3
RST-OC3
RTRV-OC3
RTRV-SYSTMSG-OC3
SET-DFLT-OC3

```

COMMAND CODE: **RTRV-DFLT-SECU**
COMMAND NAME: **RETRIEVE DEFAULT SECURITY**

PURPOSE

The RTRV-DFLT-SECU command retrieves the provisioned values for the system-wide user security parameters PAGE (password aging), POUT (password deactivation on inactivity), and UOUT (user account deletion on inactivity).

The PAGE parameter is used to enforce periodic changing of user passwords. If PAGE is enabled (a provisioned value greater than zero), the system keeps track of the age of each user's password, except for user's with a UCAL of 31 (system administrator level) or higher. The system resets a user's password-age when the user logs-on (via ACT-USER) the first time as a new account user, and each time the user changes the user's password identifier (PID) via the ED-PID command. A user's password-age is compared to the provisioned PAGE value each time a user logs-on the system. If the user's password-age has reached the PAGE value, the system prompts the user (via the REPT^EVT^SESSION message) to change the existing user password. If a new password is not entered before the user exits the current session, the system deactivates the user's password when the user logs-off the system.

The POUT and UOUT parameters are used to deactivate a password (PID) or user account (UID), respectively, based on user inactivity (the user has not logged-on to the system). A provisioned POUT or UOUT value of zero disables the parameter. The system maintains a user inactivity timer for each user account, except for user's with a UCAL of 31 (system administrator level) or higher. The system resets a user's inactivity timer when the user account is created (via ENT-USER), and each time the user logs-on to the system. If POUT or UOUT is enabled and a user does not log-on to the system for a period of time greater than the provisioned POUT or UOUT values, the system deactivates the user's password (PID) or the user's account (UID), respectively.

If a user password (PID) or user account (UID) is deactivated or removed, then only a system administrator account user or the Alcatel account user can enter a new user password or user account database entry.

A RTRV-DFLT-SECU command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-DFLT-SECU: [TID] : : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
"<SID>:PAGE=<value>,POUT=<value>,UOUT=<value>"
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

SID	<1-20 VALID SID CHARACTERS> Site Identifier, indicates the SID of the system as provisioned via the SET-SID command.
-----	---

PAGE=	{ 0–999 }	<p>Password Aging Interval, indicates the number of days that a user's password (PID) is aged before the system prompts the user to change to a new password. Values are:</p> <p>0 Zero, password aging on user accounts is disabled. User passwords are not deactivated by password aging.</p> <p>1–999 Password Aging Interval in days.</p>
POUT=	{ 0–999 }	<p>Password Out (Deactivation on Inactivity) Interval, indicates the number of days that a (non–system administrator or non–Alcatel account) user account can be inactive (the user has not logged–on to the system) before the system deactivates the user password identifier (PID). Values are:</p> <p>0 Zero, Password Out on user accounts is disabled. User passwords are not deactivated due to user log–in inactivity.</p> <p>1–999 Password Out interval in days.</p>
UOUT=	{ 0–999 }	<p>User Identification (UID) Out (Deactivation on Inactivity Interval, indicates the number of days that a (non–system administrator or non–Alcatel account) user account can be inactive (the user has not logged–on to the system) before the system deactivates the user account (UID). Values are:</p> <p>0 Zero, UOUT on user accounts is disabled. User accounts (UIDs) are not deactivated due to user log–in inactivity.</p> <p>1–999 User ID Out interval in days.</p>

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non–Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid
IPNV	Input, Parameter Not Valid
SDBE	Status, internal Data Base Error
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, the current provisioned values for the password aging interval (PAGE), the password out interval (POUT), and the UID aging interval (UOUT) are retrieved.

```
RTRV-DFLT-SECU;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P42011. In addition to the provisioned Site ID of the system, the response header would contain the date and time the command was executed.

```
AM1520 <YY-MM-DD> <HH:MM:SS>  
M P42011 COMPLD  
"AM1520:PAGE=45,POUT=60,UOUT=120"  
/* RTRV-DFLT-SECU [P42011] (1) */  
;
```

RELATED COMMANDS

```
ACT-USER  
ED-PID  
ENT-USER  
SET-ATTR-SECUDFLT
```

RELATED AUTONOMOUS RESPONSES

```
REPT^EVT^SESSION
```


COMMAND CODE: **RTRV-DFLT-STS1**
COMMAND NAME: **RETRIEVE DEFAULT STS-1**

PURPOSE

The RTRV-DFLT-STS1 command retrieves the system defaults for STS-1 port parameters specified in the SET-DFLT-STS1 command. The response output shows the STS-1 parameter system default values that can be changed with the SET-DFLT-STS1 command and are used for provisioning of STS-1 ports when a parameter value is not explicitly specified in the ENT-STS1 command.

A RTRV-DFLT-STS1 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-DFLT-STS1: [TID] :: [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  "EXPTRC=\"<value>\",PDIINS=<value>,STSMAP=<value>,STSPTYEL=<value>,
TRC=\"<value>\":<PST>"
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

EXPTRC=	<1-62 ASCII printable characters followed by CR and LF > Expected Path Trace message, consists of 1-62 ASCII printable characters followed by a CR and LF.
PDIINS=	{N, Y} Payload Defect Indication INsertion (Transmit/outgoing direction only), indicates whether or not PDI values are inserted into the outgoing signal label (C2) bytes. If Fault Escalation is disabled on the STS1 (default of FLTPRO=N via the ED-FLTPRO-STS1 command), PDI insertion is per GR-253. If Fault Escalation is enabled (FLTPRO=Y), PDI insertion is based on Alcatel's Fault Escalation type payload defects. Values are: N No, PDI values are not inserted into the outgoing signal label when payload defects exist. Y Yes, insertion of appropriate PDI into the outgoing signal label occurs when payload defects exist.

STSMAP=	{ALL, ASYNC, VTFLOAT}						
	STS Map, indicates the system default provisioning expected STS–1 payload type. Value is:						
	<table> <tr> <td>ALL</td><td>Generic STS–1 format. Contains payload of any mapping format (C2 ≠ 000 bin). Since this value matches all signal label values, mismatch alarms can never be generated. The transmitted signal label however depends on how the cross connect has been made.</td></tr> <tr> <td>ASYNC</td><td>Asynchronous mapping for DS3 (i.e. C2=04 hex)</td></tr> <tr> <td>VTFLOAT</td><td>Floating mode VTs (i.e. C2=02 hex).</td></tr> </table>	ALL	Generic STS–1 format. Contains payload of any mapping format (C2 ≠ 000 bin). Since this value matches all signal label values, mismatch alarms can never be generated. The transmitted signal label however depends on how the cross connect has been made.	ASYNC	Asynchronous mapping for DS3 (i.e. C2=04 hex)	VTFLOAT	Floating mode VTs (i.e. C2=02 hex).
ALL	Generic STS–1 format. Contains payload of any mapping format (C2 ≠ 000 bin). Since this value matches all signal label values, mismatch alarms can never be generated. The transmitted signal label however depends on how the cross connect has been made.						
ASYNC	Asynchronous mapping for DS3 (i.e. C2=04 hex)						
VTFLOAT	Floating mode VTs (i.e. C2=02 hex).						
STSPTYEL=	{N}						
	STS Path Yellow, indicates the system default provisioning for the STS–1 Path Yellow behavior. Values are:						
	<table> <tr> <td>N</td><td>No. RDI is transmitted/received on appropriate defect states.</td></tr> </table>	N	No. RDI is transmitted/received on appropriate defect states.				
N	No. RDI is transmitted/received on appropriate defect states.						
TRC=	<1–62 ASCII printable characters followed by CR and LF >						
	STS Path Trace, indicates the system default provisioning transmitted STS–1 Path Trace, consisting of 1–62 ASCII printable characters followed by a CR and LF.						
PST	{IS, OOS}						
	Primary State, indicates the system default provisioning primary state value that is used when provisioning STS–1 ports. Values are:						
	<table> <tr> <td>IS</td><td>In-Service</td></tr> <tr> <td>OOS</td><td>Out-Of-Service</td></tr> </table>	IS	In-Service	OOS	Out-Of-Service		
IS	In-Service						
OOS	Out-Of-Service						

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

```

SDBE      Status, internal Data Base Error
          /* DFLT Database Error: <ERROR-STRING> */

```

EXAMPLES

The following example illustrates the command and associated response output.

```

RTRV-DFLT-STSl;

The output response, shown below, assumes CID 4 was used to enter the command and a system gener-
ated CTAG value of Pac579. The response header would contain the provisioned Site ID of the system,
and the date and time the command was executed.

<SID> <YY-MM-DD> <HH:MM:SS>
M Pac579 COMPLD
  "EXPTRC=\ \" , PDIINS=Y, STSMAP=ASYNC, STSPTYEL=N, TRC=\ \" : IS"
  /* RTRV-DFLT-STSl [Pac579] (4) */
;

```

RELATED COMMANDS

```
DLT-STSl
```


ED-STS1
ENT-STS1
RMV-STS1
RST-STS1
RTRV-STS1
SET-DFLT-STS1

COMMAND CODE: **RTRV-DFLT-STS3C**
COMMAND NAME: **RETRIEVE DEFAULT STS-3C**

PURPOSE

The RTRV-DFLT-STS3C command retrieves the system defaults for STS-3C port parameters specified in the SET-DFLT-STS3C command. The response output shows the STS-3C parameter system default values that can be changed with the SET-DFLT-STS3C command and are used for provisioning of STS-3C ports when a parameter value is not explicitly specified in the ENT-STS3C command.

A RTRV-DFLT-STS3C command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-DFLT-STS3C: [TID] : : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
"EXPTRC=\"<value>\", STSMAP=<value>, TRC=\"<value>\" :<PST>"
[/* <Command Echo> [<CTAG>] (<CID [-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

EXPTRC=	<1-62 ASCII printable characters followed by CR and LF > Expected Path Trace message, consists of 1-62 ASCII printable characters followed by a CR and LF.										
STSMAP=	{ALL, ATM, DQDB, DS4NA, FDDI} STS Map, indicates the system default provisioning expected STS-3C payload type. Values are: <table><tbody><tr><td>ALL</td><td>Generic STS-3C format. Contains payload of any mapping format (C2≠000 bin). Since this value will match ALL signal label values, mismatch alarms are never generated.</td></tr><tr><td>ATM</td><td>STS-3C contains ATM payload (provisioned (C2=13)).</td></tr><tr><td>DQDB</td><td>STS-3C contains DQDB payload (provisioned (C2=14)).</td></tr><tr><td>DS4NA</td><td>STS-3C contains DS4NA payload (provisioned (C2=12)).</td></tr><tr><td>FDDI</td><td>STS-3C contains FDDI payload (provisioned (C2=15)).</td></tr></tbody></table>	ALL	Generic STS-3C format. Contains payload of any mapping format (C2≠000 bin). Since this value will match ALL signal label values, mismatch alarms are never generated.	ATM	STS-3C contains ATM payload (provisioned (C2=13)).	DQDB	STS-3C contains DQDB payload (provisioned (C2=14)).	DS4NA	STS-3C contains DS4NA payload (provisioned (C2=12)).	FDDI	STS-3C contains FDDI payload (provisioned (C2=15)).
ALL	Generic STS-3C format. Contains payload of any mapping format (C2≠000 bin). Since this value will match ALL signal label values, mismatch alarms are never generated.										
ATM	STS-3C contains ATM payload (provisioned (C2=13)).										
DQDB	STS-3C contains DQDB payload (provisioned (C2=14)).										
DS4NA	STS-3C contains DS4NA payload (provisioned (C2=12)).										
FDDI	STS-3C contains FDDI payload (provisioned (C2=15)).										
TRC=	<1-62 ASCII printable characters followed by CR and LF > STS Path Trace, indicates the system default provisioning transmitted STS-3C Path Trace, consisting of 1-62 ASCII printable characters followed by a CR and LF.										

PST	{IS, OOS}
	Primary State, indicates the system default provisioning primary state value that is used when provisioning STS-3C ports. Values are:
	IS In-Service
	OOS Out-Of-Service

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

SDBE	Status, internal Data Base Error
	/* DFLT Database Error: <ERROR-STRING> */

EXAMPLES

The following example illustrates the command and associated response output.

```
RTRV-DFLT-ST3C;
```

The output response, shown below, assumes CID 4 was used to enter the command and a system generated CTAG value of Pac579. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pac579 COMPLD
"EXPTRC=\\" , STSMAP=FDDI, TRC=\\" : IS"
/* RTRV-DFLT-ST3C [Pac579] (4) */
;
```

RELATED COMMANDS

```
DLT-ST3C
ED-ST3C
ENT-ST3C
RMV-ST3C
RST-ST3C
RTRV-ST3C
SET-DFLT-ST3C
```

COMMAND CODE: **RTRV-DFLT-T1**
COMMAND NAME: **RETRIEVE DEFAULT T1**

PURPOSE

The RTRV-DFLT-T1 command retrieves the system defaults for DS1 port parameters specified in the SET-DFLT-T1 command. The response output shows the DS1 parameter system default values that can be changed with the SET-DFLT-T1 command and are used for provisioning of DS1 ports when a parameter value is not explicitly specified in the ENT-T1 command.

A RTRV-DFLT-T1 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-DFLT-T1 : [TID] : : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >
Default:	<SID>
Addressing:	None
Description:	Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS >
Default:	< System assigned CTAG value >
Addressing:	None
Description:	Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  "AINSTH=,value>,AISC=<value>,AISF=<value>,FEMETHOD=<value>,
  FENDNTE=<value>,
  FMT=<value>,IDLE=<value>,LINECDE=<value>:<PST>,[<SST>]"
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

AINSTH=	{HH-MM:{00-48} – {00-59}}
	Automatic In-Service Threshold, indicates how long a customer signal must be present on the facility without a LOS, LOF, or AIS-L alarm condition before the system puts the facility into the In-Service state. Value is:
HH-MM	Time, specifies the duration of an alarm-free signal where value HH indicates the duration in hours and value MM indicates the duration in minutes.
AISC=	{LOF, LOFLOS, LOS }
	Alarm Indication Signal insertion Criteria, indicates the system default provisioning value for the condition necessary for insertion of AIS into a failed DS1 signal path. Values are:
LOF	Loss Of Frame. Automatic AIS insertion on detection of LOF.
LOFLOS	Loss Of Frame/Loss Of Signal. Automatic AIS insertion on detection of LOF or LOS.
LOS	Loss Of Signal. Automatic AIS insertion on detection of LOS. LOS only applies to a terminated electrical DS1.

AISF=	{N, Y} Alarm Indication Signal Failure substitution, indicates the system default provisioning value for whether a failed upstream signal (as defined by the AISC parameter) should have AIS inserted in the downstream path. Values are: N No. AIS is not inserted in the downstream path of a failed signal, the failed signal passes through the system. Y Yes. AIS is inserted in the downstream path of a failed signal.
FEMETHOD=	{ANSI, ATTPOLL, NONE} Far-End PM collection Method, indicates the system default provisioning value for the PM collection method for far-end PM data. Values are: ANSI Basic ANSI T1.403 PM data collection. ATTPOLL Poll for PM data using AT&T 54016 protocol to poll the data and convert into ANSI format for reporting. (ALCATEL method). NONE None, far-end PM is not collected on the DS1.
FENDNTE=	{ANSI, ANSIATT, ATT, NONE} Far-End Network Terminal performance monitoring terminal type, indicates the system default provisioning value for whether the far end network terminal supports standard ANSI performance monitoring (PM) collection or AT&T TR-54016 polled PM reporting and reporting for ESF DS1 signal formats. Values are: ANSI ANSI, the far-end NTE supports the ANSI T1.403 PM standard. ANSIATT ANSI and AT&T, the far-end NTE supports the ANSI T1.403 PM standard and the AT&T TR-54016 polled PM reporting standard. ATT AT&T TR-54016, the far-end NTE supports the AT&T TR-54016 polled PM reporting standard. (Refer to RTRV-FEDATA-T1) NONE None, the far-end NTE does not support either the ANSI T1.403 PM standard or the AT&T TR-54016 PM standard.
FMT=	{ESF, SF, UNFR} DS1 Format, indicates the system default provisioning value for the DS1 signal format for this port. The DS1 FMT parameter determines the performance monitoring parameter set that is used or the format of the Idle Signal Source port. Values are: ESF Extended SuperFrame. SF SuperFrame. UNFR Unframed.
IDLE=	{AIS, QRSF, QRSU} Idle signal transmit type, indicates the system default provisioning value for the type of Idle signal to be transmitted by this port when it is disconnected, or determines the type of Idle signal of the Idle Signal Source port. Values are: AIS AIS (Alarm Indication Signal). QRSF Framed QRS (Quasi-Random Signal). QRSU Unframed QRS (Quasi-Random Signal).
LINECDE=	{AMI, B8ZS} DS1 Line Code, indicates the system default provisioning value for the type of DS1 line code for a terminated electrical DS1. Values are: AMI Alternate Mark Inversion. B8ZS Bipolar with Eight Zero Substitution.
PST	{IS, OOS} Primary State, indicates the system default provisioning primary state value that will be used when provisioning DS1 ports. Values are: IS In-Service OOS Out-Of-Service

SST {AINS, <NoVal>}
Secondary State, indicates the system default provisioning secondary state value that will be used when provisioning DS1 ports. Values are:
AINS Automatic In-Service
<NoVal> No Value, the SST default database value is unpopulated. (No SST value is reported in a successful response message.)
Note: AINS is automatically off (default=OFF) unless specifically enabled during the provisioning of the facility (via ENT-rr:::SST=AINS or ED-rr:::SST=AINS).

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

SDBE Status, internal Data Base Error
/* DFLT Database Error: <ERROR-STRING> */
/* pfo_get_state () Error: <ERROR-STRING> */

EXAMPLES

The following example illustrates the command and associated response output.

```
RTRV-DFLT-T1;
```

The output response, shown below, assumes CID 4 was used to enter the command and a system generated CTAG value of Pac579. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pac579 COMPLD
"AINSTH=05-30,AISC=LOS,AISF=Y,FEMETHOD=NONE,FENDNTE=NONE,FMT=UNFR,
IDLE=AIS,LINECDE=AMI:IS"
/* RTRV-DFLT-T1 [Pac579] (4) */
;
```

RELATED COMMANDS

DLT-T1
ED-T1
ENT-T1
RMV-T1
RST-T1
RTRV-T1
SET-DFLT-T1

COMMAND CODE: **RTRV-DFLT-T3**
COMMAND NAME: **RETRIEVE DEFAULT T3**

PURPOSE

The RTRV-DFLT-T3 command retrieves the system defaults for DS3 port parameters specified in the SET-DFLT-T3 command. The response output shows the DS3 parameter system default values that can be changed with the SET-DFLT-T3 command and are used for provisioning of DS3 ports when a parameter value is not explicitly specified in the ENT-T3 command.

A RTRV-DFLT-T3 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-DFLT-T3 : [TID] : : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  "AINSTH=<value>,AISC=<value>,AISPASS=<value>,AIST=<val-
ue>,DS3PTYEL=<value>,
FEAC=<value>,FMT=<value>,LINECDE=<value>,PMMETHOD=<value>,XBITRCV=<value>,
XPOL=<value>:<PST>,[<SST>]"
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

AINSTH=	{HH-MM:{00-48} – {00-59}}	Automatic In-Service Threshold, indicates how long a customer signal must be present on the facility without a 7LOF, ISD, AICMISM, LOS, LOF, or AIS-L alarm condition before the system puts the facility into the In-Service state. Value is: HH-MM Time, specifies the duration of an alarm-free signal where value HH indicates the duration in hours and value MM indicates the duration in minutes.
AISC=	{LOFLOS, LOS}	Alarm Indication Signal insertion Criteria, indicates the condition at the input of a DS3 intact cross connect necessary for AIS insertion into the output of the DS3 intact cross connect. Values are: LOS Loss of Signal. Automatic AIS insertion upon detection of LOS. LOFLOS Loss of Frame-Loss of Signal. Automatic AIS insertion upon detection of LOFLOS.

AISPASS=	{Y, N }	Alarm Indication Signal Passed, indicates whether the AIS generated by the input port which is connected to the output port is passed through the output port, or whether AIS is generated by the output port itself. Values are: Y Yes, the AIS generated by the input port is passed through the output port. N No, AIS is regenerated by the output port instead of being passed through the output port.
AIST=	{NAS, ONES, OAIS }	Alarm Indication Signal Type, indicates the system default provisioning value for the input AIS signal and generated output AIS signal for the DS3 port should a failure condition exist. Values are: NAS North American Standard. ONES Unframed All Ones (Nonstandard). OAIS Old AIS, the same sequence of information bits as North American Standard but with no regard to how the C-bits are set.
DS3PTYEL=	{N, Y}	DS3 Yellow behavior, indicates whether DS3 path yellow or RDI (remote defect indication) will be sent and detected. Values are: N RDI will be sent/detected by the DS3. Y DS3 path yellow will be sent/detected by the DS3.
FEAC=	{N, Y}	Far End Alarm and Control, indicates the system default provisioning value for the far end alarm and control enable setting for C-bit parity format. Values are: N FEAC inhibited. Y FEAC enabled.
FMT=	{ASYNC, CBIT, FRCC, UNCBIT, UNFR}	DS3 Format, indicates the system default provisioning value for the DS3 signal format for this port. Values are: ASYNC Asynchronous (M13 format). CBIT C-Bit parity format . FRCC Framed Clear Channel. UNCBIT Unchannelized C-Bit parity format UNFR Unframed format
LINECDE=	{B3ZS}	DS3 Line Code, indicates the DS3 line coding type. Only B3ZS code is supported. B3ZS Bipolar with Three Zero Substitution.

PMMETHOD=	<p>{CP, FM, FMA, P, NONE}</p> <p>Performance Monitoring Method, Indicates the system default provisioning value for the type of performance monitoring that is performed on the DS3. Values are:</p> <p>If FMT=ASync (M13 format):</p> <table><tr><td>FM</td><td>F&M bit monitoring.</td></tr><tr><td>FMA</td><td>F&M bit Adjusted monitoring.</td></tr><tr><td>P</td><td>P-bit monitoring.</td></tr></table> <p>If FMT=CBIT (C–Bit parity format):</p> <table><tr><td>CP</td><td>Only CP-bit monitoring.</td></tr><tr><td>FM</td><td>F&M bit and CP-bit monitoring.</td></tr><tr><td>FMA</td><td>F&M bit Adjusted and CP-bit monitoring.</td></tr><tr><td>P</td><td>P-bit and CP-bit monitoring.</td></tr></table> <p>If FMT=FRCC (Framed Clear Channel):</p> <table><tr><td>FM</td><td>F&M bit and CP-bit monitoring</td></tr><tr><td>FMA</td><td>F&M bit Adjusted and CP-bit monitoring</td></tr><tr><td>P</td><td>P-bit and CP-bit monitoring</td></tr></table> <p>If FMT=UNCBIT (Unchannelized C–Bit parity format):</p> <table><tr><td>CP</td><td>Only CP–bit monitoring</td></tr><tr><td>FM</td><td>F&M bit and CP–bit monitoring</td></tr><tr><td>FMA</td><td>F&M bit adjusted and CP–bit monitoring</td></tr><tr><td>P</td><td>P–bit and CP–bit monitoring</td></tr></table> <p>If FMT=UNFR (Unframed):</p> <table><tr><td>NONE</td><td>Null value specified for PMMETHOD</td></tr></table>	FM	F&M bit monitoring.	FMA	F&M bit Adjusted monitoring.	P	P-bit monitoring.	CP	Only CP-bit monitoring.	FM	F&M bit and CP-bit monitoring.	FMA	F&M bit Adjusted and CP-bit monitoring.	P	P-bit and CP-bit monitoring.	FM	F&M bit and CP-bit monitoring	FMA	F&M bit Adjusted and CP-bit monitoring	P	P-bit and CP-bit monitoring	CP	Only CP–bit monitoring	FM	F&M bit and CP–bit monitoring	FMA	F&M bit adjusted and CP–bit monitoring	P	P–bit and CP–bit monitoring	NONE	Null value specified for PMMETHOD
FM	F&M bit monitoring.																														
FMA	F&M bit Adjusted monitoring.																														
P	P-bit monitoring.																														
CP	Only CP-bit monitoring.																														
FM	F&M bit and CP-bit monitoring.																														
FMA	F&M bit Adjusted and CP-bit monitoring.																														
P	P-bit and CP-bit monitoring.																														
FM	F&M bit and CP-bit monitoring																														
FMA	F&M bit Adjusted and CP-bit monitoring																														
P	P-bit and CP-bit monitoring																														
CP	Only CP–bit monitoring																														
FM	F&M bit and CP–bit monitoring																														
FMA	F&M bit adjusted and CP–bit monitoring																														
P	P–bit and CP–bit monitoring																														
NONE	Null value specified for PMMETHOD																														
XBITRCV=	<p>{ALM0, ALM1, IGNORE}</p> <p>Receive X-Bit Translation, indicates the system default provisioning value for how incoming DS3 and DS2 X-bits are translated. Values are:</p> <table><tr><td>ALM0</td><td>Incoming X-bit of 0 indicates a remote alarm.</td></tr><tr><td>ALM1</td><td>Incoming X-bit of 1 indicates a remote alarm.</td></tr><tr><td>IGNORE</td><td>Ignore incoming X-bits.</td></tr></table>	ALM0	Incoming X-bit of 0 indicates a remote alarm.	ALM1	Incoming X-bit of 1 indicates a remote alarm.	IGNORE	Ignore incoming X-bits.																								
ALM0	Incoming X-bit of 0 indicates a remote alarm.																														
ALM1	Incoming X-bit of 1 indicates a remote alarm.																														
IGNORE	Ignore incoming X-bits.																														
XPOL=	<p>{0, 1, ALM0, ALM1}</p> <p>Transmit X–bit Polarity, indicates the system default provisioning value for how outgoing DS3 and DS2 X-bits are set. Values are:</p> <table><tr><td>0</td><td>Force outgoing X-bits to 0.</td></tr><tr><td>1</td><td>Force outgoing X-bits to 1.</td></tr><tr><td>ALM0</td><td>Set X-bits to 0 for indicating alarm.</td></tr><tr><td>ALM1</td><td>Set X-bits to 1 for indicating alarm.</td></tr></table>	0	Force outgoing X-bits to 0.	1	Force outgoing X-bits to 1.	ALM0	Set X-bits to 0 for indicating alarm.	ALM1	Set X-bits to 1 for indicating alarm.																						
0	Force outgoing X-bits to 0.																														
1	Force outgoing X-bits to 1.																														
ALM0	Set X-bits to 0 for indicating alarm.																														
ALM1	Set X-bits to 1 for indicating alarm.																														
PST	<p>{IS, OOS}</p> <p>Primary State, indicates the system default provisioning primary state value that will be used when provisioning DS3 ports. Values are:</p> <table><tr><td>IS</td><td>In-Service</td></tr><tr><td>OOS</td><td>Out-Of-Service</td></tr></table>	IS	In-Service	OOS	Out-Of-Service																										
IS	In-Service																														
OOS	Out-Of-Service																														
SST	<p>{AINS, <NoVal>}</p> <p>Secondary State, indicates the system default provisioning secondary state value that will be used when provisioning DS3 ports. Values are:</p> <table><tr><td>AINS</td><td>Automatic In–Service.</td></tr><tr><td><NoVal></td><td>No Value, the SST default database value is unpopulated. (No SST value is reported in a successful response message.)</td></tr></table> <p>Note: AINS is automatically off (default=OFF) unless specifically enabled during the provisioning of the facility (via ENT–rr:::SST=AINS or ED–rr:::SST=AINS).</p>	AINS	Automatic In–Service.	<NoVal>	No Value, the SST default database value is unpopulated. (No SST value is reported in a successful response message.)																										
AINS	Automatic In–Service.																														
<NoVal>	No Value, the SST default database value is unpopulated. (No SST value is reported in a successful response message.)																														

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

```
SDBE      Status, internal Data Base Error
          /* DFLT Database Error: <ERROR-STRING> */
```

EXAMPLES

The following example illustrates the command and associated response output.

```
RTRV-DFLT-T3;

The output response, shown below, assumes CID 4 was used to enter the command and a system generated CTAG value of Pac579. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

<SID> <YY-MM-DD> <HH:MM:SS>
M Pac579 COMPLD
  "AINSTH=05-30,AISC=LOS,AISPASS=Y,AIST=NAS,DS3PTYEL=Y,FEAC=N,FMT=ASYNC,
  LINECDE=B3ZS,PMMETHOD=P,XBITRCV=IGNORE,XPOL=1:IS"
  /* RTRV-DFLT-T3 [Pac579] (4) */
;
```

RELATED COMMANDS

```
DLT-T3
ED-T3
ENT-T3
RMV-T3
RST-T3
RTRV-T3
SET-DFLT-T3
```

COMMAND CODE: **RTRV-DFLT-VT1**
COMMAND NAME: **RETRIEVE DEFAULT VT1**

PURPOSE

The RTRV-DFLT-VT1 command retrieves the system defaults for VT1.5 port parameters specified in the SET-DFLT-VT1 command. The response output shows the VT1.5 parameter system default values that can be changed with the SET-DFLT-VT1 command and are used for provisioning of VT1.5 ports when a parameter value is not explicitly specified in the ENT-VT1 command.

A RTRV-DFLT-VT1 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-DFLT-VT1 : [TID] : : [CTAG] ;

INPUT PARAMETERS

TID	< 1–20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1–6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
"VTMAP=<value>,VTPTYEL=<value>:<PST>"
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

VTMAP	{ALL, ASYNC, VTBYTE} VT Map, indicates the system default provisioning expected for the VT1.5 payload type. Values are: <table border="0" style="margin-left: 40px;"> <tr> <td>ALL</td> <td>Generic VT1.5 format. Contains payload of any mapping format (L1–L3 ≠ 000 bin). Since this value will match all signal label values, mismatch alarms can never be generated.</td> </tr> <tr> <td>ASYNC</td> <td>VT Asynchronous mapping – VTFLOAT mode. (L1–L3 = 010 bin).</td> </tr> <tr> <td>VTBYTE</td> <td>VT Byte synchronous mapping, applicable for DS0s being mapped into VT SPE – VTFLOAT mode (L1–L3 = 100 hex).</td> </tr> </table>	ALL	Generic VT1.5 format. Contains payload of any mapping format (L1–L3 ≠ 000 bin). Since this value will match all signal label values, mismatch alarms can never be generated.	ASYNC	VT Asynchronous mapping – VTFLOAT mode. (L1–L3 = 010 bin).	VTBYTE	VT Byte synchronous mapping, applicable for DS0s being mapped into VT SPE – VTFLOAT mode (L1–L3 = 100 hex).
ALL	Generic VT1.5 format. Contains payload of any mapping format (L1–L3 ≠ 000 bin). Since this value will match all signal label values, mismatch alarms can never be generated.						
ASYNC	VT Asynchronous mapping – VTFLOAT mode. (L1–L3 = 010 bin).						
VTBYTE	VT Byte synchronous mapping, applicable for DS0s being mapped into VT SPE – VTFLOAT mode (L1–L3 = 100 hex).						
VTPTYEL	{N, Y} VT Path Yellow. Indicates the system default provisioning VT1.5 Path Yellow behavior. Values are: <table border="0" style="margin-left: 40px;"> <tr> <td>N</td> <td>No. RDI will be transmitted/received on appropriate defect states.</td> </tr> <tr> <td>Y</td> <td>Yes. VT1.5 path yellow will be transmitted/received on appropriate fault conditions.</td> </tr> </table>	N	No. RDI will be transmitted/received on appropriate defect states.	Y	Yes. VT1.5 path yellow will be transmitted/received on appropriate fault conditions.		
N	No. RDI will be transmitted/received on appropriate defect states.						
Y	Yes. VT1.5 path yellow will be transmitted/received on appropriate fault conditions.						
PST	{IS, OOS} Primary State, indicates the system default provisioning primary state value that will be used when provisioning VT1.5 ports. Values are: <table border="0" style="margin-left: 40px;"> <tr> <td>IS</td> <td>In-Service</td> </tr> <tr> <td>OOS</td> <td>Out-Of-Service</td> </tr> </table>	IS	In-Service	OOS	Out-Of-Service		
IS	In-Service						
OOS	Out-Of-Service						

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

```
SDBE      Status, internal Data Base Error
          /* DFLT Database Error: <ERROR-STRING> */
```

EXAMPLES

The following example illustrates the command and associated response output.

```
RTRV-DFLT-VT1;
```

The output response, shown below, assumes CID 4 was used to enter the command and a system generated CTAG value of Pac579. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pac579 COMPLD
"VTMAP=ASync,VTPTYEL=N:IS"
/* RTRV-DFLT-VT1 [Pac579] (4) */
;
```

RELATED COMMANDS

```
DLT-VT1
ED-VT1
ENT-VT1
RMV-VT1
RST-VT1
RTRV-VT1
SET-DFLT-VT1
```

COMMAND CODE: **RTRV-DFLTATTR-EC1**
COMMAND NAME: **RETRIEVE DEFAULT ATTRIBUTE EC1**

PURPOSE

The RTRV-DFLTATTR-EC1 command retrieves the system provisioning default EC1 condition type attributes. The CONDTYPE, NTFCNCDE, LOCN, and SRVEFF input parameters provide a search-key filter for retrieving the system default condition type attributes satisfying the specified input parameters. (The system default condition type attributes are set via the SET-DFLTATTR-EC1 command.)

The successful response for a RTRV-DFLTATTR-EC1 command contains one line of parsable output data, in alphabetical order, for each condition type being reported. If both service effect attributes are requested, a separate line of output data is provided for service affecting attributes (if any), followed by a line for non-service affecting attributes (if any), per condition type being reported.

If there are no condition type attributes matching the specified (valid) combination of condition type, notification code, location, and service effect, then the command is completed with no line of parsable output data provided in the response message.

A RTRV-DFLTATTR-EC1 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-DFLTATTR-EC1 : [TID] : [CTAG] : [NTFCNCDE] , [CONDTYPE] , [LOCN] , [DIRN] ,
[TMPEFF] , [SRVEFF] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.										
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.										
NTFCNCDE	{CR, MJ, MN, NA, NR} Default: < All applicable notification codes listed above > Addressing: None Description: Notification Code, specifies the system default provisioning notification code of the condition type to be retrieved. Values are: <table><tr><td>CR</td><td>Critical Alarm</td></tr><tr><td>MJ</td><td>Major Alarm</td></tr><tr><td>MN</td><td>Minor Alarm</td></tr><tr><td>NA</td><td>Not Alarmed</td></tr><tr><td>NR</td><td>Not Reported</td></tr></table>	CR	Critical Alarm	MJ	Major Alarm	MN	Minor Alarm	NA	Not Alarmed	NR	Not Reported
CR	Critical Alarm										
MJ	Major Alarm										
MN	Minor Alarm										
NA	Not Alarmed										
NR	Not Reported										

CONDTYPE	NEAR-END_CONDDTYPE:{ACTLPBK, AIS, INHPMREPT, LOF, LOS, MAN}, FAR-END_CONDDTYPE:{RFI} Default: < All applicable condition types listed above > Addressing: None Description: Condition Type, specifies the condition type to be retrieved. (Refer to Appendix C for a list of all condition types.) Values are: <table> <tr> <td>ACTLPBK</td><td>Active Loopback, the EC1 port is in loop back. (Near-End only.)</td></tr> <tr> <td>AIS</td><td>Alarm Indication Signal, AIS detected. (Near-End only.)</td></tr> <tr> <td>INHPMREPT</td><td>Inhibit Performance Monitoring Report, PM report capability Inhibited. (Near-End only.)</td></tr> <tr> <td>LOF</td><td>Loss Of Frame detected. (Near-End only.)</td></tr> <tr> <td>LOS</td><td>Loss Of Signal detected. (Near-End only.)</td></tr> <tr> <td>MAN</td><td>Manual removal (logical removal was performed on the facility). (Near-End only.)</td></tr> <tr> <td>RFI</td><td>Remote Failure Indication detected. (Far-End only.)</td></tr> </table> Restrictions: RTRV-DFLTATTR-EC1 is denied if the specified CONDDTYPE value is not supported for the specified LOCN value (e.g., CONDDTYPE of AIS and LOCN of FEND is entered).	ACTLPBK	Active Loopback, the EC1 port is in loop back. (Near-End only.)	AIS	Alarm Indication Signal, AIS detected. (Near-End only.)	INHPMREPT	Inhibit Performance Monitoring Report, PM report capability Inhibited. (Near-End only.)	LOF	Loss Of Frame detected. (Near-End only.)	LOS	Loss Of Signal detected. (Near-End only.)	MAN	Manual removal (logical removal was performed on the facility). (Near-End only.)	RFI	Remote Failure Indication detected. (Far-End only.)
ACTLPBK	Active Loopback, the EC1 port is in loop back. (Near-End only.)														
AIS	Alarm Indication Signal, AIS detected. (Near-End only.)														
INHPMREPT	Inhibit Performance Monitoring Report, PM report capability Inhibited. (Near-End only.)														
LOF	Loss Of Frame detected. (Near-End only.)														
LOS	Loss Of Signal detected. (Near-End only.)														
MAN	Manual removal (logical removal was performed on the facility). (Near-End only.)														
RFI	Remote Failure Indication detected. (Far-End only.)														
LOCN	{FEND, NEND} Default: < All location values applicable to the specified condition type > Addressing: None Description: Location, specifies the monitoring location of the condition type to be retrieved. Values are: <table> <tr> <td>FEND</td><td>Far-End, events occurring at a distant network element.</td></tr> <tr> <td>NEND</td><td>Near-End, events occurring at the system.</td></tr> </table> Restrictions: RTRV-DFLTATTR-EC1 is denied if the specified LOCN value is not supported for the specified CONDDTYPE value (e.g., CONDDTYPE of AIS and LOCN of FEND is entered).	FEND	Far-End, events occurring at a distant network element.	NEND	Near-End, events occurring at the system.										
FEND	Far-End, events occurring at a distant network element.														
NEND	Near-End, events occurring at the system.														
DIRN	{NA, RCV, TRMT} Default: < All applicable directions > Addressing: None Description: Direction, specifies the direction of the condition type being monitored. The value for DIRN is verified, but does not affect the function of the RTRV-DFLTATTR-EC1 command. <table> <tr> <td>NA</td><td>Not Applicable</td></tr> <tr> <td>RCV</td><td>Receive side</td></tr> <tr> <td>TRMT</td><td>Transmit direction</td></tr> </table>	NA	Not Applicable	RCV	Receive side	TRMT	Transmit direction								
NA	Not Applicable														
RCV	Receive side														
TRMT	Transmit direction														
TMPER	{15-MIN, 1-DAY} Default: {15-MIN} Addressing: None Description: Time Period. The value for TMPER is verified, but does not affect the function of the RTRV-DFLTATTR-EC1 command.														
SRVEFF	{NSA, SA} Default: < Both service effect values > Addressing: None Description: Service Effect, specifies the service effect of the condition type to be retrieved. Values are: <table> <tr> <td>NSA</td><td>Non-Service Affecting</td></tr> <tr> <td>SA</td><td>Service Affecting</td></tr> </table>	NSA	Non-Service Affecting	SA	Service Affecting										
NSA	Non-Service Affecting														
SA	Service Affecting														

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [" ,EC1:<NTFCNCDE>,<CONDTYPE>,<LOCN> , , ,<SRVEFF>"]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

NTFCNCDE	{CR, MJ, MN, NA, NR} Notification Code, identifies the system default notification code of the condition type and service effect being retrieved. Values are: CR Critical Alarm MJ Major Alarm MN Minor Alarm NA Not Alarmed NR Not Reported
CONDTYPE	NEAR-END_CONDTYPE:{ACTLPBK, AIS, INHPMREPT, LOF, LOS, MAN}, FAR-END_CONDTYPE:{RFI} Condition Type, identifies the condition type being retrieved. (Refer to Appendix C for a list of all condition types.) Values are: ACTLPBK Active Loopback, the EC1 port is in loop back. AIS Alarm Indication Signal, AIS detected. INHPMREPT Inhibit Performance Monitoring Report, PM report capability Inhibited. LOF Loss Of Frame detected. LOS Loss Of Signal detected. MAN Manual removal (logical removal was performed on the facility). RFI Remote Failure Indication detected.
LOCN	{FEND, NEND} Location, identifies the location where the condition type is monitored. Values are: FEND Far-End, events occurring at a distant network element. NEND Near-End, events occurring at the system.
SRVEFF	{NSA, SA} Service Effect, identifies the service effect of the condition type and system default notification code being retrieved. Values are: NSA Non-Service Affecting SA Service Affecting

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent /*Condition type is not consistent with <FACILITY TYPE STRING>.*/ /*Location is not consistent with <FACILITY TYPE STRING> <CONDITION TYPE STRING>.*/
IDNV	Input, Data Not Valid /* Invalid notification code specified: <NOTIFICATION CODE STRING>.*/ /* Invalid service effect specified: <SERVICE EFFECT STRING>.*/ /* Invalid location specified: <LOCATION STRING>.*/ /* Invalid condition type specified: <CONDITION TYPE STRING>.*/ /* Invalid parameter specified.*/
INUP	Input, Non–Null Unimplemented Parameter /*No matching attributes to update as requested by user.*/
SDBE	Status, internal Data Base Error /*Unable to read file <FILENAME>, Error <ERROR NUMBER>*/

EXAMPLES

In the following example, the system default notification code for the non-service affecting EC1 LOS condition type is retrieved.

RTRV=DFLTATTR=EC1:::,,LOS,,,NSA;

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71080. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```

      <SID> <YY-MM-DD> <HH:MM:SS>
M  P71080 COMPLD
   ",EC1:MN,LOS,NEND,,NSA"
   /* RTRV-DFLTATTR-EC1::::,LOS,,,NSA [P71080] (1) */
;

```

In the following example, the system default notification code for all EC1 condition types are retrieved.

```
RTRV-DFLTATTR-EC1;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of P71085. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P71085 COMPLD
",EC1:NA,ACTLPBK,NEND,,NSA"
",EC1:MJ,AIS,NEND,,SA"
",EC1:MN,AIS,NEND,,NSA"
",EC1:NA,INHMPREPT,NEND,,NSA"
",EC1:MJ,LOF,NEND,,SA"
",EC1:MN,LOF,NEND,,NSA"
",EC1:MJ,LOS,NEND,,SA"
",EC1:MN,LOS,NEND,,NSA"
",EC1:NA,MAN,NEND,,SA"
",EC1:NA,MAN,NEND,,NSA"
",EC1:NA,RFI,FEND,,SA"
",EC1:NA,RFI,FEND,,NSA"
/* RTRV-DFLTATTR-EC1 [P71085] (2) */
;
```

RELATED COMMANDS

```
RTRV-ALM-ALL
RTRV-ALM-EC1
RTRV-ATTR-EC1
RTRV-COND-ALL
RTRV-COND-EC1
SET-ATTR-EC1
SET-DFLTATTR-EC1
```

RELATED AUTONOMOUS RESPONSES

```
REPT^ALM^EC1
REPT^EVT^EC1
```


COMMAND CODE: **RTRV-DFLTATTR-F3**
COMMAND NAME: **RETRIEVE DEFAULT ATTRIBUTE F3**

PURPOSE

The RTRV-DFLTATTR-F3 command retrieves the system provisioning default F3 condition type attributes. The CONDTYPE, NTFNCNDE, LOCN, and SRVEFF input parameters provide a search-key filter for retrieving the system default condition type attributes satisfying the specified input parameters. (The system default condition type attributes are set via the SET-DFLTATTR-F3 command.)

The successful response for a RTRV-DFLTATTR-F3 command contains one line of parsable output data, in alphabetical order, for each condition type being reported. If both service effect attributes are requested, a separate line of output data is provided for service affecting attributes (if any), followed by a line for non-service affecting attributes (if any), per condition type being reported.

If there are no condition type attributes matching the specified (valid) combination of condition type, notification code, location, and service effect, then the command is completed with no line of parsable output data provided in the response message.

A RTRV-DFLTATTR-F3 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-DFLTATTR-F3 : [TID] : : [CTAG] : : [NTFCNCDE] , [CONDTYPE] , [LOCN] , [DIRN] ,
[TMPEFF] , [SRVEFF] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.										
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.										
NTFCNCDE	{CR, MJ, MN, NA, NR} Default: < All applicable notification codes listed above > Addressing: None Description: Notification Code, specifies the system default provisioning notification code of the condition type to be retrieved. Values are: <table><tr><td>CR</td><td>Critical Alarm</td></tr><tr><td>MJ</td><td>Major Alarm</td></tr><tr><td>MN</td><td>Minor Alarm</td></tr><tr><td>NA</td><td>Not Alarmed</td></tr><tr><td>NR</td><td>Not Reported</td></tr></table>	CR	Critical Alarm	MJ	Major Alarm	MN	Minor Alarm	NA	Not Alarmed	NR	Not Reported
CR	Critical Alarm										
MJ	Major Alarm										
MN	Minor Alarm										
NA	Not Alarmed										
NR	Not Reported										
CONDTYPE	{INHMPREPT} Default: < All applicable condition types listed above > Addressing: None Description: Condition Type, specifies the condition type to be retrieved. (Refer to Appendix C for a list of all condition types.) Values are: <table><tr><td>INHMPREPT</td><td>Inhibit Performance Monitoring Report, PM report capability Inhibited.</td></tr></table>	INHMPREPT	Inhibit Performance Monitoring Report, PM report capability Inhibited.								
INHMPREPT	Inhibit Performance Monitoring Report, PM report capability Inhibited.										

LOCN	{NEND}	
	Default:	< All location values applicable to the specified condition type >
	Addressing:	None
	Description:	Location, specifies the monitoring location of the condition type to be retrieved. Values are:
	NEND	Near-End, events occurring at the system.
DIRN	{NA, RCV}	
	Default:	{NA}
	Addressing:	None
	Description:	Direction, specifies the direction of the condition type being monitored. The value for DIRN is verified, but does not affect the function of the RTRV-DFLTATTR-F3 command.
	NA	Not Applicable
	RCV	Receive side
TMPER	{15-MIN, 1-DAY}	
	Default:	{15-MIN}
	Addressing:	None
	Description:	Time Period. The value for TMPER is verified, but does not affect the function of the RTRV-DFLTATTR-F3 command.
SRVEFF	{NSA, SA}	
	Default:	< Both service effect values >
	Addressing:	None
	Description:	Service Effect, specifies the service effect of the condition type to be retrieved. Values are:
	NSA	Non-Service Affecting
	SA	Service Affecting

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [ ", F3 : <NTFCNCDE> , <CONDTYPE> , <LOCN> , , , <SRVEFF> " ]
  [ /* <Command Echo> [<CTAG>] (<CID [-VCNUM] >) */ ]
;

```

OUTPUT PARAMETERS

NTFCNCDE	{CR, MJ, MN, NA, NR}	
	Notification Code, identifies the system default notification code of the condition type and service effect being retrieved. Values are:	
	CR	Critical Alarm
	MJ	Major Alarm
	MN	Minor Alarm
	NA	Not Alarmed
CONDTYPE	NR	Not Reported
	{INHPMREPT}	
	Condition Type, identifies the condition type being retrieved. (Refer to Appendix C for a list of all condition types.) Values are:	
	INHPMREPT	Inhibit Performance Monitoring Report, PM report capability Inhibited.
LOCN	{NEND}	
	Location, identifies the location where the condition type is monitored. Values are:	
	NEND	Near-End, events occurring at the system.

SRVEFF	{NSA, SA}
	Service Effect, identifies the service effect of the condition type and system default notification code being retrieved. Values are:
	NSA Non-Service Affecting
	SA Service Affecting

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent
	/*Condition type is not consistent with <FACILITY TYPE STRING>.*/ /*Location is not consistent with <FACILITY TYPE STRING> <CONDITION TYPE STRING>.*/ STRING>.*/*
IDNV	Input, Data Not Valid
	/* Invalid notification code specified: <NOTIFICATION CODE STRING>.*/ /* Invalid service effect specified: <SERVICE EFFECT STRING>.*/ /* Invalid location specified: <LOCATION STRING>.*/ /* Invalid condition type specified: <CONDITION TYPE STRING>.*/ /* Invalid parameter specified. */
INUP	Input, Non-Null Unimplemented Parameter
	/*No matching attributes to update as requested by user.*/*
SDBE	Status, internal Data Base Error
	/*Unable to read file <FILENAME>, Error <ERROR NUMBER>*/

EXAMPLES

In the following example, the system default notification code for all F3 condition types are retrieved.

```
RTRV-DFLTATTR-F3;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of P71085. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```

<SID> <YY-MM-DD> <HH:MM:SS>
M P71085 COMPLD
  ",F3:NA,INHMPREPT,NEND,,NSA"
  /* RTRV-DFLTATTR-F3 [P71085] (2) */
;

```

RELATED COMMANDS

```

RTRV-ALM-ALL
RTRV-ALM-F3
RTRV-ATTR-F3
RTRV-COND-ALL

```

3AL45392AJ

Issue 01, February 2005

RTRV-COND-F3

SET-ATTR-F3

SET-DFLTATTR-F3

RELATED AUTONOMOUS RESPONSES

REPT^ALM^F3

REPT^EVT^F3

COMMAND CODE: **RTRV-DFLTATTR-OC12**
COMMAND NAME: **RETRIEVE DEFAULT ATTRIBUTE OC-12**

PURPOSE

The RTRV-DFLTATTR-OC12 command retrieves the system provisioning default OC12 condition type attributes. The CONDTYPE, NTFNCNCDE, LOCN, and SRVEFF input parameters provide a search-key filter for retrieving the system default condition type attributes satisfying the specified input parameters. (The system default condition type attributes are set via the SET-DFLTATTR-OC12 command.)

The successful response for a RTRV-DFLTATTR-OC12 command contains one line of parsable output data, in alphabetical order, for each condition type being reported. If both service effect attributes are requested, a separate line of output data is provided for service affecting attributes (if any), followed by a line for non-service affecting attributes (if any), per condition type being reported.

If there are no condition type attributes matching the specified (valid) combination of condition type, notification code, location, and service effect, then the command is completed with no line of parsable output data provided in the response message.

A RTRV-DFLTATTR-OC12 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-DFLTATTR-OC12 : [TID] : [CTAG] : [NTFCNCDE] , [CONDTYPE] , [LOCN] , [DIRN] ,
[TMPEFF] , [SRVEFF] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.										
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.										
NTFCNCDE	{CR, MJ, MN, NA, NR} Default: < All applicable notification codes listed above > Addressing: None Description: Notification Code, specifies the system default provisioning notification code of the condition type to be retrieved. Values are: <table><tr><td>CR</td><td>Critical Alarm</td></tr><tr><td>MJ</td><td>Major Alarm</td></tr><tr><td>MN</td><td>Minor Alarm</td></tr><tr><td>NA</td><td>Not Alarmed</td></tr><tr><td>NR</td><td>Not Reported</td></tr></table>	CR	Critical Alarm	MJ	Major Alarm	MN	Minor Alarm	NA	Not Alarmed	NR	Not Reported
CR	Critical Alarm										
MJ	Major Alarm										
MN	Minor Alarm										
NA	Not Alarmed										
NR	Not Reported										

CONDTYPE	NEAR-END_CONDDTYPE:{ACTLPBK, AIS, DUPTARPENRY, EBER, ESW, FRCDWKS WBK, FRCDWKS WPR, INHPMREPT, L2LCONFAIL, L2S CONFAIL, LDCCDLFL, LOCKOUTOFPR, LOF, LOS, MAN, MANWKS WBK, MANWKS WPR, SDBER, SDCCDLFL, WTR}, FAR-END_CONDDTYPE:{RFI}
Default:	< All applicable condition types listed above >
Addressing:	None
Description:	Condition Type, specifies the condition type to be retrieved. (Refer to Appendix C for a list of all condition types.) Values are:
ACTLPBK	Active Loopback, the OC12 port is in loop back. (Near-End only.)
AIS	Alarm Indication Signal, AIS detected. (Near-End only.)
DUPTARPENRY	Duplicate TARP adjacency table. (Near-End only.)
EBER	Excessive Bit Error Rate detected. (Near-End only.)
ESW	Excessive Switching, lockout of automatic revertive (OC12) switching due to excessive switching. (Near-End only.)
FRCDWKS WBK	Forced Working Switched Back, working facility was manually force switched from protection to the main facility. (Near-End only.)
FRCDWKS WPR	Forced Working Switched to Protection, working facility was manually force switched to the protection facility. (Near-End only.)
INHPMREPT	Inhibit Performance Monitoring Report, PM report capability inhibited. (Near-End only.)
L2LCONFAIL	Layer 2 Line DCC Connection Failure. (Near-End only.)
L2S CONFAIL	Layer 2 Section DCC Connection Failure. (Near-End only.)
LDCCDLFL	Line DCC Data Link Failure. (Near-End only.)
LOCKOUTOFPR	LockOut Of Protection facility. (Near-End only.)
LOF	Loss Of Frame detected. (Near-End only.)
LOS	Loss Of Signal detected. (Near-End only.)
MAN	Manual removal (logical removal was performed on the facility). (Near-End only.)
MANWKS WBK	Manual Working Switched Back, working facility was manually switched from protection to the main facility. (Near-End only.)
MANWKS WPR	Manual Working Switched to Protection, working facility was manually switched to the protection facility. (Near-End only.)
RFI	Remote Failure Indication detected. (Far-End only.)
SDBER	Signal Degrade Bit Error Rate detected. (Near-End only.)
SDCCDLFL	Section DCC Data Link Failure. (Near-End only.)
WTR	Wait To Restore of protection facility. (Near-End only.)
Restrictions:	RTRV-DFLTATTR-OC12 is denied if the specified CONDDTYPE value is not supported for the specified LOCN value (e.g., CONDDTYPE of RFI and LOCN of NEND is entered).

LOCN	{FEND, NEND}	
	Default:	< All location values applicable to the specified condition type >
	Addressing:	None
	Description:	Location, specifies the monitoring location of the condition type to be retrieved. Values are:
	FEND	Far-End, events occurring at a distant network element.
DIRN	{NA, RCV, TRMT}	
	Default:	< All applicable directions >
	Addressing:	None
	Description:	Direction, specifies the direction of the condition type being monitored. The value for DIRN is verified, but does not affect the function of the RTRV-DFLTATTR-OC12 command.
	NA	Not Applicable
TMPER	{15-MIN, 1-DAY}	
	Default:	{15-MIN}
	Addressing:	None
	Description:	Time Period. The value for TMPER is verified, but does not affect the function of the RTRV-DFLTATTR-OC12 command.
SRVEFF	{NSA, SA}	
	Default:	< Both service effect values >
	Addressing:	None
	Description:	Service Effect, specifies the service effect of the condition type to be retrieved. Values are:
	NSA	Non-Service Affecting
	SA	Service Affecting

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [",OC12:<NTFCNCDE>,<CONDTYPE>,<LOCN>,,<SRVEFF>"]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

OUTPUT PARAMETERS

NTFCNCDE	{CR, MJ, MN, NA, NR}	
	Notification Code, identifies the system default notification code of the condition type and service effect being retrieved. Values are:	
	CR	Critical Alarm
	MJ	Major Alarm
	MN	Minor Alarm
	NA	Not Alarmed
	NR	Not Reported

CONDTYPE	NEAR-END_CONDDTYPE:{ACTLPBK, AIS, DUPTARPENTRY, EBER, ESW, FRCDWKSWBK, FRCDWKSWPR, INHPMREPT, L2LCONFAIL, L2SCONFAIL, LDCCDLFL, LOCKOUTOFPR, LOF, LOS, MAN, MANWKSWBK, MANWKSWPR, SDBER, SDCCDLFL, WTR}, FAR-END_CONDDTYPE:{RFI} Condition Type, identifies the condition type being retrieved. (Refer to Appendix C for a list of all condition types.) Values are:	
	ACTLPBK	Active Loopback, the OC12 port is in loop back.
	AIS	Alarm Indication Signal, AIS detected.
	DUPTARPENTRY	Duplicate TARP adjacency table.
	EBER	Excessive Bit Error Rate detected.
	ESW	Excessive Switching, lockout of automatic revertive (OC12) switching due to excessive switching.
	FRCDWKSWBK	Forced Working Switched Back, working facility was manually force switched from protection to the main facility.
	FRCDWKSWPR	Forced Working Switched to Protection, working facility was manually force switched to the protection facility.
	INHPMREPT	Inhibit Performance Monitoring Report, PM report capability inhibited.
	L2LCONFAIL	Layer 2 Line DCC Connection Failure.
	L2SCONFAIL	Layer 2 Section DCC Connection Failure.
	LDCCDLFL	Line DCC Data Link Failure.
	LOCKOUTOFPR	LockOut Of Protection facility.
	LOF	Loss Of Frame detected.
	LOS	Loss Of Signal detected.
	MAN	Manual removal (logical removal was performed on the facility).
	MANWKSWBK	Manual Working Switched Back, working facility was manually switched from protection to the main facility.
	MANWKSWPR	Manual Working Switched to Protection, working facility was manually switched to the protection facility.
	RFI	Remote Failure Indication detected.
	SDBER	Signal Degrade Bit Error Rate detected.
	SDCCDLFL	Section DCC Data Link Failure.
	WTR	Wait To Restore of protection facility.
LOCN	{FEND, NEND} Location, identifies the location where the condition type is monitored. Values are:	
	FEND	Far-End, events occurring at a distant network element.
	NEND	Near-End, events occurring at the system.
SRVEFF	{NSA, SA} Service Effect, identifies the service effect of the condition type and system default notification code being retrieved. Values are:	
	NSA	Non-Service Affecting
	SA	Service Affecting

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent /*Condition type is not consistent with <FACILITY TYPE STRING>.*/ /*Location is not consistent with <FACILITY TYPE STRING> <CONDITION TYPE STRING>.*/
IDNV	Input, Data Not Valid /* Invalid notification code specified: <NOTIFICATION CODE STRING>. */ /* Invalid service effect specified: <SERVICE EFFECT STRING>. */ /* Invalid location specified: <LOCATION STRING>. */ /*Invalid parameter specified.*/ /* Invalid condition type specified: <CONDITION TYPE STRING>. */
INUP	Input, Non-Null Unimplemented Parameter /*No matching attributes to update as requested by user.*/
SDBE	Status, internal Data Base Error /*Unable to read file <FILENAME>, Error <ERROR NUMBER>*/

EXAMPLES

In the following example, the system default notification code for the non-service affecting OC12 RFI condition type is retrieved.

```
RTRV-DFLTATTR-OC12::::,RFI,,,NSA;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71080. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M P71080 COMPLD  
",OC12:NA,RFI,FEND,,,NSA"  
/* RTRV-DFLTATTR-OC12::::,RFI,,,NSA [P71080] (1) */  
;
```

In the following example, the system default notification code for all OC12 condition types are retrieved.

```
RTRV-DFLTATTR-OC12;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of P71085. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P71085 COMPLD
",OC12:NA,ACTLPBK,NEND,,,NSA"
",OC12:MJ,AIS,NEND,,,SA"
",OC12:MN,AIS,NEND,,,NSA"
",OC12:MJ,EBER,NEND,,,SA"
",OC12:MN,EBER,NEND,,,NSA"
",OC12:MN,ESW,NEND,,,NSA"
",OC12:NA,FRCDWKSWBK,NEND,,,NSA"
",OC12:NA,FRCDWKSWPR,NEND,,,NSA"
",OC12:NA,INHMPREPT,NEND,,,NSA"
",OC12:MN,LOCKOUT,NEND,,,NSA"
",OC12:NA,LOCKOUTOFPR,NEND,,,NSA"
",OC12:MJ,LOF,NEND,,,SA"
",OC12:MN,LOF,NEND,,,NSA"
",OC12:MJ,LOS,NEND,,,SA"
",OC12:MN,LOS,NEND,,,NSA"
",OC12:NA,MAN,NEND,,,SA"
",OC12:NA,MAN,NEND,,,NSA"
",OC12:NA,MANWKSWBK,NEND,,,NSA"
",OC12:NA,MANWKSWPR,NEND,,,NSA"
",OC12:NA,RFI,FEND,,,SA"
",OC12:NA,RFI,FEND,,,NSA"
",OC12:MJ,SDBER,NEND,,,SA"
",OC12:MN,SDBER,NEND,,,NSA"
/* RTRV-DFLTATTR-OC12 [P71085] (2) */
;
```

RELATED COMMANDS

```
RTRV-ALM-ALL
RTRV-ALM-OC12
RTRV-ATTR-OC12
RTRV-COND-ALL
RTRV-COND-OC12
SET-ATTR-OC12
SET-DFLTATTR-OC12
```

RELATED AUTONOMOUS RESPONSES

```
REPT^ALM^OC12
REPT^EVT^OC12
```

COMMAND CODE: **RTRV-DFLTATTR-OC3**
COMMAND NAME: **RETRIEVE DEFAULT ATTRIBUTE OC-3**

PURPOSE

The RTRV-DFLTATTR-OC3 command retrieves the system provisioning default OC3 condition type attributes. The CONDTYPE, NTFCNCDE, LOCN, and SRVEFF input parameters provide a search-key filter for retrieving the system default condition type attributes satisfying the specified input parameters. (The system default condition type attributes are set via the SET-DFLTATTR-OC3 command.)

The successful response for a RTRV-DFLTATTR-OC3 command contains one line of parsable output data, in alphabetical order, for each condition type being reported. If both service effect attributes are requested, a separate line of output data is provided for service affecting attributes (if any), followed by a line for non-service affecting attributes (if any), per condition type being reported.

If there are no condition type attributes matching the specified (valid) combination of condition type, notification code, location, and service effect, then the command is completed with no line of parsable output data provided in the response message.

A RTRV-DFLTATTR-OC3 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-DFLTATTR-OC3 : [TID] : : [CTAG] : : [NTFCNCDE] , [CONDTYPE] , [LOCN] , [DIRN] ,
[TMPER] , [SRVEFF] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.										
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.										
NTFCNCDE	{CR, MJ, MN, NA, NR} Default: < All applicable notification codes listed above > Addressing: None Description: Notification Code, specifies the system default provisioning notification code of the condition type to be retrieved. Values are: <table><tr><td>CR</td><td>Critical Alarm</td></tr><tr><td>MJ</td><td>Major Alarm</td></tr><tr><td>MN</td><td>Minor Alarm</td></tr><tr><td>NA</td><td>Not Alarmed</td></tr><tr><td>NR</td><td>Not Reported</td></tr></table>	CR	Critical Alarm	MJ	Major Alarm	MN	Minor Alarm	NA	Not Alarmed	NR	Not Reported
CR	Critical Alarm										
MJ	Major Alarm										
MN	Minor Alarm										
NA	Not Alarmed										
NR	Not Reported										

CONDTYPE	NEAR-END_CONDDTYPE:{ACTLPBK, AIS, DUPTARPENRY, EBER, ESW, FRCDWKS WBK, FRCDWKS WPR, INHPMREPT, L2LCONFAIL, L2SCONFAIL, LDCCDLFL, LOCKOUTOFPR, LOF, LOS, MAN, MANWKS WBK, MANWKS WPR, SDBER, SDCCDLFL, WTR}, FAR-END_CONDDTYPE:{RFI}
Default:	< All applicable condition types listed above >
Addressing:	None
Description:	Condition Type, specifies the condition type to be retrieved. (Refer to Appendix C for a list of all condition types.) Values are:
ACTLPBK	Active Loopback, the OC3 port is in loop back. (Near-End only.)
AIS	Alarm Indication Signal, AIS detected. (Near-End only.)
DUPTARPENRY	Duplicate TARP adjacency table. (Near-End only.)
EBER	Excessive Bit Error Rate detected. (Near-End only.)
ESW	Excessive Switching, lockout of automatic revertive (OC3) switching due to excessive switching. (Near-End only.)
FRCDWKS WBK	Forced Working Switched Back, working facility was manually force switched from protection to the main facility. (Near-End only.)
FRCDWKS WPR	Forced Working Switched to Protection, working facility was manually force switched to the protection facility. (Near-End only.)
INHPMREPT	Inhibit Performance Monitoring Report, PM report capability Inhibited. (Near-End only.)
L2LCONFAIL	Layer 2 Line DCC Connection Failure. (Near-End only.)
L2SCONFAIL	Layer 2 Section DCC Connection Failure. (Near-End only.)
LDCCDLFL	Line DCC Data Link Failure. (Near-End only.)
LOCKOUTOFPR	LockOut Of Protection facility. (Near-End only.)
LOF	Loss Of Frame detected. (Near-End only.)
LOS	Loss Of Signal detected. (Near-End only.)
MAN	Manual removal (logical removal was performed on the facility). (Near-End only.)
MANWKS WBK	Manual Working Switched Back, working facility was manually switched from protection to the main facility. (Near-End only.)
MANWKS WPR	Manual Working Switched to Protection, working facility was manually switched to the protection facility. (Near-End only.)
RFI	Remote Failure Indication detected. (Far-End only.)
SDBER	Signal Degrade Bit Error Rate detected. (Near-End only.)
SDCCDLFL	Section DCC Data Link Failure. (Near-End only.)
WTR	Wait To Restore of protection facility. (Near-End only.)
Restrictions:	RTRV-DFLTATTR-OC3 is denied if the specified CONDDTYPE value is not supported for the specified LOCN value (e.g., CONDDTYPE of RFI and LOCN of NEND is entered).

LOCN	{FEND, NEND}
Default:	< All location values applicable to the specified condition type >
Addressing:	None
Description:	Location, specifies the monitoring location of the condition type to be retrieved. Values are:
	FEND Far-End, events occurring at a distant network element.
	NEND Near-End, events occurring at the system.
Restrictions:	RTRV-DFLTATTR-OC3 is denied if the specified LOCN value is not supported for the specified CONDTYPE value (e.g., CONDTYPE of RFI and LOCN of NEND is entered).
DIRN	{NA, RCV, TRMT}
Default:	< All applicable directions >
Addressing:	None
Description:	Direction, specifies the direction of the condition type being monitored. The value for DIRN is verified, but does not affect the function of the RTRV-DFLTATTR-OC3 command.
	NA Not Applicable
	RCV Receive side
	TRMT Transmit direction
TMPER	{15-MIN, 1-DAY}
Default:	{15-MIN}
Addressing:	None
Description:	Time Period. The value for TMPER is verified, but does not affect the function of the RTRV-DFLTATTR-OC3 command.
SRVEFF	{NSA, SA}
Default:	< Both service effect values >
Addressing:	None
Description:	Service Effect, specifies the service effect of the condition type to be retrieved. Values are:
	NSA Non-Service Affecting
	SA Service Affecting

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [",OC3:<NTFCNCDE>,<CONDTYPE>,<LOCN>,,<SRVEFF>" ]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

OUTPUT PARAMETERS

NTFCNCDE	{CR, MJ, MN, NA, NR}
	Notification Code, identifies the system default notification code of the condition type and service effect being retrieved. Values are:
	CR Critical Alarm
	MJ Major Alarm
	MN Minor Alarm
	NA Not Alarmed
	NR Not Reported

CONDTYPE	NEAR-END_CONDDTYPE:{ACTLPBK, AIS, DUPTARPENRY, EBER, ESW, FRCDWKSWBK, FRCDWKSWPR, INHPMREPT, L2LCONFAIL, L2SCONFAIL, LDCCDLFL, LOCKOUTOFPR, LOF, LOS, MAN, MANWKSWBK, MANWKSWPR, SDBER, SDCCDLFL, WTR}, FAR-END_CONDDTYPE:{RFI} Condition Type, identifies the condition type being retrieved. (Refer to Appendix C for a list of all condition types.) Values are:																																										
	<table> <tr> <td>ACTLPBK</td><td>Active Loopback, the OC3 port is in loop back.</td></tr> <tr> <td>AIS</td><td>Alarm Indication Signal, AIS detected.</td></tr> <tr> <td>DUPTARPENRY</td><td>Duplicate TARP adjacency table.</td></tr> <tr> <td>EBER</td><td>Excessive Bit Error Rate detected.</td></tr> <tr> <td>ESW</td><td>Excessive Switching, lockout of automatic revertive (OC3) switching due to excessive switching.</td></tr> <tr> <td>FRCDWKSWBK</td><td>Forced Working Switched Back, working facility was manually force switched from protection to the main facility.</td></tr> <tr> <td>FRCDWKSWPR</td><td>Forced Working Switched to Protection, working facility was manually force switched to the protection facility.</td></tr> <tr> <td>INHPMREPT</td><td>Inhibit Performance Monitoring Report, PM report capability Inhibited.</td></tr> <tr> <td>L2LCONFAIL</td><td>Layer 2 Line DCC Connection Failure.</td></tr> <tr> <td>L2SCONFAIL</td><td>Layer 2 Section DCC Connection Failure.</td></tr> <tr> <td>LDCCDLFL</td><td>Line DCC Data Link Failure.</td></tr> <tr> <td>LOCKOUTOFPR</td><td>LockOut Of Protection facility.</td></tr> <tr> <td>LOF</td><td>Loss Of Frame detected.</td></tr> <tr> <td>LOS</td><td>Loss Of Signal detected.</td></tr> <tr> <td>MAN</td><td>Manual removal (logical removal was performed on the facility).</td></tr> <tr> <td>MANWKSWBK</td><td>Manual Working Switched Back, working facility was manually switched from protection to the main facility.</td></tr> <tr> <td>MANWKSWPR</td><td>Manual Working Switched to Protection, working facility was manually switched to the protection facility.</td></tr> <tr> <td>RFI</td><td>Remote Failure Indication detected.</td></tr> <tr> <td>SDBER</td><td>Signal Degrade Bit Error Rate detected.</td></tr> <tr> <td>SDCCDLFL</td><td>Section DCC Data Link Failure.</td></tr> <tr> <td>WTR</td><td>Wait To Restore of protection facility.</td></tr> </table>	ACTLPBK	Active Loopback, the OC3 port is in loop back.	AIS	Alarm Indication Signal, AIS detected.	DUPTARPENRY	Duplicate TARP adjacency table.	EBER	Excessive Bit Error Rate detected.	ESW	Excessive Switching, lockout of automatic revertive (OC3) switching due to excessive switching.	FRCDWKSWBK	Forced Working Switched Back, working facility was manually force switched from protection to the main facility.	FRCDWKSWPR	Forced Working Switched to Protection, working facility was manually force switched to the protection facility.	INHPMREPT	Inhibit Performance Monitoring Report, PM report capability Inhibited.	L2LCONFAIL	Layer 2 Line DCC Connection Failure.	L2SCONFAIL	Layer 2 Section DCC Connection Failure.	LDCCDLFL	Line DCC Data Link Failure.	LOCKOUTOFPR	LockOut Of Protection facility.	LOF	Loss Of Frame detected.	LOS	Loss Of Signal detected.	MAN	Manual removal (logical removal was performed on the facility).	MANWKSWBK	Manual Working Switched Back, working facility was manually switched from protection to the main facility.	MANWKSWPR	Manual Working Switched to Protection, working facility was manually switched to the protection facility.	RFI	Remote Failure Indication detected.	SDBER	Signal Degrade Bit Error Rate detected.	SDCCDLFL	Section DCC Data Link Failure.	WTR	Wait To Restore of protection facility.
ACTLPBK	Active Loopback, the OC3 port is in loop back.																																										
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RFI	Remote Failure Indication detected.																																										
SDBER	Signal Degrade Bit Error Rate detected.																																										
SDCCDLFL	Section DCC Data Link Failure.																																										
WTR	Wait To Restore of protection facility.																																										
LOCN	{FEND, NEND} Location, identifies the location where the condition type is monitored. Values are:																																										
	<table> <tr> <td>FEND</td><td>Far-End, events occurring at a distant network element.</td></tr> <tr> <td>NEND</td><td>Near-End, events occurring at the system.</td></tr> </table>	FEND	Far-End, events occurring at a distant network element.	NEND	Near-End, events occurring at the system.																																						
FEND	Far-End, events occurring at a distant network element.																																										
NEND	Near-End, events occurring at the system.																																										
SRVEFF	{NSA, SA} Service Effect, identifies the service effect of the condition type and system default notification code being retrieved. Values are:																																										
	<table> <tr> <td>NSA</td><td>Non-Service Affecting</td></tr> <tr> <td>SA</td><td>Service Affecting</td></tr> </table>	NSA	Non-Service Affecting	SA	Service Affecting																																						
NSA	Non-Service Affecting																																										
SA	Service Affecting																																										

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent /*Condition type is not consistent with <FACILITY TYPE STRING>.*/ /*Location is not consistent with <FACILITY TYPE STRING> <CONDITION TYPE STRING>.*/
IDNV	Input, Data Not Valid /* Invalid notification code specified: <NOTIFICATION CODE STRING>. */ /* Invalid service effect specified: <SERVICE EFFECT STRING>. */ /* Invalid location specified: <LOCATION STRING>. */ /*Invalid parameter specified.*/ /* Invalid condition type specified: <CONDITION TYPE STRING>. */
INUP	Input, Non-Null Unimplemented Parameter /*No matching attributes to update as requested by user.*/
SDBE	Status, internal Data Base Error /*Unable to read file <FILENAME>, Error <ERROR NUMBER>*/

EXAMPLES

In the following example, the system default notification code for the non-service affecting OC3 RFI condition type is retrieved.

```
RTRV-DFLTATTR-OC3::::,RFI,,,NSA;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71080. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M P71080 COMPLD  
",OC3:NA,RFI,FEND,,,NSA"  
/* RTRV-DFLTATTR-OC3::::,RFI,,,NSA [P71080] (1) */  
;
```

In the following example, the system default notification code for all OC3 condition types are retrieved.

```
RTRV-DFLTATTR-OC3 ;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of P71085. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P71085 COMPLD
",OC3:NA,ACTLPBK,NEND,,NSA"
",OC3:MJ,AIS,NEND,,SA"
",OC3:MN,AIS,NEND,,NSA"
",OC3:MJ,EBER,NEND,,SA"
",OC3:MN,EBER,NEND,,NSA"
",OC3:MN,ESW,NEND,,NSA"
",OC3:NA,FRCDWKSWBK,NEND,,NSA"
",OC3:NA,FRCDWKSWPR,NEND,,NSA"
",OC3:NA,INHMPMREPT,NEND,,NSA"
",OC3:MN,LOCKOUT,NEND,,NSA"
",OC3:NA,LOCKOUTOFPR,NEND,,NSA"
",OC3:MJ,LOF,NEND,,SA"
",OC3:MN,LOF,NEND,,NSA"
",OC3:MJ,LOS,NEND,,SA"
",OC3:MN,LOS,NEND,,NSA"
",OC3:NA,MAN,NEND,,SA"
",OC3:NA,MAN,NEND,,NSA"
",OC3:NA,MANWKSWBK,NEND,,NSA"
",OC3:NA,MANWKSWPR,NEND,,NSA"
",OC3:NA,RFI,FEND,,SA"
",OC3:NA,RFI,FEND,,NSA"
",OC3:MJ,SDBER,NEND,,SA"
",OC3:MN,SDBER,NEND,,NSA"
/* RTRV-DFLTATTR-OC3 [P71085] (2) */
;
```

RELATED COMMANDS

```
RTRV-ALM-ALL
RTRV-ALM-OC3
RTRV-ATTR-OC3
RTRV-COND-ALL
RTRV-COND-OC3
SET-ATTR-OC3
SET-DFLTATTR-OC3
```

RELATED AUTONOMOUS RESPONSES

```
REPT^ALM^OC3
REPT^EVT^OC3
```

COMMAND CODE: **RTRV-DFLTATTR-STS1**
COMMAND NAME: **RETRIEVE DEFAULT ATTRIBUTE STS-1**

PURPOSE

The RTRV-DFLTATTR-STS1 command retrieves the system provisioning default STS-1 condition type attributes. The CONDTYPE, NTFNCNDE, LOCN, and SRVEFF input parameters provide a search-key filter for retrieving the system default condition type attributes satisfying the specified input parameters. (The system default condition type attributes are set via the SET-DFLTATTR-STS1 command.)

The successful response for a RTRV-DFLTATTR-STS1 command contains one line of parsable output data, in alphabetical order, for each condition type being reported. If both service effect attributes are requested, a separate line of output data is provided for service affecting attributes (if any), followed by a line for non-service affecting attributes (if any), per condition type being reported.

If there are no condition type attributes matching the specified (valid) combination of condition type, notification code, location, and service effect, then the command is completed with no line of parsable output data provided in the response message.

A RTRV-DFLTATTR-STS1 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-DFLTATTR-STS1: [TID] :: [CTAG] :: [NTFCNCDE] , [CONDTYPE] , [LOCN] , [DIRN] ,
[TMPER] , [SRVEFF] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.										
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.										
NTFCNCDE	{CR, MJ, MN, NA, NR} Default: < All applicable notification codes listed above > Addressing: None Description: Notification Code, specifies the system default provisioning notification code of the condition type to be retrieved. Values are: <table><tr><td>CR</td><td>Critical Alarm</td></tr><tr><td>MJ</td><td>Major Alarm</td></tr><tr><td>MN</td><td>Minor Alarm</td></tr><tr><td>NA</td><td>Not Alarmed</td></tr><tr><td>NR</td><td>Not Reported</td></tr></table>	CR	Critical Alarm	MJ	Major Alarm	MN	Minor Alarm	NA	Not Alarmed	NR	Not Reported
CR	Critical Alarm										
MJ	Major Alarm										
MN	Minor Alarm										
NA	Not Alarmed										
NR	Not Reported										

CONDTYPE	NEAR-END_CONDDTYPE:{ACTLPBK, AIS, EBER, FLTESC, FRCDWKS WBK, FRCDWKS WPR, IDLE, INHPMREPT, LOP, MAN, MANWKS WBK, MANWKS WPR, PDI, SDBER, SLMF}, FAR-END_CONDDTYPE:{RFI} Default: < All applicable condition types listed above > Addressing: None Description: Condition Type, specifies the condition type to be retrieved. (Refer to Appendix C for a list of all condition types.) Values are: <table> <tr> <td>ACTLPBK</td><td>Active Loopback, the STS-1 port is in loop back. (Near-End only.)</td></tr> <tr> <td>AIS</td><td>Alarm Indication Signal, AIS detected. (Near-End only.)</td></tr> <tr> <td>EBER</td><td>Excessive Bit Error Rate detected. (Near-End only.)</td></tr> <tr> <td>FLTESC</td><td>Facility Fault Escalation active. (Near-End only.)</td></tr> <tr> <td>FRCDWKS WBK</td><td>Forced Working Switched Back, working facility was manually force switched from protection to the main facility. (Near-End only.)</td></tr> <tr> <td>FRCDWKS WPR</td><td>Forced Working Switched to Protection, working facility was manually force switched to the protection facility. (Near-End only.)</td></tr> <tr> <td>IDLE</td><td>Idle, incoming idle detected. (Near-End only.)</td></tr> <tr> <td>INHPMREPT</td><td>Inhibit Performance Monitoring Report, PM report capability inhibited. (Near-End only.)</td></tr> <tr> <td>LOP</td><td>Loss Of Pointer detected. (Near-End only.)</td></tr> <tr> <td>MAN</td><td>Manual removal (logical removal was performed on the facility). (Near-End only.)</td></tr> <tr> <td>MANWKS WBK</td><td>Manual Working Switched Back, working facility was manually switched from protection to the main facility. (Near-End only.)</td></tr> <tr> <td>MANWKS WPR</td><td>Manual Working Switched to Protection, working facility was manually switched to the protection facility. (Near-End only.)</td></tr> <tr> <td>PDI</td><td>Incoming PDI signal detected (STS1)</td></tr> <tr> <td>RFI</td><td>Remote Failure Indication detected. (Far-End only.)</td></tr> <tr> <td>SDBER</td><td>Signal Degrade Bit Error Rate detected. (Near-End only.)</td></tr> <tr> <td>SLMF</td><td>Signal Label Match Failure detected. (Near-End only.)</td></tr> </table> Restrictions: RTRV-DFLTATTR-STS1 is denied if the specified CONDDTYPE value is not supported for the specified LOCN value (e.g., CONDDTYPE of AIS and LOCN of FEND is entered).	ACTLPBK	Active Loopback, the STS-1 port is in loop back. (Near-End only.)	AIS	Alarm Indication Signal, AIS detected. (Near-End only.)	EBER	Excessive Bit Error Rate detected. (Near-End only.)	FLTESC	Facility Fault Escalation active. (Near-End only.)	FRCDWKS WBK	Forced Working Switched Back, working facility was manually force switched from protection to the main facility. (Near-End only.)	FRCDWKS WPR	Forced Working Switched to Protection, working facility was manually force switched to the protection facility. (Near-End only.)	IDLE	Idle, incoming idle detected. (Near-End only.)	INHPMREPT	Inhibit Performance Monitoring Report, PM report capability inhibited. (Near-End only.)	LOP	Loss Of Pointer detected. (Near-End only.)	MAN	Manual removal (logical removal was performed on the facility). (Near-End only.)	MANWKS WBK	Manual Working Switched Back, working facility was manually switched from protection to the main facility. (Near-End only.)	MANWKS WPR	Manual Working Switched to Protection, working facility was manually switched to the protection facility. (Near-End only.)	PDI	Incoming PDI signal detected (STS1)	RFI	Remote Failure Indication detected. (Far-End only.)	SDBER	Signal Degrade Bit Error Rate detected. (Near-End only.)	SLMF	Signal Label Match Failure detected. (Near-End only.)
ACTLPBK	Active Loopback, the STS-1 port is in loop back. (Near-End only.)																																
AIS	Alarm Indication Signal, AIS detected. (Near-End only.)																																
EBER	Excessive Bit Error Rate detected. (Near-End only.)																																
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PDI	Incoming PDI signal detected (STS1)																																
RFI	Remote Failure Indication detected. (Far-End only.)																																
SDBER	Signal Degrade Bit Error Rate detected. (Near-End only.)																																
SLMF	Signal Label Match Failure detected. (Near-End only.)																																
LOCN	{FEND, NEND} Default: < All location values applicable to the specified condition type > Addressing: None Description: Location, specifies the monitoring location of the condition type to be retrieved. Values are: <table> <tr> <td>FEND</td><td>Far-End, events occurring at a distant network element.</td></tr> <tr> <td>NEND</td><td>Near-End, events occurring at the system.</td></tr> </table> Restrictions: RTRV-DFLTATTR-STS1 is denied if the specified LOCN value is not supported for the specified CONDDTYPE value (e.g., CONDDTYPE of AIS and LOCN of FEND is entered).	FEND	Far-End, events occurring at a distant network element.	NEND	Near-End, events occurring at the system.																												
FEND	Far-End, events occurring at a distant network element.																																
NEND	Near-End, events occurring at the system.																																

DIRN	{NA, RCV, TRMT}	
	Default:	< All applicable directions >
	Addressing:	None
	Description:	Direction, specifies the direction of the condition type being monitored. The value for DIRN is verified, but does not affect the function of the RTRV-DFLTATTR-STS1 command.
	NA	Not Applicable
TMPER	{15-MIN, 1-DAY}	
	Default:	{15-MIN}
	Addressing:	None
	Description:	Time Period. The value for TMPER is verified, but does not affect the function of the RTRV-DFLTATTR-STS1 command.
	RCV	Receive side
SRVEFF	{NSA, SA}	
	Default:	< Both service effect values >
	Addressing:	None
	Description:	Service Effect, specifies the service effect of the condition type to be retrieved. Values are:
	NSA	Non-Service Affecting
	SA	Service Affecting

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
[" ,STS1:<NTFCNCDE>,<CONDTYPE>,<LOCN>,[<DIRN>],,<SRVEFF>"]
[/* <Command Echo> [<CTAG>] (<CID [-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

NTFCNCDE	{CR, MJ, MN, NA, NR}	
	Notification Code, identifies the system default notification code of the condition type and service effect being retrieved. Values are:	
	CR	Critical Alarm
	MJ	Major Alarm
	MN	Minor Alarm
	NA	Not Alarmed
	NR	Not Reported

CONDTYPE	NEAR-END_CONDDTYPE:{ACTLPBK, AIS, EBER, FLTESC, FRCDWKSWBK, FRCDWKSWPR, IDLE, INHPMREPT, LOP, MAN, MANWKSWBK, MANWKSWPR, PDI, SDBER, SLMF}, FAR-END_CONDDTYPE:{RFI} Condition Type, identifies the condition type being retrieved. (Refer to Appendix C for a list of all condition types.) Values are:	
	ACTLPBK	Active Loopback, the STS-1 port is in loop back.
	AIS	Alarm Indication Signal, AIS detected.
	EBER	Excessive Bit Error Rate detected.
	FLTESC	Facility Fault Escalation active.
	FRCDWKSWBK	Forced Working Switched Back, working facility was manually force switched from protection to the main facility.
	FRCDWKSWPR	Forced Working Switched to Protection, working facility was manually force switched to the protection facility.
	IDLE	Idle, incoming idle detected.
	INHPMREPT	Inhibit Performance Monitoring Report, PM report capability inhibited.
	LOP	Loss Of Pointer detected.
	MAN	Manual removal (logical removal was performed on the facility).
	MANWKSWBK	Manual Working Switched Back, working facility was manually switched from protection to the main facility.
	MANWKSWPR	Manual Working Switched to Protection, working facility was manually switched to the protection facility.
	PDI	Incoming PDI signal detected (STS1)
	RFI	Remote Failure Indication detected.
	SDBER	Signal Degrade Bit Error Rate detected.
	SLMF	Signal Label Match Failure detected.
LOCN	{FEND, NEND} Location, identifies the location where the condition type is monitored. Values are:	
	FEND	Far-End, events occurring at a distant network element.
	NEND	Near-End, events occurring at the system.
DIRN	{TRMT, <NoVal>} Direction, identifies the direction of the condition type being monitored. Values are:	
	TRMT	Transmit Direction, value returned for CONDDTYPE of FLTESC.
	<NoVal>	No Value (null) returned for all conditions other than FLTESC.
SRVEFF	{NSA, SA} Service Effect, identifies the service effect of the condition type and system default notification code being retrieved. Values are:	
	NSA	Non-Service Affecting
	SA	Service Affecting

UNSUCCESSFUL RESPONSE FORMAT

```

M  <SID> <YY-MM-DD> <HH:MM:SS>
    <CTAG> DENY
    <ERROR CODE>
    [/* <Informational Error Description Text> */]
    [/* <Expanded Error Code Description> */]
    [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
    ;

```


ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent /*Condition type is not consistent with <FACILITY TYPE STRING>.*/ /*Location is not consistent with <FACILITY TYPE STRING> <CONDITION TYPE STRING>.*/ STRING>.*/ IDNV
IDNV	Input, Data Not Valid /* Invalid notification code specified: <NOTIFICATION CODE STRING>.*/ /* Invalid service effect specified: <SERVICE EFFECT STRING>.*/ /* Invalid location specified: <LOCATION STRING>.*/ /* Invalid parameter specified.*/ /* Invalid condition type specified: <CONDITION TYPE STRING>.*/ INUP
INUP	Input, Non-Null Unimplemented Parameter /*No matching attributes to update as requested by user.*/ SDBE
SDBE	Status, internal Data Base Error /*Unable to read file <FILENAME>, Error <ERROR NUMBER>*/

EXAMPLES

In the following example, the system default notification code for the non-service affecting STS-1 IDLE condition type is retrieved.

```
RTRV-DFLTATTR-STS1::::,IDLE,,,NSA;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71080. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M P71080 COMPLD  
",STS1:MN,IDLE,NEND,,,NSA"  
/* RTRV-DFLTATTR-STS1::::,IDLE,,,NSA [P71080] (1) */  
;
```

In the following example, the system default notification code for all STS-1 condition types are retrieved.

```
RTRV-DFLTATTR-STS1;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of P71085. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P71085 COMPLD
  ",STS1:NA,ACTLPBK,NEND,,,NSA"
  ",STS1:NA,AIS,NEND,,,SA"
  ",STS1:NA,AIS,NEND,,,NSA"
  ",STS1:MN,EBER,NEND,,,SA"
  ",STS1:NA,EBER,NEND,,,NSA"
  ",STS1:NA,FLTESC,NEND,TRMT,,,SA"
  ",STS1:NA,FLTESC,NEND,TRMT,,,NSA"
  ",STS1:NR,FRCDWKSWBK,NEND,,,NSA"
  ",STS1:NR,FRCDWKSWPR,NEND,,,NSA"
  ",STS1:NA,IDLE,NEND,,,SA"
  ",STS1:NA,IDLE,NEND,,,NSA"
  ",STS1:NR,INHMPREPT,NEND,,,NSA"
  ",STS1:CR,LOP,NEND,,,SA"
  ",STS1:NA,LOP,NEND,,,NSA"
  ",STS1:NA,MAN,NEND,,,SA"
  ",STS1:NA,MAN,NEND,,,NSA"
  ",STS1:NR,MANWKSWBK,NEND,,,NSA"
  ",STS1:NR,MANWKSWPR,NEND,,,NSA"
  ",STS1:NA,PDI,NEND,,,SA"
  ",STS1:NA,PDI,NEND,,,NSA"
  ",STS1:NA,RFI,FEND,,,SA"
  ",STS1:NA,RFI,FEND,,,NSA"
  ",STS1:MN,SDBER,NEND,,,SA"
  ",STS1:NA,SDBER,NEND,,,NSA"
  ",STS1:NA,SLMF,NEND,,,SA"
  ",STS1:NA,SLMF,NEND,,,NSA"
/* RTRV-DFLTATTR-STS1 [P71085] (2) */
;
```

RELATED COMMANDS

```
RTRV-ALM-ALL
RTRV-ALM-STS1
RTRV-ATTR-STS1
RTRV-COND-ALL
RTRV-COND-STS1
SET-ATTR-STS1
SET-DFLTATTR-STS1
```

RELATED AUTONOMOUS RESPONSES

```
REPT^ALM^STS1
REPT^EVT^STS1
```

COMMAND CODE: **RTRV-DFLTATTR-STS3C**
COMMAND NAME: **RETRIEVE DEFAULT ATTRIBUTE
STS-3C**

PURPOSE

The RTRV-DFLTATTR-STS3C command retrieves the system provisioning default STS-3C condition type attributes. The CONDTYPE, NTFCNCDE, LOCN, and SRVEFF input parameters provide a search-key filter for retrieving the system default condition type attributes satisfying the specified input parameters. (The system default condition type attributes are set via the SET-DFLTATTR-STS3C command.)

The successful response for a RTRV-DFLTATTR-STS3C command contains one line of parsable output data, in alphabetical order, for each condition type being reported. If both service effect attributes are requested, a separate line of output data is provided for service affecting attributes (if any), followed by a line for non-service affecting attributes (if any), per condition type being reported.

If there are no condition type attributes matching the specified (valid) combination of condition type, notification code, location, and service effect, then the command is completed with no line of parsable output data provided in the response message.

A RTRV-DFLTATTR-STS3C command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-DFLTATTR-STS3C: [TID] :: [CTAG] :: [NTFCNCDE] , [CONDTYPE] , [LOCN] , [DIRN] ,
[TMPER] , [SRVEFF] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.										
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.										
NTFCNCDE	{DFLT, MJ, MN, NA, NR} Default: < All applicable notification codes listed above > Addressing: None Description: Notification Code, specifies the system default provisioning notification code of the condition type to be retrieved. Values are: <table><tr><td>DFLT</td><td>Default, the notification code for the specified near-end and/or far-end condition type and service effect combination is set to the system default value (as set via SET-DFLTATTR-STS3C).</td></tr><tr><td>MJ</td><td>Major Alarm</td></tr><tr><td>MN</td><td>Minor Alarm</td></tr><tr><td>NA</td><td>Not Alarmed</td></tr><tr><td>NR</td><td>Not Reported</td></tr></table>	DFLT	Default, the notification code for the specified near-end and/or far-end condition type and service effect combination is set to the system default value (as set via SET-DFLTATTR-STS3C).	MJ	Major Alarm	MN	Minor Alarm	NA	Not Alarmed	NR	Not Reported
DFLT	Default, the notification code for the specified near-end and/or far-end condition type and service effect combination is set to the system default value (as set via SET-DFLTATTR-STS3C).										
MJ	Major Alarm										
MN	Minor Alarm										
NA	Not Alarmed										
NR	Not Reported										

CONDTYPE	<p>NEAR-END_CONDDTYPE:{ACTLPBK, AIS, IDLE, INHPMREPT, LOP, MAN, SLMF}, FAR-END_CONDDTYPE:{RFI}</p> <p>Default: < All applicable condition types listed above ></p> <p>Addressing: None</p> <p>Description: Condition Type, specifies the condition type to be retrieved. (Refer to Appendix C for a list of all condition types.) Values are:</p> <table> <tr> <td>ACTLPBK</td><td>Active Loopback, the STS-3C port is in loop back. (Near-End only.)</td></tr> <tr> <td>AIS</td><td>Alarm Indication Signal, AIS detected. (Near-End only.)</td></tr> <tr> <td>IDLE</td><td>Idle, incoming idle detected. (Near-End only.)</td></tr> <tr> <td>INHPMREPT</td><td>Inhibit Performance Monitoring Report, PM report capability Inhibited. (Near-End only.)</td></tr> <tr> <td>LOP</td><td>Loss Of Pointer detected. (Near-End only.)</td></tr> <tr> <td>MAN</td><td>Manual removal (logical removal was performed on the facility). (Near-End only.)</td></tr> <tr> <td>RFI</td><td>Remote Failure Indication detected. (Far-End only.)</td></tr> <tr> <td>SLMF</td><td>Signal Label Match Failure detected. (Near-End only.)</td></tr> </table> <p>Restrictions: RTRV-DFLTATTR-STS3C is denied if the specified CONDDTYPE value is not supported for the specified LOCN value (e.g., CONDDTYPE of AIS and LOCN of FEND is entered).</p>	ACTLPBK	Active Loopback, the STS-3C port is in loop back. (Near-End only.)	AIS	Alarm Indication Signal, AIS detected. (Near-End only.)	IDLE	Idle, incoming idle detected. (Near-End only.)	INHPMREPT	Inhibit Performance Monitoring Report, PM report capability Inhibited. (Near-End only.)	LOP	Loss Of Pointer detected. (Near-End only.)	MAN	Manual removal (logical removal was performed on the facility). (Near-End only.)	RFI	Remote Failure Indication detected. (Far-End only.)	SLMF	Signal Label Match Failure detected. (Near-End only.)
ACTLPBK	Active Loopback, the STS-3C port is in loop back. (Near-End only.)																
AIS	Alarm Indication Signal, AIS detected. (Near-End only.)																
IDLE	Idle, incoming idle detected. (Near-End only.)																
INHPMREPT	Inhibit Performance Monitoring Report, PM report capability Inhibited. (Near-End only.)																
LOP	Loss Of Pointer detected. (Near-End only.)																
MAN	Manual removal (logical removal was performed on the facility). (Near-End only.)																
RFI	Remote Failure Indication detected. (Far-End only.)																
SLMF	Signal Label Match Failure detected. (Near-End only.)																
LOCN	<p>{FEND, NEND}</p> <p>Default: < All location values applicable to the specified condition type ></p> <p>Addressing: None</p> <p>Description: Location, specifies the monitoring location of the condition type to be retrieved. Values are:</p> <table> <tr> <td>FEND</td><td>Far-End, events occurring at a distant network element.</td></tr> <tr> <td>NEND</td><td>Near-End, events occurring at the system.</td></tr> </table> <p>Restrictions: RTRV-DFLTATTR-STS3C is denied if the specified LOCN value is not supported for the specified CONDDTYPE value (e.g., CONDDTYPE of AIS and LOCN of FEND is entered).</p>	FEND	Far-End, events occurring at a distant network element.	NEND	Near-End, events occurring at the system.												
FEND	Far-End, events occurring at a distant network element.																
NEND	Near-End, events occurring at the system.																
DIRN	<p>{NA, RCV, TRMT}</p> <p>Default: < All applicable directions ></p> <p>Addressing: None</p> <p>Description: Direction, specifies the direction of the condition type being monitored. The value for DIRN is verified, but does not affect the function of the RTRV-DFLTATTR-STS3C command.</p> <table> <tr> <td>NA</td><td>Not Applicable</td></tr> <tr> <td>RCV</td><td>Receive side</td></tr> <tr> <td>TRMT</td><td>Transmit direction</td></tr> </table>	NA	Not Applicable	RCV	Receive side	TRMT	Transmit direction										
NA	Not Applicable																
RCV	Receive side																
TRMT	Transmit direction																
TMPER	<p>{15-MIN, 1-DAY}</p> <p>Default: {15-MIN}</p> <p>Addressing: None</p> <p>Description: Time Period. The value for TMPER is verified, but does not affect the function of the RTRV-DFLTATTR-STS3C command.</p>																
SRVEFF	<p>{NSA, SA}</p> <p>Default: < Both service effect values ></p> <p>Addressing: None</p> <p>Description: Service Effect, specifies the service effect of the condition type to be retrieved. Values are:</p> <table> <tr> <td>NSA</td><td>Non-Service Affecting</td></tr> <tr> <td>SA</td><td>Service Affecting</td></tr> </table>	NSA	Non-Service Affecting	SA	Service Affecting												
NSA	Non-Service Affecting																
SA	Service Affecting																

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
[" ,STS3C:<NTFCNCDE>,<CONDTYPE>,<LOCN>,[<DIRN>] , ,<SRVEFF>"]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

OUTPUT PARAMETERS

NTFCNCDE	{DFLT, MJ, MN, NA, NR} Notification Code, identifies the system default notification code of the condition type and service effect being retrieved. Values are: DFLT Default, the notification code for the specified near-end and/or far-end condition type and service effect combination is set to the system default value (as set via SET-DFLTATTR-STS3C). MJ Major Alarm MN Minor Alarm NA Not Alarmed NR Not Reported
CONDTYPE	NEAR-END_CONDTYPE:{ACTLPBK, AIS, IDLE, INHPMREPT, LOP, MAN, SLMF}, FAR-END_CONDTYPE:{RFI} Condition Type, identifies the condition type being retrieved. (Refer to Appendix C for a list of all condition types.) Values are: ACTLPBK Active Loopback, the STS-3C port is in loop back. AIS Alarm Indication Signal, AIS detected. IDLE Idle, incoming idle detected. INHPMREPT Inhibit Performance Monitoring Report, PM report capability Inhibited. LOP Loss Of Pointer detected. MAN Manual removal (logical removal was performed on the facility). RFI Remote Failure Indication detected. SLMF Signal Label Match Failure detected.
LOCN	{FEND, NEND} Location, identifies the location where the condition type is monitored. Values are: FEND Far-End, events occurring at a distant network element. NEND Near-End, events occurring at the system.
DIRN	{TRMT, <NoVal>} Direction, identifies the direction of the condition type being monitored. Values are: TRMT Transmit Direction, value returned for CONDTYPE of FLTESC. <NoVal> No Value (null) returned for all conditions other than FLTESC.
SRVEFF	{NSA, SA} Service Effect, identifies the service effect of the condition type and system default notification code being retrieved. Values are: NSA Non-Service Affecting SA Service Affecting

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent /*Condition type is not consistent with <FACILITY TYPE STRING>.*/ /*Location is not consistent with <FACILITY TYPE STRING> <CONDITION TYPE STRING>.*/
IDNV	Input, Data Not Valid /* Invalid notification code specified: <NOTIFICATION CODE STRING>. */ /* Invalid service effect specified: <SERVICE EFFECT STRING>. */ /* Invalid location specified: <LOCATION STRING>. */ /*Invalid parameter specified.*/ /* Invalid condition type specified: <CONDITION TYPE STRING>. */
INUP	Input, Non-Null Unimplemented Parameter /*No matching attributes to update as requested by user.*/
SDBE	Status, internal Data Base Error /*Unable to read file <FILENAME>, Error <ERROR NUMBER>*/

EXAMPLES

In the following example, the system default notification code for the non-service affecting STS-3C IDLE condition type is retrieved.

```
RTRV-DFLTATTR-STS3C: : : : , IDLE , , , NSA;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71080. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M P71080 COMPLD  
", STS3C:MN, IDLE, NEND, , , NSA"  
/* RTRV-DFLTATTR-STS3C: : : : , IDLE , , , NSA [P71080] (1) */  
;
```

In the following example, the system default notification code for all STS-3C condition types are retrieved.

```
RTRV-DFLTATTR-STS3C;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of P71085. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P71085 COMPLD
",STS3C:MJ,AIS,NEND,,SA"
",STS3C:MN,AIS,NEND,,NSA"
",STS3C:MJ,IDLE,NEND,,SA"
",STS3C:MN,IDLE,NEND,,NSA"
",STS3C:NA,INHMPREPT,NEND,,NSA"
",STS3C:MJ,LOP,NEND,,SA"
",STS3C:MN,LOP,NEND,,NSA"
",STS3C:NA,MAN,NEND,,SA"
",STS3C:NA,MAN,NEND,,NSA"
",STS3C:NA,RFI,FEND,,SA"
",STS3C:NA,RFI,FEND,,NSA"
",STS3C:MJ,SLMF,NEND,,SA"
",STS3C:MN,SLMF,NEND,,NSA"
/* RTRV-DFLTATTR-STS3C [P71085] (2) */
;
```

RELATED COMMANDS

```
RTRV-ALM-ALL
RTRV-ALM-STS3C
RTRV-ATTR-STS3C
RTRV-COND-ALL
RTRV-COND-STS3C
SET-ATTR-STS3C
SET-DFLTATTR-STS3C
```

RELATED AUTONOMOUS RESPONSES

```
REPT^ALM^STS3C
REPT^EVT^STS3C
```


COMMAND CODE: **RTRV-DFLTATTR-T1**
COMMAND NAME: **RETRIEVE DEFAULT ATTRIBUTE T1**

PURPOSE

The RTRV-DFLTATTR-T1 command retrieves the system provisioning default DS1 condition type attributes. The CONDTYPE, NTFNCNDE, LOCN, and SRVEFF input parameters provide a search-key filter for retrieving the system default condition type attributes satisfying the specified input parameters. (The system default condition type attributes are set via the SET-DFLTATTR-T1 command.)

The successful response for a RTRV-DFLTATTR-T1 command contains one line of parsable output data, in alphabetical order, for each condition type being reported. If both service effect attributes are requested, a separate line of output data is provided for service affecting attributes (if any), followed by a line for non-service affecting attributes (if any), per condition type being reported.

If there are no condition type attributes matching the specified (valid) combination of condition type, notification code, location, and service effect, then the command is completed with no line of parsable output data provided in the response message.

A RTRV-DFLTATTR-T1 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-DFLTATTR-T1: [TID] :: [CTAG] :: [NTFCNCDE] , [CONDTYPE] , [LOCN] , [DIRN] ,
[TMPEFF] , [SRVEFF] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.										
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.										
NTFCNCDE	{CR, MJ, MN, NA, NR} Default: < All applicable notification codes listed above > Addressing: None Description: Notification Code, specifies the system default provisioning notification code of the condition type to be retrieved. Values are: <table><tr><td>CR</td><td>Critical Alarm</td></tr><tr><td>MJ</td><td>Major Alarm</td></tr><tr><td>MN</td><td>Minor Alarm</td></tr><tr><td>NA</td><td>Not Alarmed</td></tr><tr><td>NR</td><td>Not Reported</td></tr></table>	CR	Critical Alarm	MJ	Major Alarm	MN	Minor Alarm	NA	Not Alarmed	NR	Not Reported
CR	Critical Alarm										
MJ	Major Alarm										
MN	Minor Alarm										
NA	Not Alarmed										
NR	Not Reported										

CONDTYPE	DS1_NEAR-END_CONDDTYPE:{ACTLPBK, AIS, AIS-CI, ALWCBLPBK, DS1ISD, EOC, INHPMREPT, LOF, LOS, MAN, RCVCLPBK, ROLLMON, XMTCLPBK}, DS1_FAR-END_CONDDTYPE:{RAI, RAI-CI}, TMG_NEAR-END_CONDDTYPE:{AIS, LOF, LOS, SLTMSIG, SYNCPRI, SYNCSEC, SYNCSTATQUAL}
Default:	< All applicable condition types listed above >
Addressing:	None
Description:	Condition Type, specifies the condition type to be retrieved. (Refer to Appendix C for a list of all condition types.) Values are:
ACTLPBK	Active Loopback, the DS1 port is in loop back. (DS1 Near-End only.)
AIS	Alarm Indication Signal, AIS detected. (DS1 or TMG Near-End only.)
AIS-CI	Alarm Indication Signal for Customer Installation, Incoming AIS detected. (DS1 Near-End)
ALWCBLPBK	Allow C-Bit Loopback. (DS1 Near-End only.)
DS1ISD	DS1 Idle Signal Detected, Incoming. (DS1 Near-End.)
EOC	Embedded Operations Channel, EOC failure detected. (DS1 Near-End only.)
INHPMREPT	Inhibit Performance Monitoring Report, PM report capability inhibited. (DS1 Near-End only.)
LOF	Loss Of Frame detected. (DS1 or TMG Near-End only.)
LOS	Loss Of Signal detected. (DS1 or TMG Near-End only.)
MAN	Manual removal (logical removal was performed on the facility). (DS1 Near-End only.)
RAI	Remote Alarm Indication detected. (DS1 Far-End only.)
RAI-CI	Remote Alarm Indication for Customer Installation detected. (DS1 Far-End.)
RCVCLPBK	Receive (DS1) C-Bit Loopback. (DS1 Near-End only.)
ROLLMON	Roll Monitoring, receive-side RTO port being monitored for valid signal. (DS1 Near-End only.)
SLTMSIG	Slipping Timing Reference Signal detected. (TMG Near-End only.)
SYNCPRI	Primary Reference Synchronization failure. (TMG Near-End only.)
SYNCSEC	Secondary Reference Synchronization failure. (TMG Near-End only.)
SYNCSTATQUAL	Synchronization Status Quality. (TMG Near-End only.)
XMTCLPBK	Transmit (DS1) C-Bit Loopback. (DS1 Near-End only.)
Restrictions:	RTRV-DFLTATTR-T1 is denied if the specified CONDDTYPE value is not supported for the specified LOCN value (e.g., CONDDTYPE of RAI and LOCN of NEND is entered). RTRV-DFLTATTR-T1 is denied if the DS1 CI/NI Trouble Sectionalization Premium Feature Option (PFO) is not enabled and an input value of AIS-CI, DS1ISD or RAI-CI is entered.

LOCN	{FEND, NEND}
	Default: < All location values applicable to the specified condition type >
	Addressing: None
	Description: Location, specifies the monitoring location of the condition type to be retrieved. Values are:
	FEND Far-End, events occurring at a distant network element.
	NEND Near-End, events occurring at the system.
	Restrictions: RTRV-DFLTATTR-T1 is denied if the specified LOCN value is not supported for the specified CONDTYPE value (e.g., CONDTYPE of RAI and LOCN of NEND is entered).
DIRN	{NA, RCV, TRMT}
	Default: < All applicable directions >
	Addressing: None
	Description: Direction, specifies the direction of the condition type being monitored. The value for DIRN is verified, but does not affect the function of the RTRV-DFLTATTR-T1 command.
	NA Not Applicable
	RCV Receive side
	TRMT Transmit direction
TMPER	{15-MIN, 1-DAY}
	Default: {15-MIN}
	Addressing: None
	Description: Time Period. The value for TMPER is verified, but does not affect the function of the RTRV-DFLTATTR-T1 command.
SRVEFF	{NSA, SA}
	Default: < Both service effect values >
	Addressing: None
	Description: Service Effect, specifies the service effect of the condition type to be retrieved. Values are:
	NSA Non-Service Affecting
	SA Service Affecting

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD

[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
[" ,T1:<NTFCNCDE>,<CONDTYPE>,<LOCN>,,,<SRVEFF>"]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

OUTPUT PARAMETERS

NTFCNCDE	{CR, MJ, MN, NA, NR}										
	Notification Code, identifies the system default notification code of the condition type and service effect being retrieved. Values are:										
	<table> <tr> <td>CR</td><td>Critical Alarm</td></tr> <tr> <td>MJ</td><td>Major Alarm</td></tr> <tr> <td>MN</td><td>Minor Alarm</td></tr> <tr> <td>NA</td><td>Not Alarmed</td></tr> <tr> <td>NR</td><td>Not Reported</td></tr> </table>	CR	Critical Alarm	MJ	Major Alarm	MN	Minor Alarm	NA	Not Alarmed	NR	Not Reported
CR	Critical Alarm										
MJ	Major Alarm										
MN	Minor Alarm										
NA	Not Alarmed										
NR	Not Reported										

CONDTYPE	DS1_NEAR-END_CONDTYPE:{ACTLPBK, AIS, AIS-CI, ALWCBLPBK, DS1ISD, EOC, INHPMREPT, LOF, LOS, MAN, RCVCLPBK, ROLLMON, XMTCLPBK}, DS1_FAR-END_CONDTYPE:{RAI, RAI-CI}, TMG_NEAR-END_CONDTYPE:{AIS, LOF, LOS, SLTMSIG, SYNCPRI, SYNCSEC, SYNCSTATQUAL} Condition Type, identifies the condition type being retrieved. (Refer to Appendix C for a list of all condition types.) Values are:	
	ACTLPBK	Active Loopback, the DS1 port is in loop back.
	AIS	Alarm Indication Signal, AIS detected.
	AIS-CI	Remote Alarm Indication for Customer Installation detected.
	ALWCBLPBK	Allow C-Bit Loopback.
	DS1ISD	DS1 Idle Signal Detected, Incoming.
	EOC	Embedded Operations Channel, EOC failure detected.
	INHPMREPT	Inhibit Performance Monitoring Report, PM report capability inhibited.
	LOF	Loss Of Frame detected.
	LOS	Loss Of Signal detected.
	MAN	Manual removal (logical removal was performed on the facility).
	RAI	Remote Alarm Indication detected.
	RAI-CI	Remote Alarm Indication for Customer Installation detected.
	RCVCLPBK	Receive (DS1) C-Bit Loopback.
	ROLLMON	Roll Monitoring, receive-side RTO port being monitored for valid signal.
	SLTMSIG	Slipping Timing Reference Signal detected.
	SYNCPRI	Primary Reference Synchronization failure.
	SYNCSEC	Secondary Reference Synchronization failure.
	SYNCSTATQUAL	Synchronization Status Quality.
	XMTCLPBK	Transmit (DS1) C-Bit Loopback.
LOCN	{FEND, NEND} Location, identifies the location where the condition type is monitored. Values are:	
	FEND	Far-End, events occurring at a distant network element.
	NEND	Near-End, events occurring at the system.
SRVEFF	{NSA, SA} Service Effect, identifies the service effect of the condition type and system default notification code being retrieved. Values are:	
	NSA	Non-Service Affecting
	SA	Service Affecting

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

EFON	Equipment, Feature Option Not provided
IDNC	Input, Data Not Consistent /*Condition type is not consistent with <FACILITY TYPE STRING>.*/ /*Location is not consistent with <FACILITY TYPE STRING> <CONDITION TYPE STRING>.*/
IDNV	Input, Data Not Valid /* Invalid notification code specified: <NOTIFICATION CODE STRING>. */ /* Invalid service effect specified: <SERVICE EFFECT STRING>. */ /* Invalid location specified: <LOCATION STRING>. */ /*Invalid parameter specified.*/ /* Invalid condition type specified: <CONDITION TYPE STRING>. */
INUP	Input, Non-Null Unimplemented Parameter /*No matching attributes to update as requested by user.*/
SDBE	Status, internal Data Base Error /*Unable to read file <FILENAME>, Error <ERROR NUMBER>*/

EXAMPLES

In the following example, the system default notification code for the non-service affecting DS1 MAN condition type is retrieved.

RTRV=DFLTATTR-T1:::::,MAN,,,,NSA;

The output responses, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71061. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```

      <SID> <YY-MM-DD> <HH:MM:SS>
M   P71061  COMPLD
      ",T1:NA,MAN,NEND,, ,NSA"
      /* RTRV=DFLTATTR-T1::::,MAN,,,NSA [P71061] (1) */
;

```

In the following example, the system default notification code for all DS1 condition types are retrieved.

```
RTRV-DFLTATTR-T1;
```

The output responses, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of P71068. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P71068 COMPLD
",T1:NA,ACTLPBK,NEND,,NSA"
",T1:NA,AIS,NEND,,SA"
",T1:NR,AIS,NEND,,NSA"
",T1:NA,ALWCBLPBK,NEND,,NSA"
",T1:NA,EOC,NEND,,SA"
",T1:NR,EOC,NEND,,NSA"
",T1:NA,INHMPREPT,NEND,,NSA"
",T1:NA,LOF,NEND,,SA"
",T1:NR,LOF,NEND,,NSA"
",T1:NA,MAN,NEND,,SA"
",T1:NA,MAN,NEND,,NSA"
",T1:NR,RAI,FEND,,SA"
",T1:NR,RAI,FEND,,NSA"
",T1:NA,RCVCBLPBK,NEND,,NSA"
",T1:NA,ROLLMON,NEND,,NSA"
",T1:CR,SLTMSIG,NEND,,SA"
",T1:MN,SLTMSIG,NEND,,NSA"
",T1:MJ,SYNCPRI,NEND,,SA"
",T1:MN,SYNCPRI,NEND,,NSA"
",T1:MJ,SYNCSEC,NEND,,SA"
",T1:MN,SYNCSEC,NEND,,NSA"
",T1:NA,XMTCBLPBK,NEND,,NSA"
/* RTRV-DFLTATTR-T1 [P71068] (2) */
;
```

RELATED COMMANDS

```
RTRV-ALM-ALL
RTRV-ALM-T1
RTRV-ATTR-T1
RTRV-COND-ALL
RTRV-COND-T1
RTRV-PFO
SET-ATTR-T1
SET-DFLTATTR-T1
```

RELATED AUTONOMOUS RESPONSES

```
REPT^ALM^T1
REPT^EVT^T1
```

COMMAND CODE: **RTRV-DFLTATTR-T3**
COMMAND NAME: **RETRIEVE DEFAULT ATTRIBUTE T3**

PURPOSE

The RTRV-DFLTATTR-T3 command retrieves the system provisioning default DS3 condition type attributes. The CONDTYPE, NTFNCNDE, LOCN, and SRVEFF input parameters provide a search-key filter for retrieving the system default condition type attributes satisfying the specified input parameters. (The system default condition type attributes are set via the SET-DFLTATTR-T3 command.)

The successful response for a RTRV-DFLTATTR-T3 command contains one line of parsable output data, in alphabetical order, for each condition type being reported. If both service effect attributes are requested, a separate line of output data is provided for service affecting attributes (if any), followed by a line for non-service affecting attributes (if any), per condition type being reported.

If there are no condition type attributes matching the specified (valid) combination of condition type, notification code, location, and service effect, then the command is completed with no line of parsable output data provided in the response message.

A RTRV-DFLTATTR-T3 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-DFLTATTR-T3 : [TID] : : [CTAG] : : [NTFCNCDE] , [CONDTYPE] , [LOCN] , [DIRN] ,
[TMPER] , [SRVEFF] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.										
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.										
NTFCNCDE	{CR, MJ, MN, NA, NR} Default: < All applicable notification codes listed above > Addressing: None Description: Notification Code, specifies the system default provisioning notification code of the condition type to be retrieved. Values are: <table><tr><td>CR</td><td>Critical Alarm</td></tr><tr><td>MJ</td><td>Major Alarm</td></tr><tr><td>MN</td><td>Minor Alarm</td></tr><tr><td>NA</td><td>Not Alarmed</td></tr><tr><td>NR</td><td>Not Reported</td></tr></table>	CR	Critical Alarm	MJ	Major Alarm	MN	Minor Alarm	NA	Not Alarmed	NR	Not Reported
CR	Critical Alarm										
MJ	Major Alarm										
MN	Minor Alarm										
NA	Not Alarmed										
NR	Not Reported										

CONDTYPE	NEAR-END_CONDDTYPE:{1TO6LOF, 7LOF, ACTLPBK, AICMIS, AIS, FLTESC, INHPMREPT, ISD, LOF, LOS, MAN}, FAR-END_CONDDTYPE:{AIS, DS2YEL, FEACEQPT, ISD, LOF, LOS, RAI} Default: < All applicable condition types listed above > Addressing: None Description: Condition Type, specifies the condition type to be retrieved. (Refer to Appendix C for a list of all condition types.) Values are:
	1TO6LOF One To Six Loss Of Frame, Incoming LOF detected on 1 to 6 DS2s embedded in the DS3. (Near-End only.)
	7LOF Seven Loss Of Frame, Incoming LOF detected on all 7 DS2s embedded in the DS3. (Near-End only.)
	ACTLPBK Active Loopback, the DS3 port is in loop back. (Near-End only.)
	AICMIS Application Identification Channel Mismatch, AIC mismatch detected. (Near-End only.)
	AIS Alarm Indication Signal, AIS detected. (Near-End or Far-End.)
	DS2YEL DS2 Yellow (Remote Alarm Indication) detected on one of the DS2s embedded in the DS3. (Far-End only.)
	FEACEQPT Far-End Alarm & Control (FEAC) Equipment detected. (Far-End only.)
	FLTESC Facility Fault Escalation active. (Near-End only.)
	INHPMREPT Inhibit Performance Monitoring Report, PM report capability inhibited. (Near-End only.)
	ISD Idle Signal Detected. (Near-End or Far-End.)
	LOF Loss Of Frame detected. (Near-End or Far-End.)
	LOS Loss Of Signal detected. (Near-End or Far-End.)
	MAN Manual removal (logical removal was performed on the facility. (Near-End only.)
	RAI Remote Alarm Indication detected. (Far-End only.)
	Restrictions: RTRV-DFLTATTR-T3 is denied if the specified CONDDTYPE value is not supported for the specified LOCN value (e.g., CONDDTYPE of 7LOF and LOCN of FEND is entered).
LOCN	{FEND, NEND} Default: < All location values applicable to the specified condition type > Addressing: None Description: Location, specifies the monitoring location of the condition type to be retrieved. Values are:
	FEND Far-End, events occurring at a distant network element.
	NEND Near-End, events occurring at the system.
	Restrictions: RTRV-DFLTATTR-T3 is denied if the specified LOCN value is not supported for the specified CONDDTYPE value (e.g., CONDDTYPE of 7LOF and LOCN of FEND is entered).

DIRN	{NA, RCV, TRMT}
	Default: < All applicable directions >
	Addressing: None
	Description: Direction, specifies the direction of the condition type being monitored. The value for DIRN is verified, but does not affect the function of the RTRV-DFLTATTR-T3 command.
	NA Not Applicable
	RCV Receive side
	TRMT Transmit direction
TMPER	{15-MIN, 1-DAY}
	Default: {15-MIN}
	Addressing: None
	Description: Time Period. The value for TMPER is verified, but does not affect the function of the RTRV-DFLTATTR-T3 command.
SRVEFF	{NSA, SA}
	Default: < Both service effect values >
	Addressing: None
	Description: Service Effect, specifies the service effect of the condition type to be retrieved. Values are:
	NSA Non-Service Affecting
	SA Service Affecting

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD

[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
[" , T3:<NTFCNCDE> , <CONDTYPE> , <LOCN> , [<DIRN>] , , <SRVEFF>"]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

OUTPUT PARAMETERS

NTFCNCDE	{CR, MJ, MN, NA, NR}
	Notification Code, identifies the system default notification code of the condition type and service effect being retrieved. Values are:
	CR Critical Alarm
	MJ Major Alarm
	MN Minor Alarm
	NA Not Alarmed
	NR Not Reported

CONDTYPE	NEAR-END_CONDDTYPE:{1TO6LOF, 7LOF, ACTLPBK, AICMIS, AIS, FLTESC, INHPMREPT, ISD, LOF, LOS, MAN}, FAR-END_CONDDTYPE:{AIS, DS2YEL, FEACEQPT, ISD, LOF, LOS, RAI} Condition Type, identifies the condition type being retrieved. (Refer to Appendix C for a list of all condition types.) Values are:	
	1TO6LOF	One To Six Loss Of Frame, Incoming LOF detected on 1 to 6 DS2s embedded in the DS3.
	7LOF	Seven Loss Of Frame, Incoming LOF detected on all 7 DS2s embedded in the DS3.
	ACTLPBK	Active Loopback, the DS3 port is in loop back.
	AICMIS	Application Identification Channel Mismatch, AIC mismatch detected.
	AIS	Alarm Indication Signal, AIS detected.
	DS2YEL	DS2 Yellow (Remote Alarm Indication) detected on one of the DS2s embedded in the DS3.
	FEACEQPT	Far-End Alarm & Control (FEAC) Equipment detected.
	FLTESC	Facility Fault Escalation active.
	INHPMREPT	Inhibit Performance Monitoring Report, PM report capability inhibited.
	ISD	Idle Signal Detected.
	LOF	Loss Of Frame detected.
	LOS	Loss Of Signal detected.
	MAN	Manual removal (logical removal was performed on the facility).
	RAI	Remote Alarm Indication detected.
LOCN	{FEND, NEND} Location, identifies the location where the condition type is monitored. Values are:	
	FEND	Far-End, events occurring at a distant network element.
	NEND	Near-End, events occurring at the system.
DIRN	{TRMT, <NoVal>} Direction, identifies the direction of the condition type being monitored. Values are:	
	TRMT	Transmit Direction, value returned for CONDDTYPE of FLTESC.
	<NoVal>	No Value (null) returned for all conditions other than FLTESC.
SRVEFF	{NSA, SA} Service Effect, identifies the service effect of the condition type and system default notification code being retrieved. Values are:	
	NSA	Non-Service Affecting
	SA	Service Affecting

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent /*Condition type is not consistent with <FACILITY TYPE STRING>.*/ /*Location is not consistent with <FACILITY TYPE STRING> <CONDITION TYPE STRING>.*/
IDNV	Input, Data Not Valid /* Invalid notification code specified: <NOTIFICATION CODE STRING>. */ /* Invalid service effect specified: <SERVICE EFFECT STRING>. */ /* Invalid location specified: <LOCATION STRING>. */ /*Invalid parameter specified.*/ /* Invalid condition type specified: <CONDITION TYPE STRING>. */
INUP	Input, Non-Null Unimplemented Parameter /*No matching attributes to update as requested by user.*/
SDBE	Status, internal Data Base Error /*Unable to read file <FILENAME>, Error <ERROR NUMBER>*/

EXAMPLES

In the following example, the system default notification code for the non-service affecting DS3 ISD condition type is retrieved.

```
RTRV-DFLTATTR-T3::::,ISD,,,NSA;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71080. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P71080 COMPLD
",T3:MN,ISD,NEND,,,NSA"
",T3:NA,ISD,FEND,,,NSA"
/* RTRV-DFLTATTR-T3::::,ISD,,,NSA [P71080] (1) */
;
```

In the following example, the system default notification code for all DS3 condition types are retrieved.

```
RTRV-DFLTATTR-T3;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of P71085. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P71085 COMPLD
",T3:NA,1TO6LOF,NEND,,SA"
",T3:NA,1TO6LOF,NEND,,NSA"
",T3:MJ,7LOF,NEND,,SA"
",T3:MN,7LOF,NEND,,NSA"
",T3:NA,ACTLPBK,NEND,,NSA"
",T3:MJ,AICMIS,NEND,,SA"
",T3:MN,AICMIS,NEND,,NSA"
",T3:MJ,AIS,NEND,,SA"
",T3:MN,AIS,NEND,,NSA"
",T3:NA,AIS,FEND,,SA"
",T3:NA,AIS,FEND,,NSA"
",T3:NA,DS2YEL,FEND,,SA"
",T3:NA,DS2YEL,FEND,,NSA"
",T3:NA,FEACEQPT,FEND,,SA"
",T3:NA,FEACEQPT,FEND,,NSA"
",T3:NA,FLTESC,NEND,TRMT,,SA"
",T3:NA,FLTESC,NEND,TRMT,,NSA"
",T3:NA,INHMPREPT,NEND,,NSA"
",T3:MJ,ISD,NEND,,SA"
",T3:MN,ISD,NEND,,NSA"
",T3:NA,ISD,FEND,,SA"
",T3:NA,ISD,FEND,,NSA"
",T3:MJ,LOF,NEND,,SA"
",T3:MN,LOF,NEND,,NSA"
",T3:NA,LOF,FEND,,SA"
",T3:NA,LOF,FEND,,NSA"
",T3:MJ,LOS,NEND,,SA"
",T3:MN,LOS,NEND,,NSA"
",T3:NA,LOS,FEND,,SA"
",T3:NA,LOS,FEND,,NSA"
",T3:NA,MAN,NEND,,SA"
",T3:NA,MAN,NEND,,NSA"
",T3:NA,RAI,FEND,,SA"
",T3:NA,RAI,FEND,,NSA"
/* RTRV-DFLTATTR-T3 [P71085] (2) */
;
```

RELATED COMMANDS

```
RTRV-ALM-ALL
RTRV-ALM-T3
RTRV-ATTR-T3
RTRV-COND-ALL
RTRV-COND-T3
SET-ATTR-T3
SET-DFLTATTR-T3
```

RELATED AUTONOMOUS RESPONSES

REPT^ALM^T3

REPT^EVT^T3

COMMAND CODE: **RTRV-DFLTATTR-VT1**
COMMAND NAME: **RETRIEVE DEFAULT ATTRIBUTE VT1**

PURPOSE

The RTRV-DFLTATTR-VT1 command retrieves the system provisioning default VT1.5 condition type attributes. The CONDTYPE, NTFNCNDE, LOCN, and SRVEFF input parameters provide a search-key filter for retrieving the system default condition type attributes satisfying the specified input parameters. (The system default condition type attributes are set via the SET-DFLTATTR-VT1 command.)

The successful response for a RTRV-DFLTATTR-VT1 command contains one line of parsable output data, in alphabetical order, for each condition type being reported. If both service effect attributes are requested, a separate line of output data is provided for service affecting attributes (if any), followed by a line for non-service affecting attributes (if any), per condition type being reported.

If there are no condition type attributes matching the specified (valid) combination of condition type, notification code, location, and service effect, then the command is completed with no line of parsable output data provided in the response message.

A RTRV-DFLTATTR-VT1 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-DFLTATTR-VT1 : [TID] : : [CTAG] : : [NTFNCNDE] , [CONDTYPE] , [LOCN] , [DIRN] ,
[TMPER] , [SRVEFF] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.										
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.										
NTFNCNDE	{CR, MJ, MN, NA, NR} Default: < All applicable notification codes listed above > Addressing: None Description: Notification Code, specifies the system default provisioning notification code of the condition type to be retrieved. Values are: <table><tr><td>CR</td><td>Critical Alarm</td></tr><tr><td>MJ</td><td>Major Alarm</td></tr><tr><td>MN</td><td>Minor Alarm</td></tr><tr><td>NA</td><td>Not Alarmed</td></tr><tr><td>NR</td><td>Not Reported</td></tr></table>	CR	Critical Alarm	MJ	Major Alarm	MN	Minor Alarm	NA	Not Alarmed	NR	Not Reported
CR	Critical Alarm										
MJ	Major Alarm										
MN	Minor Alarm										
NA	Not Alarmed										
NR	Not Reported										

CONDTYPE	NEAR-END_CONDDTYPE:{ACTLPBK, AIS, EBER, FLTESC, FRCDWKSWBK, FRCDWKSWPR, IDLE, INHPMREPT, LOP, MAN, MANWKSWBK, MANWKSWPR, ROLLMON, SDBER, SLMF}, FAR-END_CONDDTYPE:{RFI}
Default:	< All applicable condition types listed above >
Addressing:	None
Description:	Condition Type, specifies the condition type to be retrieved. (Refer to Appendix C for a list of all condition types.) Values are:
ACTLPBK	Active Loopback, the VT1.5 port is in loop back. (Near-End only.)
AIS	Alarm Indication Signal, AIS detected. (Near-End only.)
EBER	Excessive Bit Error Rate detected. (Near-End only.)
FLTESC	Facility Fault Escalation active. (Near-End only.)
FRCDWKSWBK	Forced Working Switched Back, working facility was manually force switched from protection to the main facility. (Near-End only.)
FRCDWKSWPR	Forced Working Switched to Protection, working facility was manually force switched to the protection facility. (Near-End only.)
IDLE	Idle, incoming idle detected. (Near-End only.)
INHPMREPT	Inhibit Performance Monitoring Report, PM report capability inhibited. (Near-End only.)
LOP	Loss Of Pointer detected. (Near-End only.)
MAN	Manual removal (logical removal was performed on the facility). (Near-End only.)
MANWKSWBK	Manual Working Switched Back, working facility was manually switched from protection to the main facility. (Near-End only.)
MANWKSWPR	Manual Working Switched to Protection, working facility was manually switched to the protection facility. (Near-End only.)
RFI	Remote Failure Indication detected. (Far-End only.)
ROLLMON	Roll Monitoring, receive-side RTO port being monitored for valid signal. (Near-End only.)
SDBER	Signal Degrade Bit Error Rate detected. (Near-End only.)
SLMF	Signal Label Match Failure detected. (Near-End only.)
Restrictions:	RTRV-DFLTATTR-VT1 is denied if the specified CONDDTYPE value is not supported for the specified LOCN value (e.g., CONDDTYPE of AIS and LOCN of FEND is entered).
LOCN	{FEND, NEND}
Default:	< All location values applicable to the specified condition type >
Addressing:	None
Description:	Location, specifies the monitoring location of the condition type to be retrieved. Values are:
FEND	Far-End, events occurring at a distant network element.
NEND	Near-End, events occurring at the system.
Restrictions:	RTRV-DFLTATTR-VT1 is denied if the specified LOCN value is not supported for the specified CONDDTYPE value (e.g., CONDDTYPE of AIS and LOCN of FEND is entered).

DIRN	{NA, RCV, TRMT}	
	Default:	< All applicable directions >
	Addressing:	None
	Description:	Direction, specifies the direction of the condition type being monitored. The value for DIRN is verified, but does not affect the function of the RTRV-DFLTATTR-VT1 command.
	NA	Not Applicable
TMPER	{15-MIN, 1-DAY}	
	Default:	{15-MIN}
	Addressing:	None
	Description:	Time Period. The value for TMPER is verified, but does not affect the function of the RTRV-DFLTATTR-VT1 command.
	RCV	Receive side
SRVEFF	{NSA, SA}	
	Default:	< Both service effect values >
	Addressing:	None
	Description:	Service Effect, specifies the service effect of the condition type to be retrieved. Values are:
	NSA	Non-Service Affecting
	SA	Service Affecting

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
[" , VT1 : <NTFCNCDE> , <CONDTYPE> , <LOCN> , [<DIRN>] , , <SRVEFF> " ]
[/ * <Command Echo> [<CTAG>] (<CID [-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

NTFCNCDE	{CR, MJ, MN, NA, NR}	
	Notification Code, identifies the system default notification code of the condition type and service effect being retrieved. Values are:	
	CR	Critical Alarm
	MJ	Major Alarm
	MN	Minor Alarm
	NA	Not Alarmed
	NR	Not Reported

CONDTYPE	NEAR-END_CONDDTYPE:{ACTLPBK, AIS, EBER, FLTESC, FRCDWKSWBK, FRCDWKSWPR, IDLE, INHPMREPT, LOP, MAN, MANWKSWBK, MANWKSWPR, ROLLMON, SDBER, SLMF}, FAR-END_CONDDTYPE:{RFI} Condition Type, identifies the condition type being retrieved. (Refer to Appendix C for a list of all condition types.) Values are:	
	ACTLPBK	Active Loopback, the VT1.5 port is in loop back.
	AIS	Alarm Indication Signal, AIS detected.
	EBER	Excessive Bit Error Rate detected.
	FLTESC	Facility Fault Escalation active.
	FRCDWKSWBK	Forced Working Switched Back, working facility was manually force switched from protection to the main facility.
	FRCDWKSWPR	Forced Working Switched to Protection, working facility was manually force switched to the protection facility.
	IDLE	Idle, incoming idle detected.
	INHPMREPT	Inhibit Performance Monitoring Report, PM report capability inhibited.
	LOP	Loss Of Pointer detected.
	MAN	Manual removal (logical removal was performed on the facility).
	MANWKSWBK	Manual Working Switched Back, working facility was manually switched from protection to the main facility.
	MANWKSWPR	Manual Working Switched to Protection, working facility was manually switched to the protection facility.
	RFI	Remote Failure Indication detected.
	ROLLMON	Roll Monitoring, receive-side RTO port being monitored for valid signal.
	SDBER	Signal Degrade Bit Error Rate detected.
	SLMF	Signal Label Match Failure detected.
LOCN	{FEND, NEND} Location, identifies the location where the condition type is monitored. Values are:	
	FEND	Far-End, events occurring at a distant network element.
	NEND	Near-End, events occurring at the system.
DIRN	{TRMT, <NoVal>} Direction, identifies the direction of the condition type being monitored. Values are:	
	TRMT	Transmit Direction, value returned for CONDDTYPE of FLTESC.
	<NoVal>	No Value (null) returned for all conditions other than FLTESC.
SRVEFF	{NSA, SA} Service Effect, identifies the service effect of the condition type and system default notification code being retrieved. Values are:	
	NSA	Non-Service Affecting
	SA	Service Affecting

UNSUCCESSFUL RESPONSE FORMAT

```

M  <SID> <YY-MM-DD> <HH:MM:SS>
    <CTAG> DENY
    <ERROR CODE>
    [/* <Informational Error Description Text> */]
    [/* <Expanded Error Code Description> */]
    [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
    ;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent /*Condition type is not consistent with <FACILITY TYPE STRING>.*/ /*Location is not consistent with <FACILITY TYPE STRING> <CONDITION TYPE STRING>.*/
IDNV	Input, Data Not Valid /* Invalid notification code specified: <NOTIFICATION CODE STRING>. */ /* Invalid service effect specified: <SERVICE EFFECT STRING>. */ /* Invalid location specified: <LOCATION STRING>. */ /*Invalid parameter specified.*/ /* Invalid condition type specified: <CONDITION TYPE STRING>. */
INUP	Input, Non-Null Unimplemented Parameter /*No matching attributes to update as requested by user.*/
SDBE	Status, internal Data Base Error /*Unable to read file <FILENAME>, Error <ERROR NUMBER>*/

EXAMPLES

In the following example, the system default notification code for the non-service affecting VT1.5 IDLE condition type is retrieved.

```
RTRV-DFLTATTR-VT1::::,IDLE,,,NSA;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71080. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M P71080 COMPLD  
",VT1:MN,IDLE,NEND,,,NSA"  
/* RTRV-DFLTATTR-VT1::::,IDLE,,,NSA [P71080] (1) */  
;
```

In the following example, the system default notification code for all VT1.5 condition types are retrieved.

```
RTRV-DFLTATTR-VT1 ;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of P71085. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P71085 COMPLD
",VT1:NA,ACTLPBK,NEND,,,NSA"
",VT1:NR,AIS,NEND,,,SA"
",VT1:NR,AIS,NEND,,,NSA"
",VT1:NA,FLTESC,NEND,TRMT,,SA"
",VT1:NA,FLTESC,NEND,TRMT,,NSA"
",VT1:NR,IDLE,NEND,,,SA"
",VT1:NR,IDLE,NEND,,,NSA"
",VT1:NA,INHMPREPT,NEND,,,NSA"
",VT1:NR,LOP,NEND,,,SA"
",VT1:NR,LOP,NEND,,,NSA"
",VT1:NA,MAN,NEND,,,SA"
",VT1:NA,MAN,NEND,,,NSA"
",VT1:NR,RFI,FEND,,,SA"
",VT1:NR,RFI,FEND,,,NSA"
",VT1:NA,ROLLMON,NEND,,,NSA"
",VT1:NR,SLMF,NEND,,,SA"
",VT1:NR,SLMF,NEND,,,NSA"
/* RTRV-DFLTATTR-VT1 [P71085] (2) */
;
```

RELATED COMMANDS

```
RTRV-ALM-ALL
RTRV-ALM-VT1
RTRV-ATTR-VT1
RTRV-COND-ALL
RTRV-COND-VT1
SET-ATTR-VT1
SET-DFLTATTR-VT1
```

RELATED AUTONOMOUS RESPONSES

```
REPT^ALM^VT1
REPT^EVT^VT1
```

COMMAND CODE: **RTRV-DFLTPMREPT-EC1**
COMMAND NAME: **RETRIEVE DEFAULT PERFORMANCE
MONITORING REPORT EC1**

PURPOSE

The RTRV-DFLTPMREPT-EC1 command retrieves the current default provisioning pertaining to scheduled Performance Monitoring (PM) reporting (e.g., reporting enabled, the discriminating threshold level of reported PM parameters, etc.) of EC1 PM parameters.

A RTRV-DFLTPMREPT-EC1 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-DFLTPMREPT-EC1 : [TID] :: [CTAG] ;

INPUT PARAMETERS

TID	< 1–20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1–6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
[ "<AIDTYPE>:<NUMREPT>,<MONLEV>,<TMPER>" ]
. . . .
[ "<AIDTYPE>:<NUMREPT>,<MONLEV>,<TMPER>" ]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

AIDTYPE	{EC1} AID Type, identifies the type of AID for the default scheduled PM reporting parameters being retrieved.
NUMREPT	{0–254, <NoVal>} Number of Reports, specifies the number of PM report messages that are generated. Values are: 0 Zero, scheduled PM reporting is disabled. 1–254 1 to 254 reports are to be generated. When the CPU is in an IS state and the system has successfully completed a restart, NUMREPT is decremented even if the schedule has been inhibited by the INH-PMREPT-EC1 command. <NoVal> No Value (Null), PM report messages continue to be generated until disabled via a NUMREPT value of 0.

MONLEV	<p>{LEVEL-DIRECTION:{0-4294967295} – {DN, UP} }</p> <p>Monitoring Level, identifies the discriminating level of PM parameter event counts that are reported in PM messages for monitored PM parameters. The format of MONLEV is <LEVEL> – <DIRECTION>. Values are:</p> <table> <tr> <td>{0-4294967295}-DN</td><td>Only PM data for monitored PM parameters that are less-than or equal-to (<) the value of <LEVEL> are reported.</td></tr> <tr> <td>{0-4294967295}-UP</td><td>Only PM data for monitored PM parameters that are greater-than or equal-to (>) the value of <LEVEL> are reported.</td></tr> </table>	{0-4294967295}-DN	Only PM data for monitored PM parameters that are less-than or equal-to (<) the value of <LEVEL> are reported.	{0-4294967295}-UP	Only PM data for monitored PM parameters that are greater-than or equal-to (>) the value of <LEVEL> are reported.
{0-4294967295}-DN	Only PM data for monitored PM parameters that are less-than or equal-to (<) the value of <LEVEL> are reported.				
{0-4294967295}-UP	Only PM data for monitored PM parameters that are greater-than or equal-to (>) the value of <LEVEL> are reported.				
TMPER	<p>{15-MIN, 1-DAY}</p> <p>Time Period, identifies the accumulation time period of the PM parameters reported in the PM report messages. Values are:</p> <table> <tr> <td>15-MIN</td><td>15-Minute PM collection registers are reported.</td></tr> <tr> <td>1-DAY</td><td>1-Day (24 hour) PM collection registers are reported.</td></tr> </table>	15-MIN	15-Minute PM collection registers are reported.	1-DAY	1-Day (24 hour) PM collection registers are reported.
15-MIN	15-Minute PM collection registers are reported.				
1-DAY	1-Day (24 hour) PM collection registers are reported.				

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

SROF Status, Requested Operation Failed
 /* Unable to determine facility type. */

EXAMPLES

In the following example, the current default provisioning pertaining to scheduled Performance Monitoring (PM) reporting of EC1 PM parameters is retrieved.

```

RTRV-DFLTPMREPT-EC1 ;

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71042. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

<SID> <YY-MM-DD> <HH:MM:SS>
M P71042 COMPLD
"EC1:250,16-UP,15-MIN"
"EC1:250,1-UP,1-DAY"
/* RTRV-DFLTPMREPT-EC1 [P71042] (1) */
;

```

RELATED COMMANDS

ALW-PMREPT-EC1
INH-PMREPT-EC1
RTRV-PMSCHED-ALL
RTRV-PMSCHED-EC1
SCHED-PMREPT-ALL
SCHED-PMREPT-EC1
SET-DFLT-PMREPT-EC1

COMMAND CODE: **RTRV-DFLTPMREPT-F3**
COMMAND NAME: **RETRIEVE DEFAULT PERFORMANCE
MONITORING REPORT F3**

PURPOSE

The RTRV-DFLTPMREPT-F3 command retrieves the current default provisioning pertaining to scheduled Performance Monitoring (PM) reporting (e.g., reporting enabled, the discriminating threshold level of reported PM parameters, etc.) of F3 PM parameters.

A RTRV-DFLTPMREPT-F3 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-DFLTPMREPT-F3 : [TID] : : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  ["<AIDTYPE>:<NUMREPT>,<MONLEV>,<TMPER>" ]
  . . . .
  ["<AIDTYPE>:<NUMREPT>,<MONLEV>,<TMPER>" ]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

AIDTYPE	{F3} AID Type, identifies the type of AID for the default scheduled PM reporting parameters being retrieved.
NUMREPT	{0-254, <NoVal>} Number of Reports, specifies the number of PM report messages that are generated. Values are: 0 Zero, scheduled PM reporting is disabled. 1-254 1 to 254 reports are to be generated. When the CPU is in an IS state and the system has successfully completed a restart, NUMREPT is decremented even if the schedule has been inhibited by the INH-PMREPT-F3 command. <NoVal> No Value (Null), PM report messages continue to be generated until disabled via a NUMREPT value of 0.

MONLEV	<p>{LEVEL-DIRECTION:{0-4294967295} – {DN, UP} }</p> <p>Monitoring Level, identifies the discriminating level of PM parameter event counts that are reported in PM messages for monitored PM parameters. The format of MONLEV is <LEVEL> – <DIRECTION>. Values are:</p> <p>{0-4294967295}–DN Only PM data for monitored PM parameters that are less–than or equal–to (<) the value of <LEVEL> are reported.</p> <p>{0-4294967295}–UP Only PM data for monitored PM parameters that are greater–than or equal–to (>) the value of <LEVEL> are reported.</p>
TMPER	<p>{15-MIN, 1-DAY}</p> <p>Time Period, identifies the accumulation time period of the PM parameters reported in the PM report messages. Values are:</p> <p>15-MIN 15-Minute PM collection registers are reported.</p> <p>1-DAY 1-Day (24 hour) PM collection registers are reported.</p>

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

SROF Status, Requested Operation Failed
 /* Unable to determine facility type. */

EXAMPLES

In the following example, the current default provisioning pertaining to scheduled Performance Monitoring (PM) reporting of F3 PM parameters is retrieved.

```

RTRV-DFLTPMREPT-F3 ;

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71042. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

<SID> <YY-MM-DD> <HH:MM:SS>
M P71042 COMPLD
"F3:250,16-UP,15-MIN"
"F3:250,1-UP,1-DAY"
/* RTRV-DFLTPMREPT-F3 [P71042] (1) */
;

```

RELATED COMMANDS

ALW-PMREPT-F3
INH-PMREPT-F3
RTRV-PMSCHED-ALL
RTRV-PMSCHED-F3
SCHED-PMREPT-ALL
SCHED-PMREPT-F3
SET-DFLTPMREPT-F3

COMMAND CODE: **RTRV-DFLTTPMREPT-OC12**
COMMAND NAME: **RETRIEVE DEFAULT PERFORMANCE
MONITORING REPORT OC-12**

PURPOSE

The RTRV-DFLTTPMREPT-OC12 command retrieves the current default provisioning pertaining to scheduled Performance Monitoring (PM) reporting (e.g., reporting enabled, the discriminating threshold level of reported PM parameters, etc.) of OC12 PM parameters.

A RTRV-DFLTTPMREPT-OC12 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-DFLTTPMREPT-OC12 : [TID] : : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  ["<AIDTYPE>:<NUMREPT>,<MONLEV>,<TMPER>" ]
  . . . .
  ["<AIDTYPE>:<NUMREPT>],<MONLEV>,<TMPER>" ]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

AIDTYPE	{OC12} AID Type, identifies the type of AID for the default scheduled PM reporting parameters being retrieved.
NUMREPT	{0-254, <NoVal>} Number of Reports, specifies the number of PM report messages that are generated. Values are: 0 Zero, scheduled PM reporting is disabled. 1-254 1 to 254 reports are to be generated. When the CPU is in an IS state and the system has successfully completed a restart, NUMREPT is decremented even if the schedule has been inhibited by the INH-PMREPT-OC12 command. <NoVal> No Value (Null), PM report messages continue to be generated until disabled via a NUMREPT value of 0.

MONLEV	<p>{LEVEL-DIRECTION:{0-4294967295} – {DN, UP} }</p> <p>Monitoring Level, identifies the discriminating level of PM parameter event counts that are reported in PM messages for monitored PM parameters. The format of MONLEV is <LEVEL> – <DIRECTION>. Values are:</p> <table> <tr> <td>{0-4294967295}-DN</td><td>Only PM data for monitored PM parameters that are less-than or equal-to (<) the value of <LEVEL> are reported.</td></tr> <tr> <td>{0-4294967295}-UP</td><td>Only PM data for monitored PM parameters that are greater-than or equal-to (>) the value of <LEVEL> are reported.</td></tr> </table>	{0-4294967295}-DN	Only PM data for monitored PM parameters that are less-than or equal-to (<) the value of <LEVEL> are reported.	{0-4294967295}-UP	Only PM data for monitored PM parameters that are greater-than or equal-to (>) the value of <LEVEL> are reported.
{0-4294967295}-DN	Only PM data for monitored PM parameters that are less-than or equal-to (<) the value of <LEVEL> are reported.				
{0-4294967295}-UP	Only PM data for monitored PM parameters that are greater-than or equal-to (>) the value of <LEVEL> are reported.				
TMPER	<p>{15-MIN, 1-DAY}</p> <p>Time Period, identifies the accumulation time period of the PM parameters reported in the PM report messages. Values are:</p> <table> <tr> <td>15-MIN</td><td>15-Minute PM collection registers are reported.</td></tr> <tr> <td>1-DAY</td><td>1-Day (24 hour) PM collection registers are reported.</td></tr> </table>	15-MIN	15-Minute PM collection registers are reported.	1-DAY	1-Day (24 hour) PM collection registers are reported.
15-MIN	15-Minute PM collection registers are reported.				
1-DAY	1-Day (24 hour) PM collection registers are reported.				

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

SROF Status, Requested Operation Failed
 /* Unable to determine facility type. */

EXAMPLES

In the following example, the current default provisioning pertaining to scheduled Performance Monitoring (PM) reporting of OC12 PM parameters is retrieved.

```
RTRV-DFLTPMREPT-OC12;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71042. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```

<SID> <YY-MM-DD> <HH:MM:SS>
M P71042 COMPLD
"OC12:250,16-UP,15-MIN"
"OC12:250,1-UP,1-DAY"
/* RTRV-DFLTPMREPT-OC12 [P71042] (1) */
;

```

RELATED COMMANDS

ALW-PMREPT-OC12
INH-PMREPT-OC12
RTRV-PMSCHED-ALL
RTRV-PMSCHED-OC12
SCHED-PMREPT-ALL
SCHED-PMREPT-OC12
SET-DFLTPMREPT-OC12

COMMAND CODE: **RTRV-DFLTPMREPT-OC3**
COMMAND NAME: **RETRIEVE DEFAULT PERFORMANCE
MONITORING REPORT OC-3**

PURPOSE

The RTRV-DFLTPMREPT-OC3 command retrieves the current default provisioning pertaining to scheduled Performance Monitoring (PM) reporting (e.g., reporting enabled, the discriminating threshold level of reported PM parameters, etc.) of OC3 PM parameters.

A RTRV-DFLTPMREPT-OC3 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-DFLTPMREPT-OC3 : [TID] : : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  ["<AIDTYPE>:<NUMREPT>,<MONLEV>,<TMPER>" ]
  . . . .
  ["<AIDTYPE>:<NUMREPT>,<MONLEV>,<TMPER>" ]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

AIDTYPE	{OC3} AID Type, identifies the type of AID for the default scheduled PM reporting parameters being retrieved.						
NUMREPT	{0-254, <NoVal>} Number of Reports, specifies the number of PM report messages that are generated. Values are: <table border="0" style="margin-left: 40px;"> <tr> <td>0</td> <td>Zero, scheduled PM reporting is disabled.</td> </tr> <tr> <td>1-254</td> <td>1 to 254 reports are to be generated. When the CPU is in an IS state and the system has successfully completed a restart, NUMREPT is decremented even if the schedule has been inhibited by the INH-PMREPT-OC3 command.</td> </tr> <tr> <td><NoVal></td> <td>No Value (Null), PM report messages continue to be generated until disabled via a NUMREPT value of 0.</td> </tr> </table>	0	Zero, scheduled PM reporting is disabled.	1-254	1 to 254 reports are to be generated. When the CPU is in an IS state and the system has successfully completed a restart, NUMREPT is decremented even if the schedule has been inhibited by the INH-PMREPT-OC3 command.	<NoVal>	No Value (Null), PM report messages continue to be generated until disabled via a NUMREPT value of 0.
0	Zero, scheduled PM reporting is disabled.						
1-254	1 to 254 reports are to be generated. When the CPU is in an IS state and the system has successfully completed a restart, NUMREPT is decremented even if the schedule has been inhibited by the INH-PMREPT-OC3 command.						
<NoVal>	No Value (Null), PM report messages continue to be generated until disabled via a NUMREPT value of 0.						

MONLEV	{LEVEL-DIRECTION:{0-4294967295} – {DN, UP} }				
	Monitoring Level, identifies the discriminating level of PM parameter event counts that are reported in PM messages for monitored PM parameters. The format of MONLEV is <LEVEL> – <DIRECTION>. Values are:				
	<table> <tr> <td>{0-4294967295}-DN</td><td>Only PM data for monitored PM parameters that are less-than or equal-to (<) the value of <LEVEL> are reported.</td></tr> <tr> <td>{0-4294967295}-UP</td><td>Only PM data for monitored PM parameters that are greater-than or equal-to (>) the value of <LEVEL> are reported.</td></tr> </table>	{0-4294967295}-DN	Only PM data for monitored PM parameters that are less-than or equal-to (<) the value of <LEVEL> are reported.	{0-4294967295}-UP	Only PM data for monitored PM parameters that are greater-than or equal-to (>) the value of <LEVEL> are reported.
{0-4294967295}-DN	Only PM data for monitored PM parameters that are less-than or equal-to (<) the value of <LEVEL> are reported.				
{0-4294967295}-UP	Only PM data for monitored PM parameters that are greater-than or equal-to (>) the value of <LEVEL> are reported.				
TMPER	{15-MIN, 1-DAY}				
	Time Period, identifies the accumulation time period of the PM parameters reported in the PM report messages. Values are:				
	<table> <tr> <td>15-MIN</td><td>15-Minute PM collection registers are reported.</td></tr> <tr> <td>1-DAY</td><td>1-Day (24 hour) PM collection registers are reported.</td></tr> </table>	15-MIN	15-Minute PM collection registers are reported.	1-DAY	1-Day (24 hour) PM collection registers are reported.
15-MIN	15-Minute PM collection registers are reported.				
1-DAY	1-Day (24 hour) PM collection registers are reported.				

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

```

SROF      Status, Requested Operation Failed
          /* Unable to determine facility type. */

```

EXAMPLES

In the following example, the current default provisioning pertaining to scheduled Performance Monitoring (PM) reporting of OC3 PM parameters is retrieved.

```

RTRV-DFLTPMREPT-OC3 ;

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71042. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

<SID> <YY-MM-DD> <HH:MM:SS>
M P71042 COMPLD
"OC3:250,16-UP,15-MIN"
"OC3:250,1-UP,1-DAY"
/* RTRV-DFLTPMREPT-OC3 [P71042] (1) */
;

```

RELATED COMMANDS

ALW-PMREPT-OC3
INH-PMREPT-OC3
RTRV-PMSCHED-ALL
RTRV-PMSCHED-OC3
SCHED-PMREPT-ALL
SCHED-PMREPT-OC3
SET-DFLTPMREPT-OC3

COMMAND CODE: **RTRV-DFLTPMREPT-STS1**
COMMAND NAME: **RETRIEVE DEFAULT PERFORMANCE MONITORING REPORT STS-1**

PURPOSE

The RTRV-DFLTPMREPT-STS1 command retrieves the current default provisioning pertaining to scheduled Performance Monitoring (PM) reporting (e.g., reporting enabled, the discriminating threshold level of reported PM parameters, etc.) of STS-1 PM parameters.

A RTRV-DFLTPMREPT-STS1 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-DFLTPMREPT-STS1 : [TID] : : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  ["<AIDTYPE>:<NUMREPT>,<MONLEV>,<TMPER>" ]
  . . . .
  ["<AIDTYPE>:<NUMREPT>,<MONLEV>,<TMPER>" ]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

AIDTYPE	{STS1} AID Type, identifies the type of AID for the default scheduled PM reporting parameters being retrieved.						
NUMREPT	{0-254, <NoVal>} Number of Reports, specifies the number of PM report messages that are generated. Values are: <table> <tbody> <tr> <td>0</td> <td>Zero, scheduled PM reporting is disabled.</td> </tr> <tr> <td>1-254</td> <td>1 to 254 reports are to be generated. When the CPU is in an IS state and the system has successfully completed a restart, NUMREPT is decremented even if the schedule has been inhibited by the INH-PMREPT-STS1 command.</td> </tr> <tr> <td><NoVal></td> <td>No Value (Null), PM report messages continue to be generated until disabled via a NUMREPT value of 0.</td> </tr> </tbody> </table>	0	Zero, scheduled PM reporting is disabled.	1-254	1 to 254 reports are to be generated. When the CPU is in an IS state and the system has successfully completed a restart, NUMREPT is decremented even if the schedule has been inhibited by the INH-PMREPT-STS1 command.	<NoVal>	No Value (Null), PM report messages continue to be generated until disabled via a NUMREPT value of 0.
0	Zero, scheduled PM reporting is disabled.						
1-254	1 to 254 reports are to be generated. When the CPU is in an IS state and the system has successfully completed a restart, NUMREPT is decremented even if the schedule has been inhibited by the INH-PMREPT-STS1 command.						
<NoVal>	No Value (Null), PM report messages continue to be generated until disabled via a NUMREPT value of 0.						

MONLEV	{LEVEL-DIRECTION:{0-4294967295} – {DN, UP} }				
	Monitoring Level, identifies the discriminating level of PM parameter event counts that are reported in PM messages for monitored PM parameters. The format of MONLEV is <LEVEL> – <DIRECTION>. Values are:				
	<table> <tr> <td>{0-4294967295}-DN</td><td>Only PM data for monitored PM parameters that are less-than or equal-to (<) the value of <LEVEL> are reported.</td></tr> <tr> <td>{0-4294967295}-UP</td><td>Only PM data for monitored PM parameters that are greater-than or equal-to (>) the value of <LEVEL> are reported.</td></tr> </table>	{0-4294967295}-DN	Only PM data for monitored PM parameters that are less-than or equal-to (<) the value of <LEVEL> are reported.	{0-4294967295}-UP	Only PM data for monitored PM parameters that are greater-than or equal-to (>) the value of <LEVEL> are reported.
{0-4294967295}-DN	Only PM data for monitored PM parameters that are less-than or equal-to (<) the value of <LEVEL> are reported.				
{0-4294967295}-UP	Only PM data for monitored PM parameters that are greater-than or equal-to (>) the value of <LEVEL> are reported.				
TMPER	{15-MIN, 1-DAY}				
	Time Period, identifies the accumulation time period of the PM parameters reported in the PM report messages. Values are:				
	<table> <tr> <td>15-MIN</td><td>15-Minute PM collection registers are reported.</td></tr> <tr> <td>1-DAY</td><td>1-Day (24 hour) PM collection registers are reported.</td></tr> </table>	15-MIN	15-Minute PM collection registers are reported.	1-DAY	1-Day (24 hour) PM collection registers are reported.
15-MIN	15-Minute PM collection registers are reported.				
1-DAY	1-Day (24 hour) PM collection registers are reported.				

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

```

SROF      Status, Requested Operation Failed
          /* Unable to determine facility type. */

```

EXAMPLES

In the following example, the current default provisioning pertaining to scheduled Performance Monitoring (PM) reporting of STS-1 PM parameters is retrieved.

```

RTRV-DFLTPMREPT-STS1;

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71042. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

<SID> <YY-MM-DD> <HH:MM:SS>
M P71042 COMPLD
"STS1:250,16-UP,15-MIN"
"STS1:250,1-UP,1-DAY"
/* RTRV-DFLTPMREPT-STS1 [P71042] (1) */
;

```

RELATED COMMANDS

ALW-PMREPT-STS1
INH-PMREPT-STS1
RTRV-PMSCHED-ALL
RTRV-PMSCHED-STS1
SCHED-PMREPT-ALL
SCHED-PMREPT-STS1
SET-DFLTPMREPT-STS1

COMMAND CODE: **RTRV-DFLTPMREPT-STS3C**
COMMAND NAME: **RETRIEVE DEFAULT PERFORMANCE
MONITORING REPORT STS-3C**

PURPOSE

The RTRV-DFLTPMREPT-STS3C command retrieves the current default provisioning pertaining to scheduled Performance Monitoring (PM) reporting (e.g., reporting enabled, the discriminating threshold level of reported PM parameters, etc.) of STS-3C PM parameters.

A RTRV-DFLTPMREPT-STS3C command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-DFLTPMREPT-STS3C: [TID] :: [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  ["<AIDTYPE>:<NUMREPT>,<MONLEV>,<TMPER>" ]
  . . . .
  ["<AIDTYPE>:<NUMREPT>,<MONLEV>,<TMPER>" ]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

AIDTYPE	{STS3C} AID Type, identifies the type of AID for the default scheduled PM reporting parameters being retrieved.
NUMREPT	{0-254, <NoVal>} Number of Reports, specifies the number of PM report messages that are generated. Values are: 0 Zero, scheduled PM reporting is disabled. 1-254 1 to 254 reports are to be generated. When the CPU is in an IS state and the system has successfully completed a restart, NUMREPT is decremented even if the schedule has been inhibited by the INH-PMREPT-STS3C command. <NoVal> No Value (Null), PM report messages continue to be generated until disabled via a NUMREPT value of 0.

MONLEV	<p>{LEVEL-DIRECTION:{0-4294967295} – {DN, UP} }</p> <p>Monitoring Level, identifies the discriminating level of PM parameter event counts that are reported in PM messages for monitored PM parameters. The format of MONLEV is <LEVEL> – <DIRECTION>. Values are:</p> <table> <tr> <td>{0-4294967295}-DN</td><td>Only PM data for monitored PM parameters that are less-than or equal-to (<) the value of <LEVEL> are reported.</td></tr> <tr> <td>{0-4294967295}-UP</td><td>Only PM data for monitored PM parameters that are greater-than or equal-to (>) the value of <LEVEL> are reported.</td></tr> </table>	{0-4294967295}-DN	Only PM data for monitored PM parameters that are less-than or equal-to (<) the value of <LEVEL> are reported.	{0-4294967295}-UP	Only PM data for monitored PM parameters that are greater-than or equal-to (>) the value of <LEVEL> are reported.
{0-4294967295}-DN	Only PM data for monitored PM parameters that are less-than or equal-to (<) the value of <LEVEL> are reported.				
{0-4294967295}-UP	Only PM data for monitored PM parameters that are greater-than or equal-to (>) the value of <LEVEL> are reported.				
TMPER	<p>{15-MIN, 1-DAY}</p> <p>Time Period, identifies the accumulation time period of the PM parameters reported in the PM report messages. Values are:</p> <table> <tr> <td>15-MIN</td><td>15-Minute PM collection registers are reported.</td></tr> <tr> <td>1-DAY</td><td>1-Day (24 hour) PM collection registers are reported.</td></tr> </table>	15-MIN	15-Minute PM collection registers are reported.	1-DAY	1-Day (24 hour) PM collection registers are reported.
15-MIN	15-Minute PM collection registers are reported.				
1-DAY	1-Day (24 hour) PM collection registers are reported.				

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

SROF Status, Requested Operation Failed
 /* Unable to determine facility type. */

EXAMPLES

In the following example, the current default provisioning pertaining to scheduled Performance Monitoring (PM) reporting of STS-3C PM parameters is retrieved.

```
RTRV-DFLTPMREPT-STSC;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71042. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```

<SID> <YY-MM-DD> <HH:MM:SS>
M P71042 COMPLD
"STS3C:250,16-UP,15-MIN"
"STS3C:250,1-UP,1-DAY"
/* RTRV-DFLTPMREPT-STSC [P71042] (1) */
;

```

RELATED COMMANDS

ALW-PMREPT-STS3C
INH-PMREPT-STS3C
RTRV-PMSCHED-ALL
RTRV-PMSCHED-STS3C
SCHED-PMREPT-ALL
SCHED-PMREPT-STS3C
SET-DFLTPMREPT-STS3C

COMMAND CODE: **RTRV-DFLTPMREPT-T1**
COMMAND NAME: **RETRIEVE DEFAULT PERFORMANCE
MONITORING REPORT T1**

PURPOSE

The RTRV-DFLTPMREPT-T1 command retrieves the current default provisioning pertaining to scheduled Performance Monitoring (PM) reporting (e.g., reporting enabled, the discriminating threshold level of reported PM parameters, etc.) of DS1 PM parameters.

A RTRV-DFLTPMREPT-T1 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-DFLTPMREPT-T1 : [TID] : : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  ["<AIDTYPE>:<NUMREPT>,<MONLEV>,<TMPER>" ]
  . . . .
  ["<AIDTYPE>:<NUMREPT>,<MONLEV>,<TMPER>" ]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

AIDTYPE	{T1} AID Type, identifies the type of AID for the default scheduled PM reporting parameters being retrieved.
NUMREPT	{0-254, <NoVal>} Number of Reports, specifies the number of PM report messages that are generated. Values are: 0 Zero, scheduled PM reporting is disabled. 1-254 1 to 254 reports are to be generated. When the CPU is in an IS state and the system has successfully completed a restart, NUMREPT is decremented even if the schedule has been inhibited by the INH-PMREPT-T1 command. <NoVal> No Value (Null), PM report messages continue to be generated until disabled via a NUMREPT value of 0.

MONLEV	{LEVEL-DIRECTION:{0-4294967295} – {DN, UP} }				
	Monitoring Level, identifies the discriminating level of PM parameter event counts that are reported in PM messages for monitored PM parameters. The format of MONLEV is <LEVEL> – <DIRECTION>. Values are:				
	<table> <tr> <td>{0-4294967295}-DN</td><td>Only PM data for monitored PM parameters that are less-than or equal-to (<) the value of <LEVEL> are reported.</td></tr> <tr> <td>{0-4294967295}-UP</td><td>Only PM data for monitored PM parameters that are greater-than or equal-to (>) the value of <LEVEL> are reported.</td></tr> </table>	{0-4294967295}-DN	Only PM data for monitored PM parameters that are less-than or equal-to (<) the value of <LEVEL> are reported.	{0-4294967295}-UP	Only PM data for monitored PM parameters that are greater-than or equal-to (>) the value of <LEVEL> are reported.
{0-4294967295}-DN	Only PM data for monitored PM parameters that are less-than or equal-to (<) the value of <LEVEL> are reported.				
{0-4294967295}-UP	Only PM data for monitored PM parameters that are greater-than or equal-to (>) the value of <LEVEL> are reported.				
TMPER	{15-MIN, 1-DAY}				
	Time Period, identifies the accumulation time period of the PM parameters reported in the PM report messages. Values are:				
	<table> <tr> <td>15-MIN</td><td>15-Minute PM collection registers are reported.</td></tr> <tr> <td>1-DAY</td><td>1-Day (24 hour) PM collection registers are reported.</td></tr> </table>	15-MIN	15-Minute PM collection registers are reported.	1-DAY	1-Day (24 hour) PM collection registers are reported.
15-MIN	15-Minute PM collection registers are reported.				
1-DAY	1-Day (24 hour) PM collection registers are reported.				

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

```

SROF      Status, Requested Operation Failed
          /* Unable to determine facility type. */

```

EXAMPLES

In the following example, the current default provisioning pertaining to scheduled Performance Monitoring (PM) reporting of DS1 PM parameters is retrieved.

```

RTRV-DFLTPMREPT-T1;

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71042. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

<SID> <YY-MM-DD> <HH:MM:SS>
M P71042 COMPLD
  "T1:250,16-UP,15-MIN"
  "T1:250,1-UP,1-DAY"
/* RTRV-DFLTPMREPT-T1 [P71042] (1) */
;

```

RELATED COMMANDS

ALW-PMREPT-T1
INH-PMREPT-T1
RTRV-PMSCHED-ALL
RTRV-PMSCHED-T1
SCHED-PMREPT-ALL
SCHED-PMREPT-T1
SET-DFLTPMREPT-T1

COMMAND CODE: **RTRV-DFLTPMREPT-T3**
COMMAND NAME: **RETRIEVE DEFAULT PERFORMANCE
MONITORING REPORT T3**

PURPOSE

The RTRV-DFLTPMREPT-T3 command retrieves the current default provisioning pertaining to scheduled Performance Monitoring (PM) reporting (e.g., reporting enabled, the discriminating threshold level of reported PM parameters, etc.) of DS3 PM parameters.

A RTRV-DFLTPMREPT-T3 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-DFLTPMREPT-T3 : [TID] : : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  ["<AIDTYPE>:<NUMREPT>,<MONLEV>,<TMPER>" ]
. . . .
  ["<AIDTYPE>:<NUMREPT>,<MONLEV>,<TMPER>" ]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

AIDTYPE	{T3} AID Type, identifies the type of AID for the default scheduled PM reporting parameters being retrieved.
NUMREPT	{0-254, <NoVal>} Number of Reports, specifies the number of PM report messages that are generated. Values are: 0 Zero, scheduled PM reporting is disabled. 1-254 1 to 254 reports are to be generated. When the CPU is in an IS state and the system has successfully completed a restart, NUMREPT is decremented even if the schedule has been inhibited by the INH-PMREPT-T3 command. <NoVal> No Value (Null), PM report messages continue to be generated until disabled via a NUMREPT value of 0.

MONLEV	<p>{LEVEL-DIRECTION:{0-4294967295} – {DN, UP} }</p> <p>Monitoring Level, identifies the discriminating level of PM parameter event counts that are reported in PM messages for monitored PM parameters. The format of MONLEV is <LEVEL> – <DIRECTION>. Values are:</p> <p>{0-4294967295}-DN Only PM data for monitored PM parameters that are less-than or equal-to (<) the value of <LEVEL> are reported.</p> <p>{0-4294967295}-UP Only PM data for monitored PM parameters that are greater-than or equal-to (>) the value of <LEVEL> are reported.</p>
TMPER	<p>{15-MIN, 1-DAY}</p> <p>Time Period, identifies the accumulation time period of the PM parameters reported in the PM report messages. Values are:</p> <p>15-MIN 15-Minute PM collection registers are reported.</p> <p>1-DAY 1-Day (24 hour) PM collection registers are reported.</p>

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

SROF Status, Requested Operation Failed
/* Unable to determine facility type. */

EXAMPLES

In the following example, the current default provisioning pertaining to scheduled Performance Monitoring (PM) reporting of DS3 PM parameters is retrieved.

```
RTRV-DFLTTPMREPT-T3 ;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71042. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```

<SID> <YY-MM-DD> <HH:MM:SS>
M P71042 COMPLD
  "T3:250,16-UP,15-MIN"
  "T3:250,1-UP,1-DAY"
  /* RTRV-DFLTTPMREPT-T3 [P71042] (1) */
;

```

RELATED COMMANDS

ALW-PMREPT-T3
INH-PMREPT-T3
RTRV-PMSCHED-ALL
RTRV-PMSCHED-T3
SCHED-PMREPT-ALL
SCHED-PMREPT-T3
SET-DFLTPMREPT-T3

COMMAND CODE: **RTRV-DFLTPMREPT-VT1**
COMMAND NAME: **RETRIEVE DEFAULT PERFORMANCE
MONITORING REPORT VT1**

PURPOSE

The RTRV-DFLTPMREPT-VT1 command retrieves the current default provisioning pertaining to scheduled Performance Monitoring (PM) reporting (e.g., reporting enabled, the discriminating threshold level of reported PM parameters, etc.) of VT1.5 PM parameters.

A RTRV-DFLTPMREPT-VT1 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-DFLTPMREPT-VT1 : [TID] :: [CTAG] ;

INPUT PARAMETERS

TID	< 1–20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1–6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  ["<AIDTYPE>:<NUMREPT>,<MONLEV>,<TMPER>" ]
. . . .
  ["<AIDTYPE>:<NUMREPT>,<MONLEV>,<TMPER>" ]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

AIDTYPE	{VT1} AID Type, identifies the type of AID for the default scheduled PM reporting parameters being retrieved.
NUMREPT	{0–254, <NoVal>} Number of Reports, specifies the number of PM report messages that are generated. Values are: 0 Zero, scheduled PM reporting is disabled. 1–254 1 to 254 reports are to be generated. When the CPU is in an IS state and the system has successfully completed a restart, NUMREPT is decremented even if the schedule has been inhibited by the INH-PMREPT-VT1 command. <NoVal> No Value (Null), PM report messages continue to be generated until disabled via a NUMREPT value of 0.

MONLEV	<p>{LEVEL-DIRECTION:{0-4294967295} – {DN, UP} }</p> <p>Monitoring Level, identifies the discriminating level of PM parameter event counts that are reported in PM messages for monitored PM parameters. The format of MONLEV is <LEVEL> – <DIRECTION>. Values are:</p> <table> <tr> <td>{0-4294967295}–DN</td><td>Only PM data for monitored PM parameters that are less-than or equal-to (<) the value of <LEVEL> are reported.</td></tr> <tr> <td>{0-4294967295}–UP</td><td>Only PM data for monitored PM parameters that are greater-than or equal-to (>) the value of <LEVEL> are reported.</td></tr> </table>	{0-4294967295}–DN	Only PM data for monitored PM parameters that are less-than or equal-to (<) the value of <LEVEL> are reported.	{0-4294967295}–UP	Only PM data for monitored PM parameters that are greater-than or equal-to (>) the value of <LEVEL> are reported.
{0-4294967295}–DN	Only PM data for monitored PM parameters that are less-than or equal-to (<) the value of <LEVEL> are reported.				
{0-4294967295}–UP	Only PM data for monitored PM parameters that are greater-than or equal-to (>) the value of <LEVEL> are reported.				
TMPER	<p>{15-MIN, 1-DAY}</p> <p>Time Period, identifies the accumulation time period of the PM parameters reported in the PM report messages. Values are:</p> <table> <tr> <td>15-MIN</td><td>15-Minute PM collection registers are reported.</td></tr> <tr> <td>1-DAY</td><td>1-Day (24 hour) PM collection registers are reported.</td></tr> </table>	15-MIN	15-Minute PM collection registers are reported.	1-DAY	1-Day (24 hour) PM collection registers are reported.
15-MIN	15-Minute PM collection registers are reported.				
1-DAY	1-Day (24 hour) PM collection registers are reported.				

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

SROF Status, Requested Operation Failed
 /* Unable to determine facility type. */

EXAMPLES

In the following example, the current default provisioning pertaining to scheduled Performance Monitoring (PM) reporting of VT1.5 PM parameters is retrieved.

```
RTRV-DFLT-PMREPT-VT1;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71042. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```

<SID> <YY-MM-DD> <HH:MM:SS>
M P71042 COMPLD
"VT1:250,16-UP,15-MIN"
"VT1:250,1-UP,1-DAY"
/* RTRV-DFLT-PMREPT-VT1 [P71042] (1) */
;

```

RELATED COMMANDS

ALW-PMREPT-VT1
INH-PMREPT-VT1
RTRV-PMSCHED-ALL
RTRV-PMSCHED-VT1
SCHED-PMREPT-ALL
SCHED-PMREPT-VT1
SET-DFLTPMREPT-VT1

COMMAND CODE: **RTRV-DFLTTH-EC1**
COMMAND NAME: **RETRIEVE DEFAULT THRESHOLD EC1**

PURPOSE

The RTRV-DFLTTH-EC1 command retrieves the system provisioning default threshold level (THLEV) for the monitored PM (Performance Monitoring) parameter identified by MONTYPE (monitored parameter type), LOCN (near-end or far-end location), and TMPER (15-minute or 1-day). (The system default THLEV for each monitored EC1 PM parameter is set via the SET-DFLTTH-EC1 command.)

The successful response for a RTRV-DFLTTH-EC1 command contains one line of parsable output data for each monitored parameter's system default threshold level setting being reported.

A RTRV-DFLTTH-EC1 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-DFLTTH-EC1 : [TID] :: [CTAG] :: [MONTYPE] , [LOCN] , [TMPER] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

MONTYPE	{ALL}
	NEAR_END_PARAMETERS:{CV-L, CVL, ES-L, ESL, ESA-L, ESAL, ESB-L, ESBL, LOSS, LOSS-S, SEFS, SEFS-S, SES-L, SESL, UAS-L, UASL}, FAR_END_PARAMETERS:{AISS, AISS-L, AISSL, ES-L, ESL, FC-L, FCL, SES-L, SESL, UAS-L, UASL} }
Default:	{ALL}
Addressing:	None
Description:	Monitored Parameter Type, identifies the type of monitored parameter whose system default threshold level setting is being retrieved. A parameter may be specified by more than one value, e.g., parameter values may be entered with or without the dash (-). Refer to Appendix F, Monitored PM Parameters for a list of all monitored PM parameters. Values are:
	ALL All, all monitored parameter PM registers.
	AISS, AISS-L, AISSL Alarm Indication Signal Seconds – Line, AISS register. (Far-end only.)
	CV-L, CVL Coding Violations – Line, CV-L register. (Near-end only.)
	ES-L, ESL Errored Seconds – Line, ES-L register.
	ESA-L, ESAL Errored Seconds type A – Line, ESA-L register. (Near-end only.)
	ESB-L, ESBL Errored Seconds type B – Line, ESB-L register. (Near-end only.)
	FC-L, FCL Failure Counts – Line, FC-L register. (Far-end only.)
	LOSS, LOSS-S Loss Of Signal Seconds – Section, LOSS register. (Near-end only.)
	SEFS, SEFS-S Severely Errored Frame Seconds – Section, SEFS-S register. (Near-end only.)
	SES-L, SESL Severely Errored Seconds – Line, SES-L register.
	UAS-L, UASL Unavailable Seconds – Line, UAS-L register.
Restrictions:	RTRV-DFLTTH-EC1 is denied if the specified MONTYPE value is not supported for the specified LOCN value (e.g., MONTYPE of AISS and LOCN of NEND is entered).
LOCN	{FEND, NEND}
	Default: < All applicable locations for the selected monitored parameters >
Addressing:	None
Description:	Location, specifies whether system default threshold levels for near-end or far-end monitored parameters are to be retrieved. Values are:
	FEND Far-End
	NEND Near-End
Restrictions:	RTRV-DFLTTH-EC1 is denied if the specified MONTYPE value is not supported for the specified LOCN value (e.g., MONTYPE of AISS and LOCN of NEND is entered).
TMPER	{15-MIN, 1-DAY}
	Default: {15-MIN}
Addressing:	None
Description:	Time Period, specifies whether system default threshold levels for the 15-minute or the daily (24 hour) PM collection register for the specified parameter is to be retrieved. Values are:
	15-MIN 15-Minute PM collection register
	1-DAY 1-Day (24 hour) PM collection register

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
",EC1:<MONTYPE>,<LOCN>,<THLEV>,<TMPER>"
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

MONTYPE	<p>NEAR_END_PARAMETERS:{CVL, ESL, ESA-L, ESB-L, LOSS, SEFS, SESL, UASL},</p> <p>FAR_END_PARAMETERS:{AISS, ESL, FC-L, SESL, UASL} }</p> <p>Monitored Parameter Type, identifies the monitored parameter. Refer to Appendix F, Monitored PM Parameters for a list of all monitored PM parameters. Values are:</p> <table border="0"> <tr><td>AISS</td><td>Alarm Indication Signal Seconds – Line, AISS register.</td></tr> <tr><td>CVL</td><td>Coding Violations – Line, CV-L register.</td></tr> <tr><td>ESL</td><td>Errored Seconds – Line, ES-L register.</td></tr> <tr><td>ESA-L</td><td>Errored Seconds type A – Line, ESA-L register.</td></tr> <tr><td>ESB-L</td><td>Errored Seconds type B – Line, ESB-L register.</td></tr> <tr><td>FC-L</td><td>Failure Counts – Line, FC-L register.</td></tr> <tr><td>LOSS</td><td>Loss Of Signal Seconds – Section, LOSS register.</td></tr> <tr><td>SEFS</td><td>Severely Errored Frame Seconds – Section, SEFS-S register.</td></tr> <tr><td>SESL</td><td>Severely Errored Seconds – Line, SES-L register.</td></tr> <tr><td>UASL</td><td>Unavailable Seconds – Line, UAS-L register.</td></tr> </table>	AISS	Alarm Indication Signal Seconds – Line, AISS register.	CVL	Coding Violations – Line, CV-L register.	ESL	Errored Seconds – Line, ES-L register.	ESA-L	Errored Seconds type A – Line, ESA-L register.	ESB-L	Errored Seconds type B – Line, ESB-L register.	FC-L	Failure Counts – Line, FC-L register.	LOSS	Loss Of Signal Seconds – Section, LOSS register.	SEFS	Severely Errored Frame Seconds – Section, SEFS-S register.	SESL	Severely Errored Seconds – Line, SES-L register.	UASL	Unavailable Seconds – Line, UAS-L register.
AISS	Alarm Indication Signal Seconds – Line, AISS register.																				
CVL	Coding Violations – Line, CV-L register.																				
ESL	Errored Seconds – Line, ES-L register.																				
ESA-L	Errored Seconds type A – Line, ESA-L register.																				
ESB-L	Errored Seconds type B – Line, ESB-L register.																				
FC-L	Failure Counts – Line, FC-L register.																				
LOSS	Loss Of Signal Seconds – Section, LOSS register.																				
SEFS	Severely Errored Frame Seconds – Section, SEFS-S register.																				
SESL	Severely Errored Seconds – Line, SES-L register.																				
UASL	Unavailable Seconds – Line, UAS-L register.																				
LOCN	<p>{FEND, NEND}</p> <p>Location, indicates whether system default threshold levels for near-end or far-end monitored parameters are being reported. Values are:</p> <table border="0"> <tr><td>FEND</td><td>Far-End</td></tr> <tr><td>NEND</td><td>Near-End</td></tr> </table>	FEND	Far-End	NEND	Near-End																
FEND	Far-End																				
NEND	Near-End																				
THLEV	<p>{0-4294967295}</p> <p>Threshold Level, indicates the value of the system provisioning default threshold level for the indicated parameter. A value of zero (0) indicates PM threshold crossings are not autonomously reported.</p>																				
TMPER	<p>{15-MIN, 1-DAY}</p> <p>Time Period, identifies the accumulation time period for the indicated parameter. Values are:</p> <table border="0"> <tr><td>15-MIN</td><td>15-Minute PM collection register</td></tr> <tr><td>1-DAY</td><td>1-Day (24 hour) PM collection register</td></tr> </table>	15-MIN	15-Minute PM collection register	1-DAY	1-Day (24 hour) PM collection register																
15-MIN	15-Minute PM collection register																				
1-DAY	1-Day (24 hour) PM collection register																				

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid /* Invalid location in request message. */ /* Invalid montype in request message. */ /* Invalid time period in request message. */
IIPG	Input, Invalid Parameter Grouping /* Invalid location for requested montype. */
SROF	Status, Requested Operation Failed /* Unable to determine facility type. */ /* Unable to convert montype <MONTYPE> to string. */ /* Unable to process montype <MONTYPE>. */ /* Could not write to report file. */

EXAMPLES

In the following example, the system provisioning default threshold level settings for the near-end 15-Minute coding violations, line (CV-L) register is retrieved.

```
RTRV-DFLTTH-EC1:::::CVL,,15-MIN;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71042. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M P71042 COMPLD  
",EC1:CVL,NEND,4666,15-MIN"  
/* RTRV-DFLTTH-EC1:::::CVL,,15-MIN [P71042] (1) */  
;
```

RELATED COMMANDS

```
ENT-EC1  
INIT-REG-EC1  
RTRV-PM-EC1  
RTRV-PMATTR-ALL  
RTRV-PMODE-EC1  
RTRV-TH-EC1  
SET-DFLTTH-EC1  
SET-PMATTR-ALL  
SET-PMODE-EC1  
SET-TH-EC1
```

RELATED AUTONOMOUS RESPONSES

```
REPT^EVT^EC1
```

COMMAND CODE: **RTRV-DFLTTH-OC12**
COMMAND NAME: **RETRIEVE DEFAULT THRESHOLD
OC-12**

PURPOSE

The RTRV-DFLTTH-OC12 command retrieves the system provisioning default threshold level (THLEV) for the monitored PM (Performance Monitoring) parameter identified by MONTYPE (monitored parameter type), LOCN (near-end or far-end location), and TMPER (15-minute or 1-day). (The system default THLEV for each monitored OC12 PM parameter is set via the SET-DFLTTH-OC12 command.)

The successful response for a RTRV-DFLTTH-OC12 command contains one line of parsable output data for each monitored parameter's system default threshold level setting being reported.

A RTRV-DFLTTH-OC12 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-DFLTTH-OC12 : [TID] : : [CTAG] : : [MONTYPE] , [LOCN] , [TMPER] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

MONTYPE	{ALL},
	NEAR_END_PARAMETERS:{AISS, AISS-L, AISSL, CV-L, CVL, CV-S, CVS, ES-L, ESL, ES-S, ESS, ESA-L, ESAL, ESA-S, ESAS, ESB-L, ESBL, ESB-S, ESBS, FC-L, FCL, LOSS, LOSS-S, PSC, PSC-L, PSCL, PSD, PSD-L, PSDL, SEFS, SEFS-S, SES-L, SESL, SES-S, SESS, UAS-L, UASL},
	FAR_END_PARAMETERS:{AISS, AISS-L, AISSL, CV-L, CVL, ES-L, ESL, ESA-L, ESAL, ESB-L, ESBL, FC-L, FCL, SES-L, SESL, UAS-L, UASL}
Default:	{ALL}
Addressing:	None
Description:	Monitored Parameter Type, identifies the type of monitored parameter whose system default threshold level setting is being retrieved. A parameter may be specified by more than one value, e.g., parameter values may be entered with or without the dash (-). Refer to Appendix F, Monitored PM Parameters for a list of all monitored PM parameters. Values are:
ALL	All, all monitored parameter PM registers.
AISS, AISS-L, AISSL	Alarm Indication Signal Seconds – Line, AISS register.
CV-L, CVL	Coding Violations – Line, CV-L register.
CV-S, CVS	Coding Violations – Section, CV-S register. (Near-end only.)
ES-L, ESL	Errored Seconds – Line, ES-L register.
ES-S, ESS	Errored Seconds – Section, ES-S register. (Near-end only.)
ESA-L, ESAL	Errored Seconds type A – Line, ESA-L register.
ESA-S, ESAS	Errored Seconds type A – Section, ESA-S register. (Near-end only.)
ESB-L, ESBL	Errored Seconds type B – Line, ESB-L register.
ESB-S, ESBS	Errored Seconds type B – Section, ESB-S register. (Near-end only.)
FC-L, FCL	Failure Counts – Line, FC-L register.
LOSS, LOSS-S	Loss Of Signal Seconds – Section, LOSS register. (Near-end only.)
PSC, PSC-L, PSCL	Protection Switch Counts – Line, PSC-L register. (Near-end only.)
PSD, PSD-L, PSDL	Protection Switch Duration – Line, PSD-L register. (Near-end only.)
SEFS, SEFS-S	Severely Errored Frame Seconds – Section, SEFS-S register. (Near-end only.)
SES-L, SESL	Severely Errored Seconds – Line, SES-L register.
SES-S, SESS	Severely Errored Seconds – Section, SES-S register. (Near-end only.)
UAS-L, UASL	Unavailable Seconds – Line, UAS-L register.
Restrictions:	RTRV-DFLTTH-OC12 is denied if the specified MONTYPE value is not supported for the specified LOCN value (e.g., MONTYPE of CV-S and LOCN of FEND is entered).

LOCN	{FEND, NEND}	
	Default:	< All applicable locations for the selected monitored parameters >
	Addressing:	None
	Description:	Location, specifies whether system default threshold levels for near-end or far-end monitored parameters are to be retrieved. Values are:
	FEND	Far-End
TMPER	NEND	Near-End
	Restrictions:	RTRV-DFLTTH-OC12 is denied if the specified MONTYPE value is not supported for the specified LOCN value (e.g., MONTYPE of CV-S and LOCN of FEND is entered).
	{15-MIN, 1-DAY}	
	Default:	{15-MIN}
	Addressing:	None
	Description:	Time Period, specifies whether system default threshold levels for the 15-minute or the daily (24 hour) PM collection register for the specified parameter is to be retrieved. Values are:
	15-MIN	15-Minute PM collection register
	1-DAY	1-Day (24 hour) PM collection register

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
",OC12:<MONTYPE>,<LOCN>,<THLEV>,<TMPER>"
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

OUTPUT PARAMETERS

MONTYPE	NEAR_END_PARAMETERS:{AISS, CVL, CVS, ESL, ESS, ESA-L, ESA-S, ESB-L, ESB-S, FC-L, LOSS, PSC-L, PSD-L, SEFS, SESL, SESS, UASL},	
	FAR_END_PARAMETERS:{AISS, CVL, ESL, ESA-L, ESB-L, FC-L, SESL, UASL}	
	Monitored Parameter Type, identifies the monitored parameter. Refer to Appendix F, Monitored PM Parameters for a list of all monitored PM parameters. Values are:	
	AISS	Alarm Indication Signal Seconds – Line, AISS register.
	CVL	Coding Violations – Line, CV-L register.
	CVS	Coding Violations – Section, CV-S register.
	ESL	Errored Seconds – Line, ES-L register.
	ESS	Errored Seconds – Section, ES-S register.
	ESA-L	Errored Seconds type A – Line, ESA-L register.
	ESA-S	Errored Seconds type A – Section, ESA-S register.
	ESB-L	Errored Seconds type B – Line, ESB-L register.
	ESB-S	Errored Seconds type B – Section, ESB-S register.
	FC-L	Failure Counts – Line, FC-L register.
	LOSS	Loss Of Signal Seconds – Section, LOSS register.
	PSC-L	Protection Switch Counts – Line, PSC-L register.
	PSD-L	Protection Switch Duration – Line, PSD-L register.
	SEFS	Severely Errored Frame Seconds – Section, SEFS-S register.
	SESL	Severely Errored Seconds – Line, SES-L register.
	SESS	Severely Errored Seconds – Section, SES-S register.
	UASL	Unavailable Seconds – Line, UAS-L register.
LOCN	{FEND, NEND}	
	Location, indicates whether system default threshold levels for near-end or far-end monitored parameters are being reported. Values are:	
	FEND	Far-End
	NEND	Near-End

THLEV	{0–4294967295}	Threshold Level, indicates the value of the system provisioning default threshold level for the indicated parameter. A value of zero (0) indicates PM threshold crossings are not autonomously reported.				
TMPER	{15–MIN, 1–DAY}	Time Period, identifies the accumulation time period for the indicated parameter. Values are: <table><tr><td>15–MIN</td><td>15–Minute PM collection register</td></tr><tr><td>1–DAY</td><td>1–Day (24 hour) PM collection register</td></tr></table>	15–MIN	15–Minute PM collection register	1–DAY	1–Day (24 hour) PM collection register
15–MIN	15–Minute PM collection register					
1–DAY	1–Day (24 hour) PM collection register					

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non–Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid /* Invalid location in request message. */ /* Invalid montype in request message. */ /* Invalid time period in request message. */
IIPG	Input, Invalid Parameter Grouping /* Invalid location for requested montype. */
SROF	Status, Requested Operation Failed /* Unable to determine facility type. */ /* Unable to convert montype <MONTYPE> to string. */ /* Unable to process montype <MONTYPE>. */ /* Could not write to report file. */

EXAMPLES

In the following example, the system provisioning default threshold level settings for the near–end and far–end 15–Minute coding violations, line (CV–L) registers are retrieved.

```
RTRV-DFLTTH-OC12::::CVL,,15-MIN;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71042. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P71042 COMPLD
",OC12:CVL,NEND,4666,15-MIN"
",OC12:CVL,FEND,4666,15-MIN"
/* RTRV-DFLTTH-OC12::::CVL,,15-MIN [P71042] (1) */
;
```


RELATED COMMANDS

ENT-OC12
INIT-REG-OC12
RTRV-PM-OC12
RTRV-PMATTR-ALL
RTRV-PMODE-OC12
RTRV-TH-OC12
SET-DFLTTH-OC12
SET-PMATTR-ALL
SET-PMODE-OC12
SET-TH-OC12

RELATED AUTONOMOUS RESPONSES

REPT^EVT^OC12

COMMAND CODE: **RTRV-DFLTTH-OC3**
COMMAND NAME: **RETRIEVE DEFAULT THRESHOLD OC-3**

PURPOSE

The RTRV-DFLTTH-OC3 command retrieves the system provisioning default threshold level (THLEV) for the monitored PM (Performance Monitoring) parameter identified by MONTYPE (monitored parameter type), LOCN (near-end or far-end location), and TMPER (15-minute or 1-day). (The system default THLEV for each monitored OC3 PM parameter is set via the SET-DFLTTH-OC3 command.)

The successful response for a RTRV-DFLTTH-OC3 command contains one line of parsable output data for each monitored parameter's system default threshold level setting being reported.

A RTRV-DFLTTH-OC3 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-DFLTTH-OC3 : [TID] :: [CTAG] :: [MONTYPE] , [LOCN] , [TMPER] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

MONTYPE	{ALL}, NEAR_END_PARAMETERS:{AISS, AISS-L, AISSL, CV-L, CVL, CV-S, CVS, ES-L, ESL, ES-S, ESS, ESA-L, ESAL, ESA-S, ESAS, ESB-L, ESBL, ESB-S, ESBS, FC-L, FCL, LOSS, LOSS-S, PSC, PSC-L, PSCL, PSD, PSD-L, PSDL, SEFS, SEFS-S, SES-L, SESL, SES-S, SESS, UAS-L, UASL}, FAR_END_PARAMETERS:{AISS, AISS-L, AISSL, CV-L, CVL, ES-L, ESL, ESA-L, ESAL, ESB-L, ESBL, FC-L, FCL, SES-L, SESL, UAS-L, UASL}
Default:	{ALL}
Addressing:	None
Description:	Monitored Parameter Type, identifies the type of monitored parameter whose system default threshold level setting is being retrieved. A parameter may be specified by more than one value, e.g., parameter values may be entered with or without the dash (-). Refer to Appendix F, Monitored PM Parameters for a list of all monitored PM parameters. Values are:
ALL	All, all monitored parameter PM registers.
AISS, AISS-L, AISSL	Alarm Indication Signal Seconds – Line, AISS register.
CV-L, CVL	Coding Violations – Line, CV-L register.
CV-S, CVS	Coding Violations – Section, CV-S register. (Near-end only.)
ES-L, ESL	Errored Seconds – Line, ES-L register.
ES-S, ESS	Errored Seconds – Section, ES-S register. (Near-end only.)
ESA-L, ESAL	Errored Seconds type A – Line, ESA-L register.
ESA-S, ESAS	Errored Seconds type A – Section, ESA-S register. (Near-end only.)
ESB-L, ESBL	Errored Seconds type B – Line, ESB-L register.
ESB-S, ESBS	Errored Seconds type B – Section, ESB-S register. (Near-end only.)
FC-L, FCL	Failure Counts – Line, FC-L register.
LOSS, LOSS-S	Loss Of Signal Seconds – Section, LOSS register. (Near-end only.)
PSC, PSC-L, PSCL	Protection Switch Counts – Line, PSC-L register. (Near-end only.)
PSD, PSD-L, PSDL	Protection Switch Duration – Line, PSD-L register. (Near-end only.)
SEFS, SEFS-S	Severely Errored Frame Seconds – Section, SEFS-S register. (Near-end only.)
SES-L, SESL	Severely Errored Seconds – Line, SES-L register.
SES-S, SESS	Severely Errored Seconds – Section, SES-S register. (Near-end only.)
UAS-L, UASL	Unavailable Seconds – Line, UAS-L register.
Restrictions:	RTRV-DFLTTH-OC3 is denied if the specified MONTYPE value is not supported for the specified LOCN value (e.g., MONTYPE of CV-S and LOCN of FEND is entered).

LOCN	{FEND, NEND}	
	Default:	< All applicable locations for the selected monitored parameters >
	Addressing:	None
	Description:	Location, specifies whether system default threshold levels for near-end or far-end monitored parameters are to be retrieved. Values are:
	FEND	Far-End
TMPER	NEND	Near-End
	Restrictions:	RTRV-DFLTTH-OC3 is denied if the specified MONTYPE value is not supported for the specified LOCN value (e.g., MONTYPE of CV-S and LOCN of FEND is entered).
	{15-MIN, 1-DAY}	
	Default:	{15-MIN}
	Addressing:	None
	Description:	Time Period, specifies whether system default threshold levels for the 15-minute or the daily (24 hour) PM collection register for the specified parameter is to be retrieved. Values are:
	15-MIN	15-Minute PM collection register
	1-DAY	1-Day (24 hour) PM collection register

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
",OC3:<MONTYPE>,<LOCN>,<THLEV>,<TMPER>"
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

OUTPUT PARAMETERS

MONTYPE	NEAR_END_PARAMETERS:{AISS, CVL, CVS, ESL, ESS, ESA-L, ESA-S, ESB-L, ESB-S, FC-L, LOSS, PSC-L, PSD-L, SEFS, SESL, SESS, UASL},	
	FAR_END_PARAMETERS:{AISS, CVL, ESL, ESA-L, ESB-L, FC-L, SESL, UASL}	
	Monitored Parameter Type, identifies the monitored parameter. Refer to Appendix F, Monitored PM Parameters for a list of all monitored PM parameters. Values are:	
	AISS	Alarm Indication Signal Seconds – Line, AISS register.
	CVL	Coding Violations – Line, CV-L register.
	CVS	Coding Violations – Section, CV-S register.
	ESL	Errored Seconds – Line, ES-L register.
	ESS	Errored Seconds – Section, ES-S register.
	ESA-L	Errored Seconds type A – Line, ESA-L register.
	ESA-S	Errored Seconds type A – Section, ESA-S register.
	ESB-L	Errored Seconds type B – Line, ESB-L register.
	ESB-S	Errored Seconds type B – Section, ESB-S register.
	FC-L	Failure Counts – Line, FC-L register.
	LOSS	Loss Of Signal Seconds – Section, LOSS register.
	PSC-L	Protection Switch Counts – Line, PSC-L register.
	PSD-L	Protection Switch Duration – Line, PSD-L register.
	SEFS	Severely Errored Frame Seconds – Section, SEFS-S register.
	SESL	Severely Errored Seconds – Line, SES-L register.
	SESS	Severely Errored Seconds – Section, SES-S register.
	UASL	Unavailable Seconds – Line, UAS-L register.
LOCN	{FEND, NEND}	
	Location, indicates whether system default threshold levels for near-end or far-end monitored parameters are being reported. Values are:	
	FEND	Far-End
	NEND	Near-End

THLEV	{0–4294967295}	Threshold Level, indicates the value of the system provisioning default threshold level for the indicated parameter. A value of zero (0) indicates PM threshold crossings are not autonomously reported.
TMPER	{15–MIN, 1–DAY}	Time Period, identifies the accumulation time period for the indicated parameter. Values are:
	15–MIN	15–Minute PM collection register
	1–DAY	1–Day (24 hour) PM collection register

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non–Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid
	/* Invalid location in request message. */
	/* Invalid montype in request message. */
	/* Invalid time period in request message. */
IIPG	Input, Invalid Parameter Grouping
	/* Invalid location for requested montype. */
SROF	Status, Requested Operation Failed
	/* Unable to determine facility type. */
	/* Unable to convert montype <MONTYPE> to string. */
	/* Unable to process montype <MONTYPE>. */
	/* Could not write to report file. */

EXAMPLES

In the following example, the system provisioning default threshold level settings for the near–end and far–end 15–Minute coding violations, line (CV–L) registers are retrieved.

```
RTRV-DFLTTH-OC3:::::CVL,,15-MIN;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71042. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```

<SID> <YY-MM-DD> <HH:MM:SS>
M P71042 COMPLD
  ",OC3:CVL,NEND,4666,15-MIN"
  ",OC3:CVL,FEND,4666,15-MIN"
  /* RTRV-DFLTTH-OC3:::::CVL,,15-MIN [P71042] (1) */
;

```

RELATED COMMANDS

ENT-OC3
INIT-REG-OC3
RTRV-PM-OC3
RTRV-PMATTR-ALL
RTRV-PMODE-OC3
RTRV-TH-OC3
SET-DFLTTH-OC3
SET-PMATTR-ALL
SET-PMODE-OC3
SET-TH-OC3

RELATED AUTONOMOUS RESPONSES

REPT^EVT^OC3

COMMAND CODE: **RTRV-DFLTTH-STS1**
COMMAND NAME: **RETRIEVE DEFAULT THRESHOLD STS-1**

PURPOSE

The RTRV-DFLTTH-STS1 command retrieves the system provisioning default threshold level (THLEV) for the monitored PM (Performance Monitoring) parameter identified by MONTYPE (monitored parameter type), LOCN (near-end or far-end location), and TMPER (15-minute or 1-day). (The system default THLEV for each monitored STS-1 PM parameter is set via the SET-DFLTTH-STS1 command.)

The successful response for a RTRV-DFLTTH-STS1 command contains one line of parsable output data for each monitored parameter's system default threshold level setting being reported.

A RTRV-DFLTTH-STS1 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-DFLTTH-STS1: [TID] :: [CTAG] :: [MONTYPE] , [LOCN] , [TMPER] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.																
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.																
MONTYPE	{ALL}, NEAR_END_PARAMETERS:{ALS-P, ALSP, CV-P, CVP, ES-P, ESP, ESA-P, ESAP, ESB-P, ESBP, FC-P, FCP, SES-P, SESP, UAS-P, UASP}, FAR_END_PARAMETERS:{ALS-P, ALSP, CV-P, CVP, ES-P, ESP, ESA-P, ESAP, ESB-P, ESBP, FC-P, FCP, SES-P, SESP, UAS-P, UASP} Default: {ALL} Addressing: None Description: Monitored Parameter Type, identifies the type of monitored parameter whose system default threshold level setting is being retrieved. A parameter may be specified by more than one value, e.g., parameter values may be entered with or without the dash (-). Refer to Appendix F, Monitored PM Parameters for a list of all monitored PM parameters. Values are: <table><tr><td>ALL</td><td>All, all monitored parameter PM registers.</td></tr><tr><td>ALS-P, ALSP</td><td>Alarm Indication Signal/Loss of Pointer - Path, ALS-P register.</td></tr><tr><td>CV-P, CVP</td><td>Coding Violations - Path, CV-P register.</td></tr><tr><td>ES-P, ESP</td><td>Errored Seconds - Path, ES-P register.</td></tr><tr><td>ESA-P, ESAP</td><td>Errored Seconds type A - Path, ESA-P register.</td></tr><tr><td>ESB-P, ESBP</td><td>Errored Seconds type B - Path, ESB-P register.</td></tr><tr><td>FC-P, FCP</td><td>Failure Counts - Path, FC-P register.</td></tr><tr><td>SES-P, SESP</td><td>Severely Errored Seconds - Path, SES-P register.</td></tr></table>	ALL	All, all monitored parameter PM registers.	ALS-P, ALSP	Alarm Indication Signal/Loss of Pointer - Path, ALS-P register.	CV-P, CVP	Coding Violations - Path, CV-P register.	ES-P, ESP	Errored Seconds - Path, ES-P register.	ESA-P, ESAP	Errored Seconds type A - Path, ESA-P register.	ESB-P, ESBP	Errored Seconds type B - Path, ESB-P register.	FC-P, FCP	Failure Counts - Path, FC-P register.	SES-P, SESP	Severely Errored Seconds - Path, SES-P register.
ALL	All, all monitored parameter PM registers.																
ALS-P, ALSP	Alarm Indication Signal/Loss of Pointer - Path, ALS-P register.																
CV-P, CVP	Coding Violations - Path, CV-P register.																
ES-P, ESP	Errored Seconds - Path, ES-P register.																
ESA-P, ESAP	Errored Seconds type A - Path, ESA-P register.																
ESB-P, ESBP	Errored Seconds type B - Path, ESB-P register.																
FC-P, FCP	Failure Counts - Path, FC-P register.																
SES-P, SESP	Severely Errored Seconds - Path, SES-P register.																

	UAS-P, UASP	Unavailable Seconds – Path, UAS-P register.
LOCN	{FEND, NEND}	
	Default:	< All applicable locations for the selected monitored parameters >
	Addressing:	None
	Description:	Location, specifies whether system default threshold levels for near-end or far-end monitored parameters are to be retrieved. Values are:
	FEND	Far-End
	NEND	Near-End
TMPER	{15-MIN, 1-DAY}	
	Default:	{15-MIN}
	Addressing:	None
	Description:	Time Period, specifies whether system default threshold levels for the 15-minute or the daily (24 hour) PM collection register for the specified parameter is to be retrieved. Values are:
	15-MIN	15-Minute PM collection register
	1-DAY	1-Day (24 hour) PM collection register

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
", STS1: <MONTYPE>, <LOCN>, <THLEV>, <TMPER>"
[/* <Command Echo> [<CTAG>] (<CID [-VCNUM] >) */]
;

```

OUTPUT PARAMETERS

MONTYPE	NEAR_END_PARAMETERS:{ALS-P, CVP, ESP, ESA-P, ESB-P, FC-P, SESP, UASP}, FAR_END_PARAMETERS:{ALS-P, CVP, ESP, ESA-P, ESB-P, FC-P, SESP, UASP} Monitored Parameter Type, identifies the monitored parameter. Refer to Appendix F, Monitored PM Parameters for a list of all monitored PM parameters. Values are:
	ALS-P Alarm Indication Signal/Loss of Pointer – Path, ALS-P register.
	CVP Coding Violations – Path, CV-P register.
	ESP Errored Seconds – Path, ES-P register.
	ESA-P Errored Seconds type A – Path, ESA-P register.
	ESB-P Errored Seconds type B – Path, ESB-P register.
	FC-P Failure Counts – Path, FC-P register.
	SESP Severely Errored Seconds – Path, SES-P register.
	UASP Unavailable Seconds – Path, UAS-P register.
LOCN	{FEND, NEND} Location, indicates whether system default threshold levels for near-end or far-end monitored parameters are being reported. Values are:
	FEND Far-End
	NEND Near-End
THLEV	{0-4294967295} Threshold Level, indicates the value of the system provisioning default threshold level for the indicated parameter. A value of zero (0) indicates PM threshold crossings are not autonomously reported.
TMPER	{15-MIN, 1-DAY} Time Period, identifies the accumulation time period for the indicated parameter. Values are:
	15-MIN 15-Minute PM collection register
	1-DAY 1-Day (24 hour) PM collection register

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid /* Invalid location in request message. */ /* Invalid montype in request message. */ /* Invalid time period in request message. */
IIPG	Input, Invalid Parameter Grouping /* Invalid location for requested montype. */
SROF	Status, Requested Operation Failed /* Unable to determine facility type. */ /* Unable to convert montype <MONTYPE> to string. */ /* Unable to process montype <MONTYPE>. */ /* Could not write to report file. */

EXAMPLES

In the following example, the system provisioning default threshold level setting for the near-end and far-end 15-Minute coding violations, path (CV-P) registers are retrieved.

```
RTRV-DFLTTH-STs1::::CVP,,15-MIN;

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71042. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

<SID> <YY-MM-DD> <HH:MM:SS>
M P71042 COMPLD
  ",STs1:CVP,NEND,4666,15-MIN"
  ",STs1:CVP,FEND,4666,15-MIN"
  /* RTRV-DFLTTH-STs1::::CVP,,15-MIN [P71042] (1) */
;
```

RELATED COMMANDS

ENT-STS1
INIT-REG-STS1
RTRV-PM-STS1
RTRV-PMATTR-ALL
RTRV-PMODE-STS1
RTRV-TH-STS1
SET-DFLTH-STS1
SET-PMATTR-ALL
SET-PMODE-STS1
SET-TH-STS1

RELATED AUTONOMOUS RESPONSES

REPT^EVT^STS1

COMMAND CODE: **RTRV-DFLTTH-STS3C**
COMMAND NAME: **RETRIEVE DEFAULT THRESHOLD
STS-3C**

PURPOSE

The RTRV-DFLTTH-STS3C command retrieves the system provisioning default threshold level (THLEV) for the monitored PM (Performance Monitoring) parameter identified by MONTYPE (monitored parameter type), LOCN (near-end or far-end location), and TMPER (15-minute or 1-day). (The system default THLEV for each monitored STS-3C PM parameter is set via the SET-DFLTTH-STS3C command.)

The successful response for a RTRV-DFLTTH-STS3C command contains one line of parsable output data for each monitored parameter's system default threshold level setting being reported.

A RTRV-DFLTTH-STS3C command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-DFLTTH-STS3C: [TID] :: [CTAG] :: [MONTYPE] , [LOCN] , [TMPER] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
MONTYPE	{ALL}, NEAR_END_PARAMETERS:{ALS-P, ALSP, CV-P, CVP, ES-P, ESP, ESA-P, ESAP, ESB-P, ESBP, FC-P, FCP, SES-P, SESP, UAS-P, UASP}, FAR_END_PARAMETERS:{ALS-P, ALSP, CV-P, CVP, ES-P, ESP, ESA-P, ESAP, ESB-P, ESBP, FC-P, FCP, SES-P, SESP, UAS-P, UASP} Default: {ALL} Addressing: None Description: Monitored Parameter Type, identifies the type of monitored parameter whose system default threshold level setting is being retrieved. A parameter may be specified by more than one value, e.g., parameter values may be entered with or without the dash (-). Refer to Appendix F, Monitored PM Parameters for a list of all monitored PM parameters. Values are: ALL All, all monitored parameter PM registers. ALS-P, ALSP Alarm Indication Signal/Loss of Pointer – Path, ALS-P register. CV-P, CVP Coding Violations – Path, CV-P register. ES-P, ESP Errored Seconds – Path, ES-P register. ESA-P, ESAP Errored Seconds type A – Path, ESA-P register. ESB-P, ESBP Errored Seconds type B – Path, ESB-P register. FC-P, FCP Failure Counts – Path, FC-P register. SES-P, SESP Severely Errored Seconds – Path, SES-P register. UAS-P, UASP Unavailable Seconds – Path, UAS-P register.

LOCN	{FEND, NEND}
	Default: < All applicable locations for the selected monitored parameters >
	Addressing: None
	Description: Location, specifies whether system default threshold levels for near-end or far-end monitored parameters are to be retrieved. Values are:
	FEND Far-End
	NEND Near-End
TMPER	{15-MIN, 1-DAY}
	Default: {15-MIN}
	Addressing: None
	Description: Time Period, specifies whether system default threshold levels for the 15-minute or the daily (24 hour) PM collection register for the specified parameter is to be retrieved. Values are:
	15-MIN 15-Minute PM collection register
	1-DAY 1-Day (24 hour) PM collection register

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
",STS3C:<MONTYPE>,<LOCN>,<THLEV>,<TMPER>"
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

MONTYPE	NEAR_END_PARAMETERS:{ALS-P, CVP, ESP, ESA-P, ESB-P, FC-P, SESP, UASP},	
	FAR_END_PARAMETERS:{ALS-P, CVP, ESP, ESA-P, ESB-P, FC-P, SESP, UASP}	
	Monitored Parameter Type, identifies the monitored parameter. Refer to Appendix F, Monitored PM Parameters for a list of all monitored PM parameters. Values are:	
	ALS-P	Alarm Indication Signal/Loss of Pointer – Path, ALS-P register.
	CVP	Coding Violations – Path, CV-P register.
	ESP	Errored Seconds – Path, ES-P register.
	ESA-P	Errored Seconds type A – Path, ESA-P register.
	ESB-P	Errored Seconds type B – Path, ESB-P register.
	FC-P	Failure Counts – Path, FC-P register.
	SESP	Severely Errored Seconds – Path, SES-P register.
LOCN	{FEND, NEND}	
	Location, indicates whether system default threshold levels for near-end or far-end monitored parameters are being reported. Values are:	
	FEND	Far-End
	NEND	Near-End
THLEV	{0-4294967295}	Threshold Level, indicates the value of the system provisioning default threshold level for the indicated parameter. A value of zero (0) indicates PM threshold crossings are not autonomously reported.
TMPER	{15-MIN, 1-DAY}	
	Time Period, identifies the accumulation time period for the indicated parameter. Values are:	
	15-MIN	15-Minute PM collection register
	1-DAY	1-Day (24 hour) PM collection register

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid /* Invalid location in request message. */ /* Invalid montype in request message. */ /* Invalid time period in request message. */
IIPG	Input, Invalid Parameter Grouping /* Invalid location for requested montype. */
SROF	Status, Requested Operation Failed /* Unable to determine facility type. */ /* Unable to convert montype <MONTYPE> to string. */ /* Unable to process montype <MONTYPE>. */ /* Could not write to report file. */

EXAMPLES

In the following example, the system provisioning default threshold level setting for the near-end and far-end 15-Minute coding violations, path (CV-P) registers are retrieved.

```
RTRV-DFLTTH-ST3C:::CVP,,15-MIN;

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71042. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

<SID> <YY-MM-DD> <HH:MM:SS>
M P71042 COMPLD
  ",ST3C:CVP,NEND,4666,15-MIN"
  ",ST3C:CVP,FEND,4666,15-MIN"
  /* RTRV-DFLTTH-ST3C:::CVP,,15-MIN [P71042] (1) */
;
```

RELATED COMMANDS

```
ENT-ST3C
INIT-REG-ST3C
RTRV-PM-ST3C
RTRV-PMATTR-ALL
RTRV-PMODE-ST3C
RTRV-TH-ST3C
SET-DFLTTH-ST3C
SET-PMATTR-ALL
SET-PMODE-ST3C
SET-TH-ST3C
```

RELATED AUTONOMOUS RESPONSES

```
REPT^EVT^ST3C
```


COMMAND CODE: **RTRV-DFLTTH-T1**
COMMAND NAME: **RETRIEVE DEFAULT THRESHOLD T1**

PURPOSE

The RTRV-DFLTTH-T1 command retrieves the system provisioning default threshold level (THLEV) for the monitored PM (Performance Monitoring) parameter identified by MONTYPE (monitored parameter type), LOCN (near-end or far-end location), and TMPER (15-minute or 1-day). (The system default THLEV for each monitored DS1 PM parameter is set via the SET-DFLTTH-T1 command.)

The successful response for a RTRV-DFLTTH-T1 command contains one line of parsable output data for each monitored parameter's system default threshold level setting being reported.

A RTRV-DFLTTH-T1 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-DFLTTH-T1 : [TID] :: [CTAG] :: [MONTYPE] , [LOCN] , [TMPER] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

MONTYPE	{ALL},
	NEAR_END_PARAMETERS:{AISS, AISS-P, AISSP, CV-L, CVL, CV-P, CVP, ES-L, ESL, ES-P, ESP, ESA-P, ESAP, ESB-P, ESBP, FC-P, FCP, LOSS, LOSS-L, LOSSL, QRSSS, QRSSS-P, QRSSSP, SAS-P, SASP, SES-L, SESL, SES-P, SESP, UAS-P, UASP},
	FAR_END_PARAMETERS:{CSS, CSS-P, CSSP, CV-P, CVP, ES-L, ESL, ES-P, ESP, ESA-P, ESAP, ESB-P, ESBP, FC-P, FCP, SEFS, SEFS-P, SEFSP, SES-P, SESP, UAS-P, UASP}
Default:	{ALL}
Addressing:	None
Description:	Monitored Parameter Type, identifies the type of monitored parameter whose system default threshold level setting is being retrieved. A parameter may be specified by more than one value, e.g., parameter values may be entered with or without the dash (-). Refer to Appendix F, Monitored PM Parameters for a list of all monitored PM parameters. Values are:
ALL	All, all monitored parameter PM registers.
AISS, AISS-P, AISSP	Alarm Indication Signal Seconds – Path, AISS register. (Near-end only.)
CSS, CSS-P, CSSP	Controlled Slip Seconds – Path, CSS register. (Far-end only.)
CV-L, CVL	Coding Violations – Line, CV-L register. (Near-end electrical T1 only.)
CV-P, CVP	Coding Violations – Path, CV-P register.
ES-L, ESL	Errored Seconds – Line, ES-L register. (Near-end electrical T1 or Far-end embedded T1.)
ES-P, ESP	Errored Seconds – Path, ES-P register.
ESA-P, ESAP	Errored Seconds type A – Path, ESA-P register.
ESB-P, ESBP	Errored Seconds type B – Path, ESB-P register.
FC-P, FCP	Failure Count – Path, FC-P register.
LOSS, LOSS-L, LOSSL	Loss of Signal Seconds – Line, LOSS register. (Near-end electrical T1 only.)
QRSSS, QRSSS-P, QRSSSP	QRSS Seconds – Path, QRSSS-P register. (Near-end only.)
SAS-P, SASP	Severe AIS Seconds – Path, SAS-P register. (Near-end only.)
SEFS, SEFS-P, SEFSP	Severely Errored Frame Seconds, SEFS register. (Far-end only.)
SES-L, SESL	Severely Errored Seconds – Line, SES-L register. (Near-end electrical T1 only.)
SES-P, SESP	Severely Errored Seconds – Path, SES-P register.
UAS-P, UASP	Unavailable Seconds – Path, UAS-P register.
Restrictions:	RTRV-DFLTTH-T1 is denied if the specified MONTYPE value is not supported for the specified LOCN value (e.g., MONTYPE of AISS and LOCN of FEND is entered).

LOCN	{FEND, NEND}	
	Default:	< All applicable locations for the selected monitored parameters >
	Addressing:	None
	Description:	Location, specifies whether system default threshold levels for near-end or far-end monitored parameters are to be retrieved. Values are:
	FEND	Far-End
TMPER	NEND	Near-End
	Restrictions:	RTRV-DFLTTH-T1 is denied if the specified MONTYPE value is not supported for the specified LOCN value (e.g., MONTYPE of AISS and LOCN of FEND is entered).
	{15-MIN, 1-DAY}	
	Default:	{15-MIN}
	Addressing:	None
	Description:	Time Period, specifies whether system default threshold levels for the 15-minute or the daily (24 hour) PM collection register for the specified parameter is to be retrieved. Values are:
	15-MIN	15-Minute PM collection register
	1-DAY	1-Day (24 hour) PM collection register

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
", T1:<MONTYPE>, <LOCN>, <THLEV>, <TMPER>"
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

OUTPUT PARAMETERS

MONTYPE	{NEAR_END_PARAMETERS:{AISS, CVL, CVP, ESA-P, ESB-P, ESL, ESP, FC-P, LOSS, QRSSS-P, SAS-P, SESL, SESP, UASP},	
	FAR_END_PARAMETERS:{CSS, CVP, ESA-P, ESB-P, ESL, ESP, FC-P, SEFS, SESP, UASP} }	
	Monitored Parameter Type, identifies the monitored parameter. Refer to Appendix F, Monitored PM Parameters for a list of all monitored PM parameters. Values are:	
	AISS	AIS Seconds – Path, AISS register.
	CSS	Controlled Slip Seconds – Path, CSS register.
	CVL	Coding Violations – Line, CV-L register.
	CVP	Coding Violations – Path, CV-P register.
	ESP	Errored Seconds – Path, ES-P register.
	ESA-P	Errored Seconds type A – Path, ESA-P register.
	ESB-P	Errored Seconds type B – Path, ESB-P register.
	ESL	Errored Seconds – Line, ES-L register.
	FC-P	Failure Count – Path, FC-P register.
	LOSS	Loss of Signal Seconds – Line, LOSS register.
	QRSSS-P	QRSSS – Path, QRSSS-P register.
	SAS-P	Severe AIS Seconds – Path, SAS-P register.
	SEFS	Severely Errored Frame Seconds, SEFS register.
	SESL	Severely Errored Seconds – Line, SES-L register.
	SESP	Severely Errored Seconds – Path, SES-P register.
	UASP	Unavailable Seconds – Path, UAS-P register.
LOCN	{FEND, NEND}	
	Location, indicates whether system default threshold levels for near-end or far-end monitored parameters are being reported. Values are:	
	FEND	Far-End
	NEND	Near-End

THLEV	{0–4294967295}	Threshold Level, indicates the value of the system provisioning default threshold level for the indicated parameter. A value of zero (0) indicates PM threshold crossings are not autonomously reported.
TMPER	{15–MIN, 1–DAY}	Time Period, identifies the accumulation time period for the indicated parameter. Values are:
	15–MIN	15–Minute PM collection register
	1–DAY	1–Day (24 hour) PM collection register

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non–Parser Error Codes used with this command are:

```

IDNV      Input, Data Not Valid
          /* Invalid location in request message. */
          /* Invalid montype in request message. */
          /* Invalid time period in request message. */
IIPG      Input, Invalid Parameter Grouping
          /* Invalid location for requested montype. */
SROF      Status, Requested Operation Failed
          /* Unable to determine facility type. */
          /* Unable to convert montype <MONTYPE> to string. */
          /* Unable to process montype <MONTYPE>. */
          /* Could not write to report file. */

```

EXAMPLES

In the following example, the system provisioning default threshold level settings for the near–end and far–end 15–Minute coding violations, path (CV–P) registers are retrieved.

```
RTRV-DFLTTH-T1::::CVP,,15-MIN;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71042. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```

<SID> <YY-MM-DD> <HH:MM:SS>
M P71042 COMPLD
  ",T1:CVP,NEND,13340,15-MIN"
  ",T1:CVP,FEND,13340,15-MIN"
  /* RTRV-DFLTTH-T1::::CVP,,15-MIN [P71042] (1) */
;
ENT-T1
INIT-REG-T1
RTRV-PM-T1
RTRV-PMATTR-ALL
RTRV-PMMODE-T1

```

RTRV-TH-T1
SET-DFLTTH-T1
SET-PMATTR-ALL
SET-PMODE-T1
SET-TH-T1

RELATED AUTONOMOUS RESPONSES

REPT^EVT^T1

COMMAND CODE: **RTRV-DFLTTH-T3**
COMMAND NAME: **RETRIEVE DEFAULT THRESHOLD T3**

PURPOSE

The RTRV-DFLTTH-T3 command retrieves the system provisioning default threshold level (THLEV) for the monitored PM (Performance Monitoring) parameter identified by MONTYPE (monitored parameter type), LOCN (near-end or far-end location), and TMPER (15-minute or 1-day). (The system default THLEV for each monitored DS3 PM parameter is set via the SET-DFLTTH-T3 command.)

The successful response for a RTRV=DFLTTH=T3 command contains one line of parsable output data for each monitored parameter's system default threshold level setting being reported.

A RTRV-DFLTTH-T3 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

```
RTRV=DFLTTH-T3:[TID]::[CTAG]::[MONTYPE],[LOCN],[TMPER];
```

INPUT PARAMETERS

TID	< 1–20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1–6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
MONTYPE	{ALL} NEAR_END_PARAMETERS:{AISS, AISS-P, AISSP, CV-L, CVL, CV-P, CVP, CVCP-P, CVCPP, ES-L, ESL, ES-P, ESP, ESA-L, ESAL, ESA-P, ESAP, ESACP-P, ESACPP, ESB-L, ESDL, ESB-P, ESBP, EBCP-P, EBCPP, ESCP-P, ESCPP, FC-P, FCP, LOSS, LOSS-L, LOSSL, SAS-P, SASP, SES-L, SEL, SES-P, SESP, SESCP-P, SESCOP, UAS-P, UASP, UASCP-P, UASCOP}, FAR_END_PARAMETERS:{CVCPP, ESACP-P, ESACPP, EBCP-P, EBCPP, ESCP-P, ESCPP, FCCP-P, FCCPP, SASCP-P, SASCPP, SESCO-P, SESCOP, UASCP-P, UASCOP} Default: {ALL} Addressing: None Description: Monitored Parameter Type, identifies the type of monitored parameter whose system default threshold level setting is being retrieved. A parameter may be specified by more than one value, e.g., parameter values may be entered with or without the dash (-). Refer to Appendix F, Monitored PM Parameters for a list of all monitored PM parameters. Values are: <div style="margin-left: 40px;"> All All, all monitored parameter PM registers. AISS, AISS-P, AISSP Alarm Indication Signal Seconds – Path, AISS register. (Near-end only.) CV-L, CVL Coding Violations – Line, CV-L register. (Near-end electrical T3 only.) CV-P, CVP Coding Violations – Path, CV-P register. (Near-end only.) </div>

CVCP-P, CVCPP	Code Violations, CP-bit parity – Path, CVCP-P register.
ES-L, ESL	Errored Seconds – Line, ES-L register. (Near-end electrical T3 only.)
ES-P, ESP	Errored Seconds – Path, ES-P register. (Near-end only.)
ESA-L, ESAL	Errored Seconds type A – Line, ESA-L register. (Near-end electrical T3 only.)
ESA-P, ESAP	Errored Seconds type A – Path, ESA-P register. (Near-end only.)
ESACP-P, ESACPP	Errored Seconds type A, CP-bit parity – Path, ESACP-P register.
ESB-L, ESBL	Errored Seconds type B – Line, ESB-L register. (Near-end electrical T3 only.)
ESB-P, ESBP	Errored Seconds type B – Path, ESB-P register. (Near-end only.)
ESBCP-P, ESBCPP	Errored Seconds type B, CP-bit parity – Path, ESBCP-P register.
ESCP-P, ESCPP	Errored Seconds, CP-bit parity – Path, ESCP-P register.
FC-P, FCP	Failure Counts – Path, FC-P register. (Near-end only.)
FCCP-P, FCCPP	Failure Counts, CP-bit parity – Path, FC-P register. (Far-end only.)
LOSS, LOSS-L, LOSSL	Loss Of Signal Seconds – Line, LOSS register. (Near-end electrical T3 only.)
SAS-P, SASP	Severe AIS Seconds – Path, SAS-P register. (Near-end only.)
SASCP-P, SASCPP	Severe AIS Seconds, CP-bit parity – Path, SASCP-P register. (Far-end only.)
SES-L, SESL	Severely Errored Seconds – Line, SES-L register. (Near-end electrical T3 only.)
SES-P, SESP	Severely Errored Seconds – Path, SES-P register. (Near-end only.)
SESCP-P, SESCPP	Severely Errored Seconds, CP-bit parity – Path, SESCP-P register.
UAS-P, UASP	Unavailable Seconds – Path, UAS-P register. (Near-end only.)
UASCP-P, UASCPP	Unavailable Seconds, CP-bit parity – Path, UASCP-P register.
Restrictions:	RTRV-DFLTTH-T3 is denied if the specified MONTYPE value is not supported for the specified LOCN value (e.g., MONTYPE of AISS and LOCN of FEND is entered).
LOCN	{FEND, NEND}
Default:	< All applicable locations for the selected monitored parameters >
Addressing:	None
Description:	Location, specifies whether system default threshold levels for near-end or far-end monitored parameters are to be retrieved. Values are:
FEND	Far-End
NEND	Near-End
Restrictions:	RTRV-DFLTTH-T3 is denied if the specified MONTYPE value is not supported for the specified LOCN value (e.g., MONTYPE of AISS and LOCN of FEND is entered).

TMPER {15-MIN, 1-DAY}
Default: {15-MIN}
Addressing: None
Description: Time Period, specifies whether system default threshold levels for the 15-minute or the daily (24 hour) PM collection register for the specified parameter is to be retrieved. Values are:
 15-MIN 15-Minute PM collection register
 1-DAY 1-Day (24 hour) PM collection register

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
", T3 : <MONTYPE>, <LOCN>, <THLEV>, <TMPER>"
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

MONTYPE NEAR_END_PARAMETERS:{AISS, CVCP-P, CVL, CVP, ESA-L, ESA-P, ESACP-P, ESB-L, ESB-P, ESBCP-P, ESCP-P, ESL, ESP, FC-P, LOSS, SAS-P, SESCO-P, SESL, SESP, UASCP-P, UASP},
 FAR_END_PARAMETERS:{CVCP-P, ESACP-P, ESBCP-P, ESCP-P, FCCP-P, SASCP-P, SESCO-P, UASCP-P}
 Monitored Parameter Type, identifies the monitored parameter. Refer to Appendix F, Monitored PM Parameters for a list of all monitored PM parameters. Values are:

AISS	AIS Seconds – Path, AISS register.
CVCP-P	Coding Violations, CP-bit parity – Path, CVCP-P register.
CVL	Coding Violations – Line, CV-L register.
CVP	Coding Violations – Path, CV-P register.
ESA-L	Errored Seconds type A – Line, ESA-L register.
ESA-P	Errored Seconds type A – Path, ESA-P register.
ESACP-P	Errored Seconds type A, CP-bit parity – Path, ESACP-P register.
ESB-L	Errored Seconds type B – Line, ESB-L register.
ESB-P	Errored Seconds type B – Path, ESB-P register.
ESBCP-P	Errored Seconds type B, CP-bit parity – Path, ESBCP-P register.
ESCP-P	Errored Seconds, CP-bit parity – Path, ESCP-P register.
ESL	Errored Seconds – Line, ES-L register.
ESP	Errored Seconds – Path, ES-P register.
FC-P	Failure Counts – Path, FC-P register.
FCCP-P	Failure Counts, CP-bit parity – Path, FC-P register.
LOSS	Loss Of Signal Seconds – Line, LOSS register.
SAS-P	Severe AIS Seconds – Path, SAS-P register.
SASCP-P	Severe AIS Seconds, CP-bit parity – Path, SASCP-P register.
SESCO-P	Severely Errored Seconds, CP-bit parity – Path, SESCO-P register.
SESL	Severely Errored Seconds – Line, SES-L register.
SESP	Severely Errored Seconds – Path, SES-P register.
UASCP-P	Unavailable Seconds, CP-bit parity – Path, UASCP-P register.
UASP	Unavailable Seconds – Path, UAS-P register.

LOCN {FEND, NEND}
 Location, indicates whether system default threshold levels for near-end or far-end monitored parameters are being reported. Values are:

FEND	Far-End
NEND	Near-End

THLEV	{0–4294967295}	Threshold Level, indicates the value of the system provisioning default threshold level for the indicated parameter. A value of zero (0) indicates PM threshold crossings are not autonomously reported.
TMPER	{15–MIN, 1–DAY}	Time Period, identifies the accumulation time period for the indicated parameter. Values are:
	15–MIN	15–Minute PM collection register
	1–DAY	1–Day (24 hour) PM collection register

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non–Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid
	/* Invalid location in request message. */
	/* Invalid montype in request message. */
	/* Invalid time period in request message. */
IIPG	Input, Invalid Parameter Grouping
	/* Invalid location for requested montype. */
SROF	Status, Requested Operation Failed
	/* Unable to determine facility type. */
	/* Unable to convert montype <MONTYPE> to string. */
	/* Unable to process montype <MONTYPE>. */
	/* Could not write to report file. */

EXAMPLES

In the following example, the system provisioning default threshold level setting for the near–end 15–Minute coding violations, path (CV–P) register is retrieved.

```
RTRV-DFLTTH-T3::::CVP,,15-MIN;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71042. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```

<SID> <YY-MM-DD> <HH:MM:SS>
M P71042 COMPLD
",T3:CVP,NEND,13340,15-MIN"
/* RTRV-DFLTTH-T3::::CVP,,15-MIN [P71042] (1) */
;

```

RELATED COMMANDS

ENT-T3
INIT-REG-T3
RTRV-PM-T3
RTRV-PMATTR-ALL
RTRV-PMODE-T3
RTRV-TH-T3
SET-DFLTH-T3
SET-PMATTR-ALL
SET-PMODE-T3
SET-TH-T3

RELATED AUTONOMOUS RESPONSES

REPT^EVT^T3

COMMAND CODE: **RTRV-DFLTTH-VT1**
COMMAND NAME: **RETRIEVE DEFAULT THRESHOLD VT1**

PURPOSE

The RTRV-DFLTTH-VT1 command retrieves the system provisioning default threshold level (THLEV) for the monitored PM (Performance Monitoring) parameter identified by MONTYPE (monitored parameter type), LOCN (near-end or far-end location), and TMPER (15-minute or 1-day). (The system default THLEV for each monitored VT1.5 PM parameter is set via the SET-DFLTTH-VT1 command.)

The successful response for a RTRV-DFLTTH-VT1 command contains one line of parsable output data for each monitored parameter's system default threshold level setting being reported.

A RTRV-DFLTTH-VT1 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-DFLTTH-VT1: [TID] :: [CTAG] :: [MONTYPE] , [LOCN] , [TMPER] ;

INPUT PARAMETERS

TID	<p>< 1-20 VALID TID CHARACTERS ></p> <p>Default: <SID></p> <p>Addressing: None</p> <p>Description: Target Identifier, specifies the network node TID for the command.</p>																		
CTAG	<p>< 1-6 VALID CTAG CHARACTERS ></p> <p>Default: < System assigned CTAG value ></p> <p>Addressing: None</p> <p>Description: Correlation Tag, associates input command with its output responses.</p>																		
MONTYPE	<p>{ALL},</p> <p>NEAR_END_PARAMETERS:{ALS-V, ALSV, CV-V, CVV, ES-V, ESV, ESA-V, ESAV, ESB-V, ESBV, FC-V, FCV, SES-V, SESV, UAS-V, UASV},</p> <p>FAR_END_PARAMETERS:{ALS-V, ALSV, CV-V, CVV, ES-V, ESV, ESA-V, ESAV, ESB-V, ESBV, FC-V, FCV, SES-V, SESV, UAS-V, UASV}</p> <p>Default: {ALL}</p> <p>Addressing: None</p> <p>Description: Monitored Parameter Type, identifies the type of monitored parameter whose system default threshold level setting is being retrieved. A parameter may be specified by more than one value, e.g., parameter values may be entered with or without the dash (-). Refer to Appendix F, Monitored PM Parameters for a list of all monitored PM parameters. Values are:</p> <table> <tr> <td>ALL</td><td>All, all monitored parameter PM registers.</td></tr> <tr> <td>ALS-V, ALSV</td><td>Alarm Indication Signal/Loss of Pointer - VT Path, ALS-V register.</td></tr> <tr> <td>CV-V, CVV</td><td>Coding Violations - VT Path, CV-V register.</td></tr> <tr> <td>ES-V, ESV</td><td>Errored Seconds - VT Path, ES-V register.</td></tr> <tr> <td>ESA-V, ESAV</td><td>Errored Seconds type A - VT Path, ESA-V register.</td></tr> <tr> <td>ESB-V, ESBV</td><td>Errored Seconds type B - VT Path, ESB-V register.</td></tr> <tr> <td>FC-V, FCV</td><td>Failure Counts - VT Path, FC-V register.</td></tr> <tr> <td>SES-V, SESV</td><td>Severely Errored Seconds - VT Path, SES-V register.</td></tr> <tr> <td>UAS-V, UASV</td><td>Unavailable Seconds - VT Path, UAS-V register.</td></tr> </table>	ALL	All, all monitored parameter PM registers.	ALS-V, ALSV	Alarm Indication Signal/Loss of Pointer - VT Path, ALS-V register.	CV-V, CVV	Coding Violations - VT Path, CV-V register.	ES-V, ESV	Errored Seconds - VT Path, ES-V register.	ESA-V, ESAV	Errored Seconds type A - VT Path, ESA-V register.	ESB-V, ESBV	Errored Seconds type B - VT Path, ESB-V register.	FC-V, FCV	Failure Counts - VT Path, FC-V register.	SES-V, SESV	Severely Errored Seconds - VT Path, SES-V register.	UAS-V, UASV	Unavailable Seconds - VT Path, UAS-V register.
ALL	All, all monitored parameter PM registers.																		
ALS-V, ALSV	Alarm Indication Signal/Loss of Pointer - VT Path, ALS-V register.																		
CV-V, CVV	Coding Violations - VT Path, CV-V register.																		
ES-V, ESV	Errored Seconds - VT Path, ES-V register.																		
ESA-V, ESAV	Errored Seconds type A - VT Path, ESA-V register.																		
ESB-V, ESBV	Errored Seconds type B - VT Path, ESB-V register.																		
FC-V, FCV	Failure Counts - VT Path, FC-V register.																		
SES-V, SESV	Severely Errored Seconds - VT Path, SES-V register.																		
UAS-V, UASV	Unavailable Seconds - VT Path, UAS-V register.																		

LOCN	{FEND, NEND}	
	Default:	< All applicable locations for the selected monitored parameters >
	Addressing:	None
	Description:	Location, specifies whether system default threshold levels for near-end or far-end monitored parameters are to be retrieved. Values are:
	FEND	Far-End
	NEND	Near-End
TMPER	{15-MIN, 1-DAY}	
	Default:	{15-MIN}
	Addressing:	None
	Description:	Time Period, specifies whether system default threshold levels for the 15-minute or the daily (24 hour) PM collection register for the specified parameter is to be retrieved. Values are:
	15-MIN	15-Minute PM collection register
	1-DAY	1-Day (24 hour) PM collection register

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  ",VT1:<MONTYPE>,<LOCN>,<THLEV>,<TMPER>"
  [/ * <Command Echo> [<CTAG>] (<CID [-VCNUM] >) */]
;

```

OUTPUT PARAMETERS

MONTYPE	{NEAR_END_PARAMETERS:{ALS-V, CVV, ESV, ESA-V, ESB-V, FC-V, SESV, UASV},	
	FAR_END_PARAMETERS:{ALS-V, CVV, ESV, ESA-V, ESB-V, FC-V, SESV, UASV} }	
	Monitored Parameter Type, identifies the monitored parameter. Refer to Appendix F, Monitored PM Parameters for a list of all monitored PM parameters. Values are:	
	ALS-V	Alarm Indication Signal/Loss of Pointer – VT Path, ALS-P register.
	CVV	Coding Violations VT Path, CV-V register.
	ESV	Errored Seconds VT Path, ES-V register.
	ESA-V	Errored Seconds type A – VT Path, ESA-V register.
	ESB-V	Errored Seconds type B – VT Path, ESB-V register.
	FC-V	Failure Counts – VT Path, FC-V register.
	SESV	Severely Errored Seconds VT Path, SES-V register.
	UASV	Unavailable Seconds VT Path, UAS-V register.
LOCN	{FEND, NEND}	
	Location, indicates whether system default threshold levels for near-end or far-end monitored parameters are being reported. Values are:	
	FEND	Far-End
	NEND	Near-End
THLEV	{0-4294967295}	
	Threshold Level, indicates the value of the system provisioning default threshold level for the indicated parameter. A value of zero (0) indicates PM threshold crossings are not autonomously reported.	
TMPER	{15-MIN, 1-DAY}	
	Time Period, identifies the accumulation time period for the indicated parameter. Values are:	
	15-MIN	15-Minute PM collection register
	1-DAY	1-Day (24 hour) PM collection register

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid /* Invalid location in request message. */ /* Invalid montype in request message. */ /* Invalid time period in request message. */
IIPG	Input, Invalid Parameter Grouping /* Invalid location for requested montype. */
SROF	Status, Requested Operation Failed /* Unable to determine facility type. */ /* Unable to convert montype <MONTYPE> to string. */ /* Unable to process montype <MONTYPE>. */ /* Could not write to report file. */

EXAMPLES

In the following example, the system provisioning default threshold level setting for the near-end and far-end 15-Minute coding violations, VT path (CV-V) registers are retrieved.

```
RTRV-DFLTTH-VT1:::::CVV,,15-MIN;

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71042. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

<SID> <YY-MM-DD> <HH:MM:SS>
M P71042 COMPLD
  ",VT1:CVV,NEND,4666,15-MIN"
  ",VT1:CVV,FEND,4666,15-MIN"
  /* RTRV-DFLTTH-VT1:::::CVP,,15-MIN [P71042] (1) */
;
```

RELATED COMMANDS

```
ENT-VT1
INIT-REG-VT1
RTRV-PM-VT1
RTRV-PMATTR-ALL
RTRV-PMODE-VT1
RTRV-TH-VT1
SET-DFLTTH-VT1
SET-PMATTR-ALL
SET-PMODE-VT1
SET-TH-VT1
```

RELATED AUTONOMOUS RESPONSES

```
REPT^EVT^VT1
```


COMMAND CODE: **RTRV-DGN-STATUS**
COMMAND NAME: **RETRIEVE DIAGNOSTIC STATUS**

PURPOSE

The RTRV-DGN-STATUS command retrieves the diagnostic test results stored on the system disk for the specified equipment entity.

The most recent diagnostic test results are stored on the system disk as a result of:

- A power-up diagnostic test (except the power-up diagnostic test results for a CPU, IPU, or SPB equipment entity).
- A RST-EQPT command (except the diagnostic test results for a CPU, IPU, or SPB equipment entity).
- A DGN-EQPT command.

The successful response to a RTRV-DGN-STATUS command contains a line of non-parsable output data which indicates the time of the last diagnostics (only reported if a diagnostic test has been executed), a line for each test phase executed on the specified equipment entity, and a line for each test phase that failed or had inconclusive test results.

If test results of a test phase for the specified equipment entity are not stored on the system disk (have not been executed), the output response displays "Not Available" as the test results.

Results of RTRV-DGN-STATUS are always inconclusive for any ACL link statistics test phase that is supported on a CIM. The results of any ACL link statistics test phase (e.g., number of link transmissions per unit interval) are reported as non-parsable free-format text in that particular test phase's <Result_Reason> output block.

A RTRV-DGN-STATUS command is denied if:

- The specified equipment entity is not provisioned (via ENT-EQPT).
- An invalid parameter value is entered.

INPUT FORMAT

RTRV-DGN-STATUS : [TID] :AID: [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	EQUIPMENT_AID: {ACM-1-2-{3-7, 10-14}} {CDA-{4, 5, 10, 11, 16, 17, 22, 23, 102, 103 }-3-1} {CDB-{5}-{1, 3}-{1, 2}} CDB-{2-43, 104-111 ,112-135, 136-141 }-{1, 3}-{1, 2} {SI36: CDB-{6-9, 12-15, 18-21, 24-43}-{1, 3}-{1-2}, SI48: CDB-{2-43, 104-111 ,112-135, 136-141 }-{1, 3}-{1, 2} {CIM-1-2-{3-7, 10-14}} {CPU-1-2-{1-2}} {DSB-{6-9, 12-15, 18-21, 24-43, 104-111 , 112-135, 136-141 }-{1, 3}-{1-2}} {DSI-{44-63}-{1-4}-{1-32}} {DSK-1-3-1, DSK-1-4-2} {EOB-{5}-{1, 3}-{1-5}} {SI48: EOB-{6-9, 12-15, 18-21, 24-43, 104-111 , 112-135, 136-141 }-{1, 3}-{1-2}, EOC: EOB-{4-5, 10-11, 16-17, 22-23, 102, 103 }-1-{1-7, 9-15}}

{SI48: EP3-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42,
104-106,108-110, 136-141}-{1, 3}-{1-18},
EP3-{9, 21, 35, 43, **107**}-3-{1-18},
EP3-{15, 27, 31, 39, **111**}-1-{1-18}}
{SI36: EP3-{6-8, 12-14}-{1, 3}-{1-14},
EP3-9-3-{1-14},
EP3-15-1-{1-14}}
{SI48: ES1-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42,
104-106,108-110,136-141}-{1, 3}-{1-18},
ES1-{9, 21, 35, 43,**107**}-3-{1-18},
ES1-{15, 27, 31, 39,**111**}-1-{1-18}}
{SI36: ES1-{6-8, 12-14}-{1, 3}-{1-14},
ES1-9-3-{1-14},
ES1-15-1-{1-14}}
{ESA-{44-63}-{1-4}-{1-2}}
{FAN-{1, 101}-0-1},
FAN-{2-63, **102-111, 112-135, 136-141**}-{1-3}-1}
{HMU-{44-53}-{1-4}-{1-8}}
{ICM-1-2-{1, 2, 8, 9}}
{IOB-{6-8, 12-14}-{1, 3}-{1, 3, 5, 7},
IOB-9-3-{1, 3, 5, 7},
IOB-15-1-{1, 3, 5, 7}}
{IPB-{6-9, 12-15, 18-21, 24-43, **104-111, 112-135, 136-141**}-{1, 3}-{1-2}}
{IPU-{44-63}-{1-4}-{1-8}}
{LMU-{44-53}-{1-4}-{1-32}}
{LT1-1-1-{1-6}}
{LT2-1-1-{1-6}}
{LT4-1-1-{7-16}}
{LT5-1-1-{2-6}}
{LT8-1-1-{7-16}}
{M16-{2-5, 10-11, 16-17, 22-23}-3-{1-16}}
{M32-{4-5, 10-11, 16-17, 22-23, **102, 103**}-3-{1-16},
M32-{5}-{1, 3}-{1-3, 6-8}}
{M40-{2-3}-{1, 3}-{1-16}}
{M40-{5}-{1, 3}-{4, 5, 9, 10}}
{MCB-{2,3}-3-1}
{MCB-{5}-{1, 3}-{1}}
{O1B-{6-9, 12-15, 18-21, 24-43, **104-111, 112-135, 136-141**}-{1, 3}-{2-9, 11-18}}
{O4M-{6-9, 12-15, 18-21, 24-43, **104-111, 112-135, 136-141**}-{1, 3}-{2-3, 11-12}}
{OPD-1-3-1,
OPD-1-4-2}
{OXB-{44-63}-{1-4}-{1-2}}
{P39-{6-9, 12-15, 18-21, 24-43, **104-111, 112-135, 136-141**}-{1, 3}-{1-3},
P39-{4, 5, 10, 11, 16, 17, 22, 23, **102, 103**}-1-{1-3},
P39-{4, 5, 10, 11, 16, 17, 22, 23, **102, 103**}-3-{1-4},
P39-{5}-{1, 3}-{1-4}}
{P56-{6-9, 12-15, 18-21, 24-43, 112-135}-{1, 3}-{1-5},
P56-{2-3}-{1, 3}-{1-4},
P56-{4, 5, 10, 11, 16, 17, 22, 23}-1-{1-5},
P56-{6-9, 12-15, 18-21, 24-43, 112-135}-2-{1, 2, 5, 6, 9, 10, 13, 14},
P56-{4, 5, 10, 11, 16, 17, 22, 23}-2-{1, 2, 5, 6, 9, 10, 13},
P56-{2, 3}-2-{9, 10, 13},
P56-{2-5, 10, 11, 16, 17, 22, 23}-3-{1-4},
P56-{5}-{1, 3}-{1-4}}

{PDU-{2-43, **102-111**, 112-135, **136-141**}-0-1}
 {PRT-{44-63}-{1-4}-{8, 16, 24, 32}}
 {PSF-1-{3, 4}-{1, 2},
 PSF-{44-63}-{1-4}-{1-2}}
 {PST-1-{3, 4}-{1-2}}
 {RDU-{44-63}-0-1}
 {RPB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2}}
 {RSP-{1, 101}-0-1}
 {S3M-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{4-9, 13-18}}
 {SBT-1-2-{1-4}}
 {SHELF-{4-43, 102-141}-{1, 3}-1}
 {SHELF-{5}-{1, 3}-{1}}
 {SIO-1-2-{1-2, 8-9}}
 {SPB-{2-43, **102-111**, 112-135, **136-141**}-{1, 3}-{1-2}}
 {SPB-{5}-{1, 3}-{1, 2}}
 {SWI-{44-63}-{1-4}-{1-7, 9-15, 17-23, 25-31}}
Default: Entry Required
Addressing: None
Description: Equipment AID, identifies the equipment entity. Refer to Appendix B, Access Identifiers (AIDs) for a definition of equipment mnemonics.

CTAG < 1-6 VALID CTAG CHARACTERS >
Default: < System assigned CTAG value >
Addressing: None
Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* Time of Last Diag: <Diag_Dat_Tm> */]
  [/* <Phase_Number> <Phase_Name> : <Phase_Result> */]
  [/* <Phase_Number> Reason: <Result_Reason> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

Note: The line of text containing the <Result_Reason> is provided for each test phase with a <Test_Result> of either "Failed" or "Inclusive".

OUTPUT PARAMETERS

Diag_Dat_Tm {YY-MM-DD HH:MM:SS{ {00-99}-{1-12}-{1-31} {00-23}:{00-59}:{00-59} } }
 Diagnostic Date and Time, identifies the date and time when the last diagnostic was executed. The format for DIAG_DAT_TM is <YEAR> - <MONTH> - <DAY>^<HOUR>:<MINUTE>:<SECOND> (where ^ indicates a space). This line of output is only reported if a diagnostic test has been executed.

Phase_Number {1-16}
 Test Phase, identifies the diagnostic test phase that was executed. Refer to the DGN-EQPT command for the test phases that can be executed for each circuit pack.

Phase_Name <Name of the test phase that was executed>
 Phase Name, identifies the name of the test phase that was executed. Refer to the DGN-EQPT command for the test phases that can be executed for each circuit pack.

Phase_Result {Failed, Inconclusive, Not Available, Passed}
 Test Result, indicates the results of the diagnostic test. Values are:
 Failed Failed, the equipment entity failed the test phase.
 Inconclusive Inconclusive, the results of this test phase are inconclusive for the reason described by <Result_Reason>.
 Not Available Test results are not available (not stored on the system disk because the test phase was not executed).
 Passed Passed, the equipment entity passed the test phase.

Result_Reason <Reason for a Failed or Inconclusive Test Result>
 Failed/Inconclusive Result Reason, indicates the reason the Test_Result was either "Failed" or "Inconclusive". Note, this information is useful to Alcatel repair personnel and may or may not be useful to a craft person.

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

```
ENRE     Equipage, Not Recognized Equipage
          /* Invalid or unassigned equipment identifier specified. */
IIAC     Input, Invalid ACcess identifier
          /* Invalid or unassigned equipment identifier specified. */
```

EXAMPLES

In the following example, the latest diagnostic test results for EP3-7-3-1 are retrieved from the system disk.

```
RTRV-DGN-STATUS::EP3-7-3-1;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of Pad567. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pad567 COMPLD
/* Time of Last Diag: <96-07-12> <15:20:13> */
/* 1 Card Presence and Card ID Test           : Passed */
/* 2 Fuse Test                                 : Passed */
/* 3 Load Check                               : Passed */
/* 4 Processor Bus Test                        : Passed */
/* 5 Memory Transfer Link Bus Test           : Passed */
/* 6 EP3 Module Test                           : Passed */
/* 7 Clock and Frame Test                      : Passed */
/* 8 Duplex to Simplex Converter Test         : Passed */
/* 9 STM Signal Process Test                  : Passed */
/* 10 Serial/Parallel Converter Test          : Passed */
/* 11 Multiplexer / Demultiplexer Test       : Passed */
/* RTRV-DGN-STATUS::EP3-7-3-1 [Pad567] (2) */
;
```

RELATED COMMANDS

ALW-FL-EQPT
DGN-EQPT
DLT-EQPT
ED-EQPT
ENT-EQPT
FLTLOC-PATH-STS1
FLTLOC-PATH-STS3C
FLTLOC-PATH-T1
FLTLOC-PATH-T3
FLTLOC-PATH-VT1
INH-FL-EQPT
RMV-EQPT
RST-EQPT
RTRV-EQPT
RTRV-FL-EQPT
RTRV-PATH-STS1
RTRV-PATH-STS3C
RTRV-PATH-T1
RTRV-PATH-T3
RTRV-PATH-VT1
RTRV-STATE-EQPT
RTRV-XIDMISM

COMMAND CODE: **RTRV-EC1**
COMMAND NAME: **RETRIEVE EC1**

PURPOSE

The RTRV-EC1 command retrieves the provisioned parameter values, supporting I/O circuit pack AID, near end and far end facility alarm conditions, and current PST,SST state for the specified EC1 port. The EC1 port's current provisioned values and conditions (if provisioned), and state are retrieved from the system database. The command is executed regardless of the state of the EC1.

The successful response for a RTRV-EC1 command contains one line of parsable output data, in ascending order (from lowest specified EC1 AID to largest specified EC1 AID), for each EC1 AID specified. Values for NEN-DALM and FENDALM are only displayed if a condition exists. Only <AID> and <PST,SST> are displayed for a retrieve of an unprovisioned EC1.

A RTRV-EC1 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-EC1: [TID]:AID: [CTAG];

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	EC1_AID: {EC1-{1-3840} } (EC1-EC1/STS1#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: Identifies the EC1 port or a range of ports.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

The output response will be as follows:

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  "<AID>: :AINSTH=<value>, [CARDID=<value>[, FENDALM=<value>]
  [, NENDALM=<value>]] :<PST>, [<SST>]"
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

AID	EC1_AID: {EC1-{1-3840} } (EC1-EC1/STS1#) EC1 AID indicates the EC1 port to which this line of output data pertains.
-----	---

AINSTH	<p>{HH-MM:{00–48} – {00–59} }</p> <p>Automatic In–Service Threshold. Specifies how long a customer signal must be present on the facility without a LOS, LOF, or AIS–L alarm condition before the system puts the facility into the In–Service state. The factory default is 8 hours. The valid value is:</p> <table> <tr> <td>HH-MM</td><td>Time, specifies the duration of an alarm–free signal where value HH indicates the time duration in hours and value MM indicates the time duration in minutes. The valid range of values is 00–48 and 00–59 (in increments of 1 minute), respectively.</td></tr> </table>	HH-MM	Time, specifies the duration of an alarm–free signal where value HH indicates the time duration in hours and value MM indicates the time duration in minutes. The valid range of values is 00–48 and 00–59 (in increments of 1 minute), respectively.																
HH-MM	Time, specifies the duration of an alarm–free signal where value HH indicates the time duration in hours and value MM indicates the time duration in minutes. The valid range of values is 00–48 and 00–59 (in increments of 1 minute), respectively.																		
CARDID=	<p>EQUIPMENT_AID:</p> <p>{SI48: EP3–{6–8, 12–14, 18–20, 24–26, 28–30, 32–34, 36–38, 40–42}–{1, 3}–{1–18}, EP3–{9, 21, 35, 43}–3–{1–18}, EP3–{15, 27, 31, 39}–1–{1–18}, SI36: EP3–{6–8, 12–14}–{1, 3}–{1–14}, EP3–9–3–{1–14}, EP3–15–1–{1–14}}</p> <p>I/O Equipment Card ID, identifies the EC1 port's supporting I/O equipment AID using the equipment AID format.</p>																		
FENDALM=	<p>{RFI}</p> <p>Far End EC1 Alarm Condition, identifies any far end EC1 alarm conditions that exist on the EC1. A FENDALM value is only reported if a FENDALM condition exists. Value is:</p> <table> <tr> <td>RFI</td><td>Far End Remote Failure Indication detected</td></tr> </table>	RFI	Far End Remote Failure Indication detected																
RFI	Far End Remote Failure Indication detected																		
NENDALM=	<p>{AIS, LOF, LOS}</p> <p>Near End EC1 Alarm Condition, identifies any near end EC1 alarm conditions that exist on the EC1. A NENDALM value is reported only when a NENDALM condition exists. Values are:</p> <table> <tr> <td>AIS</td><td>Alarm Indication Signal detected</td></tr> <tr> <td>LOF</td><td>Loss of Frame detected</td></tr> <tr> <td>LOS</td><td>Loss of Signal detected</td></tr> </table>	AIS	Alarm Indication Signal detected	LOF	Loss of Frame detected	LOS	Loss of Signal detected												
AIS	Alarm Indication Signal detected																		
LOF	Loss of Frame detected																		
LOS	Loss of Signal detected																		
PST	<p>{IS, OOS–AU, OOS–AUMA, OOS–MA}</p> <p>Primary State, indicates the current primary state of the EC1. Refer to Appendix G, State Transitions for a definition of state names and description of state transitions. Values are:</p> <table> <tr> <td>IS</td><td>In–Service</td></tr> <tr> <td>OOS–AU</td><td>Out–Of–Service–Autonomous</td></tr> <tr> <td>OOS–AUMA</td><td>Out–Of–Service–Autonomous and Management</td></tr> <tr> <td>OOS–MA</td><td>Out–Of–Service–Management</td></tr> </table>	IS	In–Service	OOS–AU	Out–Of–Service–Autonomous	OOS–AUMA	Out–Of–Service–Autonomous and Management	OOS–MA	Out–Of–Service–Management										
IS	In–Service																		
OOS–AU	Out–Of–Service–Autonomous																		
OOS–AUMA	Out–Of–Service–Autonomous and Management																		
OOS–MA	Out–Of–Service–Management																		
SST	<p>{AINS, DSBLD, FAF, LPBK, MT, PMI, SDEE, TRM, UAS}</p> <p>Secondary State, indicates any secondary states associated with the EC1. SST values may be shown in the output combined with an ampersand (&) if more than one value applies to the EC1 at the time of the RTRV–EC1. Refer to Appendix G, State Transitions for a definition of state names and description of state transitions. Values are:</p> <table> <tr> <td>AINS</td><td>Automatic In–Service</td></tr> <tr> <td>DSBLD</td><td>Disabled</td></tr> <tr> <td>FAF</td><td>Facility Failure</td></tr> <tr> <td>LPBK</td><td>Loopback</td></tr> <tr> <td>MT</td><td>Maintenance</td></tr> <tr> <td>PMI</td><td>Performance Monitoring Inhibited</td></tr> <tr> <td>SDEE</td><td>Supported Entity Exists</td></tr> <tr> <td>TRM</td><td>Terminated, supported entity is cross–connected.</td></tr> <tr> <td>UAS</td><td>Unassigned</td></tr> </table>	AINS	Automatic In–Service	DSBLD	Disabled	FAF	Facility Failure	LPBK	Loopback	MT	Maintenance	PMI	Performance Monitoring Inhibited	SDEE	Supported Entity Exists	TRM	Terminated, supported entity is cross–connected.	UAS	Unassigned
AINS	Automatic In–Service																		
DSBLD	Disabled																		
FAF	Facility Failure																		
LPBK	Loopback																		
MT	Maintenance																		
PMI	Performance Monitoring Inhibited																		
SDEE	Supported Entity Exists																		
TRM	Terminated, supported entity is cross–connected.																		
UAS	Unassigned																		

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

```

IIAC      Input, Invalid ACcess identifier
SDBE      Status, internal Data Base Error
           /* GetAidEntry() Error: <ERROR-STRING> */
           /* TP Database Error: <ERROR-STRING> for <AID-STRING> */
           /* TPidToAidStr() Error: <ERROR-STRING> */
           /* TPidToTbss() Error: <ERROR-STRING> */
SROF      Status, Requested Operation Failed

```

EXAMPLES

In the following example, the provisioning data for EC1 port EC1-12 is retrieved.

```

RTRV-EC1::EC1-12;

The output response, shown below, assumes CID 2 was used to enter the command and a system gener-
ated CTAG value of Pad567. The response header would contain the provisioned Site ID of the system,
and the date and time the command was executed.

<SID> <YY-MM-DD> <HH:MM:SS>
M Pad567 COMPLD
"EC1-12::AINSTH=05-30,CARDID=EP3-2-1-2:IS"
/* RTRV-EC1::EC1-12 [Pad567] (2) */
;

```

In the following example, the provisioning data for EC1 ports EC1-10 through EC1-14 is retrieved.

```

RTRV-EC1::EC1-10&&-14;

The output response, shown below, assumes CID 6 was used to enter the command and a system gener-
ated CTAG value of Pab124. The response header would contain the provisioned Site ID of the system,
and the date and time the command was executed.

<SID> <YY-MM-DD> <HH:MM:SS>
M Pab124 COMPLD
"EC1-10::CARDID=EP3-5-1-5:IS"
"EC1-11::CARDID=EP3-5-1-5,NENDALM=LOF:OOS-AU,FAF"
"EC1-12::OOS-MA,UAS"
"EC1-13::CARDID=EP3-5-1-6,NENDALM=LOS:IS,AINS"
"EC1-14::CARDID=EP3-5-1-6:IS"
/* RTRV-EC1::EC1-10&&-14 [Pab124] (6) */
;

```

RELATED COMMANDS

```

DLT-EC1
ED-EC1
ENT-EC1

```

3AL45392AJ
Issue 01, February 2005

RMV-EC1
RST-EC1
RTRV-DFLT-EC1
SET-DFLT-EC1

COMMAND CODE: **RTRV-ELF**
COMMAND NAME: **RETRIEVE EVENT LOG FILE**

PURPOSE

The RTRV-ELF command selectively retrieves the output response messages, stored in the system's disk output buffer, that were generated by the system between the specified FRDATM (From Date and Time) and TODATM (To Date and Time) values and/or due to commands entered by the specified UID (User ID).

The system stores all output response messages in the disk output buffer. The types of output response messages consist of:

- Solicited Response Messages, Successful or Unsuccessful (CANCLD, COMPL, DELAY, DENY, or PRTL), caused by the execution of a command input message.
- Acknowledgement Response Messages, IP (In Progress) or OK (Good) messages.
- Autonomous Response Messages (KEEP^ALIVE, REPT^ALM, REPT^DBCHG, REPT^EVT, REPT^HWSW, REPT^INFO, REPT^INITZN, or REPT^PM).

Refer to the Introduction for a description of response messages and message formats. Refer to Section 2 for the output response format and data for each command. Refer to Section 3 for the output response format and data for each autonomous response message.

The successful response for a RTRV-ELF command encloses any retrieved output response messages as non-parsable text (i.e., encloses the retrieved output response messages within the /*...*/ characters). Each retrieved output response message is reported in the same format as when it was generated by the system with the exception that

- all message termination characters (semicolon, greater-than, or less-than characters) are removed from any retrieved output response message,
- any non-parsable text line contained within a retrieved output response message is enclosed within the back-slash (\) escape character, and
- a blank line (cr lf lf) is provided between each retrieved output response message.

In addition, the successful response for a RTRV-ELF command contains one or two lines of non-parsable text, depending on whether any output response messages are retrieved from the disk output buffer.

Note: The size of the output response is limited to the value set in the RSML parameter in ED-PRMTR-SITE. To change the maximum size of a RTRV-ELF successful response, the user must change the RSML value in ED-PRMTR-SITE. If the output is larger than specified in the RSML parameter, it will be truncated and subsequent RTRV-ELF commands will have to be issued to retrieve all data.

A RTRV-ELF command is denied if:

- An invalid parameter value or combination of parameter values is entered.

Note that the RTRV-ELF command can only retrieve output response messages that are "marked" with a date and time prior to the current system date and time. Consequently, if the system date and time is set backwards in time, any output response messages that have a resulting future date/time mark will not be retrieved until the system date/time increments past a response message's date/time mark.

In addition, the RTRV-ELF command only stores output response messages for RTRV-rr commands in the event log buffer for one hour. After that time, a message (e.g., "Report file (/rpt/t1.buc) has been reused") is stored in place of the previously existing output response message.

INPUT FORMAT

RTRV-ELF: [TID] : : [CTAG] : : [FRDATM] , [TODATM] , [UID] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >
Default:	<SID>
Addressing:	None
Description:	Target Identifier, specifies the network node TID for the command.

CTAG	<p>< 1–6 VALID CTAG CHARACTERS ></p> <p>Default: < System assigned CTAG value ></p> <p>Addressing: None</p> <p>Description: Correlation Tag, associates input command with its output responses.</p>
FRDATM	<p>{YY–MM–DD–hh–mm–ss:{ {00–37,70–99}–{01–12}–{01–31}–{00–23}–{00–59}–{00–59} }</p> <p>Default: <Oldest Date & Time in the Disk Output Buffer></p> <p>Addressing: None</p> <p>Description: From Date and Time, specifies the beginning date and time used to filter the response messages from the disk output buffer. The current system date and time is used if a future date and time is specified for FRDATM. The format of FRDATM is <Year> – <Month> – <Day> – <Hour> – <Minutes> – <Seconds>. Values for <YY> from 70 through 99 are interpreted as the year 1970 through the year 1999 and 00 through 37 are interpreted as the year 2000 through the year 2037.</p> <p>Restrictions: RTRV–ELF is denied if the value for FRDATM is <i>not</i> older than the value for TODATM.</p>
TODATM	<p>{YY–MM–DD–hh–mm–ss:{ {00–37,70–99}–{01–12}–{01–31}–{00–23}–{00–59}–{00–59} }</p> <p>Default: <Most Recent Date & Time in the Disk Output Buffer></p> <p>Addressing: None</p> <p>Description: To Date and Time, specifies the ending date and time used to filter the response messages from the disk output buffer. The current system date and time is used if a future date and time is specified for TODATM. The format of TODATM is <Year> – <Month> – <Day> – <Hour> – <Minutes> – <Seconds>. Values for <YY> from 70 through 99 are interpreted as the year 1970 through the year 1999 and 00 through 37 are interpreted as the year 2000 through the year 2037.</p> <p>Restrictions: RTRV–ELF is denied if the value for TODATM is older than the value for FRDATM.</p>
UID	<p><VALID UID></p> <p>Default: <All UIDs></p> <p>Addressing: None</p> <p>Description: User Identifier, specifies the UID, or all UIDs, used to filter the response messages from the disk output buffer.</p>

SUCCESSFUL RESPONSE FORMAT

The following successful response format is provided when there are response messages in the disk output buffer that satisfy the filtering criteria specified by the command's parameter values.

```

    <SID> <YY-MM-DD> <HH:MM:SS>
M  <CTAG> <Compl_Code>
    /*
    [<Header Line for the 1st Retrieved Message>]
<Completion Code Line for the 1st Retrieved Message>
    ["<Any Parsable Text Line in the 1st Retrieved Message>"]
    [\/* <Any Non-Parsable Text Line in the 1st Retrieved Message> \*/]
    ...
    ...
    ...
    [<Header Line for the Last Retrieved Message>]
<Completion Code Line for the Last Retrieved Message>
    ["<Any Parsable Text Line in the Last Retrieved Message>"]
    [\/* <Any Non-Parsable Text Line in the Last Retrieved Message> \*/]
    */
    /* First Retrieved Message Date & Time = <FRDATM> */
    /* Last Retrieved Message Date & Time = <TODATM> */
    [\/* <RTRV-ELF Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

The following successful response format is provided if there are *no* response messages in the disk output buffer that satisfy the filtering criteria specified by the command's parameter values.

```

    <SID> <YY-MM-DD> <HH:MM:SS>
M  <CTAG> COMPLD
    /* No Retrieved Messages */]
    [\/* <RTRV-ELF Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

    <SID> <YY-MM-DD> <HH:MM:SS>
M  <CTAG> COMPLD
    /* No Retrieved Messages */]
    [\/* <RTRV-ELF Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

The following successful response format is provided if one hour has passed since the output response of a RTRV-rr command was initially stored in the disk output buffer that satisfied the filtering criteria specified by the command's parameter values.

```

    <SID> <YY-MM-DD> <HH:MM:SS>
M  <CTAG> COMPLD
    /* Report file(/rpt/xxxxx.xxx) has been reused */]
    [\/* <RTRV-ELF Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

OUTPUT PARAMETERS

Compl_Code	{COMPLD, PRTL}
	Completion Code for the RTRV-ELF command. Values are:
	COMPLD Completed, indicates the RTRV-ELF response output contains all of the requested response messages.
	PRTL Partial, indicates the RTRV-ELF response output does not contain all of the requested response messages and a subsequent RTRV-ELF command(s) is required to retrieve the remaining response messages.

FRDATM	<p>{YY-MM-DD-hh-mm-ss:{ {00-37,70-99}-{01-12}-{01-31}-{00-23}-{00-59}-{00-59} } }</p> <p>From Date and Time, identifies the date and time of the first response message retrieved from the disk output buffer. The format of FRDATM is <Year> – <Month> – <Day> – <Hour> – <Minutes> – <Seconds>.Values for <YY> from 70 through 99 are interpreted as the year 1970 through the year 1999 and 00 through 37 are interpreted as the year 2000 through the year 2037.</p>
TODATM	<p>{YY-MM-DD-hh-mm-ss:{ {00-37,70-99}-{01-12}-{01-31}-{00-23}-{00-59}-{00-59} } }</p> <p>To Date and Time, identifies the date and time of the last response message retrieved from the disk output buffer. The format of TODATM is <Year> – <Month> – <Day> – <Hour> – <Minutes> – <Seconds>.Values for <YY> from 70 through 99 are interpreted as the year 1970 through the year 1999 and 00 through 37 are interpreted as the year 2000 through the year 2037.</p>

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent
IDNV	Input, Data Not Valid
SDBE	Status, internal Data Base Error

EXAMPLES

In the following example, the response messages generated by the system on 5/14/95 from 12:10 p.m. to 12:15 p.m. are retrieved from the disk output buffer.

```
RTRV-ELF:::::95-05-14-12-10-00,95-05-14-12-15-00;
```

The output response, shown below, assumes CID 6 was used to enter the command and a system generated CTAG value of Pab124. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

The example output assumes no other response messages were generated by the system during the time frame specified.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pab234 COMPLD
/*
<SID> 95-05-14 12:10:55
M Pab101 COMPLD
\/* ENT-CRS-T1::3-1-15,12-6-4::1WAY [Pab101] (5) \*/

<SID> 95-05-14 12:11:22
A 2469 REPT EVT T1
"4-12-28:T-SESP,,05-14,12-11-05,NEND,,56,44,15-MIN"

OK Pab102

<SID> 95-05-14 12:12:10
** 2470 REPT ALM T1
"3-8-22:MJ,LOF,SA,05-14,12-11-55,NEND,,,"

IP Pab103
\/* RTRV-CRS-T1::3-1-15 [Pab103] (5) \*/

<SID> 95-05-14 12:13:22
M Pab103 COMPLD
"3-1-15,12-6-4:1WAY"
\/* RTRV-CRS-T1::3-1-15 [Pab103] (5) \*/
*/
/* First Retrieved Message Date & Time = 95-05-14-12-10-55 */
/* Last Retrieved Message Date & Time = 95-05-14-12-13-22
/* RTRV-ELF:::::95-05-14-12-10-00,95-05-14-12-15-00 [Pab234] (6) */
;
```

RELATED COMMANDS

ED-PRMTR-SITE
RTRV-PRMTR-SITE

COMMAND CODE: **RTRV-EQPT**
COMMAND NAME: **RETRIEVE EQUIPMENT**

PURPOSE

The RTRV-EQPT command retrieves equipment entity provisioning data, status, and state of the specified equipment entity. Parsable output parameters and values are only reported if they pertain to the specified AID. No parsable output data other than the PST,SST values are provided if the specified AID is not provisioned (it has an SST of UAS). The command is executed regardless of the state of the specified equipment AID, unless that AID is an unprovisioned SHELF or is a module residing in an unprovisioned SHELF.

A RTRV-EQPT command is denied if:

- The specified equipment entity is an unprovisioned SHELF or resides in an unprovisioned SHELF.
- An invalid parameter value is entered.

INPUT FORMAT

RTRV-EQPT: [TID] :AID: [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	EQUIPMENT_AID: {ACL-1-2-{9-28, 37-56, 65-84, 93-112}} {ACM-1-2-{3-7, 10-14}} {CDA-{4, 5, 10, 11, 16, 17, 22, 23, 102, 103}-3-1} {CDB-{5}-{1, 3}-{1, 2}} CDB-{2-43,104-111,112-135,136-141}-{1, 3}-{1, 2} {SI36: CDB-{6-9, 12-15, 18-21, 24-43}-{1, 3}-{1-2}, SI48: CDB-{2-43,104-111,112-135,136-141}-{1, 3}-{1, 2} {CIM-1-2-{3-7, 10-14}} {CKB-{1-63, 101, 102-111, 112-135, 136-141}-{0}-{1-2}} {CPU-1-2-{1-2}} {DSB-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{1-2}} {DSI-{44-63}-{1-4}-{1-32}} {DSK-1-3-1, DSK-1-4-2} {EOB-{1-64}-{1-2}, EOB-{408-415}-{1-7, 9-15}} {EOB-{5}-{1, 3}-{1-5}} {SI48: EOB-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{1-2}, EOC: EOB-{4-5, 10-11, 16-17, 22-23, 102, 103}-1-{1-7, 9-15}} {SI48: EP3-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42, 104-106,108-110, 136-141}-{1, 3}-{1-18}, EP3-{9, 21, 35, 43, 107}-3-{1-18}, EP3-{15, 27, 31, 39, 111}-1-{1-18}} {SI36: EP3-{6-8, 12-14}-{1, 3}-{1-14}, EP3-9-3-{1-14}, EP3-15-1-{1-14}}

{SI48: ES1-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42,
104-106, 108-110, 136-141}-{1, 3}-{1-18},
ES1-{9, 21, 35, 43, 107}-3-{1-18},
ES1-{15, 27, 31, 39, 111}-1-{1-18}}
{SI36: ES1-{6-8, 12-14}-{1, 3}-{1-14},
ES1-9-3-{1-14},
ES1-15-1-{1-14}}
{ESA-{44-63}-{1-4}-{1-2}}
{FAN-{1, 101}-0-1},
FAN-{2-63, 102-111, 112-135, 136-141}-{1-3}-1}
{FUSE-{2-43, 102-111, 112-135, 136-141}-0-{1-2}}
{HMU-{44-53}-{1-4}-{1-8}}
{ICM-1-2-{1, 2, 8, 9}}
{IOB-{6-8, 12-14}-{1, 3}-{1, 3, 5, 7},
IOB-9-3-{1, 3, 5, 7},
IOB-15-1-{1, 3, 5, 7}}
{IPB-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{1-2}}
{IPU-{44-63}-{1-4}-{1-8}}
{LMU-{44-53}-{1-4}-{1-32}}
{LT1-1-1-{1-6}}
{LT2-1-1-{1-6}}
{LT4-1-1-{7-16}}
{LT5-1-1-{2-6}}
{LT8-1-1-{7-16}}
{M16-{2-5, 10-11, 16-17, 22-23}-3-{1-16}}
{M16-{300-301, 400-407}-{1-16}}
{M32-{4-5, 10-11, 16-17, 22-23, 102, 103}-3-{1-16},
M32-{5}-{1, 3}-{1-3, 6-8}}
{M40-{2-3}-{1, 3}-{1-16}}
{M40-{5}-{1, 3}-{4, 5, 9, 10}}
{MCB-{2,3}-3-1}
{MCB-{5}-{1, 3}-{1}}
{O1B-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{2-9, 11-18}}
{O4M-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{2-3, 11-12}}
{OPD-1-3-1,
OPD-1-4-2}
{OXB-{44-63}-{1-4}-{1-2}}
{P39-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{1-3},
P39-{4, 5, 10, 11, 16, 17, 22, 23, 102, 103}-1-{1-3},
P39-{4, 5, 10, 11, 16, 17, 22, 23, 102, 103}-3-{1-4},
P39-{5}-{1, 3}-{1-4}}
{P56-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{1-5},
P56-{2-3}-{1, 3}-{1-4},
P56-{4, 5, 10, 11, 16, 17, 22, 23, 102, 103}-1,3-{1-5},
P56-{5}-{1, 3}-{1-4}}
{PDU-{2-43, 102-111, 112-135, 136-141}-0-1}
{PRT-{44-63}-{1-4}-{8, 16, 24, 32}}
{PSF-1-{3, 4}-{1, 2},
PSF-{44-63}-{1-4}-{1-2}}
{PST-1-{3, 4}-{1-2}}
{QUAD-{44-63}-{1-4}-{1-4}}
{RACK-{1-63, 101, 102-111, 112-135, 136-141}-0-1}
{RDU-{44-63}-0-1}

{RPB-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{1-2}}
 {RSP-{1, 101}-0-1}
 {S3M-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{4-9, 13-18}}
 {SBT-1-2-{1-4}}
 {SHELF-{4-43, 102-141}-{1, 3}-1}
 {SHELF-{5}-{1, 3}-{1}}
 {SIO-1-2-{1-2, 8-9}}
 {SPB-{2-43, 102-111, 112-135, 136-141}-{1, 3}-{1-2}}
 {SPB-{5}-{1, 3}-{1, 2}}
 {SWI-{44-63}-{1-4}-{1-7, 9-15, 17-23, 25-31}}
Default: Entry Required
Addressing: None
Description: Equipment AID, identifies the equipment entity. Refer to Appendix B, Access Identifiers (AIDs) for a definition of equipment mnemonics.

CTAG <1-6 VALID CTAG CHARACTERS>
Default: <System Assigned CTAG Value>
Addressing: None
Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  "<AID>:: [ACL1=<value>] [,ACL2=<value>] [,ACL3=<value>] [,ACL4=<value>]
  [,ACL5=<value>] [,ACL6=<value>] [,ACL7=<value>] [,ACL8=<value>] [,APPN=<val-
ue>] [,APPV=<value>] [,AUTCLK=<value>] [,AUTCLKMD=<value>]
  [,AUTDAT=<value>] [,AUTSWTIME=<value>] [,BACKPLANE=<value>]
  [,CBLENGTH=<value>] [,CLEI=<value>] [,CLKDEST=<value>] [,CLKMDE=<value>]
  [,CLKREF=<value>] [,CLKSRC=<value>] [,CLKSTAT=<value>] [,CONSTAT=<value>]
  [,CSTYPE=<value>] [,CURPROT=<value>] [,DATACOPY=<value>] [,DESC=]
  [,DFLTSIG=<value>] [,DIST=<value>] [,ESTYPE=<value>] [,FIRMN=<value>]
  [,FIRMV=<value>] [,HMUDIST=<value>] [,L2PTYPE=<value>] [,LBO1=<value>]
  [,LBO2=<value>] [,LBO3=<value>] [,LHSTYPE=<value>] [,MATEAID=<value>]
  [,MEMCAP=<value>] [,MNEMONIC=<value>] [,MODEL=<value>] [,MTPGPL=<value>]
  [,MTXINTF=<value>] [,OPTMATE=<value>] [,OPTTYPE=<value>] [,PARTNUM=<value>]
  [,PGPL=<value>] [,PORT=<value>] [,PBTYPE=<value>] [,PRI=<value>] [,PROCTYPE=]
  [,PROTSTAT=<value>] [,QTYPE=] [,REFSWMODE=<value>] [,REFSWTIME=<value>]
  [,REVISION=<value>] [,RPLSHELF=<value>] [,RSPLKSTAT=<value>] [,RVRTV=<value>]
  [,SEC=<value>] [,SERIAL=<value>] [,SIZE=<value>] [,TMG=<value>]
  [,TMG0=<value>] [,TMG1=<value>] [,UHSTYPE=<value>] [,VENDOR=<value>]
  :<PST> [, <SST>]"
  [/*HARDWAREDATA:HWSTATE=<VALUE>,HWMODE=<VALUE>,TX155O=<VALUE>,RX155O=<VALUE>,RX155CP0=<VALUE>,RX155CP1=<VALUE>,TX155=<VALUE>,SW=<VALUE>,HWCODE=<VALUE> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

AID **EQUIPMENT_AID:**
 {ACL-1-2-{9-28, 37-56, 65-84, 93-112}}
 {ACM-1-2-{3-7, 10-14}}
 {CDA-{4, 5, 10, 11, 16, 17, 22, 23, 102, 103}-3-1}
 {CDB-{5}-{1, 3}-{1, 2}}

CDB-{2-43,104-111,112-135,136-141}-{1,3}-{1,2}
 {SI36: CDB-{6-9, 12-15, 18-21, 24-43}-{1,3}-{1-2},
 {SI48: CDB-{2-43,104-111,112-135,136-141}-{1,3}-{1,2}
 {CIM-1-2-{3-7, 10-14}}
 {CKB-{1-63, 101, 102-111, 112-135, 136-141}-{0}-{1-2}}
 {CPU-1-2-{1-2}}
 {DSB-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1,3}-{1-2}}
 {DSI-{44-63}-{1-4}-{1-32}}
 {DSK-1-3-1,
 DSK-1-4-2}
 {EOB-{5}-{1,3}-{1-5}}
 {SI48: EOB-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1,3}-{1-2},
 EOC: EOB-{4-5, 10-11, 16-17, 22-23, 102, 103}-1-{1-7, 9-15}}
 {SI48: EP3-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42,
 104-106,108-110, 136-141}-{1,3}-{1-18},
 EP3-{9, 21, 35, 43, 107}-3-{1-18},
 EP3-{15, 27, 31, 39, 111}-1-{1-18}}
 {SI36: EP3-{6-8, 12-14}-{1,3}-{1-14},
 EP3-9-3-{1-14},
 EP3-15-1-{1-14}}
 {SI48: ES1-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42,
 104-106,108-110,136-141}-{1,3}-{1-18},
 ES1-{9, 21, 35, 43,107}-3-{1-18},
 ES1-{15, 27, 31, 39,111}-1-{1-18}}
 {SI36: ES1-{6-8, 12-14}-{1,3}-{1-14},
 ES1-9-3-{1-14},
 ES1-15-1-{1-14}}
 {ESA-{44-63}-{1-4}-{1-2}}
 {FAN-{1, 101}-0-1},
 FAN-{2-63, 102-111, 112-135, 136-141}-{1-3}-1}
 {FUSE-{2-43, 102-111, 112-135, 136-141}-0-{1-2}}
 {HMU-{44-53}-{1-4}-{1-8}}
 {ICM-1-2-{1, 2, 8, 9}}
 {IOB-{6-8, 12-14}-{1,3}-{1,3,5,7},
 IOB-9-3-{1,3,5,7},
 IOB-15-1-{1,3,5,7}}
 {IPB-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1,3}-{1-2}}
 {IPU-{44-63}-{1-4}-{1-8}}
 {LMU-{44-53}-{1-4}-{1-32}}
 {LT1-1-1-{1-6}}
 {LT2-1-1-{1-6}}
 {LT4-1-1-{7-16}}
 {LT5-1-1-{2-6}}
 {LT8-1-1-{7-16}}
 {M16-{2-5, 10-11, 16-17, 22-23}-3-{1-16}}
 {M32-{4-5, 10-11, 16-17, 22-23, 102, 103}-3-{1-16},
 M32-{5}-{1,3}-{1-3,6-8}}
 {M40-{2-3}-{1,3}-{1-16}}
 {M40-{5}-{1,3}-{4,5,9,10}}
 {MCB-{2,3}-3-1}
 {MCB-{5}-{1,3}-{1}}
 {O1B-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1,3}-{2-9,11-18}}
 {O4M-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1,3}-{2-3,11-12}}

{OPD-1-3-1,
OPD-1-4-2}
{OXB-{44-63}-{1-4}-{1-2}}
{P39-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{1-3},
P39-{4, 5, 10, 11, 16, 17, 22, 23, 102, 103}-1-{1-3},
P39-{4, 5, 10, 11, 16, 17, 22, 23, 102, 103}-3-{1-4},
P39-{5}-{1, 3}-{1-4}}
{P56-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{1-5},
P56-{2-3}-{1, 3}-{1-4},
P56-{4, 5, 10, 11, 16, 17, 22, 23, 102, 103}-1,3-{1-5},
P56-{5}-{1, 3}-{1-4}}
{PDU-{2-43, 102-111, 112-135, 136-141}-0-1}
{PRT-{44-63}-{1-4}-{8, 16, 24, 32}}
{PSF-1-{3, 4}-{1, 2},
PSF-{44-63}-{1-4}-{1-2}}
{PST-1-{3, 4}-{1-2}}
{QUAD-{44-63}-{1-4}-{1-4}}
{RACK-{1-63, 101, 102-111, 112-135, 136-141}-0-1}
{RDU-{44-63}-0-1}
{RPB-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{1-2}}
{RSP-{1, 101}-0-1}
{S3M-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{4-9, 13-18}}
{SBT-1-2-{1-4}}
{SHELF-{4-43, 102-141}-{1, 3}-1}
{SIO-1-2-{1-2, 8-9}}
{SPB-{2-43, 102-111, 112-135, 136-141}-{1, 3}-{1-2}}
{SWI-{44-63}-{1-4}-{1-7, 9-15, 17-23, 25-31}}}

Equipment AID, identifies the equipment entity. Refer to Appendix B, Access Identifiers (AIDs) for a definition of equipment mnemonics.

- ACL1= {ACL-1-2-{9, 13, 17, 21, 25, 37, 41, 45, 49, 53} }
Administration Communication Link Number 1, identifies the ACL AID of the first ACL on the specified ACM or CIM equipment. ACL1=<value> is only reported if the specified AID identifies an ACM or CIM circuit pack.
- ACL2= {ACL-1-2-{10, 14, 18, 22, 26, 38, 42, 46, 50, 54} }
Administration Communication Link Number 2, identifies the ACL AID of the second ACL on the specified ACM or CIM equipment. ACL2=<value> is only reported if the specified AID identifies an ACM or CIM circuit pack.
- ACL3= {ACL-1-2-{11, 15, 19, 23, 27, 39, 43, 47, 51, 55} }
Administration Communication Link Number 3, identifies the ACL AID of the third ACL on the specified ACM or CIM equipment. ACL3=<value> is only reported if the specified AID identifies an ACM or CIM circuit pack.
- ACL4= {ACL-1-2-{12, 16, 20, 24, 28, 40, 44, 48, 52, 56} }
Administration Communication Link Number 4, identifies the ACL AID of the fourth ACL on the specified ACM or CIM equipment. ACL4=<value> is only reported if the specified AID identifies a ACM or CIM circuit pack.
- ACL5= {ACL-1-2-{65, 69, 73, 77, 81, 93, 97, 101, 105, 109} }
Administration Communication Link Number 5, identifies the ACL AID of the fifth ACL on the specified ACM equipment. ACL5=<value> is only reported if the specified AID identifies an ACM circuit pack.

ACL6=	{ACL-1-2-{66, 70, 74, 78, 82, 94, 98, 102, 106, 110} } Administration Communication Link Number 6, identifies the ACL AID of the fifth ACL on the specified ACM equipment. ACL6=<value> is only reported if the specified AID identifies an ACM circuit pack.						
ACL7=	{ACL-1-2-{67, 71, 75, 79, 83, 95, 99, 103, 107, 111} } Administration Communication Link Number 7, identifies the ACL AID of the fifth ACL on the specified ACM equipment. ACL7=<value> is only reported if the specified AID identifies an ACM circuit pack.						
ACL8=	{ACL-1-2-{68, 72, 76, 80, 84, 96, 100, 104, 108, 112} } Administration Communication Link Number 8, identifies the ACL AID of the fifth ACL on the specified ACM equipment. ACL8=<value> is only reported if the specified AID identifies a ACM circuit pack.						
APPN=	{EP3APPS, ES1APPS, MCBAPPS, O1BAPPS, O4MAPPS, OXBAPPS, S3MAPPS} Application Software Name, identifies the name of the application software stored in the Flash EEPROM on the specified circuit pack. APPN=<value> is only reported if the specified AID identifies an EP3, ES1, MCB, O1B, O4M, OXB, or S3M.						
APPV=	<8 HEXADECIMAL DIGIT APPLICATION SOFTWARE VERSION NUMBER> Application Software Version Number, identifies the version number of the application software stored in the Flash EEPROM on the specified circuit pack. APPV=<value> is only reported if the specified AID identifies an EP3, ES1, MCB, O1B, O4M, OXB, or S3M.						
AUTCLK=	{DISABLED, ENABLED} Auto Clock Selection, indicates whether automatic clock copy selection is enabled. AUTCLK=<value> is only reported if the specified AID identifies a SHELF or QUAD. Values are: <table> <tr> <td>DISABLED</td><td>Disabled; auto clock copy selection is disabled.</td></tr> <tr> <td>ENABLED</td><td>Enabled; auto clock copy selection is enabled.</td></tr> </table>	DISABLED	Disabled; auto clock copy selection is disabled.	ENABLED	Enabled; auto clock copy selection is enabled.		
DISABLED	Disabled; auto clock copy selection is disabled.						
ENABLED	Enabled; auto clock copy selection is enabled.						
AUTCLKMD=	{N, Y} Automatic Clock Mode. Indicates whether the MCB CLKMDE is entered automatically or manually. AUTCLKMD=<value> is only reported if the specified AID identifies an MCB and its associated TMG parameter value is EXT1544. Values are: <table> <tr> <td>Y</td><td>Yes. The CLKMDE is entered automatically.</td></tr> <tr> <td>N</td><td>No. The CLKMDE is entered manually.</td></tr> </table>	Y	Yes. The CLKMDE is entered automatically.	N	No. The CLKMDE is entered manually.		
Y	Yes. The CLKMDE is entered automatically.						
N	No. The CLKMDE is entered manually.						
AUTDAT=	{DISABLED, ENABLED} Auto Data Selection, indicates whether automatic matrix data copy selection is enabled for the specified I/O shelf. AUTDAT=<value> is only reported if the specified AID identifies an I/O SHELF or QUAD. Values are: <table> <tr> <td>DISABLED</td><td>Disabled; auto data selection is disabled.</td></tr> <tr> <td>ENABLED</td><td>Enabled; auto data selection is enabled to select the better of the two matrix copies. It does not mean that both matrix sides are good.</td></tr> </table>	DISABLED	Disabled; auto data selection is disabled.	ENABLED	Enabled; auto data selection is enabled to select the better of the two matrix copies. It does not mean that both matrix sides are good.		
DISABLED	Disabled; auto data selection is disabled.						
ENABLED	Enabled; auto data selection is enabled to select the better of the two matrix copies. It does not mean that both matrix sides are good.						
AUTSWTIME=	{YY-MM-DD,HH-MN-SS:{00-99} - {1-12} - {1-31},{00-23} - {00-59} - {00-59} } Auto Clock Switching Time, indicates the date and time of the last automatic MCB copy switch (due to detection of a failure). AUTSWTIME=<value> is only reported if the specified AID identifies an MCB.						
BACKPLANE=	{HIGH, NA, NORM} ES Backplane Type, indicates the type of backplane installed in the specified ES Shelf. BACKPLANE=<value> is only reported if the specified AID identifies an ES Shelf. BACKPLANE=<value> is not valid for 240 port systems. Values are: <table> <tr> <td>HIGH</td><td>High density ES backplane is installed.</td></tr> <tr> <td>NA</td><td>Not Available, the shelf processor is not responding.</td></tr> <tr> <td>NORM</td><td>Normal density ES backplane is installed.</td></tr> </table>	HIGH	High density ES backplane is installed.	NA	Not Available, the shelf processor is not responding.	NORM	Normal density ES backplane is installed.
HIGH	High density ES backplane is installed.						
NA	Not Available, the shelf processor is not responding.						
NORM	Normal density ES backplane is installed.						

CBLENGTH=	<p><Integers in 5 meter increments from 5 through 500 meters> Optical Cable Length (in meters), indicates the cable length (in meters) of the optical cable between a DS1 or DS3 Quad shelf and the EOC shelf or between an SI36 or SI48 shelf and the EOC shelf. CBLENGTH=<value> is only reported if the specified AID identifies a QUAD or identifies a SHELF (with MTXINTF of OPTCL).</p>								
CLEI=	<p>{<UP TO 10 ALPHANUMERIC CLEI CHARACTERS>, NA} Circuit Pack Common Language Equipment Identification code, identifies the CLEI code stored in the Remote Inventory EEPROM for the specified equipment. CLEI=<value> is only reported if the specified AID identifies a CDA, CDB, DSB, EOB, EP3, ES1, IOB, IPB, M16, M32, M40, MCB, O1B, O4M, P39, P56, RPB, S3M, or SPB. Values are:</p> <table> <tr> <td><CLEI CODE></td><td>Common Language Equipment Identification code.</td></tr> <tr> <td>NA</td><td>Not Available, the CLEI code cannot be read from the Remote Inventory EEPROM (e.g., the circuit pack is not equipped).</td></tr> </table>	<CLEI CODE>	Common Language Equipment Identification code.	NA	Not Available, the CLEI code cannot be read from the Remote Inventory EEPROM (e.g., the circuit pack is not equipped).				
<CLEI CODE>	Common Language Equipment Identification code.								
NA	Not Available, the CLEI code cannot be read from the Remote Inventory EEPROM (e.g., the circuit pack is not equipped).								
CLKDEST=	<p>EQPT_AID: {CDA-{4, 5, 10, 11, 16, 17, 22, 23, 102, 103}-3-1} {CDB-{5}-{1, 3}-{1, 2}} CDB-{2-43,104-111,112-135,136-141}-{1, 3}-{1, 2} {SI36: CDB-{6-9, 12-15, 18-21, 24-43}-{1, 3}-{1-2}, {SI48: CDB-{2-43,104-111,112-135,136-141}-{1, 3}-{1, 2}} Clock Destination, identifies the provisioned clock equipment entities receiving the system clock from the specified equipment entity. Multiple equipment AIDs may be shown combined with an ampersand (&). CLKDEST=<value> is only reported if the specified AID identifies a CDA or an MCB.</p>								
CLKMDE=	<p>{FAST, FREE-RUNNING, HOLDOVER, NORMAL} Clock Tracking Mode. Indicates the MCB master clock to external clock reference tracking mode if the specified MCB is the master (as indicated by the CONTSTAT parameter), or indicates the slave clock to master clock reference tracking mode if the specified MCB is the slave (as indicated by the CONTSTAT parameter). CLKMDE=<value> is only reported if the specified AID identifies an MCB. Values are:</p> <table> <tr> <td>FAST</td><td>The slave clock is in fast pull-in of the master clock reference and the master clock is in fast pull-in of the external clock. After achieving the synchronization, CLKMDE automatically changes to NORMAL mode.</td></tr> <tr> <td>FREE-RUNNING</td><td>The master/slave clock is operating such that the output signal is totally internally controlled with no influence of a present or previous external/master reference.</td></tr> <tr> <td>HOLDOVER</td><td>The master/slave clock has lost its previously-connected external reference source and is using data acquired during the Normal mode or using internal data to control its output.</td></tr> <tr> <td>NORMAL</td><td>The slave clock is aligned to and tracking the master clock reference and the master clock is aligned to and tracking the external clock reference source.</td></tr> </table>	FAST	The slave clock is in fast pull-in of the master clock reference and the master clock is in fast pull-in of the external clock. After achieving the synchronization, CLKMDE automatically changes to NORMAL mode.	FREE-RUNNING	The master/slave clock is operating such that the output signal is totally internally controlled with no influence of a present or previous external/master reference.	HOLDOVER	The master/slave clock has lost its previously-connected external reference source and is using data acquired during the Normal mode or using internal data to control its output.	NORMAL	The slave clock is aligned to and tracking the master clock reference and the master clock is aligned to and tracking the external clock reference source.
FAST	The slave clock is in fast pull-in of the master clock reference and the master clock is in fast pull-in of the external clock. After achieving the synchronization, CLKMDE automatically changes to NORMAL mode.								
FREE-RUNNING	The master/slave clock is operating such that the output signal is totally internally controlled with no influence of a present or previous external/master reference.								
HOLDOVER	The master/slave clock has lost its previously-connected external reference source and is using data acquired during the Normal mode or using internal data to control its output.								
NORMAL	The slave clock is aligned to and tracking the master clock reference and the master clock is aligned to and tracking the external clock reference source.								
CLKREF=	<p>{COPY0, COPY1} Clock Reference, identifies the copy of the system clock being provided to the specified Shelf or Quad. CLKREF=<value> is only reported if the specified AID identifies a SHELF or QUAD and selection of system clock is locked to a copy (i.e., AUTCLK of DISABLED). Values are:</p> <table> <tr> <td>COPY0</td><td>Selection of system clock is locked to copy 0 for the specified SHELF or QUAD.</td></tr> <tr> <td>COPY1</td><td>Selection of system clock is locked to copy 1 for the specified SHELF or QUAD.</td></tr> </table>	COPY0	Selection of system clock is locked to copy 0 for the specified SHELF or QUAD.	COPY1	Selection of system clock is locked to copy 1 for the specified SHELF or QUAD.				
COPY0	Selection of system clock is locked to copy 0 for the specified SHELF or QUAD.								
COPY1	Selection of system clock is locked to copy 1 for the specified SHELF or QUAD.								

CLKSRC=	<p>EQPT_AID: {CDA-{4, 5, 10, 11, 16, 17, 22, 23, 102, 103}-3-1} {MCB-{2,3}-3-1} {MCB-{5}-{1,3}-{1}} Clock Source, identifies the provisioned clock equipment entity that provides the system clock to the specified equipment entity. CLKSRC=<value> is only reported if the specified AID identifies a CDA or CDB.</p>
CLKSTAT=	<p>{NOT-READY, READY} Clock Status, indicates whether the clock oscillator on the specified MCB is tracking the master MCB clock oscillator so that a clock copy switch to the specified MCB would be hit-less. CLKSTAT=<value> is only reported if the specified AID identifies an MCB. Values are: NOT-READY The specified MCB is not tracking the master MCB clock and is not ready for a hit-less clock copy switch. READY The specified MCB is tracking the master MCB clock and is ready for a hit-less clock copy switch. (The master MCB is always reported READY.)</p>
CONTSTAT=	<p>{MASTER, SLAVE} Clock Control Status, indicates whether the specified clock entity is the master or slave. CONTSTAT=<value> is only reported if the specified AID identifies a CDB, an MCB or an OXB. Values are: MASTER The circuit pack is the clock master. SLAVE The circuit pack is the clock slave.</p>
CSTYPE=	<p>{M16, M40} Center Stage (Shelf) Type, identifies the type of Center Stage Shelf. CSTYPE=<value> is only reported if the specified AID identifies a Center Stage Shelf. Values are: M16 The Center Stage Shelf type is M16 (not applicable to 240 port LMC systems). M40 The Center Stage Shelf type is M40.</p>
CURPROT=	<p>{AUTO-PROT, MAN-PROT, O-PROT} Current Protection Type, indicates whether the specified I/O circuit pack is switched to protection. CURPROT=<value> is only reported if the specified AID identifies a DSI, EP3, ES1, HMU, or LMU. Values are: AUTO-PROT Automatic-Protection, the system automatically switched the I/O circuit pack to protection (due to a system-detected fault). MAN-PROT Manual-Protection, the I/O circuit pack is switched to protection due to command execution. NO-PROT No-Protection, the I/O circuit pack is not switched to protection. (An I/O protection circuit pack is always reported NO-PROT.)</p>
DATACOPY=	<p>{COPY0, COPY1} Data Copy, indicates the copy of matrix transmission data that is being selected if the I/O shelf is locked to a specific copy. DATACOPY=<value> is only reported if the specified AID identifies an I/O SHELF or QUAD and selection of matrix data is locked to a copy (i.e., AUTDAT of DISABLED). Values are:</p>
DESC=	<p><0-62 ASCII CHARACTERS> Rack Description Text, identifies any text description (e.g., physical location) associated with a specified SHELF/QUAD/RACK AID. DESC= <value> is only reported if the specified AID identifies a SHELF/QUAD/RACK. If the DESC parameter provisioned for a SHELF/QUAD/RACK is ASCII nulls, the DESC parameter is not displayed in the output parameters of the RTRV-EQPT command.</p>

DFLTSIG=	<p>{ASYNC, CBIT, STS1}</p> <p>Default Signal, indicates the type of (default) signal transmitted by an EP3 circuit pack (in a FlexPoint Half-Shelf), after the EP3 has powered-on and database is downloaded, for each of the supported unprovisioned facilities (the signal transmitted for provisioned facilities is based on the facility provisioning). DFLTSIG= <value> is only reported if the specified AID identifies an EP3 and the associated LHSTYPE or UHSTYPE value is EP3F48. Values are:</p> <table><tr><td>ASYNC</td><td>Asynchronous DS3, the default transmitted signal for unprovisioned ports on the specified EP3 (in a FlexPoint Half-Shelf) is M13 formatted DS3 with DS1 AIS on all embedded DS1s.</td></tr><tr><td>CBIT</td><td>C-Bit DS3, the default transmitted signal for unprovisioned ports on the specified EP3 (in a FlexPoint Half-Shelf) is C-Bit formatted DS3 with DS1 AIS on all embedded DS1s.</td></tr><tr><td>STS1</td><td>Unequipped STS-1, the default transmitted signal for unprovisioned ports on the specified EP3 (in a FlexPoint Half-Shelf) is Unequipped STS-1.</td></tr></table>	ASYNC	Asynchronous DS3, the default transmitted signal for unprovisioned ports on the specified EP3 (in a FlexPoint Half-Shelf) is M13 formatted DS3 with DS1 AIS on all embedded DS1s.	CBIT	C-Bit DS3, the default transmitted signal for unprovisioned ports on the specified EP3 (in a FlexPoint Half-Shelf) is C-Bit formatted DS3 with DS1 AIS on all embedded DS1s.	STS1	Unequipped STS-1, the default transmitted signal for unprovisioned ports on the specified EP3 (in a FlexPoint Half-Shelf) is Unequipped STS-1.		
ASYNC	Asynchronous DS3, the default transmitted signal for unprovisioned ports on the specified EP3 (in a FlexPoint Half-Shelf) is M13 formatted DS3 with DS1 AIS on all embedded DS1s.								
CBIT	C-Bit DS3, the default transmitted signal for unprovisioned ports on the specified EP3 (in a FlexPoint Half-Shelf) is C-Bit formatted DS3 with DS1 AIS on all embedded DS1s.								
STS1	Unequipped STS-1, the default transmitted signal for unprovisioned ports on the specified EP3 (in a FlexPoint Half-Shelf) is Unequipped STS-1.								
DIST=	<p>{LONG, MAX, MED, SHORT}</p> <p>DS1 Cable Distance, identifies the provisioned cable length of the DS1 cable connected to the specified DSI. DIST=<value> is only reported if the specified AID identifies a DSI. Values are:</p> <table><tr><td>LONG</td><td>440 – 550 feet</td></tr><tr><td>MAX</td><td>> 550 feet</td></tr><tr><td>MED</td><td>220 – 440 feet</td></tr><tr><td>SHORT</td><td>0 – 220 feet</td></tr></table>	LONG	440 – 550 feet	MAX	> 550 feet	MED	220 – 440 feet	SHORT	0 – 220 feet
LONG	440 – 550 feet								
MAX	> 550 feet								
MED	220 – 440 feet								
SHORT	0 – 220 feet								
ESTYPE=	<p>{M16, M32}</p> <p>End Stage (Shelf) Type, identifies the type of End Stage Shelf. ESTYPE=<value> is only reported if the specified AID identifies a End Stage Shelf. Values are:</p> <table><tr><td>M16</td><td>The End Stage Shelf type is M16 (not applicable to 240 port LMC systems).</td></tr><tr><td>M32</td><td>The End Stage Shelf type is M32.</td></tr></table>	M16	The End Stage Shelf type is M16 (not applicable to 240 port LMC systems).	M32	The End Stage Shelf type is M32.				
M16	The End Stage Shelf type is M16 (not applicable to 240 port LMC systems).								
M32	The End Stage Shelf type is M32.								
FIRMN=	<p>{DSBFMWR, EP3FMWR, ES1FMWR, O1BFMWR, O4MFMWR, RPBFMWR, S3MFMWR, SPBFMWR}</p> <p>Firmware Name, identifies the name of the firmware stored in the Flash EEPROM on the specified circuit pack. FIRMN=<value> is only reported if the specified AID identifies a DSB, EP3, ES1, O1B, O4M, RPB, S3M, or SPB.</p>								
FIRMV=	<p><8 HEXADECIMAL DIGIT APPLICATION FIRMWARE VERSION NUMBER></p> <p>Firmware Version Number, identifies the version number of the firmware stored in the Flash EEPROM on the specified circuit pack. FIRMV=<value> is only reported if the specified AID identifies a DSB, EP3, ES1, O1B, O4M, RPB, S3M, or SPB.</p>								
HMUDIST=	<p>{MED, SHORT}</p> <p>HMU Cable Distance, indicates the strap setting for the cable length of the DS3 cable connected to the specified HMU. (Note that HMUDIST is not provisionable.) HMUDIST=<value> is only reported if the specified AID identifies an HMU. Values are:</p> <table><tr><td>MED</td><td>220 – 450 feet</td></tr><tr><td>SHORT</td><td>0 – 225 feet</td></tr></table>	MED	220 – 450 feet	SHORT	0 – 225 feet				
MED	220 – 450 feet								
SHORT	0 – 225 feet								

HWCODE=	{0x0000–0x4000}
	The status of any of 15 hardware locations:
	0x0000 No failures (OK)
	0x0001 Dual-port RAM failure
	0x0002 Sparky ASIC failure
	0x0004 Calvin ASIC failure
	0x0008 A/D converter failure
	0x0010 LOS49M
	0x0020 49M Clock Failure
	0x0040 LOL 3.24M Phase Detector
	0x0080 LOL 2nd pll
	0x0100 slmr52
	0x0200 int52
	0x0400 Clock activity
	0x0800 Comm error
	0x1000 s166
	0x2000 Not ready
	0x4000 MCB card interlink problem
HWMODE=	{NORMAL, FREE–RUNNING, FAST, HOLDOVER}
	Hardware Mode. Indicates the MCB master clock to external clock reference tracking mode if the specified MCB is the master, or indicates the slave clock to master clock reference tracking mode if the specified MCB is the slave. HWMODE=<value> is only reported if the specified AID identifies an MCB. Values are:
	FAST The slave clock is in fast pull–in of the master clock reference, and the master clock is in fast pull–in of the external clock. After achieving the synchronization, HWMODE automatically changes to NORMAL mode.
	FREE–RUNNING The master/slave clock is operating such that the output signal is totally internally controlled with no influence of a present or previous external/master reference.
	HOLDOVER The master/slave clock has lost its previously–connected external reference source and is using data acquired during the Normal mode or using internal data to control its output.
	NORMAL The slave clock is aligned to and tracking the master clock reference and the master clock is aligned to and tracking the external clock reference source.
HWSTATE=	{MASTER, SLAVE}
	Hardware Status Information. Values are:
	MASTER The circuit pack is the clock master.
	SLAVE The circuit pack is the clock slave.

L2PTYPE= {CS, DS1IO, DS3IO, EOC, ES, SI48, SI36, CM}
Level 2 Processor Type, identifies the type of level two processor load pertaining to the specified circuit pack. L2PTYPE=<value> is only reported if the specified AID identifies an IPU or SPB. Values are:

CS	Center-Stage Matrix SPB
DS1IO	DS1 I/O IPU
DS3IO	DS3 I/O IPU
EOC	Electrical Optical Convertor SPB
ES	End-Stage Matrix SPB
SI48	SONET I/O 48 DS3/STS SPB
SI36	SONET I/O 36 DS3/STS SPB
CM	Compact Matrix (240 port LMC matrix) shelf SPB

LBO1= {LONG, SHORT}
Line Build Out 1, identifies the provisioned line build out for the lowest numbered DS3 on the specified circuit pack. LBO1=<value> is only reported if the specified AID identifies an EP3 or ES1. Values are:

LONG	LBO configured for 226 – 450 feet of cable
SHORT	LBO configured for 0 – 225 feet of cable

LBO2= {LONG, SHORT}
Line Build Out 2, identifies the provisioned line build out for the middle numbered DS3 on the specified circuit pack. LBO2=<value> is only reported if the specified AID identifies an EP3 or ES1. Values are:

LONG	LBO configured for 226 – 450 feet of cable
SHORT	LBO configured for 0 – 225 feet of cable

LBO3= {LONG, SHORT}
Line Build Out 3, identifies the provisioned line build out for the highest numbered DS3 on the specified circuit pack. LBO3=<value> only is reported if the specified AID identifies an EP3 or ES1. Values are:

LONG	LBO configured for 226 – 450 feet of cable
SHORT	LBO configured for 0 – 225 feet of cable

LHSTYPE= {EP3E36, EP3E48, EP3F36, EP3F48, EP3S36, EP3S48, ES1S36, ES148, O1BFH48, O1BSH48, O1BSH48, O4MSH48, O4MFH48}

Lower Half Shelf Type, identifies the type of lower half I/O shelf. LHSTYPE=<value> is only reported if the specified AID identifies an I/O SHELF. Valid values are:

EP3E36	High Density DS3 Shelf with 36 DS3s per shelf containing EP3s that have Enhanced capability.
EP3E48	High Density DS3 I/O Shelf with 48 DS3s per shelf containing EP3s that have Enhanced capability.
EP3F36	High Density DS3/STS Shelf with 36 DS3s/STS1s per shelf containing EP3s that have FlexPoint (STS1/DS3) capability.
EP3F48	High Density DS3/STS1 I/O Shelf with 48 DS3/STS1s per shelf containing EP3s that have FlexPoint (DS3/STS1) capability.
EP3S36	High Density DS3 Shelf with 36 DS3s per shelf containing EP3s that have Standard capability.
EP3S48	High Density DS3 I/O Shelf with 48 DS3s per shelf containing EP3s that have Standard capability.
ES136	High Density STS Shelf with 36 STSs per shelf containing ES1 circuit packs.
ES148	High Density STS1 I/O Shelf with 48 STS1s per shelf containing ES1 circuit packs.
O1BFH48	O1B (OC-3) Shelf with 48 DS3/STS1s per shelf, FlexPoint capability, and Half-bandwidth to the matrix.
O1BSH48	O1B (OC-3) Shelf with 48 STS1s per shelf, SONET capability, and Half-bandwidth to the matrix.
O4MSH48	O4M (OC-12) Standard module in Half Density SI48-O4M shelf, and Half-bandwidth to the matrix.
O4MFH48	O4M (OC-12) FlexPoint module in Half Density SI48-O4M shelf, and Half-bandwidth to the matrix.

MATEAID= EQUIPMENT_AID:

- {CDA-{4, 5, 10, 11, 16, 17, 22, 23, 102, 103}-3-1}
- {CDB-{5}-{1, 3}-{1, 2}}
- CDB-{2-43,104-111,112-135,136-141}-{1, 3}-{1, 2}
- {SI36: CDB-{6-9, 12-15, 18-21, 24-43}-{1, 3}-{1-2},
- {SI48: CDB-{2-43,104-111,112-135,136-141}-{1, 3}-{1, 2}}
- {CIM-1-2-{3-7, 10-14}}
- {CPU-1-2-{1-2}}
- {DSB-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{1-2}}
- {DSK-1-3-1,
- DSK-1-4-2}
- {EOB-{5}-{1, 3}-{1-5}}
- {SI48: EOB-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{1-2},
- EOC: EOB-{4-5, 10-11, 16-17, 22-23, 102, 103}-1-{1-7, 9-15}}
- {HMU-{44-53}-{1-4}-{1-8}}
- {ICM-1-2-{1, 2, 8, 9}}
- {IOB-{6-8, 12-14}-{1, 3}-{1, 3, 5, 7},
- IOB-9-3-{1, 3, 5, 7},
- IOB-15-1-{1, 3, 5, 7}}
- {IPB-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{1-2}}
- {IPU-{44-63}-{1-4}-{1-8}}
- {M16-{2-5, 10-11, 16-17, 22-23}-3-{1-16}}
- {M32-{4-5, 10-11, 16-17, 22-23, 102, 103}-3-{1-16},
- M32-{5}-{1, 3}-{1-3, 6-8}}
- {M40-{2-3}-{1, 3}-{1-16}}
- {M40-{5}-{1, 3}-{4, 5, 9, 10}}
- {MCB-{2,3}-3-1}
- {MCB-{5}-{1, 3}-{1}}
- {O1B-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{2-9, 11-18}}
- {O4M-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{2-3, 11-12}}
- {OPD-1-3-1,
- OPD-1-4-2}
- {OXB-{44-63}-{1-4}-{1-2}}
- {PST-1-{3, 4}-{1-2}}
- {RPB-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{1-2}}
- {S3M-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{4-9, 13-18}}
- {SBT-1-2-{1-4}}
- {SIO-1-2-{1-2, 8-9}}
- {SPB-{2-43, 102-111, 112-135, 136-141}-{1, 3}-{1-2}}
- {SPB-{5}-{1, 3}-{1, 2}}

Mate AID, identifies the equipment AID of the redundant equipment corresponding to the specified AID. MATEAID=<value> is only reported for the AIDs shown above.

MEMCAP= {16M, 32M, 128M}

Memory Capacity, identifies the accessible DRAM memory capacity on the specified CPU. MEMCAP=<value> is only reported if the specified AID identifies the active or standby copy of a CPU. Values are:

16M	16 Megabytes
32M	32 Megabytes
128M	128 Megabytes
1G	1024 Megabytes

MNEMONIC=	<p>{<UP TO 8 ALPHANUMERIC CHARACTER MNEMONIC>, NA}</p> <p>Circuit Pack Mnemonic, identifies the Alcatel mnemonic stored in the Remote Inventory EEPROM for the specified equipment. MNEMONIC=<value> is only reported if the specified AID identifies a CDA, CDB, DSB, EOB, EP3, ES1, IOB, IPB, M16, M32, M40, MCB, O1B, O4M, P39, P56, RPB, S3M, or SPB. Values are:</p> <table> <tr> <td><MNEMONIC></td><td>Mnemonic identifier.</td></tr> <tr> <td>NA</td><td>Not Available, the Mnemonic identifier cannot be read from the Remote Inventory EEPROM (e.g., the circuit pack is not equipped).</td></tr> </table>	<MNEMONIC>	Mnemonic identifier.	NA	Not Available, the Mnemonic identifier cannot be read from the Remote Inventory EEPROM (e.g., the circuit pack is not equipped).		
<MNEMONIC>	Mnemonic identifier.						
NA	Not Available, the Mnemonic identifier cannot be read from the Remote Inventory EEPROM (e.g., the circuit pack is not equipped).						
MODEL=	<p><0–16 ASCII CHARACTERS></p> <p>Model, identifies the model of the disk drive associated with a specified DSK or OPD AID. MODEL= <value> is only reported if the specified AID identifies a DSK or OPD.</p>						
MTPGPL=	<p>{MAXIMUM, MINIMUM, OUT}</p> <p>Mate Power Group Power Level, indicates the available power status of the power supply group that corresponds to the opposite copy (mate) of the specified power supply. MTPGPL=<value> is only reported if the specified AID identifies a P39, P56, or PSF. Values are:</p> <table> <tr> <td>MAXIMUM</td><td>All power supplies in the opposite copy power supply group are in-service and functional.</td></tr> <tr> <td>MINIMUM</td><td>A minimum number of the required power supplies in the opposite copy power supply group are in-service and functional.</td></tr> <tr> <td>OUT</td><td>There is an insufficient number of in-service and functional power supplies in the opposite copy power supply group.</td></tr> </table>	MAXIMUM	All power supplies in the opposite copy power supply group are in-service and functional.	MINIMUM	A minimum number of the required power supplies in the opposite copy power supply group are in-service and functional.	OUT	There is an insufficient number of in-service and functional power supplies in the opposite copy power supply group.
MAXIMUM	All power supplies in the opposite copy power supply group are in-service and functional.						
MINIMUM	A minimum number of the required power supplies in the opposite copy power supply group are in-service and functional.						
OUT	There is an insufficient number of in-service and functional power supplies in the opposite copy power supply group.						
MTXINTF=	<p>{ELECT, OPTCL}</p> <p>Matrix Interface, identifies the type of interface used between the I/O Shelf or Quad and the End Stage matrix shelf. MTXINF=<value> is only reported if the specified AID identifies an I/O SHELF or QUAD. Values are:</p> <table> <tr> <td>ELECT</td><td>Electrical interface between I/O Shelf and End Stage matrix.</td></tr> <tr> <td>OPTCL</td><td>Optical interface between the SI36/SI48 SHELF or the DS3/DS1 QUAD and the End Stage Matrix.</td></tr> </table>	ELECT	Electrical interface between I/O Shelf and End Stage matrix.	OPTCL	Optical interface between the SI36/SI48 SHELF or the DS3/DS1 QUAD and the End Stage Matrix.		
ELECT	Electrical interface between I/O Shelf and End Stage matrix.						
OPTCL	Optical interface between the SI36/SI48 SHELF or the DS3/DS1 QUAD and the End Stage Matrix.						
OPTMATE=	<p>EQUIPMENT_AID:</p> <p>{EOB–{5}–{1, 3}–{1–5}}</p> <p>{SI48: EOB–{6–9, 12–15, 18–21, 24–43, 104–111, 112–135, 136–141}–{1, 3}–{1–2}, EOC: EOB–{4–5, 10–11, 16–17, 22–23, 102, 103}–1–{1–7, 9–15}}</p> <p>{IOB–{6–8, 12–14}–{1, 3}–{1, 3, 5, 7}, IOB–9–3–{1, 3, 5, 7}, IOB–15–1–{1, 3, 5, 7}}</p> <p>{OXB–{44–63}–{1–4}–{1–2}}</p> <p>Optical Mate AID, identifies the EOB, IOB, or OXB circuit pack connected at the other end of the inter-rack optical cable corresponding to the specified equipment. If an AID for an EOC:EOB is specified which is optically connected to a QUAD, only the first of the four associated OXB circuit packs is reported. If an AID for an EOC:EOB is specified which is optically connected to an SI48 shelf, the AID of the EOB in the SI48 shelf, to which the specified EOB is optically connected, is reported. If an AID for an EOC:EOB is specified which is optically connected to an SI36 shelf, the first of the two IOBs, to which the specified EOB is optically connected, is reported. If an AID for a SI48:EOB is specified which is optically connected to an EOC:EOB, the AID of the EOB in the EOC shelf, to which the specified EOB is optically connected in the SI48 shelf, is reported. similarly, parsable output parameters and values are reported for the SI36:EOB and ASYNC:OXB AIDs. The OPTMATE=<value> is only reported if the specified AID identifies an EOB, IOB, or OXB.</p>						

OPTTYPE=	{IR, LR} Optical Transmitter Type, identifies the optical transmitter type on the specified equipment. OPTTYPE=<value> is only reported if the specified AID identifies an O1B or O4M. Values are:	
	IR	Intermediate Reach optical transmitter
	LR	Long Reach optical transmitter
PARTNUM=	{<UP TO 14 ALPHANUMERIC CHARACTER PART NUMBER>, NA} Circuit Pack Part Number, identifies the Alcatel part number stored in the Remote Inventory EEPROM for the specified equipment. PARTNUM=<value> is only reported if the specified AID identifies a CDA, CDB, DSB, EOB, EP3, ES1, IPB, M16, M32, M40, MCB, O1B, O4M, P39, P56, RPB, S3M, or SPB. Values are:	
	<PART NUMBER>	Part Number identifier.
	NA	Not Available, the Part Number identifier cannot be read from the Remote Inventory EEPROM (e.g., the circuit pack is not equipped).
PBTYPE=	{IPB, RPB} Protection Board Type, specifies the type of protection board the SHELF supports. Values are:	
	IPB	Internal Protection Board circuit pack
	RPB	Ring Protection Board circuit pack
PGPL=	{MAXIMUM, MINIMUM, OUT} Power Group Power Level, indicates the available power status of the power supply group that is associated with the specified AID. PGPL=<value> is only reported if the specified AID identifies a CDA, CDB, DSB, DSI, EOB, EP3, ES1, HMU, IOB, IPB, IPU, LMU, M16, M32, M40, MCB, O1B, O4M, OXB, P39, P56, PRT, PSF, RPB, S3M, SPB, or SWI. Values are:	
	MAXIMUM	All power supplies in the associated power supply group are in-service and functional.
	MINIMUM	A minimum number of the required power supplies in the associated power supply group are in-service and functional.
	OUT	There is an insufficient number of in-service and functional power supplies in the associated power supply group.
PORT=	DS1_AID: {T1-{1-59392}} (T1-DS1#) DS3_AID: {T3-{1-4800}} (T3-DS3#) EC1_AID: {EC1-{1-3840}} (EC1-EC1/STS1#) OC3_AID: {OC3-{1-2240}} (OC3-OC3#) OC12_AID: {OC12-{1-560}} (OC12-OC12#) Port AID, identifies the highest hierarchical facility that is (would be) supported by the specified circuit packs. Multiple facility AIDs may be shown combined with a double-ampersand (&&- range) or ampersand (&-group) if the specified circuit pack supports more than one facility. Both EC1 and DS3 AIDs are shown, separated by the word "or", if an EP3 is specified. PORT=<value> is only reported if the specified AID identifies a DSI, EP3, ES1, HMU, LMU, O1B, O4M, or S3M.	
PRI=	{NONE, TMG-0, TMG-1} Primary Clock Reference, identifies the primary clock reference source. PRI=<value> is only reported if the specified AID identifies an MCB. Values are:	
	NONE	Neither TMG-0 or TMG-1 is the primary clock reference source.
	TMG-0	TMG-0 is the primary clock reference source.
	TMG-1	TMG-1 is the primary clock reference source.

PROCTYPE=	{L3PE2, OBPE}										
	Processor Type, specifies the type of processor used on the address module. PROC- TYPE=<value> is only reported if the specified AID identifies an EP3, ES1, O1B. Values are:										
	<table> <tr> <td>L3PE2</td><td>The module contains an L3PE2 processor.</td></tr> <tr> <td>OBPE</td><td>The module contains an OBPE processor.</td></tr> </table>	L3PE2	The module contains an L3PE2 processor.	OBPE	The module contains an OBPE processor.						
L3PE2	The module contains an L3PE2 processor.										
OBPE	The module contains an OBPE processor.										
PROTSTAT=	{MAIN-NEEDS-PROT, MAIN-OK, MAIN-SWITCHED, PROT-NOT-IN-USE, PROTECTING-<EQPT_AID>}										
	Protection Status, identifies the current I/O protection status of the specified I/O circuit pack. PROTSTAT=<value> is only reported if the specified AID identifies an DSI, EP3, ES1, HMU, or LMU. Values are:										
	<table> <tr> <td>MAIN-NEEDS-PROT</td><td>Main Circuit Pack Needs Protection, reported if the speci- fied AID is for a main I/O circuit pack that needs protection.</td></tr> <tr> <td>MAIN-OK</td><td>Main OK, reported if the specified AID is for a main I/O cir- cuit pack that does not need protection.</td></tr> <tr> <td>MAIN-SWITCHED</td><td>Main Circuit Pack Switched to Protection, reported if the specified AID is for a main I/O circuit pack that is switched to protection.</td></tr> <tr> <td>PROT-NOT-IN-USE</td><td>Protection Circuit Pack is Not In Use, reported if the speci- fied AID is for a protection circuit pack that is not providing protection.</td></tr> <tr> <td>PROTECTING-<EQPT_AID></td><td>Protecting - <Equipment AID>, reported if the specified AID is for a protection circuit pack. <EQPT_AID> is the AID of the I/O circuit pack being protected.</td></tr> </table>	MAIN-NEEDS-PROT	Main Circuit Pack Needs Protection, reported if the speci- fied AID is for a main I/O circuit pack that needs protection.	MAIN-OK	Main OK, reported if the specified AID is for a main I/O cir- cuit pack that does not need protection.	MAIN-SWITCHED	Main Circuit Pack Switched to Protection, reported if the specified AID is for a main I/O circuit pack that is switched to protection.	PROT-NOT-IN-USE	Protection Circuit Pack is Not In Use, reported if the speci- fied AID is for a protection circuit pack that is not providing protection.	PROTECTING-<EQPT_AID>	Protecting - <Equipment AID>, reported if the specified AID is for a protection circuit pack. <EQPT_AID> is the AID of the I/O circuit pack being protected.
MAIN-NEEDS-PROT	Main Circuit Pack Needs Protection, reported if the speci- fied AID is for a main I/O circuit pack that needs protection.										
MAIN-OK	Main OK, reported if the specified AID is for a main I/O cir- cuit pack that does not need protection.										
MAIN-SWITCHED	Main Circuit Pack Switched to Protection, reported if the specified AID is for a main I/O circuit pack that is switched to protection.										
PROT-NOT-IN-USE	Protection Circuit Pack is Not In Use, reported if the speci- fied AID is for a protection circuit pack that is not providing protection.										
PROTECTING-<EQPT_AID>	Protecting - <Equipment AID>, reported if the specified AID is for a protection circuit pack. <EQPT_AID> is the AID of the I/O circuit pack being protected.										
QTYPE=	{DS1,DS3}										
	QUAD Type, indicates the quadrant type for the specified I/O Quad. QTYPE=<value> is only reported if the specified AID identifies a QUAD. Values are:										
	<table> <tr> <td>DS1</td><td>QTYPE configured for DS1 QUAD.</td></tr> <tr> <td>DS3</td><td>QTYPE configured for DS3 QUAD</td></tr> </table>	DS1	QTYPE configured for DS1 QUAD.	DS3	QTYPE configured for DS3 QUAD						
DS1	QTYPE configured for DS1 QUAD.										
DS3	QTYPE configured for DS3 QUAD										
REFSWMODE=	{MANSWTOPRI, MANSWTOSEC, SWTOPRI, SWTOSEC}										
	Reference Switch Mode, indicates whether the specified MCB is manually or automatical- ly switched to either the Primary or Secondary Clock Reference Source. REFSWMODE=<value> is only reported if the specified AID identifies an MCB. Values are:										
	<table> <tr> <td>MANSWTOPRI</td><td>Manually switched to Primary Clock Reference Source.</td></tr> <tr> <td>MANSWTOSEC</td><td>Manually switched to Secondary Clock Reference Source.</td></tr> <tr> <td>SWTOPRI</td><td>Automatically switched to Primary Clock Reference Source.</td></tr> <tr> <td>SWTOSEC</td><td>Automatically switched to Secondary Clock Reference Source.</td></tr> </table>	MANSWTOPRI	Manually switched to Primary Clock Reference Source.	MANSWTOSEC	Manually switched to Secondary Clock Reference Source.	SWTOPRI	Automatically switched to Primary Clock Reference Source.	SWTOSEC	Automatically switched to Secondary Clock Reference Source.		
MANSWTOPRI	Manually switched to Primary Clock Reference Source.										
MANSWTOSEC	Manually switched to Secondary Clock Reference Source.										
SWTOPRI	Automatically switched to Primary Clock Reference Source.										
SWTOSEC	Automatically switched to Secondary Clock Reference Source.										
REFSWTIME=	{YY-MM-DD,HH-MN-SS:{00-99} - {1-12} - {1-31},{00-23} - {00-59} - {00-59} }										
	Clock Reference Switch Time, indicates the date and time of the last automatic or manual TMG-{0, 1} clock reference switch. REFSWTIME=<value> is only reported if the speci- fied AID identifies an MCB and its associated TMG parameter value is EXT1544.										
REVISION=	<0-4 ASCII CHARACTERS>										
	Revision, identifies the revision number of the disk drive associated with a specified DSK or OPD AID. REVISION= <value> is only reported if the specified AID identifies a DSK or OPD.										

RPLSHELF=	<p>SHELF/QUAD_AID: {QUAD-{44-63}-{1-4}-{1-4}} {SHELF-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42, 104-106, 108-110, 136-141}-{1, 3}-1, SHELF-{9, 21, 35, 43}-3-1, SHELF-{15, 27, 31, 39, 107, 111}-1-1}}</p> <p>Replacement Shelf, identifies the SI48 Shelf that is replaced by the specified QUAD, or the DS1 Quad that is replacing the specified disabled (SST of DSBLD) SI48 Shelf. RPLSHELF=<value> is only reported if the specified AID identifies a QUAD or an I/O SHELF (with an SST of DSBLD).</p>								
RSPLKSTAT=	<p>{OFF, ON} RSP Lock Status, indicates the status of the 48 volt power switch in the RSP. RSPLKSTAT=<value> is only reported if the specified AID identifies an RSP. Values are:</p> <table> <tr> <td>OFF</td><td>Off, the RSP 48 volt power switch is off.</td></tr> <tr> <td>ON</td><td>On, the RSP 48 volt power switch is on.</td></tr> </table>	OFF	Off, the RSP 48 volt power switch is off.	ON	On, the RSP 48 volt power switch is on.				
OFF	Off, the RSP 48 volt power switch is off.								
ON	On, the RSP 48 volt power switch is on.								
RVRTV=	<p>{N, Y} Clock Reference Revertive Mode, indicates whether clock reference switching of TMG-{0, 1} is revertive or non-revertive. RVRTV=<value> is only reported if the specified AID identifies an MCB module. Values are:</p> <table> <tr> <td>N</td><td>No, the clock reference source does not revert to the original reference source upon restoration of a failed reference source.</td></tr> <tr> <td>Y</td><td>Yes, the clock reference source does revert to the original reference source upon restoration of a failed reference source.</td></tr> </table>	N	No, the clock reference source does not revert to the original reference source upon restoration of a failed reference source.	Y	Yes, the clock reference source does revert to the original reference source upon restoration of a failed reference source.				
N	No, the clock reference source does not revert to the original reference source upon restoration of a failed reference source.								
Y	Yes, the clock reference source does revert to the original reference source upon restoration of a failed reference source.								
RX1550=	<p>{ON, OFF, NA} Receiving cross coupled clock from the mate MCB module.</p>								
RX155CPO=	<p>{LOF, LOS, FO, NOERR} State of the clock incoming to the copy 0 CDB modules.</p> <table> <tr> <td>LOF</td><td>Loss of frame detected</td></tr> <tr> <td>LOS</td><td>Loss of signal detected</td></tr> <tr> <td>FO</td><td>Frame offset</td></tr> <tr> <td>NOERR</td><td>No error</td></tr> </table>	LOF	Loss of frame detected	LOS	Loss of signal detected	FO	Frame offset	NOERR	No error
LOF	Loss of frame detected								
LOS	Loss of signal detected								
FO	Frame offset								
NOERR	No error								
RX155CP1=	<p>{LOF, LOS, FO, NOERR} State of the clock incoming to the copy 1 CDB modules.</p> <table> <tr> <td>LOF</td><td>Loss of frame</td></tr> <tr> <td>LOS</td><td>Loss of signal</td></tr> <tr> <td>FO</td><td>Frame offset</td></tr> <tr> <td>NOERR</td><td>No error</td></tr> </table>	LOF	Loss of frame	LOS	Loss of signal	FO	Frame offset	NOERR	No error
LOF	Loss of frame								
LOS	Loss of signal								
FO	Frame offset								
NOERR	No error								
SEC=	<p>{NONE, TMG-0, TMG-1} Secondary Clock Reference, identifies the secondary clock reference source. SEC=<value> is only reported if the specified AID identifies an MCB. Values are:</p> <table> <tr> <td>NONE</td><td>Neither TMG-0 or TMG-1 is the secondary clock reference source.</td></tr> <tr> <td>TMG-0</td><td>TMG-0 is the secondary clock reference source.</td></tr> <tr> <td>TMG-1</td><td>TMG-1 is the secondary clock reference source.</td></tr> </table>	NONE	Neither TMG-0 or TMG-1 is the secondary clock reference source.	TMG-0	TMG-0 is the secondary clock reference source.	TMG-1	TMG-1 is the secondary clock reference source.		
NONE	Neither TMG-0 or TMG-1 is the secondary clock reference source.								
TMG-0	TMG-0 is the secondary clock reference source.								
TMG-1	TMG-1 is the secondary clock reference source.								
SERIAL=	<p>{<UP TO 16 ALPHANUMERIC CHARACTER SERIAL NUMBER>, NA} Circuit Pack Serial Number, identifies the Alcatel serial number stored in the Remote Inventory EEPROM for the specified equipment. SERIAL=<value> is only reported if the specified AID identifies a CDA, CDB, DSB, EOB, EP3, ES1, IPB, M16, M32, M40, MCB, IOB, O1B, O4M, P39, P56, RPB, S3M, or SPB. Values are:</p> <table> <tr> <td><SERIAL NUMBER></td><td>Serial Number identifier.</td></tr> <tr> <td>NA</td><td>Not Available, the Serial Number identifier cannot be read from the Remote Inventory EEPROM (e.g., the circuit pack is not equipped).</td></tr> </table>	<SERIAL NUMBER>	Serial Number identifier.	NA	Not Available, the Serial Number identifier cannot be read from the Remote Inventory EEPROM (e.g., the circuit pack is not equipped).				
<SERIAL NUMBER>	Serial Number identifier.								
NA	Not Available, the Serial Number identifier cannot be read from the Remote Inventory EEPROM (e.g., the circuit pack is not equipped).								

SIZE=	<0–7 ASCII CHARACTERS> Size, identifies the size of the disk (in megabytes) associated with a specified DSK or OPD AID. SIZE= <value> is only reported if the specified AID identifies a DSK or OPD.
SW=	{0x00 – 0x0F} Switch bit signals
TMG=	{EXT1544, INT} Internal/External Timing Mode, indicates the timing mode of the specified MCB. TMG=<value> is only reported if the specified AID identifies an MCB. Values are: EXT1544 External 1544 Kbps (DS1) clock reference timing INT Internal clock reference timing
TMG0=	{AIS, LOF, LOS, OK, PLLEOR, SLTMSIG, SYNCSTATQUAL, UNPROV} Timing Reference Source 0 Status, indicates the failure/provisioning status of the TMG–0 Timing Reference Source. TMG0=<value> is only reported if the specified AID identifies an MCB. Values are: AIS AIS detected. LOF Loss of Frame detected. LOS Loss of Signal detected. OK No problems detected. PLLEOR Phase Lock Loop End (out) Of Range detected. (This value is suppressed if AIS, LOF, or LOS is detected.) SLTMSIG Slipping Timing Reference Signal detected. SYNCSTATQUAL Synchronization Status Quality. UNPROV The timing source is not provisioned.
TMG1=	{AIS, LOF, LOS, OK, PLLEOR, SLTMSIG, SYNCSTATQUAL, UNPROV} Timing Reference Source 1 Status, indicates the failure/provisioning status of the TMG–1 Timing Reference Source. TMG1=<value> is only reported if the specified AID identifies an MCB. Values are: AIS AIS detected. LOF Loss of Frame detected. LOS Loss of Signal detected. OK No problems detected. PLLEOR Phase Lock Loop End (out) Of Range detected. (This value is suppressed if AIS, LOF, or LOS is detected.) SLTMSIG Slipping Timing Reference Signal detected. SYNCSTATQUAL Synchronization Status Quality. UNPROV The timing source is not provisioned.
TX155=	{ON, OFF, NA} This MCB module sending distribution clock to the CDB modules.
TX1550=	{ON, OFF, NA} Transmit state of the cross coupled clock to the mate MCB module.
UHSTYPE=	{EP3E36, EP3E48, EP3F36, EP3F48, EP3S36, EP3S48, ES136, ES148, O1BFH48, O1BSH48, O4MSH48, O4MFH48} Upper Half Shelf Type, identifies the type of upper half I/O shelf. UHSTYPE=<value> is only reported if the specified AID identifies an I/O SHELF. Valid values are: EP3E36 High Density DS3 Shelf with 36 DS3s per shelf containing EP3s that have Enhanced capability. EP3E48 High Density DS3 I/O Shelf with 48 DS3s per shelf containing EP3s that have Enhanced capability.

EP3F36	High Density DS3/STS Shelf with 36 DS3s/STS1s per shelf containing EP3s that have FlexPoint (STS1/DS3) capability.																								
EP3F48	High Density DS3/STS1 I/O Shelf with 48 DS3/STS1s per shelf containing EP3s that have FlexPoint (DS3/STS1) capability.																								
EP3S36	High Density DS3 Shelf with 36 DS3s per shelf containing EP3s that have Standard capability.																								
EP3S48	High Density DS3 I/O Shelf with 48 DS3s per shelf containing EP3s that have Standard capability.																								
ES136	High Density STS Shelf with 36 STSs per shelf containing ES1 circuit packs.																								
ES148	High Density STS1 I/O Shelf with 48 STS1s per shelf containing ES1 circuit packs.																								
O1BFH48	O1B (OC-3) Shelf with 48 DS3/STS1s per shelf, FlexPoint capability, and Half-bandwidth to the matrix.																								
O1BSH48	O1B (OC-3) Shelf with 48 STS1s per shelf, SONET capability, and Half-bandwidth to the matrix.																								
O4MSH48	O4M (OC-12) Standard module in Half Density SI48-O4M shelf, and Half-bandwidth to the matrix.																								
O4MFH48	O4M (OC-12) FlexPoint module in Half Density SI48-O4M shelf, and Half-bandwidth to the matrix.																								
VENDOR=	<0-8 ASCII CHARACTERS> Vendor, identifies the name of the manufacturer of the disk drive associated with a specified DSK or OPD AID. VENDOR= <value> is only reported if the specified AID identifies a DSK or OPD.																								
PST	{IS, IS-ANR, OOS-AU, OOS-AUMA, OOS-MA} Primary State, indicates the current primary state of the specified equipment entity. Refer to Appendix G, State Transitions for a definition of state names and description of state transitions. Values are: <table> <tr> <td>IS</td><td>In-Service</td></tr> <tr> <td>IS-ANR</td><td>In-Service-Abnormal</td></tr> <tr> <td>OOS-AU</td><td>Out-Of-Service-Autonomous</td></tr> <tr> <td>OOS-AUMA</td><td>Out-Of-Service-Autonomous and Management</td></tr> <tr> <td>OOS-MA</td><td>Out-Of-Service-Management</td></tr> </table>	IS	In-Service	IS-ANR	In-Service-Abnormal	OOS-AU	Out-Of-Service-Autonomous	OOS-AUMA	Out-Of-Service-Autonomous and Management	OOS-MA	Out-Of-Service-Management														
IS	In-Service																								
IS-ANR	In-Service-Abnormal																								
OOS-AU	Out-Of-Service-Autonomous																								
OOS-AUMA	Out-Of-Service-Autonomous and Management																								
OOS-MA	Out-Of-Service-Management																								
SST	{ASI, MEA, MT, PRI, PSI, PWR, SDEE, STBYC, STBYH, SWDL, UAS, UEQ} Secondary State, indicates any secondary states associated with the equipment entity. Multiple SST values may be shown combined with an ampersand (&) if more than one value applies. Refer to Appendix G, State Transitions for a definition of state names and description of state transitions. Values are: <table> <tr> <td>ASI</td><td>Automatic Switch Inhibited</td></tr> <tr> <td>MEA</td><td>Mismatch of Equipment and Attributes</td></tr> <tr> <td>MT</td><td>Maintenance</td></tr> <tr> <td>PRI</td><td>Protection Release Inhibited</td></tr> <tr> <td>PSI</td><td>Protection Switching Inhibited</td></tr> <tr> <td>PWR</td><td>Power</td></tr> <tr> <td>SDEE</td><td>Supported Entity Exists</td></tr> <tr> <td>STBYC</td><td>Standby-Cold</td></tr> <tr> <td>STBYH</td><td>Standby-Hot</td></tr> <tr> <td>SWDL</td><td>Software Download</td></tr> <tr> <td>UAS</td><td>Unassigned</td></tr> <tr> <td>UEQ</td><td>Unequipped</td></tr> </table>	ASI	Automatic Switch Inhibited	MEA	Mismatch of Equipment and Attributes	MT	Maintenance	PRI	Protection Release Inhibited	PSI	Protection Switching Inhibited	PWR	Power	SDEE	Supported Entity Exists	STBYC	Standby-Cold	STBYH	Standby-Hot	SWDL	Software Download	UAS	Unassigned	UEQ	Unequipped
ASI	Automatic Switch Inhibited																								
MEA	Mismatch of Equipment and Attributes																								
MT	Maintenance																								
PRI	Protection Release Inhibited																								
PSI	Protection Switching Inhibited																								
PWR	Power																								
SDEE	Supported Entity Exists																								
STBYC	Standby-Cold																								
STBYH	Standby-Hot																								
SWDL	Software Download																								
UAS	Unassigned																								
UEQ	Unequipped																								

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/ * <Informational Error Description Text> */]
[/ * <Expanded Error Code Description> */]
[/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

ENRE	Equipage, Not Recognized Equipage /* The command was rejected. */
IENE	Input, Entity does Not Exist /* The <shelf, quad> has not been provisioned. */
SDBE	Status, internal Data Base Error /* Error reading shelf copy selection database for <AID>. */ /* Unable to retrieve CDA database. */ /* Unable to retrieve clock group table for CDA clock group <CLK_GRP_NUM>. */ /* Unable to retrieve MCB database. */ /* Unable to retrieve <AID> database. */
SROF	Status, Requested Operation Failed /* Error reading database for card <AID>. */ /* Error reading mate <AID> data base. */ /* Platform configuration data base access failure. */ /* Error in software path. Quad type shelf expected. */

EXAMPLES

In the following example, the provisioning data, status, and state of EP3-8-3-2 is retrieved.

```
RTRV-EQPT::EP3-8-3-2;

<SID> <YY-MM-DD> <HH:MM:SS>
M P70025 COMPLD
"EP3-8-3-2::PGPL=MAXIMUM,PORT=4-1&&-3,DFLT SIG=ASYNCR,
LBO1=SHORT,LBO2=SHORT,LBO3=SHORT,MNEMONIC=EP3-----,
CLEI=SNC14X03AA,PARTNUM=3AL45028AGAG02,SERIAL=ALCLAAPN5110----,
FIRMN=EP3FMWR,FIRMV=36cd0a7a,APPN=EP3APPS,APPV=36d1fdee,
CURPROT=NO-PROT,PROTSTAT=MAIN-OK,PROCTYPE=OBPE:IS,SDEE"
/* RTRV-EQPT::EP3-8-3-2 [P70025] (5-1) */
```

In the following example, the provisioning data, status, and state of CIM-1-2-3 is retrieved.

```
RTRV-EQPT::CIM-1-2-3;

<SID> <YY-MM-DD> <HH:MM:SS>
M Pad568 COMPLD
"CIM-1-2-3::MATEAID=CIM-1-2-10,ACL1=ACL-1-2-9,ACL2=ACL-1-2-10,
ACL3=ACL-1-2-11,ACL4=ACL-1-2-12:IS"
/* RTRV-EQPT::CIM-1-2-3 [Pad568] (3) */
;
```

In the following example, the provisioning data, status, and state of MCB-2-3-1 is retrieved.

```
RTRV-EQPT::MCB-2-3-1;
```

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pad569 COMPLD
  "MCB-2-3-1 : :APPN=MCBAPPS, APPV=2E7B91F3, CLEI=SNPQAWZ6AA,
PARTNUM=3AL45063AAAA, SERIAL=ALCLA0000527, MNEMONIC=MCB101, AUTCLKMD=N,
AUTSWTIME=09-25-95, 13-28-55, CLKDEST=CDA-4-3-1-1&CDA-1-3-1, CLKMDE=NORMAL,
CLKSTAT=READY, CONTSTAT=MASTER, MATEAID=MCB-3-3-1, PGPL=MAXIMUM,
TMG=EXT1544, PRI=TMG-0, SEC=TMG-1, TMG0=OK, TMG1=OK, REFSWMODE=MANSWTOPRI,
REFSWTIME=09-15-95, 10-24-46, RVRTV=N:IS"
/* HARDWAREDATA:HWSTATE=SLAVE, HWMODE=NORMAL, TX1550=ON, RX1550=ON,
RX155CP0=NOERR, RX155CP1=NOERR, TX155=ON, SW=0x09, HWCODE=0x0000 */
/* RTRV-EQPT: :MCB-2-3-1 [Pad569] (4) */
;
```

RELATED COMMANDS

```
DLT-EQPT
ED-EQPT
ENT-EQPT
RMV-EQPT
RST-EQPT
RTRV-STATE-EQPT
```


COMMAND CODE: **RTRV-F3**
COMMAND NAME: **RETRIEVE F3**

PURPOSE

The RTRV-F3 command retrieves the provisioned parameter values, all assigned DS1s, and the state for the specified fractional DS3 (F3). The command is executed regardless of the state of the F3.

The successful response for a RTRV-F3 command contains one line of parsable output data, in ascending order (from lowest specified F3 AID to largest specified F3 AID) for each F3 AID specified. Values for the T1N1 to T1N7 parameters are only displayed if a DS1 has been assigned in that respective slot. Only <AID> and <PST,SST> are displayed for a retrieve on an unprovisioned F3.

A RTRV-F3 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-F3: [TID] :AID: [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	F3_AID: {T3F3-{1-4800}-{1-14}} (T3F3-DS3#-Fractional_DS3#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: DS1 AID, identifies the DS1 port. Restrictions: The AID must indicate an F3 AID that is located in an electrical DS3 located on a SI48 shelf or the command will be denied.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  "<AID>:: [FMT=<value> [ ,T1N1=<value>] [ ,T1N2=<value>] [ ,T1N3=<value>]
  [ ,T1N4=<value>] [ ,T1N5=<value>] [ ,T1N6=<value>] [ ,T1N7=<value>]] :
  <PST>, [SST>]"
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

AID	F3_AID: {T3F3-{1-4800}-{1-14}} (T3F3-DS3#-Fractional_DS3#) F3 AID. Indicates the F3 to which this line of output data pertains.
FMT=	{ESF, SF} Framing Format, identifies the framing format of the F3 and all the DS1s assigned to the it. Values are: ESF Extended SuperFrame. DS1s all are ESF formatted. SF SuperFrame. DS1s all are normal SuperFrame formatted.

T1N1=	DS1_AID: {T3T1-{1-4800}-{1-28}} DS1 Number 1's AID, identifies a DS1 assigned to the F3	(T3T1-DS3#-DS1#)
T1N2=	DS1_AID: {T3T1-{1-4800}-{1-28}} DS1 Number 2's AID, identifies a DS1 assigned to the F3	(T3T1-DS3#-DS1#)
T1N3=	DS1_AID: {T3T1-{1-4800}-{1-28}} DS1 Number 3's AID, identifies a DS1 assigned to the F3	(T3T1-DS3#-DS1#)
T1N4=	DS1_AID: {T3T1-{1-4800}-{1-28}} DS1 Number 4's AID, identifies a DS1 assigned to the F3	(T3T1-DS3#-DS1#)
T1N5=	DS1_AID: {T3T1-{1-4800}-{1-28}} DS1 Number 5's AID, identifies a DS1 assigned to the F3	(T3T1-DS3#-DS1#)
T1N6=	DS1_AID: {T3T1-{1-4800}-{1-28}} DS1 Number 6's AID, identifies a DS1 assigned to the F3	(T3T1-DS3#-DS1#)
T1N7=	DS1_AID: {T3T1-{1-4800}-{1-28}} DS1 Number 7's AID, identifies a DS1 assigned to the F3	(T3T1-DS3#-DS1#)
PST	{IS, OOS-AU, OOS-AUMA, OOS-MA} Primary State. Indicates the current primary state of the F3. Refer to Appendix G, State Transitions. Values are:	
	IS	In-Service
	OOS-AU	Out-Of-Service-Autonomous
	OOS-AUMA	Out-Of-Service-Autonomous and Management
	OOS-MA	Out-Of-Service-Management
SST	{DSBLD, PMI, SGEO, UAS} Secondary State. Indicates any secondary states associated with the F3. SST values may be shown in the output combined with an ampersand (&) if more than one value applies to the F3 at the time of the RTRV-F3. Values are:	
	DSBLD	Disabled
	PMI	Performance Monitoring Inhibited
	SGEO	Supporting Entity Outage
	UAS	Unassigned

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
SDBE	Status, internal Data Base Error
	/* GetAidEntry() Error: <ERROR-STRING> */
	/* TP Database Error: <ERROR-STRING> for <AID-STRING> */
	/* TPidToAidStr() Error: <ERROR-STRING> */
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, the first four F3s in the electrical DS3 T3-7 are retrieved:

```
RTRV-F3::T3F3-7-1&&-4;
```

The output response, shown below, assumes CID 6 was used to enter the command and a system generated CTAG value of Pab124. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pab124 COMPLD
"T3F3-7-1::FMT=SF,T1N1=T3T1-7-4,T1N2=T3T1-7-8,T1N3=T3T1-7-9:IS"
"T3F3-7-2::FMT=SF,T1N5=T3T1-7-5,T1N6=T3T1-7-6:IS,PMI"
"T3F3-7-3::OOS-MA,UAS"
"T3F3-7-4::OOS-MA,UAS"
/* RTRV-F3::T3F3-7-1&&-4 [Pab124] (6) */
;
```

The output shows that the first F3 (T3F3-7-1) has three DS1s associated to it, all using SuperFrame format. The F3 is in service and summarized PM data can be retrieved from the F3. The second F3 only has two DS1s associated with it but it has a secondary state of PMI indicating that the PM data collecting has been turned off for the F3 via the SET-PMODE-F3 command. The last two F3s have not yet been provisioned.

RELATED COMMANDS

```
DLT-F3
ED-F3
ENT-F3
SET-PMODE-F3
```


COMMAND CODE: **RTRV-FAC-SUM**
COMMAND NAME: **RETRIEVE FACILITY SUMMARY**

PURPOSE

The RTRV-FAC-SUM command retrieves a summary of all provisioned and unprovisioned facilities within the 1631 SX LMC.

The successful response for a RTRV-FAC-SUM command contains a list of all facilities grouped by type (T1, T3, OC3, etc.) and status (available, provisioned, cross connected, etc.). Individual lines within these listings show how many of each type and group of facilities exist within the system. Where applicable, each of these groupings also contains a line indicating the AID of the next available port of the same type.

A RTRV-FAC-SUM command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-FAC-SUM: [TID] :: [CTAG] :: [FACTYPE=] [, NEXTAVAIL=] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
FACTYPE=	{ALL, EC1, OC3, OC12, STS1, STS3C, T1, T3, VT1, F3} Default: {ALL} Addressing: None Description: Facility Type, for displaying ports of all or selected facility types. No entry or FACTYPE=ALL causes display of all system facilities. FACTYPE= <facility type> displays ports of that facility type only.
NEXTAVAIL=	{Y, N} Default: {N} Addressing: None Description: Next port available for provisioning. Y = Display next port available for provisioning N = Do not display next port available for provisioning.

SUCCESSFUL RESPONSE FORMAT

Response For Summary Of All Facility Types (FACTYPE=ALL)

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
"-----"
"Facility Summary Information"
"Site      : <SID>"
"Date & Time: <YY-MM-DD> <HH:MM:SS>"
"-----"
"<PRTCNT> total T3 equivalent ports in system"
""
"-----"
"T3/EC1 FlexPoint pair total ports: <PRTCNT>"
"T3 total ports: <PRTCNT>"
"EC1 total ports: <PRTCNT>"
"<PRTCNT> cross-connected T3 ports"
"<PRTCNT> cross-connected EC1 ports"
"<PRTCNT> provisioned T3 ports without cross-connection"
"<PRTCNT> provisioned EC1 ports without cross-connection"
"<PRTCNT> available T3/EC1 FlexPoint pair ports"
"<PRTCNT> available T3 ports"
"<PRTCNT> available EC1 ports"
["Next available T3 port: <AID>"]
["Next available EC1 port: <AID>"]
"-----"
"OC3 total ports: <PRTCNT>"
"<PRTCNT> cross-connected OC3 ports"
"<PRTCNT> provisioned OC3 ports without cross-connection"
"<PRTCNT> available OC3 ports"
["Next available OC3 port: <AID>"]
"-----"
"OC12 total ports: <PRTCNT>"
"<PRTCNT>0 cross-connected OC12 ports"
"<PRTCNT> provisioned OC12 ports without cross-connection"
"<PRTCNT> available OC12 ports"
["Next available OC12 port: <AID>"]
"-----"
"STS3C/3 STS1s FlexPoint pair total ports: <PRTCNT>"
"STS3C total ports: <PRTCNT>"
"STS1 total ports: <PRTCNT>"
"<PRTCNT> cross-connected STS3C ports"
"<PRTCNT> cross-connected STS1 ports"
"<PRTCNT> provisioned STS3C ports without cross-connection"
"<PRTCNT> provisioned STS1 ports without cross-connection"
"<PRTCNT> available STS3C/3 STS1s FlexPoint pair ports"
"<PRTCNT> available STS3C ports"
"<PRTCNT> available STS1 port"
["Next available STS3C port: <AID>"]
["Next available STS1 port: <AID>"]
"-----"
"T1 total ports: <PRTCNT>"
"<PRTCNT> cross-connected T1 ports"
"<PRTCNT> provisioned T1 ports without cross-connection"
"<PRTCNT> available T1 ports"
```

```

["Next available T1 port:  <AID>"]
"-----"
"VT1 total ports:  <PRTCNT>"
"<PRTCNT> cross-connected VT1 ports"
"<PRTCNT> provisioned VT1 ports without cross-connection"
"<PRTCNT> available VT1 ports"
["Next available VT1 port:  <AID>"]
"-----"
"F3 total ports:<PRTCNT>"
"<PRTCNT> cross-connected F3 ports"
"<PRTCNT> provisioned F3 ports without cross-connection"
"<PRTCNT> available F3 ports"
["Next available F3 port:  <AID>"]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

Response For Summary Of Facility Type (FACTYPE=<OC3, OC12, VT1, T1, or F3)

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD

"<FACTYPE> total ports:  <PRTCNT> "
"<PRTCNT> cross-connected <FACTYPE> ports"
"<PRTCNT> provisioned <FACTYPE> ports without cross-connection"
["Next available <FACTYPE>  port:  <AID>"]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

Response For Summary Of Facility Type (FACTYPE=<T3/EC1 or STS3C/STS1>)

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD

"<FACTYPE/FACTYPE> FlexPoint pair total ports:  <PRTCNT> "
"<PRTCNT> cross-connected <FACTYPE> ports"
"<PRTCNT> provisioned <FACTYPE/FACTYPE> FlexPoint pair ports"
"<PRTCNT> available <FACTYPE> ports"
["Next available <FACTYPE>  port:  <AID>"]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

OUTPUT PARAMETERS

FACTYPE	FACility TYPE for which number of ports are displayed. Values are:	
	T3	Asynchronous 44.736 Mbps facility
	EC1	Electrical Carrier level 1, 51.84 Mbps facility
	OC3	SONET Optical Carrier level 3, 155.52 Mbps facility
	OC12	SONET Optical Carrier level 12, 622.08 Mbps facility
	STS1	Synchronous Transport Signal level 1, 51.84 Mbps facility
	STS3C	Synchronous Transport Signal level 2 – Concatenated, 155.52 Mbps facility
	T1	Asynchronous 1.544 Mbps facility
	VT1	SONET Virtual Tributary (VT1.5), 1.544 Mbps facility
	F3	Asynchronous Fractional DS3, up to seven DS1 facilities

Note: Paired FACTYPEs, T3/EC1 and STS3C/STS1, displayed in Successful Response Format as “Flexpoint pairs” represent one type (eg, T3 or EC1) of FACTYPE. Ports on Flexpoint modules may be configured for either indicated FACTYPE but not a mix of both.

NEXTAVAIL Access identifier of NEXT AVAILable port of the facility type. Values are:

DS1_AID:
 {T1-{1-59392}} (T1-DS1#)
 {T3T1-{1-4800}-{1-28}} (T3T1-DS3#-DS1#)

DS3_AID:
 {T3-{1-4800}} (T3-DS3#)

EC1_AID:
 {EC1-{1-3840} } (EC1-EC1/STS1#)

F3_AID:
 {T3F3-{1-4800}-{1-14}} (T3F3-DS3#-Fractional_DS3#)

OC3_AID:
 {OC3-{1-2240}} (OC3-OC3#)

OC12_AID:
 {OC12-{1-560}} (OC12-OC12#)

STS1_AID:
 {OC3STS1-{1-2240}-{1-3}} (OC3STS1-OC3#-STS1#)
 {OC12STS1-{1-560}-{1-4}-{1-3}} (OC12STS1-OC12#-STM1#-STS1#)

STS3C_AID:
 {OC3STS3C-{1-2240}} (OC3STS3C-OC3#/STS3C#)
 {OC12STS3C-{1-560}-{1-4}} (OC12STS3C-OC12#-STM1/STS3C#)

VT1_AID:
 {EC1VT1-{1-3840}-{1-7}-{1-4}} (EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)
 {OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}} (OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)
 {OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}} (OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)

PRTCNT PoRT CouNT. The total number of ports of the indicated group or FACTYPE.

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV Input, Data Not Valid

SDBE Status, internal Data Base Error

 /*Error in retrieval of Site ID, status = <STATUS>*/

 /*ConvertTPNum(<TP-TYPE>, <RECORD-NUMBER>, <TP-TYPE>): <ERROR-STRING>*/

 /*Invalid TP summary type: <TP-TYPE>*/

 /*TP Database Error: <ERROR-STRING> for <AID-STRING>*/

 /*GetSptdTPType(<TP-TYPE>, <RECORD-NUMBER>): <ERROR-STRING>*/

EXAMPLES

In the following example, a summary of all facility information for the system has been requested:

```
RTRV-FAC-SUM: : : : : FACTYPE=ALL, NEXTAVAIL=Y;
```

The output response, shown below, indicates that the system is sparsely configured as might be expected if the command were executed before a system installation was complete.

```
LMC3 01-02-27 00:51:20
M uaAlu COMPLD
"-----"
"Facility Summary Information"
"Site      :   LMC3"
"Date & Time:  01-02-27 00:51:19"
"-----"
"520 total T3 equivalent ports in system"
""
"-----"
"T3/EC1 FlexPoint pair total ports:  21"
"T3 total ports:  320"
"EC1 total ports:  90"
"17 cross-connected T3 ports"
"0 cross-connected EC1 ports"
"233 provisioned T3 ports without cross-connection"
"84 provisioned EC1 ports without cross-connection"
"21 available T3/EC1 FlexPoint pair ports"
"70 available T3 ports"
"6 available EC1 ports"
"Next available T3 port:  T3-961"
"Next available EC1 port:  EC1-1"
"-----"
"OC3 total ports:  16"
"0 cross-connected OC3 ports"
"11 provisioned OC3 ports without cross-connection"
"5 available OC3 ports"
"Next available OC3 port:  OC3-152"
"-----"
"OC12 total ports:  4"
"0 cross-connected OC12 ports"
"0 provisioned OC12 ports without cross-connection"
"4 available OC12 ports"
"Next available OC12 port:  OC12-49"
"-----"
"STS3C/3 STS1s FlexPoint pair total ports:  2"
"STS3C total ports:  0"
"STS1 total ports:  96"
"0 cross-connected STS3C ports"
"5 cross-connected STS1 ports"
"0 provisioned STS3C ports without cross-connection"
"90 provisioned STS1 ports without cross-connection"
"2 available STS3C/3 STS1s FlexPoint pair ports"
"0 available STS3C ports"
"1 available STS1 port"
"Next available STS3C port:  OC3STS3C-145"
"Next available STS1 port:  OC3STS1-145-1"
"-----"
"T1 total ports:  8456"
"4926 cross-connected T1 ports"
"2015 provisioned T1 ports without cross-connection"
"1515 available T1 ports"
"Next available T1 port:  T1-43"
```

```
"-----"
"VT1 total ports: 1764"
"1344 cross-connected VT1 ports"
"420 provisioned VT1 ports without cross-connection"
"0 available VT1 ports"
"Next available VT1 port: None"
"-----"
"F3 total ports: 0"
"0 cross-connected F3 ports"
"0 provisioned F3 ports without cross-connection"
"0 available F3 ports"
"Next available F3 port: None"
/* RTRV-FAC-SUM:LMC3::uaAlu::FACTYPE=ALL,NEXTAVAIL=Y [uaAlu] (7-1)
*/
```

The example below shows a request for displaying OC12 facilities:

```
RTRV-FAC-SUM:::::FACTYPE=OC12,NEXTAVAIL=Y;

LMC3 01-02-27 01:05:13
M uaAlu COMPLD
"OC12 total ports: 4"
"0 cross-connected OC12 ports"
"0 provisioned OC12 ports without cross-connection"
"4 available OC12 ports"
"Next available OC12 port: OC12-49"
/* RTRV-FAC-SUM:LMC3::uaAlu::FACTYPE=OC12,NEXTAVAIL=Y [uaAlu] (7-1)
*/
```

The example below shows a request for displaying T3 facilities:

```
RTRV-FAC-SUM:::::FACTYPE=T3,NEXTAVAIL=Y;

LMC3 01-03-21 15:29:14
M P8a813 COMPLD
"T3/EC1 FlexPoint pair total ports: 0"
"T3 total ports: 308"
"17 cross-connected T3 ports"
"277 provisioned T3 ports without cross-connection"
"0 available T3/EC1 FlexPoint pair ports"
"14 available T3 ports"
"Next available T3 port: T3-962"
/* RTRV-FAC-SUM:::::FACTYPE=T3,NEXTAVAIL=Y [P8a813] (1) */
;
```

RELATED COMMANDS

RTRV-ALM-SUM
RTRV-EC1
RTRV-F3
RTRV-OC3
RTRV-OC12
RTRV-ST51
RTRV-ST53C
RTRV-T1
RTRV-T3
RTRV-VT1

RTRV-CRS-STS1
RTRV-CRS-STS3C
RTRV-CRS-T1
RTRV-CRS-T3
RTRV-CRS-VT1

COMMAND CODE: **RTRV-FEDATA-T1**
COMMAND NAME: **RETRIEVE FAR END DATA T1**

PURPOSE

The RTRV-FEDATA-T1 command polls the far-end network element connected to the specified DS1 port and returns the polled response information from the far-end network element in the command's successful response message.

The poll of the far-end network element uses TR-54016 specified messages transmitted and received over the Facility Data Link (FDL) of the specified Extended SuperFrame Format (ESF) DS1 port. The system converts the hexadecimal values entered for the command's parameter values to binary format for transmission in the appropriate message fields to the far-end network element. The binary information received in the FDL response message from the far-end network element is converted to hexadecimal values for return in the command's successful response message.

From the time a poll request message is sent, the system waits for the time specified by WAITTIME for a FDL response message from the far-end network element.

NOTE: The RTRV-FEDATA-T1 command inserts a 54016 protocol message onto the DS1's facility data link. When issued, this message can mask data link messages coming from upstream on the link and prevent them from being seen at the local Network Element or at any place downstream from it (including at the customer's installation and their DS1 termination equipment). This may impact such activity as remote PM data collection (PFE, NP, NPFE, etc.) and customer site-to-site data link and PM messages.

A RTRV-FEDATA-T1 command is denied if:

- The specified DS1 port is not provisioned (via ENT-T1) with a FMT value of ESF and a FENDNTE value of ATT or ANSIATT and a FEMETHOD value of ATPOLL or ANSI.
- There are three RTRV-FEDATA-T1 commands in progress on DS1 ports supported by the same SI48 I/O (EP3) circuit pack.
- There are three RTRV-FEDATA-T1 commands in progress on DS1 ports within the same Quad.
- The specified DS1 port is in a loop back (a DS1 SST of LPBK).
- Any port that contains the specified DS1 port is in a loop back (e.g. DS3, STS1, EC1, OC3).
- Any port that contains the specified DS1 port is intact connected to another port.
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-FEDATA-T1: [TID]:AID:[CTAG]:::[ADDR1R=][,ADDR2R=][,ADDR1T=][,ADDR2T=]
[,CONTROLT=][,MTEXT1=][,MTEXT2=][,WAITTIME=];

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >		
	Default:	<SID>	
	Addressing:	None	
	Description:	Target Identifier, specifies the network node TID for the command.	
AID	DS1_AID:		
	{T1-{1-59392}}		(T1-DS1#)
	{T3T1-{1-4800}-{1-28}}		(T3T1-DS3#-DS1#)
	{EC1T1-{1-3840}-{1-28}}		(EC1T1-EC1/STS1/DS3#-DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-28}}		(OC3T1-OC3#-STS1/DS3#-DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}		(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)
	Default:	Entry Required	
	Addressing:	None	
	Description:	DS1 AID, identifies the DS1 port whose far-end data is to be retrieved.	
CTAG	< 1-6 VALID CTAG CHARACTERS >		
	Default:	< System assigned CTAG value >	
	Addressing:	None	
	Description:	Correlation Tag, associates input command with its output responses.	

ADDR1R=	< Two hexadecimal digits > Default: {81} Addressing: None Description: Address 1 Response, specifies the first address byte to be compared against the LAP-B or LAP-D address field in messages received from the far-end network element over the ESF FDL channel. The system reads and processes received FDL message when the ADDR1R and ADDR2R values matches the address field in the received FDL message.
ADDR2R=	< Either no value or two hexadecimal digits > Default: <NoVal> Addressing: None Description: Address 2 Response, specifies the second address byte to be compared against the LAP-D address field in messages received from the far-end network element over the ESF FDL channel. The system reads and processes received FDL message when the ADDR1R and ADDR2R values matches the address field in the received FDL message.
ADDR1T=	< Two hexadecimal digits > Default: {C3} Addressing: None Description: Address 1 Transmit, specifies the contents of the first address byte of the LAP-B or LAP-D address field in the message transmitted to the far-end network element over the ESF FDL channel.
ADDR2T=	< Either no value or two hexadecimal digits > Default: <NoVal> Addressing: None Description: Address 2 Transmit, specifies the contents of the second address byte of the LAP-D address field in the message transmitted to the far-end network element over the ESF FDL channel.
CONTROLT=	< Two hexadecimal digits > Default: {08} Addressing: None Description: Control Field Transmit, specifies the contents of the control field in the message transmitted to the far-end network element over the ESF FDL channel.
MTEXT1=	< 0 (no value) to 60 hexadecimal digits > Default: <NoVal> Addressing: None Description: Message Text 1 Transmit, specifies the contents of the first part of the information field in the message transmitted to the far-end network element over the ESF FDL channel. The values for MTEXT1 and MTEXT2 are concatenated together to form the entire information field in the transmitted FDL message. Restrictions: RTRV-FEDATA-T1 is denied if no value is entered for MTEXT1 and a value is entered for MTEXT2.

MTEXT2=	< 0 (no value) to 60 hexadecimal digits >
Default:	<NoVal>
Addressing:	None
Description:	Message Text 2 Transmit, specifies the contents of the second part of the information field in the message transmitted to the far-end network element over the ESF FDL channel. The values for MTEXT1 and MTEXT2 are concatenated together to form the entire information field in the transmitted FDL message.
Restrictions:	RTRV-FEDATA-T1 is denied if a value for MTEXT2 is entered and no value is entered for MTEXT1.
WAITTIME=	{1-10}
Default:	{5}
Addressing:	None
Description:	Wait Time, specifies the number of seconds the system waits, from the time the system transmits the FDL message, to receive a FDL response message from the far-end network element.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  "<AID>, T1:<TIMEOUT> [, <ADDR1R>, <ADDR2R>, <CONTROLR>, <MTEXTR>] "
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

OUTPUT PARAMETERS

AID	DS1_AID: { T1-{1-59392} } (T1-DS1#) { T3T1-{1-4800}-{1-28} } (T3T1-DS3#-DS1#) { EC1T1-{1-3840}-{1-28} } (EC1T1-EC1/STS1/DS3#-DS1#) { OC3T1-{1-2240}-{1-3}-{1-28} } (OC3T1-OC3#-STS1/DS3#-DS1#) { OC12T1-{1-560}-{1-4}-{1-3}-{1-28} } (OC12T1-OC12#-STM1#-STS1/DS3#-DS1#) DS1 AID, identifies the DS1 port whose far-end PM data is being retrieved.
TIMEOUT	{NOTIMEOUT, TIMEOUT} Time Out, indicates whether a valid FDL response message from the far-end network element was received within the time specified by WAITTIME. Values are: NOTIMEOUT A valid FDL response message was received within the time specified by WAITTIME. TIMEOUT A valid FDL response message was not received within the time specified by WAITTIME.
ADDR1R	< Two hexadecimal digits > Address 1 Received, identifies the contents of the first byte in the address field in the received ESF FDL message. A value for ADDR1R is only returned when the TIMEOUT value is NOTIMEOUT.
ADDR2R	< Either no value or two hexadecimal digits > Address 2 Received, identifies the contents of the second byte (if any) in the address field in the received ESF FDL message. A value for ADDR2R is only returned when the TIMEOUT value is NOTIMEOUT.
CONTROLR	< Two hexadecimal digits > Control Field Received, identifies the contents of the control field in the received ESF FDL message. A value for CONTROLR is only returned when the TIMEOUT value is NOTIMEOUT.

MTEXTR < 0 (no value) to 500 hexadecimal digits >
Message Text Received, identifies the contents of the data field in the received ESF FDL message. A value for MTEXTR is only returned when the TIMEOUT value is NOTIME-OUT.

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid /* Error retrieving CONTROLT. */ /* Error retrieving MTEXT1. */ /* Error retrieving MTEXT2. */ /* Error retrieving WAITTIME. */ /* Invalid field name entered. */ /* Invalid number of ASCII characters entered as input for <fieldname>. */ /* Invalid ASCII characters entered as input for <fieldname>. */ /* Too many ASCII characters have been entered as <fieldname>. */ /* Only an even number of ASCII characters is valid for <fieldname>. */ /* Error retrieving ADDR1R. */ /* Error retrieving ADDR1T. */ /* Error retrieving ADDR2R. */ /* Error retrieving ADDR2T. */ /* ADDR2R expected. */ /* ADDR2T expected. */
IIAC	Input, Invalid ACcess identifier /* AID not in Partition. */ /* Invalid AID entered. */
IPMS	Input, Parameter MiSsing /* MTEXT1 must be specified. */
SDBE	Status, internal Data Base Error /* Failed to set pointer to FM <TP_Type> record <tp_num>. */
SNVS	Status, Not in Valid State /* This DS1 channel is unassigned. */ /* This DS1 is executing a loopback. */ /* The <TP_Type> which contains this DS1 is executing a loopback. */
SROF	Status, Requested Operation Failed /* Failed to convert TPid <tp_num> to an AID string. */ /* This DS1 channel is not provisioned for ESF format. */ /* The FENDNTE parameter has not been provisioned for FDL data polling. */ /* Could not get controlling level 2 processor id for <AID>. */ /* Unable to allocate memory for user data. */ /* Unable to determine supporting facility entity. */

EXAMPLES

In the following example, RTRV-FEDATA-T1 is used to retrieve the PM data from the far-end network element on DS1 port T3T1-1307-5. In the example, default values are used for the ADDR1T, ADDR2T, ADDR1R, and ADDR2R values, MTEXT1 is set to 05414264, and WAITTIME is set to 10 seconds.

```
RTRV-FEDATA-T1::T3T1-1307-5:::MTEXT1=05414264,WAITTIME=10;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71042. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P71042 COMPLD
"T3T1-1307-5,T1:NOTIMEOUT,81,,04,0500414264C2"
/* RTRV-FEDATA-T1::T3T1-1307-5:::MTEXT1=05414264,WAITTIME=10
[P71042] (1) */
;
```

In the following example, RTRV-FEDATA-T1 is used to retrieve the PM data from the far-end network element on DS1 port T3T1-1307-5, but the WAITTIME timer expires before receiving a valid FDL response message

```
RTRV-FEDATA-T1::T3T1-1307-5:::MTEXT1=05414264,WAITTIME=10;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71046. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P71046 COMPLD
"T3T1-1307-5,T1:TIMEOUT"
/* RTRV-FEDATA-T1::T3T1-1307-5:::MTEXT1=05414264,WAITTIME=10
[P71046] (1) */
;
```

RELATED COMMANDS

```
ENT-T1
ED-T1
RTRV-T1
RTRV-DFLT-T1
SET-DFLT-T1
```


COMMAND CODE: **RTRV-FFP-OC12**
COMMAND NAME: **RETRIEVE FAST FACILITY
PROTECTION OC-12**

PURPOSE

The RTRV-FFP-OC12 command retrieves the provisioned parameter values pertaining to the OC-12 facility protection group.

The successful response for a RTRV-FFP-OC12 command contains one line of parsable output data, in ascending order (from lowest specified OC-12 AID to largest specified OC-12 AID), for each OC-12 AID specified.

A RTRV-FFP-OC12 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-FFP-OC12 : [TID] : AID : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	OC12_AID: {OC12-{1-560}} (OC12-OC12#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: Identifies the OC-12 port or a range of ports.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

The output response will be as follows:

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  "<AID1>,<AID2>:BDCST=<value>,K2GEN=<value>,PROTSTAT=<value>,
    PSDIRN=<value>,RVRTV=<value>[,WTRTIME=<value>]"
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

AID1	OC12_AID: {OC12-{1-560}} (OC12-OC12#) OC12 AID, indicates the protected OC-12 port to which this line of output data pertains.
AID2	OC12_AID: {OC12-{1-560}} (OC12-OC12#) OC12 AID, indicates the protecting OC-12 which is mate to the OC-12 specified in AID1.

BDCST=	{Y}	Broadcast, indicates whether the OC-12 payload is transmitted over the working and protection channels simultaneously. Values are: Y Yes. (Note, only applies to 1+1 protection switching).
K2GEN=	{PROP, STAN}	K2 bits 1-4 Generation. Defines how the K2 bits 1 through 4 are generated. Values are: STAN Standard way. The K2 bits 1-4 will be generated according to Bell-core standards. PROP Proprietary non-standard way. This value is only valid if PSDIRN=UNI and RTRV=N. In this case, the outgoing K2 bits 1-4 are set to equal the outgoing K1 bits 5 through 8.
PROTSTAT=	{MAIN-ESW-LOCKOUT, MAIN-NEEDS-PROT, MAIN-OK, MAIN-SWITCHED, PROTECTING-<OC12_AID>, PROT-LOCKOUT, PROT-NOT-IN-USE, PROT-SWITCHED, WTR-<OC12_AID>}	Protection Status, identifies the current protection status of the OC-12 line. Values are: MAIN-ESW-LOCKOUT Main OC-12 Excessive Switching Lockout, value only reported if the specified AID is for a main OC-12 line that is locked out from using Protection due to excessive switching. MAIN-NEEDS-PROT Main Needs Protection, value reported if the specified AID is for a main OC-12 line that requires protection (i.e., Signal Fail (SF) detected on both Main and Protect OC-12 lines, or Signal Fail or Signal Degrade (SD) detected on the Main OC-12 line and protection switching is locked out, either manually or due to excessive switching. MAIN-OK Main OK, value reported if the specified AID is for a main OC-12 line that does not require protection. MAIN-SWITCHED Main Switched to Protection, value reported if the specified AID is for a main OC-12 line that is switched to protection. PROTECTING-<OC12_AID> Protecting - <OC12_AID>, value reported if the specified AID is for a protection OC-12 line. <OC12_AID> is the AID of the OC-12 line being protected. PROT-LOCKOUT Protection Locked Out, value reported if the specified AID is for a protection OC-12 line that is locked out from being used as protection line. PROT-NOT-IN-USE Protection Not In Use, value reported if the specified AID is for a protection OC-12 line that is not providing protection. PROT-SWITCHED Protection Switched to Main, value reported if the specified AID is for a protection OC-12 line that is switched to Main. WTR-<OC12_AID> Wait To Restore - <OC12_AID>, value reported if the specified AID is for a protection OC-12 line. <OC12_AID> is the AID of the OC-12 line being protected due to wait to restore time.
PSDIRN=	{UNI}	Protection Switching Direction, identifies the type of protection switching operation. Values are: UNI Unidirectional protection switching.

RVRTV= {N, Y}
Revertive, indicates whether a protection switch is revertive. Values are:
N No, protection switching is non-revertive.
Y Yes. Protection switching is revertive.

WTRTIME= {5–12}
Wait to Restore Time. Determines the wait to restore time that is used by the revertive line protection switching group. This parameter is valid only when revertive switching is selected. Values are:
5–12 An integer value in minutes between 5 and 12.

SUCCESSFUL RESPONSE FORMAT

The output response will be as follows:

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  "<AID1>, <AID2>:EBER=<value>, PDIDET=<value>, PROTSTAT=<value>,
  PSDIRN=<value>, RVRTV=<value>, SDTHSW=<value>, [WTRTIME=<value>]"
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC Input, Invalid ACcess identifier
SDBE Status, internal Data Base Error
/* TP Database Error: <ERROR-STRING> for <AID-STRING> */
/* FFP Database Error: <ERROR-STRING> for record number <RECORD-NUMBER>
*/
/* TPidToAidStr() Error: <ERROR-STRING> */

EXAMPLES

In the following example, the provisioning data for OC-12 port OC12-1 is retrieved.

```
RTRV-FFP-OC12::OC12-1;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of Pad567. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pad567 COMPLD
  "OC12-1, 2-2:BDCST=Y, K2GEN=PROP, PSDIRN=UNI, RVRTV=N, PROTSTAT=MAIN-OK,
  WTRTIME=5"
  /* RTRV-FFP-OC12::OC12-1 [Pad567] (2) */
;
```

RELATED COMMANDS

DLT-OC12
ED-FFP-OC12
ED-OC12
ENT-OC12
ENT-FFP-OC12

COMMAND CODE: **RTRV-FFP-OC3**
COMMAND NAME: **RETRIEVE FAST FACILITY
PROTECTION OC-3**

PURPOSE

The RTRV-FFP-OC3 command retrieves the provisioned parameter values pertaining to the OC-3 facility protection group.

The successful response for a RTRV-FFP-OC3 command contains one line of parsable output data, in ascending order (from lowest specified OC-3 AID to largest specified OC-3 AID), for each OC-3 AID specified.

A RTRV-FFP-OC3 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-FFP-OC3 : [TID] : AID : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	OC3_AID: {OC3-{1-2240}} (OC3-OC3#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: Identifies the OC-3 port or a range of ports.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

The output response will be as follows:

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  "<AID1>, <AID2>: BDCST=<value>, K2GEN=<value>, PROTSTAT=<value>,
  PSDIRN=<value>, RVRTV=<value> [, WTRTIME=<value>] "
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

AID1	OC3_AID: {OC3-{1-2240}} (OC3-OC3#) OC3 AID, indicates the protected OC-3 port to which this line of output data pertains.
AID2	OC3_AID: {OC3-{1-2240}} (OC3-OC3#) OC3 AID, indicates the protecting OC-3 which is mate to the OC-3 specified in AID1.
BDCST=	{Y} Broadcast, indicates whether the OC-3 payload is transmitted over the working and protection channels simultaneously. Values are: Y Yes. (Note, only applies to 1+1 protection switching).

K2GEN=	{PROP, STAN}	K2 bits 1–4 Generation. Defines how the K2 bits 1 through 4 are generated. Values are:
	STAN	Standard way. The K2 bits 1–4 will be generated according to Bell-core standards.
	PROP	Proprietary non-standard way. This value is only valid if PSDIRN=UNI and RTRV=N. In this case, the outgoing K2 bits 1–4 are set to equal the outgoing K1 bits 5 through 8.
PROTSTAT=	{MAIN-ESW-LOCKOUT, MAIN-NEEDS-PROT, MAIN-OK, MAIN-SWITCHED, PROTECTING-<OC3_AID>, PROT-LOCKOUT, PROT-NOT-IN-USE, PROT-SWITCHED, WTR-<OC3_AID>}	Protection Status, identifies the current protection status of the OC-3 line. Values are:
	MAIN-ESW-LOCKOUT	Main OC-3 Excessive Switching Lockout, value only reported if the specified AID is for a main OC-3 line that is locked out from using Protection due to excessive switching.
	MAIN-NEEDS-PROT	Main Needs Protection, value reported if the specified AID is for a main OC-3 line that requires protection (i.e., Signal Fail (SF) detected on both Main and Protect OC-3 lines, or Signal Fail or Signal Degrade (SD) detected on the Main OC-3 line and protection switching is locked out, either manually or due to excessive switching.
	MAIN-OK	Main OK, value reported if the specified AID is for a main OC-3 line that does not require protection.
	MAIN-SWITCHED	Main Switched to Protection, value reported if the specified AID is for a main OC-3 line that is switched to protection.
	PROTECTING-<OC3_AID>	Protecting – <OC3_AID>, value reported if the specified AID is for a protection OC-3 line. <OC3_AID> is the AID of the OC-3 line being protected.
	PROT-LOCKOUT	Protection Locked Out, value reported if the specified AID is for a protection OC-3 line that is locked out from being used as protection line.
	PROT-NOT-IN-USE	Protection Not In Use, value reported if the specified AID is for a protection OC-3 line that is not providing protection.
	PROT-SWITCHED	Protection Switched to Main, value reported if the specified AID is for a protection OC-3 line that is switched to Main.
	WTR-<OC3_AID>	Wait To Restore – <OC3_AID>, value reported if the specified AID is for a protection OC3 line. <OC3_AID> is the AID of the OC3 line being protected due to wait to restore time.
PSDIRN=	{UNI}	Protection Switching Direction, identifies the type of protection switching operation. Values are:
	UNI	Unidirectional protection switching.
RVRTV=	{N, Y}	Revertive, indicates whether a protection switch is revertive. Values are:
	N	No, protection switching is non-revertive.
	Y	Yes. Protection switching is revertive.

WTRTIME= {5-12}
Wait to Restore Time. Determines the wait to restore time that is used by the revertive line protection switching group. This parameter is valid only when revertive switching is selected. Values are:
5-12 An integer value in minutes between 5 and 12.

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC Input, Invalid ACcess identifier
SDBE Status, internal Data Base Error
/* TP Database Error: <ERROR-STRING> for <AID-STRING> */
/* FFP Database Error: <ERROR-STRING> for record number <RECORD-NUMBER>
*/
/* TPidToAidStr() Error: <ERROR-STRING> */

EXAMPLES

In the following example, the provisioning data for OC-3 port OC3-1 is retrieved.

```
RTRV-FFP-OC3::OC3-1;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of Pad567. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pad567 COMPLD
"OC3-1,2-2:BDCST=Y,K2GEN=PROP,PSDIRN=UNI,RVRTV=N,PROTSTAT=MAIN-OK,
WTRTIME=5"
/* RTRV-FFP-OC3::OC3-1 [Pad567] (2) */
;
```

RELATED COMMANDS

DLT-OC3
ED-FFP-OC3
ED-OC3
ENT-OC3
ENT-FFP-OC3

COMMAND CODE: **RTRV-FFP-STs1**
COMMAND NAME: **RETRIEVE FAST FACILITY
PROTECTION STs-1**

PURPOSE

The RTRV-FFP-STs1 command retrieves the switching parameter values of a ring STs-1 FFP pair. The specified AID identifies a ring FFP that was created (implicitly) via an ENT-CRS-STs1 or ENT-CRS-T3 command. This command is only applicable to the ring configuration (refer to ENT-RNG-OC3 or ENT-RNG-OC12).

The successful response for a RTRV-FFP-STs1 command contains one line of parsable output data, in ascending order (from lowest specified STs-1 AID to largest specified STs-1 AID), for each STs-1 AID specified. If no FFP entity is found, no error is returned. If the specified STs-1 AID is unassigned (an SST of UAS), no output is returned.

A RTRV-FFP-STs1 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-FFP-STs1: [TID] :AID: [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	STS1_AID: {OC3STs1-{1-2240}-{1-3}} (OC3STs1-OC3#-STs1#) {OC12STs1-{1-560}-{1-4}-{1-3}} (OC12STs1-OC12#-STM1#-STs1#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: Identifies the preferred (protected) or alternate (protecting) STs-1 path or range of paths.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

The output response will be as follows:

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  "<AID1>,<AID2>:EBER=<value>,PDIDET=<value>,PROTSTAT=<value>,
PSDIRN=<value>,RVRTV=<value>,SDTHSW=<value>,[WTRTIME=<value>]"
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

AID1	STS1_AID: {OC3STs1-{1-2240}-{1-3}} (OC3STs1-OC3#-STs1#) {OC12STs1-{1-560}-{1-4}-{1-3}} (OC12STs1-OC12#-STM1#-STs1#) STs1 AID, indicates the preferred (protected) STs-1 port to which this line of output data pertains.
------	---

AID2	<p>STS1_AID:</p> <p>{OC3STS1-{1-2240}-{1-3}} (OC3STS1-OC3#-STS1#)</p> <p>{OC12STS1-{1-560}-{1-4}-{1-3}} (OC12STS1-OC12#-STM1#-STS1#)</p> <p>STS1 AID, indicates the alternate (protecting) STS-1 which is mate to the STS-1 specified in AID1.</p>																								
EBER=	<p>{3, 4}</p> <p>STS-1 Excessive BER switching threshold. Determines the value corresponding to an Excessive BER condition. Values are:</p> <table> <tr> <td>3</td><td>BER threshold of 10E-3.</td></tr> <tr> <td>4</td><td>BER threshold of 10E-4.</td></tr> </table>	3	BER threshold of 10E-3.	4	BER threshold of 10E-4.																				
3	BER threshold of 10E-3.																								
4	BER threshold of 10E-4.																								
PDIDET=	<p>{N, Y}</p> <p>Path Defect Indication Detection. Determines whether PDI is detected and processed. Values are:</p> <table> <tr> <td>N</td><td>PDI is not detected.</td></tr> <tr> <td>Y</td><td>PDI is detected and used for ring path protection switching.</td></tr> </table>	N	PDI is not detected.	Y	PDI is detected and used for ring path protection switching.																				
N	PDI is not detected.																								
Y	PDI is detected and used for ring path protection switching.																								
PROTSTAT=	<p>{PREFERRED-ACT, ALTERNATE-ACT, PREFERRED-ESW-LOCKOUT, PREFERRED-FAIL, ALTERNATE-FAIL, PREFERRED-FRCD, ALTERNATE-FRCD, PREFERRED-MAN, ALTERNATE-MAN, PREFERRED-STBY, ALTERNATE-STBY, PREFERRED-WTR}</p> <p>Protection Status, identifies the current protection status of the OC-3/OC-12 line. Values are:</p> <table> <tr> <td>PREFERRED-ACT</td><td>Preferred Active, value reported if the preferred path is active.</td></tr> <tr> <td>ALTERNATE-ACT</td><td>Alternate Active, value reported if the alternate path is active.</td></tr> <tr> <td>PREFERRED-ESW-LOCKOUT</td><td>Preferred path is in Excessive Switching Lock-out state.</td></tr> <tr> <td>PREFERRED-FAIL</td><td>Preferred Failed, value reported if the preferred path has failed.</td></tr> <tr> <td>ALTERNATE-FAIL</td><td>Alternate Failed, value reported if the alternate path has failed.</td></tr> <tr> <td>PREFERRED-FRCD</td><td>Preferred Forced, value reported if a forced switch is requested on Preferred path (i.e., Forced Switch of Working to Protection Path).</td></tr> <tr> <td>ALTERNATE-FRCD</td><td>Alternate Forced, value reported if a forced switch is requested on Alternate path (i.e., Forced Switch of Protection to Working Path).</td></tr> <tr> <td>PREFERRED-MAN</td><td>Preferred Manual, value reported if a manual switch is requested on Preferred path (i.e., Manual Switch of Working to Protection Path).</td></tr> <tr> <td>ALTERNATE-MAN</td><td>Alternate Manual, value reported if a manual switch requested on Alternate path (i.e., Manual Switch of Protection to Working Path).</td></tr> <tr> <td>PREFERRED-STBY</td><td>Preferred Standby, value reported if the preferred path is standby.</td></tr> <tr> <td>ALTERNATE-STBY</td><td>Alternate Standby, value reported if the alternate path is standby.</td></tr> <tr> <td>PREFERRED-WTR</td><td>Preferred path is in Wait-to-Restore state. This value is applicable in Revertive switching mode only.</td></tr> </table>	PREFERRED-ACT	Preferred Active, value reported if the preferred path is active.	ALTERNATE-ACT	Alternate Active, value reported if the alternate path is active.	PREFERRED-ESW-LOCKOUT	Preferred path is in Excessive Switching Lock-out state.	PREFERRED-FAIL	Preferred Failed, value reported if the preferred path has failed.	ALTERNATE-FAIL	Alternate Failed, value reported if the alternate path has failed.	PREFERRED-FRCD	Preferred Forced, value reported if a forced switch is requested on Preferred path (i.e., Forced Switch of Working to Protection Path).	ALTERNATE-FRCD	Alternate Forced, value reported if a forced switch is requested on Alternate path (i.e., Forced Switch of Protection to Working Path).	PREFERRED-MAN	Preferred Manual, value reported if a manual switch is requested on Preferred path (i.e., Manual Switch of Working to Protection Path).	ALTERNATE-MAN	Alternate Manual, value reported if a manual switch requested on Alternate path (i.e., Manual Switch of Protection to Working Path).	PREFERRED-STBY	Preferred Standby, value reported if the preferred path is standby.	ALTERNATE-STBY	Alternate Standby, value reported if the alternate path is standby.	PREFERRED-WTR	Preferred path is in Wait-to-Restore state. This value is applicable in Revertive switching mode only.
PREFERRED-ACT	Preferred Active, value reported if the preferred path is active.																								
ALTERNATE-ACT	Alternate Active, value reported if the alternate path is active.																								
PREFERRED-ESW-LOCKOUT	Preferred path is in Excessive Switching Lock-out state.																								
PREFERRED-FAIL	Preferred Failed, value reported if the preferred path has failed.																								
ALTERNATE-FAIL	Alternate Failed, value reported if the alternate path has failed.																								
PREFERRED-FRCD	Preferred Forced, value reported if a forced switch is requested on Preferred path (i.e., Forced Switch of Working to Protection Path).																								
ALTERNATE-FRCD	Alternate Forced, value reported if a forced switch is requested on Alternate path (i.e., Forced Switch of Protection to Working Path).																								
PREFERRED-MAN	Preferred Manual, value reported if a manual switch is requested on Preferred path (i.e., Manual Switch of Working to Protection Path).																								
ALTERNATE-MAN	Alternate Manual, value reported if a manual switch requested on Alternate path (i.e., Manual Switch of Protection to Working Path).																								
PREFERRED-STBY	Preferred Standby, value reported if the preferred path is standby.																								
ALTERNATE-STBY	Alternate Standby, value reported if the alternate path is standby.																								
PREFERRED-WTR	Preferred path is in Wait-to-Restore state. This value is applicable in Revertive switching mode only.																								
PSDIRN=	<p>{UNI}</p> <p>Protection Switching Direction, identifies the type of protection switching operation. Values are:</p> <table> <tr> <td>UNI</td><td>Unidirectional path switched ring protection switching.</td></tr> </table>	UNI	Unidirectional path switched ring protection switching.																						
UNI	Unidirectional path switched ring protection switching.																								

RVRTV= {Y, N}
Revertive, indicates the revertive switch mode of the FFP selector. Values are:
Y Yes, revertive protection switching.
N No, non-revertive protection switching.

SDTHSW= {5, 6, 7, 8, 9}
STS-1 Signal Degrade Threshold Switching level. Indicates the signal degrade threshold over which Signal Degrade protection switching is initiated. Values are:
5 BER threshold of 10E-5.
6 BER threshold of 10E-6.
7 BER threshold of 10E-7.
8 BER threshold of 10E-8.
9 BER threshold of 10E-9.

WTRTIME= {5-12}
Wait to Restore Time. Indicates the wait to restore time that is used by the revertive path level protection switching group. This parameter is only valid when revertive switching is selected. Values are:
5-12 An integer value in minutes between 5 and 12.

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC Input, Invalid ACcess identifier
SDBE Status, internal Data Base Error
/* TPidToAidStr() Error: <ERROR-STRING> */

EXAMPLES

In the following example, the provisioning data for STS-1 port OC3STS1-5-1 is retrieved.

```
RTRV-FFP-STs1:OC3STS1-5-1;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of Pad567. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pad567 COMPLD
"OC3STS1-5-1,OC3STS1-6-1:EBER=3,PDIDET=N,PSDIRN=UNI,RVRTV=N,
SDTHSW=5,PROTSTAT=PREFERRED-ACT"
/* RTRV-FFP-STs1:OC3STS1-5-1 [Pad567] (2) */
;
```

RELATED COMMANDS

DLT-STs1
ED-FFP-STs1

3AL45392AJ
Issue 01, February 2005

ED-STS1
ENT-STS1

COMMAND CODE: **RTRV-FFP-VT1**
COMMAND NAME: **RETRIEVE FAST FACILITY
PROTECTION VT1**

PURPOSE

The RTRV-FFP-VT1 command retrieves the switching parameter values of a ring VT1.5 FFP pair. The specified AID identifies a ring FFP that was created (implicitly) via an ENT-CRS-VT1 or ENT-CRS-T1 command. This command is only applicable to the ring configuration (refer to ENT-RNG-OC3 or ENT-RNG-OC12).

The successful response for a RTRV-FFP-VT1 command contains one line of parsable output data, in ascending order (from lowest specified VT1.5 AID to largest specified VT1.5 AID), for each VT1.5 AID specified. If no FFP entity is found, no error is returned. If the specified VT1.5 AID is unassigned (an SST of UAS), no output is returned.

A RTRV-FFP-VT1 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-FFP-VT1 : [TID] : AID : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	VT1_AID: {OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}} (OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#) {OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}} (OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: Identifies the preferred (protected) or alternate (protecting) VT1.5 path or range of paths.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

The output response will be as follows:

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  "<AID1>,<AID2>:EBER=<value>,PROTSTAT=<value>,PSDIRN=<value>,
RVRTV=<value>,SDTHSW=<value>,[WTRTIME=<value>]"
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

AID1	VT1_AID: {OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}} (OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#) {OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}} (OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#) VT1 AID, indicates the preferred (protected) VT1.5 port to which this line of output data pertains.
------	--

AID2	<p>VT1_AID:</p> <p>{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}} (OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)</p> <p>{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}} (OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)</p> <p>VT1 AID, indicates the alternate (protecting) VT1.5 which is the mate to the VT1.5 specified in AID1.</p>																								
EBER=	<p>{3, 4}</p> <p>VT1.5 Excessive BER switching threshold. Determines the value corresponding to an Excessive BER condition. Values are:</p> <table> <tr> <td>3</td><td>BER threshold of 10E-3.</td></tr> <tr> <td>4</td><td>BER threshold of 10E-4.</td></tr> </table>	3	BER threshold of 10E-3.	4	BER threshold of 10E-4.																				
3	BER threshold of 10E-3.																								
4	BER threshold of 10E-4.																								
PROTSTAT=	<p>{PREFERRED-ACT, ALTERNATE-ACT, PREFERRED-ESW-LOCKOUT, PREFERRED-FAIL, ALTERNATE-FAIL, PREFERRED-FRCD, ALTERNATE-FRCD, PREFERRED-MAN, ALTERNATE-MAN, PREFERRED-STBY, ALTERNATE-STBY, PREFERRED-WTR}</p> <p>Protection Status, identifies the current protection status of the OC-3/OC-12 line. Values are:</p> <table> <tr> <td>PREFERRED-ACT</td><td>Preferred Active, value reported if the preferred path is active.</td></tr> <tr> <td>ALTERNATE-ACT</td><td>Alternate Active, value reported if the alternate path is active.</td></tr> <tr> <td>PREFERRED-ESW-LOCKOUT</td><td>Preferred path is in Excessive Switching Lock-out state.</td></tr> <tr> <td>PREFERRED-FAIL</td><td>Preferred Failed, value reported if the preferred path has failed.</td></tr> <tr> <td>ALTERNATE-FAIL</td><td>Alternate Failed, value reported if the alternate path has failed.</td></tr> <tr> <td>PREFERRED-FRCD</td><td>Preferred Forced, value reported if a forced switch is requested on Preferred path (i.e., Forced Switch of Working to Protection Path).</td></tr> <tr> <td>ALTERNATE-FRCD</td><td>Alternate Forced, value reported if a forced switch is requested on Alternate path (i.e., Forced Switch of Protection to Working Path).</td></tr> <tr> <td>PREFERRED-MAN</td><td>Preferred Manual, value reported if a manual switch is requested on Preferred path (i.e., Manual Switch of Working to Protection Path).</td></tr> <tr> <td>ALTERNATE-MAN</td><td>Alternate Manual, value reported if a manual switch requested on Alternate path (i.e., Manual Switch of Protection to Working Path).</td></tr> <tr> <td>PREFERRED-STBY</td><td>Preferred Standby, value reported if the preferred path is standby.</td></tr> <tr> <td>ALTERNATE-STBY</td><td>Alternate Standby, value reported if the alternate path is standby.</td></tr> <tr> <td>PREFERRED-WTR</td><td>Preferred path is in Wait-to-Restore state. This value is applicable in Revertive switching mode only.</td></tr> </table>	PREFERRED-ACT	Preferred Active, value reported if the preferred path is active.	ALTERNATE-ACT	Alternate Active, value reported if the alternate path is active.	PREFERRED-ESW-LOCKOUT	Preferred path is in Excessive Switching Lock-out state.	PREFERRED-FAIL	Preferred Failed, value reported if the preferred path has failed.	ALTERNATE-FAIL	Alternate Failed, value reported if the alternate path has failed.	PREFERRED-FRCD	Preferred Forced, value reported if a forced switch is requested on Preferred path (i.e., Forced Switch of Working to Protection Path).	ALTERNATE-FRCD	Alternate Forced, value reported if a forced switch is requested on Alternate path (i.e., Forced Switch of Protection to Working Path).	PREFERRED-MAN	Preferred Manual, value reported if a manual switch is requested on Preferred path (i.e., Manual Switch of Working to Protection Path).	ALTERNATE-MAN	Alternate Manual, value reported if a manual switch requested on Alternate path (i.e., Manual Switch of Protection to Working Path).	PREFERRED-STBY	Preferred Standby, value reported if the preferred path is standby.	ALTERNATE-STBY	Alternate Standby, value reported if the alternate path is standby.	PREFERRED-WTR	Preferred path is in Wait-to-Restore state. This value is applicable in Revertive switching mode only.
PREFERRED-ACT	Preferred Active, value reported if the preferred path is active.																								
ALTERNATE-ACT	Alternate Active, value reported if the alternate path is active.																								
PREFERRED-ESW-LOCKOUT	Preferred path is in Excessive Switching Lock-out state.																								
PREFERRED-FAIL	Preferred Failed, value reported if the preferred path has failed.																								
ALTERNATE-FAIL	Alternate Failed, value reported if the alternate path has failed.																								
PREFERRED-FRCD	Preferred Forced, value reported if a forced switch is requested on Preferred path (i.e., Forced Switch of Working to Protection Path).																								
ALTERNATE-FRCD	Alternate Forced, value reported if a forced switch is requested on Alternate path (i.e., Forced Switch of Protection to Working Path).																								
PREFERRED-MAN	Preferred Manual, value reported if a manual switch is requested on Preferred path (i.e., Manual Switch of Working to Protection Path).																								
ALTERNATE-MAN	Alternate Manual, value reported if a manual switch requested on Alternate path (i.e., Manual Switch of Protection to Working Path).																								
PREFERRED-STBY	Preferred Standby, value reported if the preferred path is standby.																								
ALTERNATE-STBY	Alternate Standby, value reported if the alternate path is standby.																								
PREFERRED-WTR	Preferred path is in Wait-to-Restore state. This value is applicable in Revertive switching mode only.																								
PSDIRN=	<p>{UNI}</p> <p>Protection Switching Direction, identifies the type of protection switching operation. Values are:</p> <table> <tr> <td>UNI</td><td>Unidirectional path switched ring protection switching.</td></tr> </table>	UNI	Unidirectional path switched ring protection switching.																						
UNI	Unidirectional path switched ring protection switching.																								
RVRTV=	<p>{Y, N}</p> <p>Revertive, indicates the revertive switch mode of the FFP selector. Values are:</p> <table> <tr> <td>Y</td><td>Yes, revertive protection switching.</td></tr> <tr> <td>N</td><td>No, non-revertive protection switching.</td></tr> </table>	Y	Yes, revertive protection switching.	N	No, non-revertive protection switching.																				
Y	Yes, revertive protection switching.																								
N	No, non-revertive protection switching.																								

SDTHSW= {5, 6, 7, 8, 9}
VT1.5 Signal Degrade Threshold Switching level. Indicates the signal degrade threshold over which Signal Degrade protection switching is initiated. Values are:

5	BER threshold of 10E-5.
6	BER threshold of 10E-6.
7	BER threshold of 10E-7.
8	BER threshold of 10E-8.
9	BER threshold of 10E-9.

WTRTIME= {5-12}
Wait to Restore Time. Indicates the wait to restore time that is used by the revertive path level protection switching group. This parameter is only valid when revertive switching is selected. Values are:

5-12	An integer value in minutes between 5 and 12.
------	---

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
SDBE	Status, internal Data Base Error

/* TPidToAidStr() Error: <ERROR-STRING> */

EXAMPLES

In the following example, the provisioning data for VT1.5 port OC3VT1-5-3-1-1 is retrieved.

```
RTRV-FFP-VT1::OC3VT1-5-3-1-1;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of Pad567. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pad567 COMPLD
"OC3VT1-5-3-1-1,OC3VT1-6-3-1-1:EBER=3,PSDIRN=UNI,RVRTV=N,
PROTSTAT=PREFERRED-ACT,SDTHSW=5"
/* RTRV-FFP-VT1::OC3VT1-5-3-1-1 [Pad567] (2) */
;
```

RELATED COMMANDS

DLT-VT1
ED-FFP-VT1
ED-VT1
ENT-VT1

COMMAND CODE: **RTRV-FL-EQPT**
COMMAND NAME: **RETRIEVE FAULT LOCATE EQUIPMENT**

PURPOSE

The RTRV-FL-EQPT command reads and analyzes the system's fault location database and displays fault isolation data pertaining to the specified equipment entity.

The successful response to a RTRV-FL-EQPT command contains several lines of non-parsable output data. If FLTTYPE of DATA is specified, the first output line indicates whether updating the fault location database is inhibited (refer to ALW-FL-EQPT and INH-FL-EQPT) and an output line for fault location information pertaining to the specified equipment entity. Regardless of whether FLTTYPE of DATA is specified, a line of data is provided for any "suspected" equipment entities that could be causing the detected fault.

A RTRV-FL-EQPT command is executed regardless of whether updates to the fault location database is automatically or manually disabled/inhibited. However, the information retrieved and analyzed by the command may not reflect the current status of the system if updating the fault location database is inhibited. Updating the fault location database is automatically inhibited during an APS control system restart or a CIM circuit pack copy switch, or manually inhibited by an INH-FL-EQPT command. Upon completion of an APS system restart or a CIM copy switch, the fault location database is automatically updated with the current status of the system, unless updates have been manually inhibited by an INH-FL-EQPT command. If updating the fault location database has been manually inhibited by an INH-FL-EQPT command, the fault location database is automatically updated with the current status of the system when updating is enabled by the ALW-FL-EQPT command.

A RTRV-FL-EQPT command is denied if:

- The specified equipment entity has not previously been provisioned with the ENT-EQPT command.
- An invalid parameter value is entered.

INPUT FORMAT

RTRV-FL-EQPT: [TID] :AID: [CTAG] :: [FLTTYPE] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >
Default:	<SID>
Addressing:	None
Description:	Target Identifier, specifies the network node TID for the command.

AID	<p>EQUIPMENT_AID:</p> <p>{CDA-{4, 5, 10, 11, 16, 17, 22, 23, 102, 103}-3-1}</p> <p>{CDB-{5}-{1, 3}-{1, 2}}</p> <p>CDB-{2-43,104-111,112-135,136-141}-{1, 3}-{1, 2}</p> <p>{SI36: CDB-{6-9, 12-15, 18-21, 24-43}-{1, 3}-{1-2},</p> <p>{SI48: CDB-{2-43,104-111,112-135,136-141}-{1, 3}-{1, 2}</p> <p>{DSI-{44-63}-{1-4}-{1-32}}</p> <p>{EOB-{5}-{1, 3}-{1-5}}</p> <p>{SI48: EOB-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{1-2},</p> <p>EOC: EOB-{4-5, 10-11, 16-17, 22-23, 102, 103}-1-{1-7, 9-15}}</p> <p>{SI48: EP3-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42,</p> <p>104-106,108-110, 136-141}-{1, 3}-{1-18},</p> <p>EP3-{9, 21, 35, 43, 107}-3-{1-18},</p> <p>EP3-{15, 27, 31, 39, 111}-1-{1-18}}</p> <p>{SI36: EP3-{6-8, 12-14}-{1, 3}-{1-14},</p> <p>EP3-9-3-{1-14},</p> <p>EP3-15-1-{1-14}}</p> <p>{SI48: ES1-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42,</p> <p>104-106,108-110,136-141}-{1, 3}-{1-18},</p> <p>ES1-{9, 21, 35, 43,107}-3-{1-18},</p> <p>ES1-{15, 27, 31, 39,111}-1-{1-18}}</p> <p>{SI36: ES1-{6-8, 12-14}-{1, 3}-{1-14},</p> <p>ES1-9-3-{1-14},</p> <p>ES1-15-1-{1-14}}</p> <p>{HMU-{44-53}-{1-4}-{1-8}}</p> <p>{IOB-{6-8, 12-14}-{1, 3}-{1, 3, 5, 7},</p> <p>IOB-9-3-{1, 3, 5, 7},</p> <p>IOB-15-1-{1, 3, 5, 7}}</p> <p>{IPB-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{1-2}}</p> <p>{LMU-{44-53}-{1-4}-{1-32}}</p> <p>{M16-{2-5, 10-11, 16-17, 22-23}-3-{1-16}}</p> <p>{M32-{4-5, 10-11, 16-17, 22-23, 102, 103}-3-{1-16},</p> <p>M32-{5}-{1, 3}-{1-3, 6-8}}</p> <p>{M40-{2-3}-{1, 3}-{1-16}}</p> <p>{M40-{5}-{1, 3}-{4, 5, 9, 10}}</p> <p>{MCB-{2,3}-3-1}</p> <p>{MCB-{5}-{1, 3}-{1}}</p> <p>{O1B-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{2-9, 11-18}}</p> <p>{O4M-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{2-3, 11-12}}</p> <p>{OXB-{44-63}-{1-4}-{1-2}}</p> <p>{RPB-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{1-2}}</p> <p>{S3M-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{4-9, 13-18}}</p> <p>Default: Entry Required</p> <p>Addressing: None</p> <p>Description: Equipment AID, identifies the equipment entity for which fault isolation data is analyzed. Refer to Appendix B, Access Identifiers (AIDs) for a definition of equipment mnemonics.</p>
-----	---

CTAG	<p>< 1-6 VALID CTAG CHARACTERS ></p> <p>Default: < System assigned CTAG value ></p> <p>Addressing: None</p> <p>Description: Correlation Tag, associates input command with its output responses.</p>
------	---

FLTYPE	{DATA, STNE}
Default:	{STNE}
Addressing:	None
Description:	Fault Location Report Type, specifies the type of fault location information to be provided. Values are:
DATA	Data, the output report indicates whether updating the fault location database is inhibited, provides additional fault location data for the specified (detecting) equipment AID, and provides a list of any "suspect" equipment entities along with additional fault location data for the suspect equipment AID.
STNE	Sectionalize Trouble to an entity within the Network Element, the output report provides a list of any "suspect" equipment entities without any additional fault location data for the suspect equipment AID.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
[/* Fault isolation status: <FISTAT> */]
[/* <DETAID>:<FLTYPE>,<DATA> */]
[/* <DETAID>:<FLTYPE>,<SUSAID>[:<DATA>] */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

OUTPUT PARAMETERS

FISTAT	{Allowed, Inhibited}
	Fault Isolation STATus, indicates whether updating the fault location database is allowed or inhibited (via ALW-FL-EQPT and INH-FL-EQPT). Values are:
Allowed	Allowed, fault location database updates are enabled.
Inhibited	Inhibited, fault location database updates are disabled.

DETAID EQUIPMENT_AID:

```

{CDA-{4, 5, 10, 11, 16, 17, 22, 23, 102, 103}-3-1}
{CDB-{5}-{1, 3}-{1, 2}}
  CDB-{2-43,104-111,112-135,136-141}-{1, 3}-{1, 2}
{SI36: CDB-{6-9, 12-15, 18-21, 24-43}-{1, 3}-{1-2},
  {SI48: CDB-{2-43,104-111,112-135,136-141}-{1, 3}-{1, 2}
{DSI-{44-63}-{1-4}-{1-32}}
{EOB-{5}-{1, 3}-{1-5}}
{SI48: EOB-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{1-2},
  EOC: EOB-{4-5, 10-11, 16-17, 22-23, 102, 103}-1-{1-7, 9-15}}
{SI48: EP3-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42,
  104-106,108-110, 136-141}-{1, 3}-{1-18},
  EP3-{9, 21, 35, 43, 107}-3-{1-18},
  EP3-{15, 27, 31, 39, 111}-1-{1-18}}
{SI36: EP3-{6-8, 12-14}-{1, 3}-{1-14},
  EP3-9-3-{1-14},
  EP3-15-1-{1-14}}
{SI48: ES1-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42,
  104-106,108-110,136-141}-{1, 3}-{1-18},
  ES1-{9, 21, 35, 43,107}-3-{1-18},
  ES1-{15, 27, 31, 39,111}-1-{1-18}}
{SI36: ES1-{6-8, 12-14}-{1, 3}-{1-14},
  ES1-9-3-{1-14},
  ES1-15-1-{1-14}}
{HMU-{44-53}-{1-4}-{1-8}}
{IOB-{6-8, 12-14}-{1, 3}-{1, 3, 5, 7},
  IOB-9-3-{1, 3, 5, 7},
  IOB-15-1-{1, 3, 5, 7}}
{IPB-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{1-2}}
{LMU-{44-53}-{1-4}-{1-32}}
{M16-{2-5, 10-11, 16-17, 22-23}-3-{1-16}}
{M32-{4-5, 10-11, 16-17, 22-23, 102, 103}-3-{1-16},
  M32-{5}-{1, 3}-{1-3, 6-8}}
{M40-{2-3}-{1, 3}-{1-16}}
{M40-{5}-{1, 3}-{4, 5, 9, 10}}
{MCB-{2,3}-3-1}
{MCB-{5}-{1, 3}-{1}}
{O1B-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{2-9, 11-18}}
{O4M-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{2-3, 11-12}}
{OXB-{44-63}-{1-4}-{1-2}}
{RPB-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{1-2}}
{S3M-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{4-9, 13-18}}

```

Detecting Equipment AID, the equipment entity for which fault isolation data is analyzed.

FLTYPE {DATA, STNE}

Fault Location Report Type, identifies the type of fault location information retrieved. Values are:

DATA	Data, FLTTYPER of DATA was entered. (Additional fault location data for the specified (detecting) equipment entity and any "suspect" equipment entity is provided.)
STNE	Sectionalize Trouble to an entity within Network Element, FLTTYPER of STNE was entered. (Additional fault location data for any "suspect" equipment entity is not provided.)

DATA	{ALM, CLKSEL0, CLKSEL1, CLKSELOPP, CLKSELREC, CLKSELSAM, CULPRIT, DEO, DIO, DMX, DS, DUEO, DUIO, DUMX, FEO, FIO, FMX, FS, FUEO, FUIO, FUMX, HW, MT, OOS, TEO, TIO, TMX, TS, TUEO, TUIO, TUMX}
	Fault Location Data, indicates pertinent fault location information concerning the detecting or suspected AID. Zero or more of the following values, separated by a comma, are displayed if FLTYPE of DATA is entered:
ALM	Alarmed, the indicated equipment entity is alarmed.
CLKSEL0	Copy 0 Clock Selected, the indicated circuit pack is selecting the copy 0 clock.
CLKSEL1	Copy 1 Clock Selected, the indicated circuit pack is selecting the copy 1 clock.
CLKSELOPP	Opposite copy of Clock Selected, the indicated circuit pack is selecting the opposite copy of clock.
CLKSELREC	Recovered Clock Selected, the indicated circuit pack is selecting the recovered clock.
CLKSELSAM	Same copy of Clock Selected, the indicated circuit pack is selecting the same copy of clock.
CULPRIT	Culprit, the indicated equipment entity is the source of the fault.
DEO	Data Electrical/Optical, a data error at the electrical-to-optical side of the indicated equipment entity is detected.
DIO	Data Input/Output, a data error at the I/O side of the indicated equipment entity is detected.
DMX	Data Matrix, a data error at the matrix side of the indicated equipment entity is detected.
DS	Data Suspect, the indicated equipment entity may be the source of the data errors.
DUEO	Data Upstream Electrical/Optical, a data error upstream from the electrical-to-optical side of the indicated equipment entity is detected.
DUIO	Data Upstream Input/Output, a data error upstream from the I/O side of the indicated equipment entity is detected.
DUMX	Data Upstream Matrix, a data error upstream from the matrix side of the indicated equipment entity is detected.
FEO	Facility Electrical/Optical, a facility failure at the electrical-to-optical side of the indicated equipment entity is detected.
FIO	Facility Input/Output, a facility failure at the I/O side of the indicated equipment entity is detected.
FMX	Facility Matrix, a facility failure at the matrix side of the indicated equipment entity is detected.
FS	Facility Suspect, the indicated equipment entity may be the source of the facility failures.
FUEO	Facility Upstream Electrical/Optical, a facility failure upstream from the electrical-to-optical side of the indicated equipment entity is detected.
FUIO	Facility Upstream Input/Output, a facility failure upstream from the I/O side of the indicated equipment entity is detected.
FUMX	Facility Upstream Matrix, a facility failure upstream from the matrix side of the indicated equipment entity is detected.
HW	Hardware, a hardware fault on the indicated equipment entity is detected.
MT	Maintenance, the indicated equipment entity has a SST of MT.
OOS	Out-of-Service, the indicated equipment entity is OOS.
TEO	Timing Electrical/Optical, a timing error at the electrical-to-optical side of the indicated equipment entity is detected.

TIO	Timing Input/Output, a timing error at the I/O side of the indicated equipment entity is detected.
TMX	Timing Matrix, a timing error at the matrix side of the indicated equipment entity is detected.
TS	Timing Suspect, the indicated equipment entity may be the source of the timing errors.
TUEO	Timing Upstream Electrical/Optical, a timing error upstream from the electrical-to-optical side of the indicated equipment entity is detected.
TUIO	Timing Upstream Input/Output, a timing error upstream from the I/O side of the indicated equipment entity is detected.
TUMX	Timing Upstream Matrix, a timing error upstream from the matrix side of the indicated equipment entity is detected.

SUSAID

EQUIPMENT_AID:

{CDA-{4, 5, 10, 11, 16, 17, 22, 23, **102, 103**}-3-1}
 {CDB-{5}-{1, 3}-{1, 2}}
 CDB-{2-43,**104-111**,112-135,**136-141**}-{1, 3}-{1, 2}
 {SI36: CDB-{6-9, 12-15, 18-21, 24-43}-{1, 3}-{1-2},
 {SI48: CDB-{2-43,**104-111**,112-135,**136-141**}-{1, 3}-{1, 2}
 {DSI-{44-63}-{1-4}-{1-32}}
 {EOB-{5}-{1, 3}-{1-5}}
 {SI48: EOB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2},
 EOC: EOB-{4-5, 10-11, 16-17, 22-23, **102, 103**}-1-{1-7, 9-15}}
 {SI48: EP3-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42,
 104-106,108-110, 136-141}-{1, 3}-{1-18},
 EP3-{9, 21, 35, 43, **107**}-3-{1-18},
 EP3-{15, 27, 31, 39, **111**}-1-{1-18}}
 {SI36: EP3-{6-8, 12-14}-{1, 3}-{1-14},
 EP3-9-3-{1-14},
 EP3-15-1-{1-14}}
 {SI48: ES1-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42,
 104-106,108-110,136-141}-{1, 3}-{1-18},
 ES1-{9, 21, 35, 43,**107**}-3-{1-18},
 ES1-{15, 27, 31, 39,**111**}-1-{1-18}}
 {SI36: ES1-{6-8, 12-14}-{1, 3}-{1-14},
 ES1-9-3-{1-14},
 ES1-15-1-{1-14}}
 {HMU-{44-53}-{1-4}-{1-8}}
 {IOB-{6-8, 12-14}-{1, 3}-{1, 3, 5, 7},
 IOB-9-3-{1, 3, 5, 7},
 IOB-15-1-{1, 3, 5, 7}}
 {IPB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2}}
 {LMU-{44-53}-{1-4}-{1-32}}
 {M16-{2-5, 10-11, 16-17, 22-23}-3-{1-16}}
 {M32-{4-5, 10-11, 16-17, 22-23, **102, 103**}-3-{1-16},
 M32-{5}-{1, 3}-{1-3, 6-8}}
 {M40-{2-3}-{1, 3}-{1-16}}
 {M40-{5}-{1, 3}-{4, 5, 9, 10}}
 {MCB-{2,3}-3-1}
 {MCB-{5}-{1, 3}-{1}}
 {O1B-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{2-9, 11-18}}
 {O4M-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{2-3, 11-12}}
 {OXB-{44-63}-{1-4}-{1-2}}
 {RPB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2}}
 {S3M-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{4-9, 13-18}}
 {T1-{1-59392}}
 {T3T1-{1-4800}-{1-28}}

DS1_AID:

{T1-{1-59392}} (T1-DS1#)
 {T3T1-{1-4800}-{1-28}} (T3T1-DS3#-DS1#)

DS3_AID:

{T3-{1-4800}} (T3-DS3#)

Suspected Equipment/Facility AID, identifies a suspected contributor (if any) to a fault which has been detected on the detecting AID (DETAID value) and the associated DS1 or DS3 facility AID if the fault is associated with DS1/DS3 Quad equipment.

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

ENRE	Equipage, Not Recognized Equipage /* The command was rejected. */ /* Invalid or unassigned equipment identifier specified. */
ICNV	Input, Command Not Valid /* Invalid command requested on equipment. */
IDNV	Input, Data Not Valid /* The RTRV-FL-EQPT was rejected. */ /* Unable to retrieve FLTYPE parameter. */
IIAC	Input, Invalid ACcess identifier /* The RTRV-FL-EQPT was rejected. */ /* Invalid or unassigned equipment identifier specified. */
IPNV	Input, Parameter Not Valid /* The RTRV-FL-EQPT was rejected. */ /* Invalid parameter or option specified in command. */
SDBE	Status, internal Data Base Error /* The RTRV-FL-EQPT aborted due to system error. */ /* Unable to create RTRV-FL-EQPT report file. */ /* Unable to open RTRV-FL-EQPT report file. */ /* Unable to print RTRV-FL-EQPT report file. */
SNVS	Status, Not in Valid State /* The RTRV-FL-EQPT was rejected. */ /* Command not valid for current state of equipment. */
SROF	Status, Requested Operation Failed /* The RTRV-FL-EQPT aborted due to system error. */ /* Unable to get data base type for <AID>. */ /* Unable to get data base index for <AID>. */

EXAMPLES

In the following example, retrieval and analysis of fault isolation data for CDA-4-3-1 is provided along with any additional pertinent fault isolation data.

```
RTRV-FL-EQPT : : CDA-4-3-1 : : : DATA ;
```

The output response assumes CID 1 was used to enter the command and a system generated CTAG value of Pfc517. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

The output response shown indicates that fault isolation is currently allowed, that CDA-4-3-1 is out-of-service, and that CDA-4-3-1 is the only suspect in the suspect list.


```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pfc517 COMPLD
/* Fault isolation inhibit status: Allowed */
/* CDA-4-3-1:DATA,:OOS */
/* CDA-4-3-1:DATA,CDA-4-3-1:OOS */
/* RTRV-FL-EQPT::CDA-4-3-1::DATA [Pfc517] (1) */
;
```

In the following example, retrieval and analysis of fault isolation data for CDA-5-3-1 is provided, but without any additional pertinent fault isolation data.

```
RTRV-FL-EQPT::CDA-5-3-1::STNE;
```

The output response assumes CID 2 was used to enter the command and a system generated CTAG value of Pfc519. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

The output response shown indicates that MCB-3-3-1 is the first suspect, MCB-2-3-1 is the second suspect, and CDA-5-3-1 is the third suspect.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pfc519 COMPLD
/* CDA-5-3-1:STNE,MCB-3-3-1 */
/* CDA-5-3-1:STNE,MCB-2-3-1 */
/* CDA-5-3-1:STNE,CDA-5-3-1 */
/* RTRV-FL-EQPT::CDA-5-3-1::STNE [Pfc519] (2) */
;
```

In the following example, retrieval and analysis of fault isolation data for CDA-10-3-1 is provided, along with any additional pertinent fault isolation data.

```
RTRV-FL-EQPT::CDA-10-3-1::DATA;
```

The output response assumes CID 4 was used to enter the command and a system generated CTAG value of Pfc521. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

The output response shown indicates that fault isolation is currently allowed and that CDA-10-3-1 has no additional data to report. In addition, the output response indicates that there are no suspects to report for CDA-10-3-1.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pfc521 COMPLD
/* Fault isolation inhibit status: Allowed */
/* CDA-10-3-1:DATA,: */
/* RTRV-FL-EQPT::CDA-10-3-1::DATA [Pfc521] (4) */
;
```

In the following example, retrieval and analysis of fault isolation data for CDB-3-3-1 is provided, but without any additional pertinent fault isolation data.

```
RTRV-FL-EQPT::CDB-3-3-1::STNE;
```

The output response assumes CID 4 was used to enter the command and a system generated CTAG value of Pfc522. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

The output response shown indicates that there are no suspects to report for CDB-3-3-1.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pfc522 COMPLD
/* RTRV-FL-EQPT::CDB-3-3-1::STNE [Pfc522] (4) */
;
```

In the following example, retrieval and analysis of fault isolation data for MCB-2-3-1 is provided along with any additional pertinent fault isolation data.

```
RTRV-FL-EQPT::MCB-2-3-1:::DATA;
```

The output response assumes CID 1 was used to enter the command and a system generated CTAG value of Pfc518. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

The output response shown indicates that fault isolation is currently allowed and that MCB-2-3-1 has detected a matrix timing fault and an upstream matrix timing fault, and MCB-2-3-1 is considered a timing suspect. In addition, MCB-3-3-1 is the first suspect, has a hardware fault detected, and is alarmed. MCB-2-3-1 is the second suspect, and as previously indicated has detected a matrix timing fault, an upstream matrix timing fault, and is considered a timing suspect.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pfc518 COMPLD
/* Fault isolation inhibit status: Allowed */
/* MCB-2-3-1:DATA,:TMX,TUMX,TS */
/* MCB-2-3-1:DATA,MCB-3-3-1:HW,ALM */
/* MCB-2-3-1:DATA,MCB-2-3-1:TMX,TUMX,TS */
/* RTRV-FL-EQPT::MCB-2-3-1:::DATA [Pfc518] (1) */
;
```

RELATED COMMANDS

```
ALW-FL-EQPT
DGN-EQPT
DLT-EQPT
ED-EQPT
ENT-EQPT
FLTLOC-PATH-STs1
FLTLOC-PATH-STs3C
FLTLOC-PATH-T1
FLTLOC-PATH-T3
FLTLOC-PATH-VT1
INH-FL-EQPT
RMV-EQPT
RST-EQPT
RTRV-DGN-STATUS
RTRV-EQPT
RTRV-PATH-STs1
RTRV-PATH-STs3C
RTRV-PATH-T1
RTRV-PATH-T3
RTRV-PATH-VT1
RTRV-STATE-EQPT
RTRV-XIDMISM
```

COMMAND CODE: **RTRV-FLTPRO-STS1**
COMMAND NAME: **RETRIEVE FAULT PROPAGATION STS-1**

PURPOSE

The RTRV-FLTPRO-STS1 command retrieves the provisioned fault escalation parameter values from the system database for the specified STS-1 port. The command is executed regardless of the state of the STS-1.

The successful response for a RTRV-FLTPRO-STS1 command contains one line of parsable output data for each STS-1 AID specified, in ascending order (from lowest specified STS-1 AID to highest specified STS-1 AID). Only <AID> is displayed for a retrieve of an unprovisioned STS-1.

A RTRV-FLTPRO-STS1 command is denied if:

- The "Fault Escalation" PFO is not enabled.
- An invalid parameter value is entered.

INPUT FORMAT

RTRV-FLTPRO-STS1: [TID] :AID: [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	STS1_AID: {EC1STS1-{1-3840}} (EC1STS1-EC1/STS1#) {OC3STS1-{1-2240}-{1-3}} (OC3STS1-OC3#-STS1#) {OC12STS1-{1-560}-{1-4}-{1-3}} (OC12STS1-OC12#-STM1#-STS1#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: STS1 AID, identifies the STS-1 port or a range of ports.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
"<AID>.: [FAILDET=<value>, FLTPRO=<value>]"
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

AID	STS1_AID: {EC1STS1-{1-3840}} (EC1STS1-EC1/STS1#) {OC3STS1-{1-2240}-{1-3}} (OC3STS1-OC3#-STS1#) {OC12STS1-{1-560}-{1-4}-{1-3}} (OC12STS1-OC12#-STM1#-STS1#) STS1 AID, identifies the STS-1 port to which this line of output data pertains.
-----	--

FAILDET= {NONE, SL, SLP}
Failure Detection (receive direction only), indicates the type of incoming STS-1 or OC-3 failures which will result in an *Escalation Request* being issued to all outgoing ports receiving any bandwidth from this STS-1 (i.e., are cross-connected to it). Values are:

NONE	None, no detection of STS-1 level failure conditions.
SL	Section/Line, specifies section and line level failure detection (LOS, LOF, AIS-L, EBER, or LOP-P) is enabled.
SLP	Section/Line/Path, specifies section, line, and path level failure detection (LOS, LOF, AIS-L, EBER, LOP-P, or AIS-P) is enabled.

FLTPRO= {N, Y}
Fault Propagation (transmit direction only), indicates whether any *Escalation Request* that is present for any incoming (i.e., from the matrix) constituent of the outgoing STS-1 is escalated up to the STS-1 Path level (i.e., AIS-P or PDI-P inserted in the output signal, depending on the STS-1 parameter PDIINS). Values are:

N	No, Fault Escalation to the STS-1 Path level is disabled.
Y	Yes, Fault Escalation to the STS-1 Path level is enabled.

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier /* Error in GetFacIds() */
IPNV	Input, Parameter Not Valid
SDBE	Status, internal Data Base Error /* TP Database Error: <ERROR-STRING> for <AID-STRING> */ /* TPidToAidStr() Error: <ERROR-STRING> */

EXAMPLES

In following example, the fault escalation parameter values for STS-1 ports EC1STS1-10 through EC1STS1-12 are retrieved where port EC1STS1-11 has not yet been provisioned.

```
RTRV-FLTPRO-STs1::EC1STS1-10&&-12;

The output response, shown below, assumes CID 6 was used to enter the command and a system generated CTAG value of Pab124. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

<SID> <YY-MM-DD> <HH:MM:SS>
M Pab124 COMPLD
"EC1STS1-10::FAILDET=SL,FLTPRO=N"
"EC1STS1-11::"
"EC1STS1-12::FAILDET=SL,FLTPRO=N"
/* RTRV-FLTPRO-STs1::EC1STS1-10&&-12 [Pab124] (6) */
;
```

RELATED COMMANDS

ED-FLTPRO-STs1

ED-FLTPRO-T1
ED-FLTPRO-T3
ED-FLTPRO-VT1
ED-STS1
ENT-STS1
RTRV-FLTPRO-T1
RTRV-FLTPRO-T3
RTRV-FLTPRO-VT1

COMMAND CODE: **RTRV-FLTPRO-T1**
COMMAND NAME: **RETRIEVE FAULT PROPAGATION T1**

PURPOSE

The RTRV-FLTPRO-T1 command retrieves the provisioned fault escalation parameter value from the system database for the specified DS1 port. The command is executed regardless of the state of the DS1.

The successful response for a RTRV-FLTPRO-T1 command contains one line of parsable output data for each DS1 AID specified, in ascending order (from lowest specified DS1 AID to highest specified DS1 AID). Only <AID> is displayed for a retrieve of an unprovisioned, electrical DS1. No output data is provided for non-electrical DS1 ports.

A RTRV-FLTPRO-T1 command is denied if:

- The specified non-ranging AID is not an electrical DS1.
- The "Fault Escalation" PFO is not enabled.
- An invalid parameter value is entered.

INPUT FORMAT

RTRV-FLTPRO-T1 : [TID] : AID : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	DS1_AID: {T1-{1-59392}} (T1-DS1#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: Identifies the electrical DS1 port or a range or ports. Restrictions: RTRV-FLTPRO-T1 is denied if the AID of a non-electrical DS1 is specified. In the case of ranging, the incorrect types will be skipped.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
"<AID>.: [FAILDET=<value>]"
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

AID	{DS1_AID} {T1-{1-59392}} (T1-DS1#) DS1 AID, identifies the electrical DS1 port to which this line of output data pertains.
-----	--

FAILDET= {NONE, SL, SLP}
Failure Detection (receive direction only), indicates the type of incoming DS1 failures which will result in an *Escalation Request* being issued to all outgoing ports receiving any bandwidth from this DS1 (i.e., are cross-connected to it). Values are:

NONE	None, no detection of DS1 level failure conditions.
SL	Section/Line, specifies section and line level failure detection (LOS or LOF) is enabled.
SLP	Section/Line/Path, specifies section, line, and path level failure detection (LOS, LOF, or AIS) is enabled.

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier /* Error in GetFaclds() */
IPNV	Input, Parameter Not Valid
SDBE	Status, internal Data Base Error /* TP Database Error: <ERROR-STRING> for <AID-STRING> */ /* TPidToAidStr() Error: <ERROR-STRING> */

EXAMPLES

In the following example, the fault escalation parameter values for electrical DS1 ports T1-71 through T1-73 are retrieved where port T1-72 has not yet been provisioned.

```
RTRV-FLTPRO-T1::T1-71&&-73;
```

The output response, shown below, assumes CID 6 was used to enter the command and a system generated CTAG value of Pab124. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pab124 COMPLD
  "T1-71::FAILDET=NONE"
  "T1-72::"
  "T1-73::FAILDET=SL"
  /* RTRV-FLTPRO-T1::T1-71&&-73 [Pab124] (6) */
;
```


RELATED COMMANDS

ED-FLTPRO-STs1
ED-FLTPRO-T1
ED-FLTPRO-T3
ED-FLTPRO-VT1
ENT-T1
RTRV-FLTPRO-STs1
RTRV-FLTPRO-T3
RTRV-FLTPRO-VT1

COMMAND CODE: **RTRV-FLTPRO-T3**
COMMAND NAME: **RETRIEVE FAULT PROPAGATION T3**

PURPOSE

The RTRV-FLTPRO-T3 command retrieves the provisioned fault escalation parameter values from the system database for the specified DS3 port. The command is executed regardless of the state of the DS3.

The successful response for a RTRV-FLTPRO-T3 command contains one line of parsable output data for each DS3 AID specified, in ascending order (from lowest specified DS3 AID to highest specified DS3 AID). Only <AID> is displayed for a retrieve of an unprovisioned DS3.

A RTRV-FLTPRO-T3 command is denied if:

- The "Fault Escalation" PFO is not enabled.
- An invalid parameter value is entered.

INPUT FORMAT

RTRV-FLTPRO-T3 : [TID] :AID: [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	DS3_AID: {T3-{1-4800}} (T3-DS3#) {EC1T3-{1-3840}} (EC1T3-EC1/STS1/DS3#) {OC3T3-{1-2240}-{1-3}} (OC3T3-OC3#-STS1/DS3#) {OC12T3-{1-560}-{1-4}-{1-3}} (OC12T3-OC12#-STM1#-STS1/DS3#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: DS3 AID, identifies the DS3 port or a range of ports.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
"<AID>.: [FAILDET=<value>, FLTPRO=<value>]"
[/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

AID	DS3_AID: {T3-{1-4800}} (T3-DS3#) {EC1T3-{1-3840}} (EC1T3-EC1/STS1/DS3#) {OC3T3-{1-2240}-{1-3}} (OC3T3-OC3#-STS1/DS3#) {OC12T3-{1-560}-{1-4}-{1-3}} (OC12T3-OC12#-STM1#-STS1/DS3#) DS3 AID, identifies the DS3 port to which this line of output data pertains.
-----	---

FAILDET=	{NONE, SL, SLP}
	Failure Detection (receive direction and on electrical T3s only), indicates the type of incoming DS3 failures which will result in an <i>Escalation Request</i> being issued to all outgoing ports receiving any bandwidth from this DS3 (i.e., are cross-connected to it). Values are:
	NONE None, no detection of DS3 level failure conditions.
	SL Section/Line, specifies section and line level failure detection (LOS or LOF) is enabled.
	SLP Section/Line/Path, specifies section, line, and path level failure detection (LOS, LOF, or AIS) is enabled.
FLTPRO=	{N, Y}
	Fault Propagation (transmit direction only), indicates whether any <i>Escalation Requests</i> that are present for incoming (i.e., from the matrix) constituents of the outgoing DS3 is escalated up to the:
	DS3 Section level (i.e., output signal removed) for electrical DS3 ports terminated on a DS3 Quad shelf, or
	DS3 Path level (i.e. DS3-AIS inserted on output signal) for DS3s not terminated on a DS3 Quad shelf.
	Values are:
	N No, fault escalation to the DS3 Path or Section level is disabled.
	Y Yes, fault escalation to the DS3 Path or Section level is enabled.

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier /* Error in GetFaclds() */
IPNV	Input, Parameter Not Valid
SDBE	Status, internal Data Base Error /* TP Database Error: <ERROR-STRING> for <AID-STRING> */ /* TPidToAidStr() Error: <ERROR-STRING> */

EXAMPLES

In following example, the fault escalation parameter values for electrical DS3 ports T3-10 through T3-12 are retrieved where port T3-11 has not yet been provisioned.

```
RTRV-FLTPRO-T3::T3-10&&-12;
```

The output response, shown below, assumes CID 6 was used to enter the command and a system generated CTAG value of Pab124. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M Pab124 COMPLD  
"T3-10::FAILDET=SL,FLTPRO=N"  
"T3-11::"  
"T3-12::FAILDET=SL,FLTPRO=N"  
/* RTRV-FLTPRO-T3::T3-10&&-12 [Pab124] (6) */  
;
```

RELATED COMMANDS

```
ED-FLTPRO-STs1  
ED-FLTPRO-T1  
ED-FLTPRO-T3  
ED-FLTPRO-VT1  
ENT-T3  
RTRV-FLTPRO-STs1  
RTRV-FLTPRO-T1  
RTRV-FLTPRO-VT1
```


COMMAND CODE: **RTRV-FLTPRO-VT1**
COMMAND NAME: **RETRIEVE FAULT PROPAGATION VT1**

PURPOSE

The RTRV-FLTPRO-VT1 command retrieves the provisioned fault escalation parameter value from the system database for the specified VT1.5 port. The command is executed regardless of the state of the VT1.5.

The successful response for a RTRV-FLTPRO-VT1 command contains one line of parsable output data for each VT1.5 AID specified, in ascending order (from lowest specified VT1.5 AID to highest specified VT1.5 AID). Only <AID> is displayed for a retrieve of an unprovisioned VT1.5.

A RTRV-FLTPRO-VT1 command is denied if:

- The "Fault Escalation" PFO is not enabled.
- An invalid parameter value is entered.

INPUT FORMAT

RTRV-FLTPRO-VT1 : [TID] : AID : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	VT1_AID: {EC1VT1-{1-3840}-{1-7}-{1-4}} (EC1VT1-EC1/STS1#-VTGrp#-VT1.5#) {OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}} (OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#) {OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}} (OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: VT1 AID, identifies the VT1.5 port or a range of ports.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
"<AID>.: [FLTPRO=<value>]"
[/ * <Command Echo> [<CTAG>] (<CID [-VCNUM] >) */]
;
```

OUTPUT PARAMETERS

AID	VT1_AID: {EC1VT1-{1-3840}-{1-7}-{1-4}} (EC1VT1-EC1/STS1#-VTGrp#-VT1.5#) {OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}} (OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#) {OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}} (OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#) VT1 AID, identifies the VT1.5 port to which this line of output data pertains.
-----	--

FLTPRO= {N, Y}
Fault Propagation (transmit direction only), indicates whether or not any *Escalation Request* that is present for any incoming (i.e., from the matrix) constituent of the outgoing VT1.5 is escalated up to the VT1.5 Path level (i.e., AIS-V inserted in the output signal).
Values are:
N No, Fault Escalation to the VT1.5 Path level is disabled.
Y Yes, Fault Escalation to the VT1.5 Path level is enabled

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC Input, Invalid ACcess identifier
/* Error in GetFaclds() */
IPNV Input, Parameter Not Valid
SDBE Status, internal Data Base Error
/* TP Database Error: <ERROR-STRING> for <AID-STRING> */
/* TPIdToAidStr() Error: <ERROR-STRING> */

EXAMPLES

In following example, the fault escalation parameter values for VT1.5 ports EC1VT1-5-5-1 through EC1VT1-5-5-3 are retrieved where port EC1VT1-5-5-2 has not yet been provisioned.

```
RTRV-FLTPRO-VT1: :EC1VT1-5-5-1&&-3;
```

The output response, shown below, assumes CID 6 was used to enter the command and a system generated CTAG value of Pab124. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pab124 COMPLD
"EC1VT1-5-5-1: :FLTPRO=Y"
"EC1VT1-5-5-2: : "
"EC1VT1-5-5-3: :FLTPRO=Y"
/* RTRV-FLTPRO-VT1: :EC1VT1-5-5-1&&-3 [Pab124] (6) */
;
```

RELATED COMMANDS

```
ED-FLTPRO-STs1
ED-FLTPRO-T1
ED-FLTPRO-T3
ED-FLTPRO-VT1
ENT-VT1
RTRV-FLTPRO-STs1
RTRV-FLTPRO-T1
RTRV-FLTPRO-T3
```


COMMAND CODE: **RTRV-FTP-USER**
COMMAND NAME: **RETRIEVE FTP USER**

PURPOSE

The RTRV-FTP-USER command retrieves the user profile entry in the FTP (File Transfer Protocol) User Security Database.

The RTRV-FTP-USER command can be executed while in the Limited Command Execution mode (i.e., after execution of a STOP-OPS command) or the Normal Command Execution mode.

An RTRV-FTP-USER command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-FTP-USER: [TID] :: [CTAG] :: [FTPUID] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
FTPUID	<5-12 VALID FTPUID CHARACTERS> or {ALL} Default: {ALL} Addressing: None Description: FTP User Identifier, specifies a unique user ID. Valid values for FTPUID are 5 to 12, case-sensitive alphanumeric characters where the first character must always be an alphabetic character. The following special characters are also accepted as valid characters and will be part of the FTPUID: % (percent sign), + (plus sign), # (pound sign), and _ (under score). (Note that the dash (-) character is also accepted by the system, but only characters prior to the dash become part of the FTPUID. The dash (-) and characters after that are ignored by the system.) Named-defined values are: <div>ALL, all All FTP User Identifiers are retrieved.</div>

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
/* <FTPUID>,<ACCTYPE> */
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

FTPUID	<5–12 VALID FTPUID CHARACTERS> FTP User Identifier, identifies the provisioned UID value.	
ACCTYPE	{BPM, DB, ISU} Access Type, identifies the type of access the FTP user has.	
	BPM	User has access to binary PM data.
	DB	User has access to database backup files
	ISU	User has access to in-service upgrade generic files

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Optional Suggested Action Text> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV Input, Data Not Valid

EXAMPLES

In the following example, RTRV-FTP-USER is used to retrieve all FTP user database entries.

```
RTRV-FTP-USER:::ALL;
```

RELATED COMMANDS

DLT-FTP-USER
ED-FTP-USER
ENT-FTP-USER

COMMAND CODE: **RTRV-GOS-EC1**
COMMAND NAME: **RETRIEVE GRADE-OF-SERVICE EC1**

PURPOSE

The RTRV-GOS-EC1 command retrieves the current system-level Grade-Of-Service-EC1 threshold level setting which determines the number of service affecting EC1 facility alarms required to generate a (system-level) common Grade-Of-Service-EC1 (GOS-EC1) condition.

The GOS-EC1 condition type attributes are set by the SET-ATTR-COM command.

A RTRV-GOS-EC1 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-GOS-EC1: [TID] : : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
/* EC1 grade-of-service threshold is <THRESHOLD>. */
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

THRESHOLD	{0-3072} Threshold, identifies the number of service affecting EC1 facility alarms required to generate a (system-level) common GOS-EC1 condition. A value of zero (0) indicates no GOS-EC1 condition is generated.
-----------	--

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

SDBE Status, internal Data Base Error
 /* Error reading the GOS thresholds database. */

EXAMPLES

In the following example, the current system-level GOS-EC1 alarm threshold level is retrieved.

```
RTRV-GOS-EC1;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71012. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M P71012 COMPLD  
/* EC1 grade-of-service threshold is 0. */  
/* RTRV-GOS-EC1 [P71012] (1) */  
;
```

RELATED COMMANDS

```
RTRV-ALM-ALL  
RTRV-ALM-COM  
RTRV-COND-ALL  
RTRV-COND-COM  
RTRV-GOS-OC3  
RTRV-GOS-STS1  
RTRV-GOS-STS3C  
RTRV-GOS-T1  
RTRV-GOS-T3  
RTRV-GOS-VT1  
SET-ATTR-COM  
SET-GOS-EC1  
SET-GOS-OC3  
SET-GOS-STS1  
SET-GOS-STS3C  
SET-GOS-T1  
SET-GOS-T3  
SET-GOS-VT1
```

RELATED AUTONOMOUS RESPONSES

```
REPT^ALM^COM  
REPT^EVT^COM
```

COMMAND CODE: **RTRV-GOS-OC12**
COMMAND NAME: **RETRIEVE GRADE-OF-SERVICE OC-12**

PURPOSE

The RTRV-GOS-OC12 command retrieves the current system-level Grade-Of-Service-OC12 threshold level setting which determines the number of service affecting OC12 facility alarms required to generate a (system-level) common Grade-Of-Service-OC12 (GOS-OC12) condition.

The GOS-OC12 condition type attributes are set by the SET-ATTR-COM command.

A RTRV-GOS-OC12 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-GOS-OC12 : [TID] : : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
/* OC12 grade-of-service threshold is <THRESHOLD>. */
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

THRESHOLD	{0-560} Threshold, identifies the number of service affecting OC12 facility alarms required to generate a (system-level) common GOS-OC12 condition. A value of zero (0) indicates no GOS-OC12 condition is generated.
-----------	--

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

SDBE Status, internal Data Base Error
 /* Error reading the GOS thresholds database. */

EXAMPLES

In the following example, the current system-level GOS-OC12 alarm threshold level is retrieved.

```
RTRV-GOS-OC12;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71012. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M P71012 COMPLD  
/* OC12 grade-of-service threshold is 0. */  
/* RTRV-GOS-OC12 [P71012] (1) */  
;
```

RELATED COMMANDS

```
RTRV-ALM-ALL  
RTRV-ALM-COM  
RTRV-COND-ALL  
RTRV-COND-COM  
RTRV-GOS-EC1  
RTRV-GOS-STS1  
RTRV-GOS-STS3C  
RTRV-GOS-T1  
RTRV-GOS-T3  
RTRV-GOS-VT1  
SET-ATTR-COM  
SET-GOS-EC1  
SET-GOS-OC12  
SET-GOS-STS1  
SET-GOS-STS3C  
SET-GOS-T1  
SET-GOS-T3  
SET-GOS-VT1
```

RELATED AUTONOMOUS RESPONSES

```
REPT^ALM^COM  
REPT^EVT^COM
```

COMMAND CODE: **RTRV-GOS-OC3**
COMMAND NAME: **RETRIEVE GRADE-OF-SERVICE OC-3**

PURPOSE

The RTRV-GOS-OC3 command retrieves the current system-level Grade-Of-Service-OC3 threshold level setting which determines the number of service affecting OC3 facility alarms required to generate a (system-level) common Grade-Of-Service-OC3 (GOS-OC3) condition.

The GOS-OC3 condition type attributes are set by the SET-ATTR-COM command.

A RTRV-GOS-OC3 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-GOS-OC3 : [TID] : : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
/* OC3 grade-of-service threshold is <THRESHOLD>. */
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

THRESHOLD	{0-1024} Threshold, identifies the number of service affecting OC3 facility alarms required to generate a (system-level) common GOS-OC3 condition. A value of zero (0) indicates no GOS-OC3 condition is generated.
-----------	--

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

SDBE Status, internal Data Base Error
 /* Error reading the GOS thresholds database. */

EXAMPLES

In the following example, the current system-level GOS-OC3 alarm threshold level is retrieved.

```
RTRV-GOS-OC3 ;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71012. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M P71012 COMPLD  
/* OC3 grade-of-service threshold is 0. */  
/* RTRV-GOS-OC3 [P71012] (1) */  
;
```

RELATED COMMANDS

```
RTRV-ALM-ALL  
RTRV-ALM-COM  
RTRV-COND-ALL  
RTRV-COND-COM  
RTRV-GOS-EC1  
RTRV-GOS-STS1  
RTRV-GOS-STS3C  
RTRV-GOS-T1  
RTRV-GOS-T3  
RTRV-GOS-VT1  
SET-ATTR-COM  
SET-GOS-EC1  
SET-GOS-OC3  
SET-GOS-STS1  
SET-GOS-STS3C  
SET-GOS-T1  
SET-GOS-T3  
SET-GOS-VT1
```

RELATED AUTONOMOUS RESPONSES

```
REPT^ALM^COM  
REPT^EVT^COM
```


COMMAND CODE: **RTRV-GOS-STS1**
COMMAND NAME: **RETRIEVE GRADE-OF-SERVICE STS-1**

PURPOSE

The RTRV-GOS-STS1 command retrieves the current system-level Grade-Of-Service-STS1 threshold level setting which determines the number of service affecting STS-1 facility alarms required to generate a (system-level) common Grade-Of-Service-STS1 (GOS-STS1) condition.

The GOS-STS1 condition type attributes are set by the SET-ATTR-COM command.

A RTRV-GOS-STS1 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-GOS-STS1 : [TID] : : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
/* STS1 grade-of-service threshold is <THRESHOLD>. */
/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;
```

OUTPUT PARAMETERS

THRESHOLD	{0-3072} Threshold, identifies the number of service affecting STS-1 facility alarms required to generate a (system-level) common GOS-STS1 condition. A value of zero (0) indicates no GOS-STS1 condition is generated.
-----------	--

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
/* <Informational Error Description Text> */
/* <Expanded Error Code Description> */
/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

SDBE Status, internal Data Base Error
 /* Error reading the GOS thresholds database. */

EXAMPLES

In the following example, the current system-level GOS-STS1 alarm threshold level is retrieved.

```
RTRV-GOS-STS1;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71012. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M P71012 COMPLD  
/* STS1 grade-of-service threshold is 0. */  
/* RTRV-GOS-STS1 [P71012] (1) */  
;
```

RELATED COMMANDS

```
RTRV-ALM-ALL  
RTRV-ALM-COM  
RTRV-COND-ALL  
RTRV-COND-COM  
RTRV-GOS-EC1  
RTRV-GOS-OC3  
RTRV-GOS-STS3C  
RTRV-GOS-T1  
RTRV-GOS-T3  
RTRV-GOS-VT1  
SET-ATTR-COM  
SET-GOS-EC1  
SET-GOS-OC3  
SET-GOS-STS1  
SET-GOS-STS3C  
SET-GOS-T1  
SET-GOS-T3  
SET-GOS-VT1
```

RELATED AUTONOMOUS RESPONSES

```
REPT^ALM^COM  
REPT^EVT^COM
```

COMMAND CODE: **RTRV-GOS-STS3C**
COMMAND NAME: **RETRIEVE GRADE-OF-SERVICE STS-3C**

PURPOSE

The RTRV-GOS-STS3C command retrieves the current system-level Grade-Of-Service-STS3C threshold level setting which determines the number of service affecting STS-3C facility alarms required to generate a (system-level) common Grade-Of-Service-STS3C (GOS-STS3C) condition.

The GOS-STS3C condition type attributes are set by the SET-ATTR-COM command.

A RTRV-GOS-STS3C command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-GOS-STS3C: [TID] : : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
/* STS3C grade-of-service threshold is <THRESHOLD>. */
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

THRESHOLD	{0-1024} Threshold, identifies the number of service affecting STS-3C facility alarms required to generate a (system-level) common GOS-STS3C condition. A value of zero (0) indicates no GOS-STS3C condition is generated.
-----------	---

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

SDBE Status, internal Data Base Error
 /* Error reading the GOS thresholds database. */

EXAMPLES

In the following example, the current system-level GOS-STS3C alarm threshold level is retrieved.

```
RTRV-GOS-STS3C;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71012. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M P71012 COMPLD  
/* STS3C grade-of-service threshold is 0. */  
/* RTRV-GOS-STS3C [P71012] (1) */  
;
```

RELATED COMMANDS

```
RTRV-ALM-ALL  
RTRV-ALM-COM  
RTRV-COND-ALL  
RTRV-COND-COM  
RTRV-GOS-EC1  
RTRV-GOS-OC3  
RTRV-GOS-STS1  
RTRV-GOS-T1  
RTRV-GOS-T3  
RTRV-GOS-VT1  
SET-ATTR-COM  
SET-GOS-EC1  
SET-GOS-OC3  
SET-GOS-STS1  
SET-GOS-STS3C  
SET-GOS-T1  
SET-GOS-T3  
SET-GOS-VT1
```

RELATED AUTONOMOUS RESPONSES

```
REPT^ALM^COM  
REPT^EVT^COM
```

COMMAND CODE: **RTRV-GOS-T1**
COMMAND NAME: **RETRIEVE GRADE-OF-SERVICE T1**

PURPOSE

The RTRV-GOS-T1 command retrieves the current system-level Grade-Of-Service-T1 threshold level setting which determines the number of service affecting DS1 facility alarms required to generate a (system-level) common Grade-Of-Service-T1 (GOS-T1) condition.

The GOS-T1 condition type attributes are set by the SET-ATTR-COM command.

A RTRV-GOS-T1 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-GOS-T1: [TID] :: [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
/* T1 grade-of-service threshold is <THRESHOLD>. */
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

THRESHOLD	{0-103936} Threshold, identifies the number of service affecting DS1 facility alarms required to generate a (system-level) common GOS-T1 condition. A value of zero (0) indicates no GOS-T1 condition is generated.
-----------	--

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

SDBE Status, internal Data Base Error
 /* Error reading the GOS thresholds database. */

EXAMPLES

In the following example, the current system-level GOS-T1 alarm threshold level is retrieved.

```
RTRV-GOS-T1;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71012. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M P71012 COMPLD  
/* T1 grade-of-service threshold is 6. */  
/* RTRV-GOS-T1 [P71012] (1) */  
;
```

RELATED COMMANDS

```
RTRV-ALM-ALL  
RTRV-ALM-COM  
RTRV-COND-ALL  
RTRV-COND-COM  
RTRV-GOS-EC1  
RTRV-GOS-OC3  
RTRV-GOS-STS1  
RTRV-GOS-STS3C  
RTRV-GOS-T3  
RTRV-GOS-VT1  
SET-ATTR-COM  
SET-GOS-EC1  
SET-GOS-OC3  
SET-GOS-STS1  
SET-GOS-STS3C  
SET-GOS-T1  
SET-GOS-T3  
SET-GOS-VT1
```

RELATED AUTONOMOUS RESPONSES

```
REPT^ALM^COM  
REPT^EVT^COM
```

COMMAND CODE: **RTRV-GOS-T3**
COMMAND NAME: **RETRIEVE GRADE-OF-SERVICE T3**

PURPOSE

The RTRV-GOS-T3 command retrieves the current system-level Grade-Of-Service-T3 threshold level setting which determines the number of service affecting DS3 facility alarms required to generate a (system-level) common Grade-Of-Service-T3 (GOS-T3) condition.

The GOS-T3 condition type attributes are set by the SET-ATTR-COM command.

A RTRV-GOS-T3 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-GOS-T3 : [TID] : : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
/* T3 grade-of-service threshold is <THRESHOLD>. */
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

THRESHOLD	{0-3712} Threshold, identifies the number of service affecting DS3 facility alarms required to generate a (system-level) common GOS-T3 condition. A value of zero (0) indicates no GOS-T3 condition is generated.
-----------	--

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

SDBE Status, internal Data Base Error
 /* Error reading the GOS thresholds database. */

EXAMPLES

In the following example, the current system-level GOS-T3 alarm threshold level is retrieved.

```
RTRV-GOS-T3 ;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71012. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M P71012 COMPLD  
/* T3 grade-of-service threshold is 0. */  
/* RTRV-GOS-T3 [P71012] (1) */  
;
```

RELATED COMMANDS

```
RTRV-ALM-ALL  
RTRV-ALM-COM  
RTRV-COND-ALL  
RTRV-COND-COM  
RTRV-GOS-EC1  
RTRV-GOS-OC3  
RTRV-GOS-STS1  
RTRV-GOS-STS3C  
RTRV-GOS-T1  
RTRV-GOS-VT1  
SET-ATTR-COM  
SET-GOS-EC1  
SET-GOS-OC3  
SET-GOS-STS1  
SET-GOS-STS3C  
SET-GOS-T1  
SET-GOS-T3  
SET-GOS-VT1
```

RELATED AUTONOMOUS RESPONSES

```
REPT^ALM^COM  
REPT^EVT^COM
```


COMMAND CODE: **RTRV-GOS-VT1**
COMMAND NAME: **RETRIEVE GRADE-OF-SERVICE VT1**

PURPOSE

The RTRV-GOS-VT1 command retrieves the current system-level Grade-Of-Service-VT1 threshold level setting which determines the number of service affecting VT1.5 facility alarms required to generate a (system-level) common Grade-Of-Service-VT1 (GOS-VT1) condition.

The GOS-VT1 condition type attributes are set by the SET-ATTR-COM command.

A RTRV-GOS-VT1 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-GOS-VT1: [TID] : : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
/* VT1 grade-of-service threshold is <THRESHOLD>. */
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

THRESHOLD	{0-86016} Threshold, identifies the number of service affecting VT1.5 facility alarms required to generate a (system-level) common GOS-VT1 condition. A value of zero (0) indicates no GOS-VT1 condition is generated.
-----------	---

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

SDBE Status, internal Data Base Error
 /* Error reading the GOS thresholds database. */

EXAMPLES

In the following example, the current system-level GOS-VT1 alarm threshold level is retrieved.

```
RTRV-GOS-VT1;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71012. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M P71012 COMPLD  
/* VT1 grade-of-service threshold is 0. */  
/* RTRV-GOS-VT1 [P71012] (1) */  
;
```

RELATED COMMANDS

```
RTRV-ALM-ALL  
RTRV-ALM-COM  
RTRV-COND-ALL  
RTRV-COND-COM  
RTRV-GOS-EC1  
RTRV-GOS-OC3  
RTRV-GOS-STS1  
RTRV-GOS-STS3C  
RTRV-GOS-T1  
RTRV-GOS-T3  
SET-ATTR-COM  
SET-GOS-EC1  
SET-GOS-OC3  
SET-GOS-STS1  
SET-GOS-STS3C  
SET-GOS-T1  
SET-GOS-T3  
SET-GOS-VT1
```

RELATED AUTONOMOUS RESPONSES

```
REPT^ALM^COM  
REPT^EVT^COM
```

COMMAND CODE: **RTRV-GTI-STATUS**
COMMAND NAME: **RETRIEVE GTI (FAULT) STATUS**

PURPOSE

The RTRV-GTI-STATUS command retrieves the equipment AIDs, any associated fault location data or error information, and the GTI cable AIDs, if any, related to the specified GTI AID.

When a GTI condition is set on a GT1 or GT4 equipment entity, the RTRV-GTI-STATUS command is used to identify the equipment AIDs, and any associated fault location data or error information, pertaining to the indicated GTI signal path. Subsequent to obtaining the associated equipment AIDs, a RTRV-FL-EQPT command may provide additional fault isolation information pertaining to the cause of the GTI condition.

The successful response to a RTRV-GTI-STATUS command contains several lines of non-parsable output data, with each line of output identifying:

- the equipment AID (and any associated fault location data pertaining to the indicated equipment) associated with the specified GTI signal path,
- the GTI cable AID, if any, for each end of the specified GTI signal path,
- zero, one, or more lines of error information for each identified equipment AID.

Refer to the Successful Response Format, below.

A RTRV-GTI-STATUS command is denied if:

- Either of the circuit packs associated with the specified GTI cable AID is not provisioned.
- An invalid parameter value is entered.

INPUT FORMAT

RTRV-GTI-STATUS : [TID] : AID : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >
Default:	<SID>
Addressing:	None
Description:	Target Identifier, specifies the network node TID for the command.

AID

GTI_CABLE_AID:

{G1EOB-{4, 5, 10, 11, 16, 17, 22, 23, **102, 103**}-1-{1-7, 9-15}-{1-16},
G1EOB-{6-9, 12-15, 18-21, 24-43, **104-111, 112-135, 136-141**}-{1, 3}-{1-2}-{1-16},
G1EOB-{5}-{1, 3}-{1-5}-{1-16}}
{SI48:G1EP3-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42, **104-106, 108-110**}-
{1, 3}-{1-18}-{1-2},
G1EP3-{9, 21, 35, 43, **107**}-3-{1-18}-{1-2},
G1EP3-{15, 27, 31, 39, **111**}-1-{1-18}-{1-2}}
{SI36: G1EP3 - {6-8, 12-14} - {1, 3} - {1-14} - {1-2},
G1EP3 - 9 - 3 - {1-14} - {1-2},
G1EP3 - {15} - 1 - {1-14} - {1-2} }
{SI48:G1ES1-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42, **104-106, 108-110**}-
{1, 3}-{1-18}-{1-2},
G1ES1-{9, 21, 35, 43, **107**}-3-{1-18}-{1-2},
G1ES1-{15, 27, 31, 39, **111**}-1-{1-18}-{1-2}}
{SI36: G1ES1 - {6-8, 12-14} - {1, 3} - {1-14} - {1-2},
G1ES1 - 9 - 3 - {1-14} - {1-2},
G1ES1 - {15-1}-{1-14}-{1-2} }
{G1IOB-{6-8, 12-14}-{1, 3}-{1, 3, 5, 7}-{1-3, 5-7},
G1IOB-9-3-{1, 3, 5, 7}-{1-3, 5-7},
G1IOB-15-1-{1, 3, 5, 7}-{1-3, 5-7}}
{G1IRPB-{6-9, 12-15, 18-21, 24-43, **104-111, 112-135, 136-141**}-{1, 3}-{1-2}-{1-18} }
{G1M16-{2-5, 10-11, 16-17, 22-23, **102-103**}-3-{1-16}-{1-16}}
{G1M32-{4-5, 10-11, 16-17, 22-23, **102-103**}-3-{1-16}-{1-32},
G1M32-{5}-{1, 3}-{1-3, 6-8}-{1-32}}
{G1M40-{2-3}-{1, 3}-{1-16}-{1-32},
G1M40-{5}-{1, 3}-{4, 5, 9, 10}-{1-32}}
{G1MRPB-{6-9, 12-15, 18-21, 24-43, **104-111, 112-135, 136-141**}-{1, 3}-{1-2}-{1-16}}
{G1O1B-{6-9, 12-15, 18-21, 24-43, 112-135}-{1, 3}-{2-9, 11-18}-{1-2}}
{G1O4M-{6-9, 12-15, 18-21, 24-43, 112-135}-{1, 3}-{2, 3, 11, 12}-{1-2}}
{G1S3M-{6-9, 12-15, 18-21, 24-43, 112-135}-{1, 3}-{4-9, 13-18}-{1-2}}
{G4EOB-{4-5, 10-11, 16-17, 22-23}-1-{1-7, 9-15}-{1-4},
G4EOB-{6-9, 12-15, 18-21, 24-43, **104-111, 112-135, 136-141**}-{1, 3}-{1, 2}-{1-4},
G4EOB-{5}-{1, 3}-{1-5}-{1-4}}
{G4IOB-{6-8, 12-14}-{1, 3}-{1, 3, 5, 7}-{1-2},
G4IOB-9-3-{1, 3, 5, 7}-{1, 2},
G4IOB-15-1-{1, 3, 5, 7}-{1-2}}
{G4OXB-{44-63}-{1-4}-{1, 2}-1}

Default: Entry Required

Addressing: None

Description: GTI Cable AID, identifies the equipment entity. Refer to Appendix B, Access Identifiers (AIDs) for a definition of equipment mnemonics.

CTAG

< 1-6 VALID CTAG CHARACTERS >

Default: < System assigned CTAG value >

Addressing: None

Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
/* From Eqpt AID: <EQPT_AID>[:<DATA>] */
[/* <ERROR_INFO>[,<ERROR_INFO>] ... [,<ERROR_INFO>] */]
[/* IPB Eqpt AID: <EQPT_AID>[:<DATA>] */]
/* <ERROR_INFO>[,<ERROR_INFO>] ... [,<ERROR_INFO>] */]
[/* From Cable AID: <CBL_AID> */]
/* To Cable AID: <CBL_AID> */]
[/* IPB Eqpt AID: <EQPT_AID>[:<DATA>] */]
/* <ERROR_INFO>[,<ERROR_INFO>] ... [,<ERROR_INFO>] */]
/* To Eqpt AID: <EQPT_AID>[:<DATA>] */]
[/* <ERROR_INFO>[,<ERROR_INFO>] ... [,<ERROR_INFO>] */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

EQPT_AID **EQUIPMENT_AID:**
 {SI48: EOB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2},
 EOC: EOB-{4-5, 10-11, 16-17, 22-23, **102**, **103**}-1-{1-7, 9-15}}
 {SI48: EP3-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42,
 104-106, **108-110**, **136-141**}-{1, 3}-{1-18},
 EP3-{9, 21, 35, 43, **107**}-3-{1-18},
 EP3-{15, 27, 31, 39, **111**}-1-{1-18}}
 {SI36: EP3-{6-8, 12-14}-{1, 3}-{1-14},
 EP3-9-3-{1-14},
 EP3-15-1-{1-14}}
 {SI48: ES1-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42,
 104-106, **108-110**, **136-141**}-{1, 3}-{1-18},
 ES1-{9, 21, 35, 43, **107**}-3-{1-18},
 ES1-{15, 27, 31, 39, **111**}-1-{1-18}}
 {SI36: ES1-{6-8, 12-14}-{1, 3}-{1-14},
 ES1-9-3-{1-14},
 ES1-15-1-{1-14}}
 {IOB-{6-8, 12-14}-{1, 3}-{1, 3, 5, 7},
 IOB-9-3-{1, 3, 5, 7},
 IOB-15-1-{1, 3, 5, 7}}
 {IPB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2}}
 {M16-{2-5, 10-11, 16-17, 22-23}-3-{1-16}}
 {M32-{4-5, 10-11, 16-17, 22-23, **102**, **103**}-3-{1-16},
 M32-{5}-{1, 3}-{1-3, 6-8}}
 {M40-{2-3}-{1, 3}-{1-16}}
 {M40-{5}-{1, 3}-{4, 5, 9, 10}}
 {O1B-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{2-9, 11-18}}
 {OXB-{44-63}-{1-4}-{1-2}}
 {RPB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2}}

Equipment AID, identifies a circuit pack associated with the indicated GTI Cable AID.

DATA {ALM, CLKSEL0, CLKSEL1, CLKSELOPP, CLKSELREC, CLKSELSAM, CULPRIT,
 DEO, DIO, DMX, DS, DUEO, DUIO, DUMX, FEO, FIO, FMX, FS, FUEO, FUIO, FUMX,
 HW, MT, OOS, TEO, TIO, TMX, TS, TUEO, TUIO, TUMX, fault data not received from
 <L2P EQPT AID>, not responding}

Fault Location Data, indicates pertinent fault location information, if any, concerning the identified equipment entity. If a fault condition exists, one or more of the following values, separated by a comma, are displayed:

ALM	Alarmed, the indicated equipment entity is alarmed.
CLKSEL0	Copy 0 Clock Selected, the indicated circuit pack is selecting the copy 0 clock.
CLKSEL1	Copy 1 Clock Selected, the indicated circuit pack is selecting the copy 1 clock.
CLKSELOPP	Opposite copy of Clock Selected, the indicated circuit pack is selecting the opposite copy of clock.
CLKSELREC	Recovered Clock Selected, the indicated circuit pack is selecting the recovered clock.
CLKSELSAM	Same copy of Clock Selected, the indicated circuit pack is selecting the same copy of clock.
CULPRIT	Culprit, the indicated equipment entity is the source of the fault.
DEO	Data Electrical/Optical, a data error at the electrical-to-

DIO	optical side of the indicated equipment entity is detected. Data Input/Output, a data error at the I/O side of the indicated equipment entity is detected.
DMX	Data Matrix, a data error at the matrix side of the indicated equipment entity is detected.
DS	Data Suspect, the indicated equipment entity may be the source of the data errors.
DUEO	Data Upstream Electrical/Optical, a data error upstream from the electrical-to-optical side of the indicated equipment entity is detected.
DUIO	Data Upstream Input/Output, a data error upstream from the I/O side of the indicated equipment entity is detected.
DUMX	Data Upstream Matrix, a data error upstream from the matrix side of the indicated equipment entity is detected.
FEO	Facility Electrical/Optical, a facility failure at the electrical-to-optical side of the indicated equipment entity is detected.
FIO	Facility Input/Output, a facility failure at the I/O side of the indicated equipment entity is detected.
FMX	Facility Matrix, a facility failure at the matrix side of the indicated equipment entity is detected.
FS	Facility Suspect, the indicated equipment entity may be the source of the facility failures.
FUEO	Facility Upstream Electrical/Optical, a facility failure upstream from the electrical-to-optical side of the indicated equipment entity is detected.
FUIO	Facility Upstream Input/Output, a facility failure upstream from the I/O side of the indicated equipment entity is detected.
FUMX	Facility Upstream Matrix, a facility failure upstream from the matrix side of the indicated equipment entity is detected.
HW	Hardware, a hardware fault on the indicated equipment entity is detected.
MT	Maintenance, the indicated equipment entity has a SST of MT.
OOS	Out-of-Service, the indicated equipment entity is OOS.
TEO	Timing Electrical/Optical, a timing error at the electrical-to-optical side of the indicated equipment entity is detected.
TIO	Timing Input/Output, a timing error at the I/O side of the indicated equipment entity is detected.
TMX	Timing Matrix, a timing error at the matrix side of the indicated equipment entity is detected.
TS	Timing Suspect, the indicated equipment entity may be the source of the timing errors.
TUEO	Timing Upstream Electrical/Optical, a timing error upstream from the electrical-to-optical side of the indicated equipment entity is detected.
TUIO	Timing Upstream Input/Output, a timing error upstream from the I/O side of the indicated equipment entity is detected.
TUMX	Timing Upstream Matrix, a timing error upstream from the matrix side of the indicated equipment entity is detected.

fault data not received from <L2P EQPT AID> not responding	The supporting Level 2 Processor did not respond. The indicated equipment entity is not OOS and no re- sponse from the entity was received.
--	---

ERROR_INFO {CID, CONN RAM, COPY0 ASYMAIS, COPY0 CID, COPY0 FPE, COPY0 PBIT, COPY0 STM1 LOF, COPY0 STM1 LOSSYNC, COPY0 STM1 RAIL, COPY0 WPE, COPY1 ASYMAIS, COPY1 CID, COPY1 FPE, COPY1 PBIT, COPY1 STM1 LOF, COPY1 STM1 LOSSYNC, COPY1 STM1 RAIL, COPY1 WPE, STM1 LOF, STM1 LOSSYNC, STM1 OF, STM1 RAIL, STM1 SPILL, STM1 UF, STM4 1, STM4 2, STM4 3, STM4 4, STM4 B1, STM4 CABLE DELAY, STM4 DXCLK, STM4 DXSPILL, STM4 LOF, STM4 LOS, STM4 MXCLK, STM4 MXSPILL, XMIT LASER OFF}

Equipment Error Information, indicates additional error information, if any, detected by the system pertaining to the equipment AID identified in the output line above this line. Multiple lines of <ERROR_INFO> may be displayed, with multiple values of <ERROR_INFO>, separated by a comma, per line. Values are:

CID	Connect IDentification error detected.
CONN RAM	Connection RAM error detected.
COPY0 ASYMAIS	Asymmetrical AIS. AIS detected on Copy 0 signal and not on Copy1
COPY0 CID	Connect IDentification error detected on Copy 0 signal.
COPY0 FPE	Frame Parity Error detected on Copy 0 signal.
COPY0 PBIT	Parity Bit Error detected on Copy 0 signal.
COPY0 STM1 LOF	Loss of Frame detected on STM1 Copy 0 signal.
COPY0 STM1 LOSSYNC	Loss of Synchronization pulse detected on STM1 Copy 0 signal.
COPY0 STM1 RAIL	Lower or upper limit delay Rail detected on STM1 Copy 0 signal.
COPY0 WPE	Word Parity Error detected on Copy 0 signal.
COPY1 ASYMAIS	Asymmetrical AIS. AIS detected on Copy 1 signal and not on Copy1
COPY1 CID	Connect IDentification error detected on Copy 1 signal.
COPY1 FPE	Frame Parity Error detected on Copy 1 signal.
COPY1 PBIT	Parity Bit Error detected on Copy 1 signal.
COPY1 STM1 LOF	Loss of Frame detected on STM1 Copy 1 signal.
COPY1 STM1 LOSSYNC	Loss of Synchronization pulse detected on STM1 Copy 1 signal.
COPY1 STM1 RAIL	Lower or upper limit delay Rail detected on STM1 Copy 1 signal.
COPY1 WPE	Word Parity Error detected on Copy 1 signal.
STM1 LOF	Loss of Frame detected on STM1 signal.
STM1 LOSSYNC	Loss of Sync pulse detected on STM1 signal.
STM1 OF	Over-Flow buffer spill detected on STM1 signal.
STM1 RAIL	Lower or upper limit delay Rail detected on STM1 signal.
STM1 SPILL	Buffer Spill detected on STM1 signal.
STM1 UF	Under-Flow buffer spill detected on STM1 signal.
STM4 1	Error detected on STM4 signal number one.
STM4 2	Error detected on STM4 signal number two.
STM4 3	Error detected on STM4 signal number three.
STM4 4	Error detected on STM4 signal number four.
STM4 B1	B1 error detected on STM4 signal.
STM4 CABLE DELAY	Cable Delay error detected on STM4 signal.
STM4 DXCLK	Demux Clock error detected on STM4 signal.
STM4 DXSPILL	Demux Clock Spill detected on STM4 signal.
STM4 LOF	Loss of Frame detected on STM4 signal.
STM4 LOS	Loss of Signal detected on STM4 signal.
STM4 MXCLK	Mux Clock error detected on STM4 signal.
STM4 MXSPILL	Mux Clock Spill detected on STM4 signal.
XMIT LASER OFF	EOB, IOB, or OXB Transmit Laser has been turned off.

CBL_AID	<p>GTI_CABLE_AID:</p> <p>{CBL-{6-9, 12-15, 18-21, 24-43, 112-135}-{1, 3}- {XA150B-XA150H, XA150J, XA250B-XA250H, XA250J, J1000A-J1000H, J2000A-J2000H},</p> <p>CBL-{2, 3}-{1, 3}- {LX031B-LX031H, LX031J, UX031B-UX031H, UX031J, LX051B-LX051H, LX051J, UX051B-UX051H, UX051J, LX071B-LX071H, LX071J, UX071B-UX071H, UX071J, LX091B-LX091H, LX091J, UX091B-UX091H, UX091J, LX111B-LX111H, LX111J, UX111B-UX111H, UX111J, LX131B-LX131H, LX131J, UX131B-UX131H, UX131J, LX151B-LX151H, LX151J, UX151B-UX151H, UX151J, LX171B-LX171H, LX171J, UX171B-UX171H, UX171J},</p> <p>CBL-{4, 5, 10, 11, 16, 17, 22, 23}-{1,3}- {LX031B, LX031C, LX031H, UX031B, UX031C, UX031H, LX041A-LX041H, LX041J, UX041A-UX041H, UX041J, LX051C, LX051H, LX051J, UX051C, UX051H, UX051J, LX061B, LX061C, LX061H, UX061B, UX061C, UX061H, LX071A-LX071H, LX071J, UX071A-UX071H, UX071J, LX081C, LX081H, LX081J, UX081C, UX081H, UX081J, LX091D, LX091E, LX091F, UX091D, UX091E, UX091F, LX101A-LX101H, LX101J, UX101A-UX101H, UX101J, LX111E, LX111F, LX111G, UX111E, UX111F, UX111G, LX121D, LX121E, LX121F, UX121D, UX121E, UX121F, LX131A-LX131H, LX131J, UX131A-UX131H, UX131J, LX141E, LX141F, LX141G, UX141E, UX141F, UX141G},</p> <p>CBL-{4, 5, 10, 11, 16, 17, 22, 23}-1- {J1000A-J1000H, J1002A-J1002H, J1004A-J1004H, J1006A-J1006H, J2001A-J2001H, J2003A-J2003H, J2005A-J2005H, XA01B-XA01H, XA01J, XA03B-XA03H, XA03J, XA05B-XA05H, XA05J, XA07B-XA07H, XA07J, XA10B-XA10H, XA10J, XA12B-XA12H, XA012J, XA14B-XA14H, XA14J},</p> <p>CBL-{44-63}-{1-4}-{1J1RX, 1J1TX, 2J1RX, 2J1TX},</p> <p>CBL-{6-8, 12-14}-{1, 3}- {1J1RX, 1J1TX, 1J2RX, 1J2TX, 3J1RX, 3J1TX, 3J2RX, 3J2TX, 5J1RX, 5J1TX, 5J2RX, 5J2TX, 7J1RX, 7J1TX, 7J2RX, 7J2TX, XA150B, XA151B, XA152B, XA153B, XA150D, XA151D, XA152D, XA153D, XA250B, XA251B, XA252B, XA253B, XA250D, XA251D, XA252D, XA253D}</p> <p>CBL-{9}-3-{1J1RX, 1J1TX, 1J2RX, 1J2TX, 3J1RX, 3J1TX, 3J2RX, 3J2TX, 5J1RX, 5J1TX, 5J2RX, 5J2TX, 7J1RX, 7J1TX, 7J2RX, 7J2TX, XA150B, XA151B, XA152B, XA153B, XA150D, XA151D, XA152D, XA153D, XA250B, XA251B, XA252B, XA253B, XA250D, XA251D, XA252D, XA253D},</p> <p>CBL-{15}-1-{1J1RX, 1J1TX, 1J2RX, 1J2TX, 3J1RX, 3J1TX, 3J2RX, 3J2TX, 5J1RX, 5J1TX, 5J2RX, 5J2TX, 7J1RX, 7J1TX, 7J2RX, 7J2TX, XA150B, XA151B, XA152B, XA153B, XA150D, XA151D, XA152D, XA153D, XA250B, XA251B, XA252B, XA253B, XA250D, XA251D, XA252D, XA253D}}</p> <p>Cable AID, identifies the Cable AID, if any, associated with the indicated equipment.</p>
---------	---

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier /* Invalid AID entered. */ /* Invalid GTI card type <card type number> specified. */ /* Invalid AID specified – cbl # (cable number) out of range. */ /* Invalid AID specified – slot # (slot number) out of range. */
SARB	Status, All Resources Busy /* Too many RTRV-GTI-STATUS commands already in progress. */
SDBE	Status, internal Data Base Error /* Invalid matrix stage number <matrix stage number> encountered. */ /* Error reading matrix cable input database for bay <bay number> shelf <shelf number>. */ /* Error reading eoc to es1 cable database for cable <cable number>. */ /* Error reading es1 to cs cable database for cable <cable number>. */ /* Error reading cs to es3 cable database for cable <cable number>. */ /* Error reading matrix cable output database for cable <cable number>. */ /* Error reading eoc to io cable database for cable <cable number>. */ /* Invalid subrack type (<subrack type number>) in FROM equipment shelf (<shelf id>) database. */ /* Invalid FROM card type <card type number> encountered. */ /* Failed to read EM DB for shelf equipment (<shelf id>), status=<error number>. */ /* Failed to get OC3 TP DB record <record number> error <error number>. */ /* Unable to create RTRV-GTI-STATUS report file. */ /* Unable to open RTRV-GTI-STATUS report file. */ /* Unable to print RTRV-GTI-STATUS report file. */
SNVS	Status, Not in Valid State /* <EQPT AID> is not in a provisioned state. */ /* <EQPT AID> is not use. */ /* Command not valid for current state of equipment. */

SROF Status, Requested Operation Failed

```
/* Unable to access memory for FI auxiliary data. */
/* Unable to retrieve TO equipment (<equipment id>) database. */
/* Unable to retrieve TO equipment shelf (<shelf id>) database. */
/* Unable to retrieve FROM equipment (<equipment id>) database. */
/* Specified AID cbl # (<cable number>) may be invalid for current configuration.*/
/* Unable to retrieve FROM equipment shelf (<shelf id>) database. */
/* Unable to queue FI auxiliary buffer for retrieve gti status request. */
/* Unable to send retrieve gti status message to ACL for <SPB AID>. */
/* Unable to send retrieve gti status message to ACL for <IPU AID>. */
/* Unable to determine I/O card slot for subrack type (<subrack type number>) GTI offset
   (<gti offset number>). */
/* Unable to determine matrix card type for bay <bay number> shelf <shelf number> slot
   <slot number>.*
/* Unable to compute matrix input cable number for <EQPT AID>. */
/* Invalid SI protect board type (<card type>) for bay <bay number> shelf <shelf number>
   slot <slot number>.*
/* Unable to get TP type and TP number for I/O equipment (<equipment id>). */
/* Unexpected response received from <SPB AID>. */
/* Unexpected response received from <IPU AID>. */
/* Unable to re-queue FI auxiliary buffer for retrieve gti status request. */
/* The RTRV-GTI-STATUS was aborted. */
/* Invalid FROM I/O card type (<card type number>) encountered. */
/* Invalid FROM matrix card type (<card type number>) encountered. */
/* Invalid FROM gti location (<gti location number>) encountered. */
/* Invalid SI protect board card type (<card type number>) encountered.*/
/* Invalid TO I/O card type (<card type number>) encountered. */
/* Invalid TO matrix card type (<card type number>) encountered. */
/* Invalid TO gti location (<gti location number>) encountered. */
```

EXAMPLES

In the following example, fault isolation data pertaining to GTI AID G1M16-4-3-1-1 is retrieved.

```
RTRV-GTI-STATUS::RTRV-GTI-STATUS::G1M16-4-3-1-1;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of Pad567. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pad567 COMPLD
/* From Eqpt AID: EP3-6-1-2:TMX,TUMX,TS,CLKSEL0 */
/* COPY1 STM1 LOSSYNC, COPY1 STM1 LOF, COPY1 CID */
/* IPB Eqpt AID: IPB-6-1-2:HW,ALM,CLKSEL0 */
/* From Cable AID: CBL-6-1-XA250H */
/* To Cable AID: CBL-4-3-UX031B */
/* To Eqpt AID: M16-4-3-1:OOS */
/* RTRV-GTI-STATUS::G1M16-4-3-1-1 [Pad567] (2) */
;
```

RELATED COMMANDS

DGN-EQPT
FLTLOC-PATH-STs1
FLTLOC-PATH-T1
FLTLOC-PATH-T3
FLTLOC-PATH-VT1
RTRV-ALM-ALL
RTRV-ALM-EQPT
RTRV-ATTR-EQPT
RTRV-COND-ALL
RTRV-COND-EQPT
RTRV-DGN-STATUS
RTRV-FL-EQPT
RTRV-PATH-STs1
RTRV-PATH-T1
RTRV-PATH-T3
RTRV-PATH-VT1
SET-ATTR-EQPT

RELATED AUTONOMOUS RESPONSES

REPT^ALM^EQPT
REPT^EVT^EQPT

COMMAND CODE: **RTRV-HDR**
COMMAND NAME: **RETRIEVE HEADER**

PURPOSE

The RTRV-HDR command is used to retrieve the system's output response (site) header. The output response header consists of the site identifier (SID) and the current date and time.

The RTRV-HDR command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-HDR: [TID] : : [CTAG] ;

INPUT PARAMETERS

TID	< 1–20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1–6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

SROF Status, Requested Operation Failed
 /* ERROR, Could not Access Site Header Information */

EXAMPLES

In the following example, RTRV-HDR is used to retrieve the site header information.

```
RTRV-HDR;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P13001. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M P13001 COMPLD  
/* RTRV-HDR [P13001] (1) */  
;
```

RELATED COMMANDS

```
ED-DAT  
RTRV-SID  
SET-SID
```


COMMAND CODE: **RTRV-IP-FILTER**
COMMAND NAME: **RETRIEVE IP PACKET FILTER TABLE ENTRY**

PURPOSE

The RTRV-IP-FILTER command retrieves an entry or all entries in the packet filter table used by the Internet Protocol (IP) router of the stack running on the Local Area Network (LAN) interface on the Intelligent Communication Module (ICM). This command retrieves entries in the network layer (Layer 3) parameters pertaining to the packet filter table.

If the IPADDR is specified, the packet filter table entry corresponding to the IP address is retrieved. If the IPADDR is specified as ALL or null, all the packet filter table entries are retrieved. If the IPADDR is specified and no entry is present in the table, the command completes successfully without producing any output.

The successful response for a RTRV-IP-FILTER contains one line of parsable output data for each specified CPORT that is provisioned as a LAN port.

The RTRV-IP-FILTER command can be executed while in the Limited Command Execution mode (i.e., after execution of a STOP-OPS command) or the Normal Command Execution mode.

An RTRV-IP-FILTER command is denied if:

- The specified CID is not configured as the LAN on the ICM.
- The specified CID is not configured with the IP packet filter table entry being retrieved.
- An invalid parameter value is entered.

INPUT FORMAT

RTRV-IP-FILTER: [TID] : CPORT: [CTAG] :: [IPADDR] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CPORT	{3, 5, 7, 9, 11} Default: Entry Required Addressing: None Description: Control Port, identifies the CID which is configured as the LAN on the ICM module.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
IPADDR	{{(0-255)-(0-255)-(0-255)-(0-255)}, ALL} Default: <All Entries> Addressing: None Description: Internet Protocol Address, specifies the IP Address of the NE to which the packet filter table entry is retrieved. Name-defined values are: ALL All the packet filter table entries are retrieved.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  ["<CPORT>::IPADDR=<value>,NETMASK=<value>"]
  [/ * <Command Echo> [<CTAG>] (<CID [-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

CPORT	{3, 5, 7, 9, 11} Control Port, identifies the CID which is configured as the LAN on the ICM module.
IPADDR=	{{(0-255)-(0-255)-(0-255)-(0-255)}, ALL} Internet Protocol Address, specifies the IP Address of the NE to which the packet filter table entry is added. Name-defined values are: ALL All the packet filter table entries are added.
NETMASK=	{{(0-255)-(0-255)-(0-255)-(0-255)} Subnet Mask, specifies the subnet mask of the network to which the NE with IPADDR is connected to.

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
IPNV	Input, Parameter Not Valid

EXAMPLES

In the following example, the entries in the packet filter table for CPORT 3 are being retrieved and IPADDR is set to ALL.

```
RTRV-IP-FILTER::3::ALL;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of Pad567. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pad567 COMPLD
  "3::IPADDR=0-0-0-0,NETMASK=255-255-255-0"
  [/ * RTRV-IP-FILTER::3::ALL [Pad567] (2) */]
;
```

RELATED COMMANDS

DLT-IP-FILTER
ENT-IP-FILTER

COMMAND CODE: **RTRV-IP-PRMTR**
COMMAND NAME: **RETRIEVE IP PARAMETERS**

PURPOSE

The RTRV-IP-PRMTR command retrieves the Internet Protocol (IP) Layer parameters of the Local Area Network (LAN) interface on the Intelligent Communication Module (ICM). This command retrieves the network layer (Layer 3) parameters pertaining to the IP layer stack.

The successful response for a RTRV-IP-PRMTR contains one line of parsable output data for each specified CPORT that is provisioned as a LAN port.

The RTRV-IP-PRMTR command can be executed while in the Limited Command Execution mode (i.e., after execution of a STOP-OPS command) or the Normal Command Execution mode.

A RTRV-IP-PRMTR command is denied if:

- The specified CID is not configured as the LAN on the ICM.
- An invalid parameter value is entered.

INPUT FORMAT

RTRV-IP-PRMTR: [TID] : CPORT: [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CPORT	{3, 5, 7, 9, 11} Default: Entry Required Addressing: None Description: Control Port, identifies the CID which is configured as the LAN on the ICM module.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  "<CPORT>.:BRDCSTADR=<value>,GATEWAYADR=<value>,
IPADDR=<value>,NETMASK=<value>,NODENAME=<value>"
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

CPORT	{3, 5, 7, 9, 11} Control Port, identifies the CID which is configured as the LAN on the ICM module. N No, specifies all parameters are not set to the factory default. Y Yes, specifies all parameters are set to the factory default.
BRDCSTADR=	{(0-255)-(0-255)-(0-255)-(0-255)} Broadcast Address, specifies the Network Layer Broadcast Address for the specified IP Address. The Broadcast Address is the IP Address with all the host bits set to one (NOTE: the host bits are the bits in the NETMASK that are set to zero).

GATEWAYADR= {(0-255)-(0-255)-(0-255)-(0-255)}
Gateway Address, specifies the Network Layer's Default Gateway router's IP address.

IPADDR= {(0-223)-(0-255)-(0-255)-(0-255)}
Internet Protocol Address, specifies the IP Address of the Network Interface.

NETMASK= {(0-255)-(0-255)-(0-255)-(0-255)}
Subnet Mask, specifies the subnet mask of the network to which the NE is connected to.

NODENAME= <1-15 ASCII printable characters>
TCP/IP Network Name, specifies the TCP/IP network name of the NE. This value is not used by the NE at this time, but is set so the verification of the IP address is made at a later time.

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
IPNV	Input, Parameter Not Valid

EXAMPLES

In the following example, the IP layer parameters pertaining to the LAN for CPORT 11 are being retrieved and all parameters are set to the factory default.

```
RTRV-IP-PRMTR::11;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of Pad567. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pad567 COMPLD
  "11::BRDCSTADR=192-0-2-255,GATEWAYADR=0-0-0-0,
  IPADDR=192-0-2-1,NETMASK=255-255-255-0,NODENAME=NULL"
  /* RTRV-IP-PRMTR::11 [Pad567] (2) */
;
```

RELATED COMMANDS

ED-IP-PRMTR

COMMAND CODE: **RTRV-IP-STATICRT**
COMMAND NAME: **RETRIEVE IP STATIC ROUTE**

PURPOSE

The RTRV-IP-STATICRT command retrieves the entries in the static routing table used by the Internet Protocol (IP) router running on the Local Area Network (LAN) interface on the Intelligent Communication Module (ICM). This command retrieves entries in the network layer (Layer 3) parameters pertaining to the static routing table.

If the IPADDR is specified, the static router table entry corresponding to the IP address is retrieved. If the IPADDR is specified as ALL or null, all the static router table entries are retrieved.

The successful response for a RTRV-IP-STATICRT contains one line of parsable output data for each specified CPORT that is provisioned as a LAN port.

The RTRV-IP-STATICRT command can be executed while in the Limited Command Execution mode (i.e., after execution of a STOP-OPS command) or the Normal Command Execution mode.

A RTRV-IP-STATICRT command is denied if:

- The specified CID is not configured as the LAN on the ICM.
- An invalid parameter value is entered.

INPUT FORMAT

RTRV-IP-STATICRT: [TID] : CPORT: [CTAG] :: [IPADDR] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CPORT	{3, 5, 7, 9, 11} Default: Entry Required Addressing: None Description: Control Port, identifies the CID which is configured as the LAN on the ICM module.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
IPADDR	{{(0-223)-(0-255)-(0-255)-(0-255)}, ALL} Default: <All Entries> Addressing: None Description: Internet Protocol Address, specifies the IP Address of the NE to which the static route entry is retrieved. Name-defined values are: ALL All the static router table entries are retrieved.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  ["<CPORT>::DESTTYPE=value>, GATEWAYADR=<value>, IPADDR=<value>,
NETMASK=<value>"]
  [/ * <Command Echo> [<CTAG>] (<CID [-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

CPORT	{3, 5, 7, 9, 11} Control Port, identifies the CID which is configured as the LAN on the ICM module.
DESTTYPE=	{HOST, NET} Destination Type, determines the type of the IP Address specified in the IPADDR parameter. Values are: HOST Specifies the IP Address type is a Host. NET Specifies the IP Address type is a Network.
GATEWAYADR=	{{(0-255)-(0-255)-(0-255)-(0-255}} Gateway Address, specifies the gateway address of the gateway to which the packets are sent in order to reach the NE whose IP address is as given in the IPADDR parameter.
IPADDR=	{{(0-223)-(0-255)-(0-255)-(0-255}} Internet Protocol Address, specifies the IP Address of the NE to which the static route entry is made.
NETMASK=	{{(0-255)-(0-255)-(0-255)-(0-255}} Subnet Mask, specifies the subnet mask of the network to which the NE with IPADDR is connected to.

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
IPNV	Input, Parameter Not Valid

EXAMPLES

In the following example, the entries in the static routing table for CPORT 3 are being retrieved and IPADDR is set to ALL.

```
RTRV-IP-STATICRT::3::ALL;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of Pad567. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pad567 COMPLD
"3::DESTTYPE=NET,GATEWAYADR=200-200-20-2,IPADDR=200-200-20-2,
NETMASK=255-255-255-0"
/* RTRV-IP-STATICRT::3::ALL [Pad567] (2) */
;
```

RELATED COMMANDS

DLT-IP-STATICRT
ED-IP-STATICRT
ENT-IP-STATICRT

COMMAND CODE: **RTRV-ISGLP-ALL**
COMMAND NAME: **RETRIEVE IN-SERVICE LOOPBACK ALL**

PURPOSE

The RTRV-ISGLP-ALL command retrieves STS-1 and DS3 ports in the system that are supporting an In-Service-Growth Loopback (ISGLP) and all VT1.5 and DS1 ports in the system that are in an In-Service-Growth Loopback (ISGLP).

The successful output response will generate a separate parsable line of data for each STS1 or T3 AID that is currently supporting an ISGLP because an OPR-ISGLP-STs1|T3 was executed (i.e., has a SST of UAS&MT&LPBK), and each T1 or VT1 AID that is currently in an ISGLP because an OPR-ISGLP-T1|VT1 was executed (i.e., has a SST of UAS&MT&LPBK) and is not being reported via a line for a T3 or STS1 AID. No line of output data shall be provided if no ISGLPs currently exist in the system.

A RTRV-ISGLP-ALL command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-ISGLP-ALL: [TID] : [AID] : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	{ALL} Default: <ALL> Addressing: None Description: Access Identifier, identifies the ports involved in or supporting In-Service-Growth Loopbacks.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  ["<AID>, <AIDTYPE>:CS0=<value>,CS1=<value>,MODE=<value>"]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

AID	STS1_AID:	
	{EC1STS1-{1-3840}}	(EC1STS1-EC1/STS1#)
	{OC3STS1-{1-2240}-{1-3}}	(OC3STS1-OC3#-STS1#)
	{OC12STS1-{1-560}-{1-4}-{1-3}}	(OC12STS1-OC12#-STM1#-STS1#)
	DS1_AID:	
	{T1-{1-59392}}	(T1-DS1#)
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)
	DS3_AID:	
	{T3-{1-4800}}	(T3-DS3#)
	VT1_AID:	
	{EC1VT1-{1-3840}-{1-7}-{1-4}}	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)
	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)
	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)
	AID of the port that is in In-service growth loopback. One line for each port that is under such loopback is output.	
AIDTYPE	{STS1, T1, T3, VT1}	
	Indicates the type of the AID specified by the AID output parameter. Value is:	
	STS1	Indicates that the AID corresponds to STS-1 AID
	T1	Indicates that the AID corresponds to DS1 AID
	T3	Indicates that the AID corresponds to DS3 AID
CS0=	VT1	
	Indicates that the AID corresponds to VT1.5 AID	
	CS0_AID:	
	{M16 - 2 - 3 - {1-16} }	
	{M40 - 2 - 3 - {1-16} }	
CS1=	{M40 - 5 - 3 - {4,5,9,10} }	
	The equipment AID of the center stage copy 0 matrix module that is being used in the test.	
	CS1_AID:	
	{M16 - 3 - 3 - {1-16} }	
	{M40 - 3 - 3 - {1-16} }	
	{M40 - 5 - 1 - {4,5,9,10} }	
	The equipment AID of the center stage copy 1 matrix module that is being used in the test.	

MODE= {BOTH, INV1, INV3, NORM}
Loop-back Test Mode, specifies how the embedded DS1s within the specified DS3 are assigned matrix time slots for the loop back test. Values are:

BOTH	Inverted time slot assignments in Both the first-stage and third-stage matrix, specifies that time slot assignments for the loop back test are to be inverted in both the first-stage and third-stage matrix. DS1 #1 is assigned time slot #28, DS1 #2 is assigned time slot #27, ..., DS1 #28 is assigned time slot #1 in the first-stage and third-stage matrix. Time-slot assignments inverted in both the first-stage and third-stage matrix return to the I/O module with normal (non-inverted) time slot assignments. This is valid only when the AID is that of T3 or STS1.
INV1	Inverted time slot assignments in the First-stage matrix, specifies that time slot assignments for the loop back test are to be inverted in the first-stage matrix. DS1 #1 is assigned time slot #28, DS1 #2 is assigned time slot #27, ..., DS1 #28 is assigned time slot #1 in the first-stage matrix. Time-slot assignments in the third-stage matrix are not inverted. This is valid only when the AID is that of T3 or STS1.
INV3	Inverted time slot assignments in the Third-Stage matrix, specifies that time slot assignments for the loop back test are to be inverted in the third-stage matrix. DS1 #1 is assigned time slot #28, DS1 #2 is assigned time slot #27, ..., DS1 #28 is assigned time slot #1 in the third-stage matrix. Time-slot assignments in the third-stage matrix are not inverted. This is valid only when the AID is that of T3 or STS1.
NORM	Normal time slot assignments in the first and third-stage matrix, specifies no change in the time slot assignments for the loop back test are to be made in the first-stage and third-stage matrix. DS1 #1 is assigned time slot #1, DS1 #2 is assigned time slot #2, ..., DS1 #28 is assigned time slot #28. This is valid for all the AIDs listed.

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

SDBE	Status, internal Data Base Error /* ISGLP Database Error: <ERROR-STRING> for record number <RECORD-NUMBER> */
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, all ISGLP loopback that at present exist in the system are retrieved.

```
RTRV-ISGLP-ALL: :ALL;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of Pad567. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M Pad567 COMPLD  
"T3-1,T3:CS0=M16-2-3-1,CS1=M16-3-3-1,MODE=NORM"  
/* RTRV-ISGLP-ALL: :ALL; [Pad567] (2) */  
;
```

RELATED COMMANDS

```
OPR-ISGLP-STS1  
OPR-ISGLP-T1  
OPR-ISGLP-T3  
OPR-ISGLP-VT1  
RLS-ISGLP-STS1  
RLS-ISGLP-T1  
RLS-ISGLP-T3  
RLS-ISGLP-VT1
```

COMMAND CODE: RTRV-ISID-T1
COMMAND NAME: RETRIEVE IDLE SIGNAL IDENTIFIER FOR DS1

PURPOSE

This command retrieves the contents of Idle Signal Identification (ISID) messages that may be coming in on the Facility Data Link for a single given DS1. If DS1 Idle Signal Identification messages are present, they arrive at the rate of once per second. This command watches for an ISID message on the given DS1 for a maximum of 3.5 to 4.0 seconds (approximately 3 message periods). If no ISID messages (or no good ISID messages) have been received in that time, the command will timeout and return a message unavailable indication. If a message is received, the message content shall be returned in the response to this command.

Within the ISID messages received from a facility data link, special control characters, reserved characters, 8 bit binaries, etc. (ASCII string values) from the in-use portion of the EIC, LIC, FIC, Unit, and Port number fields are converted by the 1631 SX LMC system. Specifically, the system replaces the following with a question mark (?) character (3F hex) in displaying corresponding output parameters:

- All control characters (i.e., 01 hex to 1F hex and the value 7F hex)
- All double quote (") and back slash (\) characters (22 hex and 5C hex respectively)
- All 8 bit characters (i.e., 80 hex to FF hex)

All other characters are left unchanged. Note that the normal conversion of NULLs to "." characters are not necessary, since a NULL is considered a terminator in this case and would not be included in the output string.

A RTRV-ISID-T1 command is denied if:

- An invalid parameter value or combination of parameter values is entered.
- The DS1 CI/NI Trouble Sectionalization Premium Feature Option is not enabled.
- The AID of a DS1 that is not in extended superframe (ESF) format is specified.
- A range or more than one DS1 is specified in the AID entry.
- The DS1 specified is not supported by EP3, O1B, O4M, or S3M modules compatible with the DS1 CI/NI Trouble Sectionalization Premium Feature Option.
- The AID of a DS1 is located on an Async shelf.

INPUT FORMAT

RTRV-ISID-T1: [TID]:AID: [CTAG];

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >	
	Default:	<SID>
	Addressing:	None
	Description:	Target Identifier, specifies the network node TID for the command.
AID	DS1_AID:	
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)
	{EC1T1-{1-3840}-{1-28}}	(EC1T1-EC1/STS1/DS3#-DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-28}}	(OC3T1-OC3#-STS1/DS3#-DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}	(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)
	Default:	Entry Required
	Addressing:	None
	Description:	Identifies the DS1 port or a range of ports. This may also identify an external reference timing source. Name-defined values are:
	Restrictions:	RTRV-ISID-T1 is denied if _____
CTAG	< 1-6 VALID CTAG CHARACTERS >	
	Default:	< System assigned CTAG value >
	Addressing:	None
	Description:	Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```

    <SID> <YY-MM-DD> <HH:MM:SS>
M  <CTAG> COMPLD
    /* AID=<AID>[ Idle Signal ID Message Unavailable] */
[  /* CR=<CR> */
    /* EIC=<EIC> */
    /* LIC=<LIC> */
    /* FIC=<FIC> */
    /* UNIT=<UNIT> */
    /* PORT=<PORT> */
    /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

OUTPUT PARAMETERS

AID	DS1_AID: {T3T1-{1-4800}-{1-28}} (T3T1-DS3#-DS1#) {EC1T1-{1-3840}-{1-28}} (EC1T1-EC1/STS1/DS3#-DS1#) {OC3T1-{1-2240}-{1-3}-{1-28}} (OC3T1-OC3#-STS1/DS3#-DS1#) {OC12T1-{1-560}-{1-4}-{1-3}-{1-28}} (OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)
CR=	{Y,N} CaRrier's network flag. Indicates whether equipment generating the DS1 IDLE is within the carrier's network or at a customer installation. This is taken directly from the C/R bit in the ISID message. Values are: Y Yes. DS1 Idle Signal is being generated within the carrier's network. N No. DS1 Idle Signal is being generated external to carrier's network.
EIC=	< 0 to 10 Printable ASCII Characters > Equipment Identification Code of equipment originating the DS1 Idle Signal.
LIC=	< 0 to 11 Printable ASCII Characters > Location Identification Code of equipment originating the DS1 Idle Signal.
FIC=	< 0 to 10 Printable ASCII Characters > Frame Identification Code of equipment originating the DS Idle Signal. Identifies where in a building the equipment is located.
UNIT=	< 0 to 6 Printable ASCII Characters > A code that identifies the UNITs location within a bay of equipment originating the DS Idle Signal.
PORT=	< 0 to 4 Printable ASCII Characters > The number of the PORT originating the DS Idle Signal.

UNSUCCESSFUL RESPONSE FORMAT

```

    <SID> <YY-MM-DD> <HH:MM:SS>
M  <CTAG> DENY
    <ERROR CODE>
    /* <Informational Error Description Text> */
    /* <Expanded Error Code Description> */
    /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

ENRI	Equipage, Not equipped for Retrieving specified Information /* I/O module does not support ISID */
IIAC	Input, Invalid ACcess identifier
SDBE	Status, internal Data Base Error /* TP Database Error: <ERROR-STRING> for <AID-STRING> */ /* TPidToAidStr (<TP-TYPE>. <RECORD-NUMBER>) : <ERROR-STRING> */
SNVS	Status, Not in Valid State
SROF	Status, Requested Operation Failed /* Could not communicate with the SPB. */ /* SPB communication time out */ /* Bad response code returned from SPB (<RESPONSE-CODE>) */
SRQN	Status, invalid ReQuest
SSRE	Status, System Resources Exceeded /* DS1 channel is busy */

EXAMPLES

In the following example, Idle Signal Identification (ISID) messages coming in on the Facility Data Link for a DS1 are retrieved.

```
RTRV-ISID-T1::T3T1-1-4;
```

The output response, shown below, shows idle signal being generated at a customer (CaRrier=No) installation. The customer's assigned ID for this installation location is EAST01, and the port number on the customer's equipment generating the signal is 2311.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M Pad560 COMPLD  
  "/* AID=T3T1-1105-1 */  
/* CR=N */  
/* EIC= */  
/* LIC= */  
/* FIC= */  
/* UNIT= EAST01*/  
/* PORT= 2311*/  
/* RTRV-ISID-T1::T3T1-1105-1 [Pad560] (1)Y"  
;
```

RELATED COMMANDS

```
DLT-T1  
ED-F3  
ED-T1  
ENT-T1  
RMV-T1  
RST-T1  
RTRV-F3  
RTRV-DFLT-T1  
RTRV-PFO  
RTRV-SYSTEMSG-T1  
SET-DFLT-T1
```


COMMAND CODE: **RTRV-ISU-STATUS**
COMMAND NAME: **RETRIEVE IN-SERVICE UPGRADE
STATUS**

PURPOSE

The RTRV-ISU-STATUS command retrieves the status of the generic upgrade procedure. This command determines the current status of the upgrade procedure (i.e. No upgrade in progress, the STA-ISU command is issued, the STA-ISU command failed, the STP-ISU command is issued, awaiting the INIT-SYS-NEW command, etc.).

A RTRV-ISU-STATUS command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-ISU-STATUS: [TID] :: [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
M    <SID> <YY-MM-DD> <HH:MM:SS>
    <CTAG> COMPLD
    ": ISUSTAT=<ISUSTAT>[, ISUKEY=<ISUKEY>]"
    [ / * <Upgrade Description Text Line> */ ]+
    [ / * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */ ]
;
```

OUTPUT PARAMETERS

ISUSTAT=	{INITNC, INITNIP, INITOC, INITOIP, NOSTAIP, RMVD, RMVIP, STAC, STAF, STAIPnn, STPC}
	In-Service Upgrade Status, indicates the current status of the system with respect to the Generic In-Service Upgrade process. Values are:
INITNC	Initialize New Completed, indicates the INIT-SYS-NEW command completed successfully and the system is restarted on the new release.
INITNIP	Initialize New In Progress, indicates the INIT-SYS-NEW command is in progress.
INITOC	Initialize Old Completed, indicates the INIT-SYS-OLD command completed successfully and the system is restarted on the previous release.
INITOIP	Initialize Old In Progress, indicates the INIT-SYS-OLD command is in progress.
NOSTAIP	No Status In Progress, indicates that no Generic In-Service Upgrade procedure is in progress or has been attempted.
RMVIP	Removal In Progress, indicates the removal of the previous release partition (i.e. inactive generic) in in progress.
RMVD	Removed, indicates the removal of the previous release partition is completed and the system is permanently set on the active release.
STAC	Status Completed, indicates that the STA-ISU command completed successfully and is awaiting the issuance of the INIT-SYS-NEW command.
STAF	Status Failed, indicates that the STA-ISU command failed and must be restarted.
STAIPnn	Status In Progress, indicates that a Generic In-Service Upgrade procedure is in progress. The "STAIP" indicates the STA-ISU command is in progress and "nn" is a step number {1-99} within the STA-ISU process.
STPC	Stop Completed, indicates that the STP-ISU command completed successfully.
ISUKEY=	<1-5 ALPHANUMERIC CHARACTERS>
	In-Service Upgrade Key, specifies the logical in-service upgrade reversion key. Valid values for ISUKEY are a string of 1 through 5 ASCII alphanumeric characters from the set {0-9, A-Z}. Note that spaces and special characters are not included. The ISUKEY is only returned when the value of ISUSTAT is STAIP, STAC, INITNIP, or INITNC.

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IPNV Input, Parameter Not Valid

EXAMPLES

In the following example, the status of the generic upgrade procedure is retrieved.

```
RTRV-ISU-STATUS;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of Pad567. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
      <SID> <YY-MM-DD> <HH:MM:SS>
M   Pad567 COMPLD
      ": ISUSTAT=STAC,ISUKEY=A6b1F"
      " TYPE=UPGRD Completed <MM-DD-YY> <HH:MM:SS>
/* RTRV-ISU-STATUS [Pad567] (2) */
;
```

RELATED COMMANDS

```
INIT-SYS-NEW
INIT-SYS-OLD
RMV-ISU-OLD
STA-ISU
STP-ISU
```


COMMAND CODE: **RTRV-ITMRSLT**
COMMAND NAME: **RETRIEVE INSTALLATION TEST AND
MAINTENANCE RESULT**

PURPOSE

The RTRV-ITMRSLT command retrieves the result of the Installation Test and Maintenance (ITM) test specified currently in progress. The ITM test supports the testing of the GTI matrix cables.

If RTRV-ITMRSLT is executed and the specified test is currently in progress, the partial results of the current test is sent and the test continues.

If the response of the RTRV-ITMRSLT or the IP messages of the START-ITMTEST command show errors, then the RTRV-GTI-STATUS should be used to diagnose the problem.

A RTRV-ITMRSLT command is denied if:

- The specified test is currently not in progress.
- An invalid parameter value is entered.

INPUT FORMAT

RTRV-ITMRSLT: [TID] : : [CTAG] : : TESTTYPE;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
TESTTYPE	{MTXCBL} Default: Entry Required Addressing: None Description: Test Type, specifies the type of test. Values are: MTXCBL Matrix Cable Test

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD/PRTL
  "<MTXCOPY>,<TESTTYPE>"
["<ES1AID>,<ES1RSLT>,<GT2AID>,<GT2RSLT>,<GT3AID>,<GT3RSLT>,<IDRSLT>,<BERSLT>" ] *
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;]
```

OUTPUT PARAMETERS

MTXCOPY	{COPY0, COPY1} Matrix Copy. Values are: COPY0 Matrix Copy 0 COPY1 Matrix Copy 1
TESTTYPE	{MTXCBL} Test Type, specifies the type of test. Values are: MTXCBL Matrix Cable Test

ES1AID	ES1_AID: {M16-{4-5, 10, 11, 16, 17, 22, 23}-3-{1-16}} {M32-{{4-5, 10-11, 16-17, 22-23, 102, 103 }-3-{1-16}}} Identifies the AID of a provisioned first stage ES module.
ES1RSLT	{EQP, OK} ES1 Result, identifies the result of the equipment test on the ES1 module. Values are: EQP The module is faulty or unequipped. OK The module is okay.
GT2AID	GT2_AID: {G1M16-{2-3}-3-{1-16}-{1-16}} {G1M40-{2-3}-{1, 3}-{1-16}-{1-32}} Identifies the AID of the GTI cable between the first stage ES and a CS.
GT2RSLT	{EQP, CON, OK} GT2 Result, identifies the result of the GTI test on the connection between the first stage ES and the CS. Values are: EQP The module is faulty or unequipped. CON The connection is faulty. OK The connection is okay.
GT3AID	GT3_AID: {G1M16-{4-5, 10, 11, 16, 17, 22, 23}-3-{1-16}-{1-16}} {G1M32-{4-5, 10-11, 16-17, 22-23, 102, 103}-3-{1-16}-{1-32}} Identifies the AID of the GTI cable between a CS and the third stage ES.
GT3RSLT	{EQP, CON, OK} GT3 Result, identifies the result of the GTI test on the connection between the CS and the third stage ES. Values are: EQP The module is faulty or unequipped. CON The connection is faulty. OK The connection is okay.
IDRSLT	{MM, OK} Identification Result, identifies the result of the Identification test. Values are: MM ID Mismatch. OK The connection is okay.
BERSLT	Bit Error (BE) Test Result. Identifies the number of bit errors detected. OK The connection is OK. NOK The connection is Not OK. NAV Test result is Not Available.

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

SARB	Status, All Resources Busy /*Too many RTRV-ITMRSLT commands already in progress.*/
SDBE	Status, internal Data Base Error /*Unable to create RTRV-ITMRSLT report file.*/ /*Unable to open RTRV-ITMRSLT report file.*/ /*Unable to print RTRV-ITMRSLT report file.*/
SNVS	Status, Not in Valid State /*STOP-ITMTEST command in progress.*/ /*ITM test termination in progress (duration expired).*/ /*No ITM test in progress.*/
SROF	Status, Requested Operation Failed /*Unable to access memory for ITM auxiliary data.*/ /*Unable to queue ITM auxiliary buffer for RTRV-RSLT request.*/

EXAMPLES

In the following example, the result of the ITM test is retrieved.

```
RTRV-ITMRSLT:::::MTXCBL;

M  P24005 COMPLD
/* COPY0,MTXCBL */
/* M16-5-3-1,EQP,G1M40-2-3-1-1,OK,G1M16-5-3-5-1,OK,NAV,NAV */
/* M16-5-3-2,EQP,G1M40-2-3-1-2,OK,G1M16-5-3-6-1,OK,NAV,NAV */
/* M16-5-3-2,EQP,G1M40-2-3-2-2,OK,G1M16-5-3-6-2,OK,NAV,NAV */
/* M16-5-3-2,EQP,G1M40-2-3-3-2,OK,G1M16-5-3-6-3,OK,NAV,NAV */
/* M16-5-3-2,EQP,G1M40-2-3-4-2,OK,G1M16-5-3-6-4,OK,NAV,NAV */
/* RTRV-ITMRSLT:::::MTXCBL [P24005] (1) */

;
```

RELATED COMMANDS

```
START-ITMMODE
START-ITMTEST
STOP-ITMMODE
STOP-ITMTEST
```


COMMAND CODE: **RTRV-LAN-STATS**
COMMAND NAME: **RETRIEVE LAN STATISTICS**

PURPOSE

The RTRV-LAN-STATS command retrieves the data link statistic counters of the SONET Data Communication Channel (DCC) network. This command retrieves the data link statistic counters of the LAN residing on a DSB.

If the specified DSB is not provisioned, i.e. it is in UAS secondary state, the command completes successfully without producing any output.

A RTRV-LAN-STATS command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-LAN-STATS : [TID] : AID : [CTAG] ;

INPUT PARAMETERS

TID	< 1–20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	EQUIPMENT_AID: {DSB-{6–9, 12–15, 18–21, 24–43, 104–111 , 112–135, 136–141 }-{1, 3}-{1–2}} Default: Entry Required Addressing: None Description: DSB AID, identifies the DSB on which the LAN resides and whose data-link counters are being cleared.
CTAG	< 1–6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
"<AID>.:EXCOL=<value>,FRMTX=<value>,FRMRX=<value>,BYTETX=<value>,
BYTERX=<value>"
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

BYTERX=	Number of Bytes Received
BYTETX=	Number of Bytes Transmitted
EXCOL=	Number of Excessive Collisions detected
FRMRX=	Number of Frames Received
FRMTX=	Number of Frames Transmitted

UNSUCCESSFUL RESPONSE FORMAT

```

    <SID> <YY-MM-DD> <HH:MM:SS>
M  <CTAG> DENY
    <ERROR CODE>
    [/ * <Informational Error Description Text> */]
    [/ * <Expanded Error Code Description> */]
    [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
SARB	Status, All Resources Busy /* Command already in progress on the card. */
SDBE	Status, internal Data Base Error /* Unable to read the shelf database. */ /* Unable to read the LANDCC database. */
SNVS	Status, Not in Valid State /* DSB is in an invalid state. */
SROF	Status, Requested Operation Failed /* Shelf is not provisioned. */ /* Unable to get an AUX buffer. */ /* Invalid parameter was detected by Level 2 processor. */ /* Level 2 processor could not communicate with Level 3. */ /* Invalid return code was detected by NMI software. */ /* Buffer too small. */ /* NMI Uninitialized. */ /* Unknown CS return code. */ /* No manual address provisioned. */ /* Invalid State. */ /* Invalid Id. */ /* Unsupported database. */ /* Invalid event function. */ /* Statistics requested failed. */ /* Invalid parameter. */ /* OSI layer management circuit not initialized. */ /* Lower layer OSI management error occurred. */ /* OSI layer management invalid operation. */ /* OSI layer management invalid function. */ /* OSI layer management invlaid password type. */ /* OSI layer management invalid circuit type. */ /* OSI layer management unable to get request mailbox handle. */ /* OSI layer management unable to get response mailbox handle. */ /* OSI layer management unable to allocate message buffer. */ /* OSI layer management unable to deallocate message buffer. */ /* OSI layer management unable to send a message. */ /* OSI layer management unable to receive message. */ /* OSI layer management unable to create a lock. */ /* OSI layer management unable to lock. */ /* OSI layer management unable to unlock. */

```
/* OSI layer management initialization failure. */  
/* OSI layer management deadman timer expired. */  
/* TARP management allocation message failure. */  
/* TARP management deallocation message failure. */  
/* TARP management message send failure. */  
/* TARP management unable to get mailbox handle. */  
/* TARP TID resolved. */  
/* TARP TID resolved locally. */  
/* TARP TID unresolved locally. */  
/* TARP TID unresolved level 1. */  
/* TARP TID error recovery. */  
/* TARP TID unresolved level 2. */  
/* TARP NSAP resolved locally. */  
/* TARP NSAP unresolved locally. */  
/* TARP TEF response. */  
/* TARP TEF timer expired. */  
/* TARP delete cache entry failure. */  
/* TARP addition cache entry failure. */  
/* TARP cache entry exists. */  
/* TARP cache full. */  
/* TARP cache entry changed. */  
/* TARP addition LDB entry failure. */  
/* TARP LDB entry exists. */  
/* TARP delete LDB entry failure. */  
/* TARP LDB return. */  
/* TARP not started. */  
/* TARP not enabled. */  
/* TARP stopped. */  
/* TARP exceeded max connections. */  
/* TARP provisioned parameters return. */  
/* TARP provisioned pdu fields return. */  
/* TARP exceeded max adjacencies. */  
/* TARP adjacency exists. */  
/* TARP delete adjacency failure. */  
/* TARP management error. */  
/* TARP NSAP error. */  
/* TARP TID error. */  
/* TARP No level1 adjacencies. */  
/* TARP no adjacencies. */  
/* TARP cache return. */  
/* TARP adjacency return. */  
/* Invalid error response was received from L2P. */
```

EXAMPLES

In the following example, the data link statistic counters of DSB-6-1-1 is retrieved.

```
RTRV-LAN-STATS::DSB-6-1-1;  
  <SID> <YY-MM-DD> <HH:MM:SS>  
M   Pad567 COMPLD  
  "DSB-6-1-1::BYTERX=10000,BYTETX=10000,EXCOL=0,FRMRX=10,FRMTX=10"  
  /* RTRV-LAN-STATS::DSB-6-1-1 [Pad567] (2) */  
;
```

RELATED COMMANDS

CLR-LAN-STATS

COMMAND CODE: **RTRV-LLLAN**
COMMAND NAME: **RETRIEVE LOWER LAYER LAN
PARAMETERS**

PURPOSE

The RTRV-LLLAN command retrieves the Layer 1 (physical layer) and Layer 2 (data link layer) parameters of the SONET Data Communication Channel (DCC) network. This command retrieves the OSI lower layer stack (Layer 1 and Layer 2) parameters pertaining to the LAN.

If the specified DSB is not provisioned, i.e. it is in UAS secondary state, the command completes successfully without producing any output.

A RTRV-LLLAN command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-LLLAN: [TID] :AID: [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	EQUIPMENT_AID: {DSB-{6-9, 12-15, 18-21, 24-43, 104-111 , 112-135, 136-141 }-{1, 3}-{1-2}} Default: Entry Required Addressing: None Description: DSB AID, identifies the DSB on the LAN whose lower layer parameters are being retrieved.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M <CTAG> COMPLD  
  "<AID>: :L2INFO=<value>"  
  [/* <Command Echo> [<CTAG>] (<CID [-VCNUM] >) */]  
;
```

On successful completion of RTRV-LLLAN if the DSB is not in an OOS-MA state, the system will compare the Lower Layer LAN parameters in the database with those on the hardware and if any of the parameters are different, the system will print the parameters on the hardware in the second line, shown as optional above. If the DSB is in an OOS-MA state, only the parameters in the database will be displayed.

OUTPUT PARAMETERS

L2INFO= {512, 1024, 1497}
Layer 2 Information Field, specifies the maximum size of the OSI Layer 2 information field.

UNSUCCESSFUL RESPONSE FORMAT

```

    <SID> <YY-MM-DD> <HH:MM:SS>
M  <CTAG> DENY
    <ERROR CODE>
    [/ * <Informational Error Description Text> */]
    [/ * <Expanded Error Code Description> */]
    [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
SDBE	Status, internal Data Base Error
	/* Unable to read the shelf database. */
	/* Unable to read the LANDCC database. */
SROF	Status, Requested Operation Failed
	/* Shelf is not provisioned. */
	/* Unable to get an AUX buffer. */
	/* Invalid parameter was detected by Level 2 processor. */
	/* Level 2 processor could not communicate with Level 3. */
	/* Invalid return code was detected by NMI software. */
	/* Buffer too small. */
	/* NMI Uninitialized. */
	/* Unknown CS return code. */
	/* No manual address provisioned. */
	/* Invalid State. */
	/* Unsupported database. */
	/* Invalid event function. */
	/* Statistics requested failed. */
	/* Invalid parameter. */
	/* OSI layer management circuit not initialized. */
	/* OSI layer management invalid function. */
	/* OSI layer management invlaid password type. */
	/* OSI layer management invalid circuit type. */
	/* OSI layer management unable to get request mailbox handle. */
	/* OSI layer management unable to get response mailbox handle. */
	/* OSI layer management unable to allocate message buffer. */
	/* OSI layer management unable to deallocate message buffer. */
	/* OSI layer management unable to send a message. */
	/* OSI layer management unable to receive message. */
	/* OSI layer management unable to create a lock. */
	/* OSI layer management unable to lock. */
	/* OSI layer management unable to unlock. */
	/* OSI layer management initialization failure. */
	/* OSI layer management deadman timer expired. */
	/* TARP management allocation message failure. */
	/* TARP management deallocation message failure. */
	/* TARP management message send failure. */
	/* TARP management unable to get mailbox handle. */
	/* TARP TID resolved. */

```
/* TARP TID resolved locally. */  
/* TARP TID unresolved locally. */  
/* TARP TID unresolved level 1. */  
/* TARP TID error recovery. */  
/* TARP TID unresolved level 2. */  
/* TARP NSAP resolved locally. */  
/* TARP NSAP unresolved locally. */  
/* TARP TEF response. */  
/* TARP TEF timer expired. */  
/* TARP delete cache entry failure. */  
/* TARP addition cache entry failure. */  
/* TARP cache entry exists. */  
/* TARP cache full. */  
/* TARP cache entry changed. */  
/* TARP addition LDB entry failure. */  
/* TARP LDB entry exists. */  
/* TARP delete LDB entry failure. */  
/* TARP LDB return. */  
/* TARP not started. */  
/* TARP not enabled. */  
/* TARP stopped. */  
/* TARP exceeded max connections. */  
/* TARP provisioned parameters return. */  
/* TARP provisioned pdu fields return. */  
/* TARP exceeded max adjacencies. */  
/* TARP adjacency exists. */  
/* TARP delete adjacency failure. */  
/* TARP management error. */  
/* TARP NSAP error. */  
/* TARP TID error. */  
/* TARP No level1 adjacencies. */  
/* TARP no adjacencies. */  
/* TARP cache return. */  
/* TARP adjacency return. */  
/* Invalid error response was received from L2P. */
```

EXAMPLES

In the following example, the OSI lower layer stack (Layer 1 and Layer 2) parameters pertaining to the LAN for DSB-6-1-1 are retrieved.

```
RTRV-LLLAN::DSB-6-1-1;  
  
  <SID> <YY-MM-DD> <HH:MM:SS>  
M  P4d017 COMPLD  
"DSB-6-1-1::L2INFO= 1497"  
/* RTRV-LLLAN::DSB-6-1-1: [P4d017] (1) */
```

RELATED COMMANDS

```
ED-LLLAN
```


COMMAND CODE: **RTRV-LLLDCC**
COMMAND NAME: **RETRIEVE LOWER LAYER LINE DCC**

PURPOSE

The RTRV-LLLDCC command retrieves all the provisioned parameter values supporting Layer 1 (physical layer) and Layer 2 (data link layer) of the SONET Data Communication Channel (DCC) network. This command retrieves all the provisioned lower layer stack (Layer 1 and Layer 2) parameters of the Line DCC.

If the specified OC-3/OC-12 is not provisioned, i.e., it is in UAS secondary state, or if the protection OC-3/OC-12 is specified, the command completes successfully without producing any output.

A RTRV-LLLDCC command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-LLLDCC: [TID] :AID: [CTAG] ;

INPUT PARAMETERS

TID	< 1–20 VALID TID CHARACTERS >		
	Default:	<SID>	
	Addressing:	None	
	Description:	Target Identifier, specifies the network node TID for the command.	
AID	OC3_AID:	{OC3–{1–2240}}	(OC3–OC3#)
	OC12_AID:	{OC12–{1–560}}	(OC12–OC12#)
	Default:	Entry Required	
	Addressing:	None	
	Description:	Optical Carrier AID, identifies the generic address of an OC–3/OC–12 whose lower layer parameters specific to the Line DCC are being retrieved.	
CTAG	< 1–6 VALID CTAG CHARACTERS >		
	Default:	< System assigned CTAG value >	
	Addressing:	None	
	Description:	Correlation Tag, associates input command with its output responses.	

SUCCESSFUL RESPONSE FORMAT

```

    <SID> <YY-MM-DD> <HH:MM:SS>
M  <CTAG> COMPLD
    "<AID>:: ,L2IF=<value>,L2INFO=<value>,
L2MAXCALLS=<value>,L2NOA=<value>,L2RCALLTMR=<value>,L2REX=<value>,
L2SIDE=<value>,L2WAIT=<value>:<PST>"
    [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

    <SID> <YY-MM-DD> <HH:MM:SS>
M  <CTAG> COMPLD
    ["<AID>:: ,L2IF=<value>,L2INFO=<value>,
L2MAXCALLS=<value>,L2NOA=<value>,L2RCALLTMR=<value>,L2REX=<value>,
L2SIDE=<value>,L2WAIT=<value>:<PST>"]
    [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

On successful completion of RTRV-LLLDCC if the Line DCC is enabled, the system will compare the Lower Layer Line DCC parameters in the database with those on the hardware and if any of the parameters are different, the system will print the parameters on the hardware in the second line, shown as optional above. If the Line DCC is disabled, only the parameters in the database will be displayed.

OUTPUT PARAMETERS

AID	<p>OC3_AID: {OC3-{1-2240}} (OC3-OC3#)</p> <p>OC12_AID: {OC12-{1-560}} (OC12-OC12#)</p> <p>Optical Carrier AID, identifies the OC-3/OC-12 port.</p>				
L2IF=	<p>{1-127}</p> <p>Layer 2 Outstanding I Frame, specifies the Outstanding I Frame count for Layer 2.</p>				
L2INFO=	<p>{512, 1024, 1497}</p> <p>Layer 2 Information Field, specifies the maximum size of the information field for Layer 2.</p>				
L2MAXCALLS=	<p>{1-32}</p> <p>Maximum Number of Layer 2 Retries, determines the maximum number of the Layer 2 retries connecting to the other end before it reports a connection failure to the application layer.</p>				
L2NOA=	<p>{4-120}</p> <p>Layer 2 No Activity Timer, specifies the Layer 2 No Activity Timer (T203) in seconds.</p>				
L2RCALLTMR=	<p>{1-65535}</p> <p>Layer 2 LAPD Controller, determines how long the Layer 2 LAPD controller waits (in seconds) after L2MAXCALLS are exhausted and before the Layer 2 LAPD makes another set of attempts to connect.</p>				
L2REX=	<p>{2-16}</p> <p>Layer 2 Retransmission Count, specifies the Layer 2 retransmissions count.</p>				
L2SIDE=	<p>{NETWORK, USER}</p> <p>Layer 2 User Side/Network Side, defines the assignment of Layer 2 user side/network side roles. Values are:</p> <table border="0" style="margin-left: 40px;"> <tbody> <tr> <td>NETWORK</td> <td>Indicates the Layer 2 role is assigned on the network side.</td> </tr> <tr> <td>USER</td> <td>Indicates the Layer 2 role is assigned on the user side.</td> </tr> </tbody> </table>	NETWORK	Indicates the Layer 2 role is assigned on the network side.	USER	Indicates the Layer 2 role is assigned on the user side.
NETWORK	Indicates the Layer 2 role is assigned on the network side.				
USER	Indicates the Layer 2 role is assigned on the user side.				

L2WAIT= {2–200,}
Layer 2 Waiting Acknowledge Timer, specifies the Layer 2 Waiting Acknowledge timer in tenths of seconds.

PST {IS, OOS}
Primary State, determines the primary state in which the lower layer Section DCC is put into. Values are:

IS	In-Service
OOS	Out-Of-Service

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
SDBE	Status, internal Data Base Error
	/*TP Database Error: <ERROR-STRING> for <AID-STRING>*/
	/*DCC Database Error: <ERROR-STRING> for record number <RECORD-NUMBER>*/
	/*TPidToAidStr() Error: <ERROR-STRING>*/
SROF	Status, Requested Operation Failed
	/*Could not communicate with the SPB*/
	/*Bad response code returned from SPB (<RESPONSE_CODE>)*/*
SSRE	Status, System Resources Exceeded

EXAMPLES

In the following example, the provisioned data of the Line DCC for port OC3-3 port OC3-1 is being retrieved.

```
RTRV-LLLDCC::OC3-1;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of Pad567. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pad567 COMPLD
  "OC3-1::L2IF=7,L2INFO=512,L2MAXCALLS=1,L2NOA=10,
  L2RCALLTMR=60,L2REX=10,L2SIDE=NETWORK,L2WAIT=5:OOS"
  /* RTRV-LLLDCC::OC3-1 [Pad567] (2) */
;
```

RELATED COMMANDS

```
ED-LLLDCC
```


COMMAND CODE: **RTRV-LLSDCC**
COMMAND NAME: **RETRIEVE LOWER LAYER SECTION
DCC**

PURPOSE

The RTRV-LLSDCC command retrieves all the provisioned parameter values supporting Layer 1 (physical layer) and Layer 2 (data link layer) of the SONET Data Communication Channel (DCC) network. This command retrieves all the provisioned lower layer stack (Layer 1 and Layer 2) parameters of the Section DCC.

If the specified OC-3/OC-12 is not provisioned, i.e., it is in UAS secondary state, or if the protection OC-3/OC-12 is specified, the command completes successfully without producing any output.

A RTRV-LLSDCC command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-LLSDCC: [TID] :AID: [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >	
	Default:	<SID>
	Addressing:	None
	Description:	Target Identifier, specifies the network node TID for the command.
AID	OC3_AID:	
	{OC3-{1-2240}}	(OC3-OC3#)
	OC12_AID:	
	{OC12-{1-560}}	(OC12-OC12#)
	Default:	Entry Required
	Addressing:	None
	Description:	Optical Carrier AID, identifies the generic address of an OC-3/OC-12 whose lower layer parameters specific to the Section DCC are being retrieved.
CTAG	< 1-6 VALID CTAG CHARACTERS >	
	Default:	< System assigned CTAG value >
	Addressing:	None
	Description:	Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
    "<AID>:: L2IF=<value>,L2INFO=<value>,
L2MAXCALLS=<value>,L2NOA=<value>,L2RCALLTMR=<value>,L2REX=<value>,
L2SIDE=<value>,L2WAIT=<value>:PST"
    /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
    ["<AID>::L2IF=<value>,L2INFO=<value>,
L2MAXCALLS=<value>,L2NOA=<value>,L2RCALLTMR=<value>,L2REX=<value>,
L2SIDE=<value>,L2WAIT=<value>:PST"]
    /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

On successful completion of RTRV-LLSDCC if the Section DCC is enabled, the system will compare the Lower Layer Section DCC parameters in the database with those on the hardware and if any of the parameters are different, the system will print the parameters on the hardware in the second line, shown as optional above. If the Section DCC is disabled, only the parameters in the database will be displayed.

OUTPUT PARAMETERS

AID	OC3_AID: {OC3-{1-2240}}	(OC3-OC3#)
	OC12_AID: {OC12-{1-560}}	(OC12-OC12#)
	Optical Carrier AID, identifies the OC-3/OC-12 port.	
L2IF=	{1-127}	
	Layer 2 Outstanding I Frame, specifies the Outstanding I Frame count for Layer 2.	
L2INFO=	{512, 1024, 1497}	
	Layer 2 Information Field, specifies the maximum size of the information field for Layer 2.	
L2MAXCALLS=	{1-32}	
	Maximum Number of Layer 2 Retries, determines the maximum number of the Layer 2 retries connecting to the other end before it reports a connection failure to the application layer.	
L2NOA=	{4-120}	
	Layer 2 No Activity Timer, specifies the Layer 2 No Activity Timer (T203) in seconds.	
L2RCALLTMR=	{1-65535}	
	Layer 2 LAPD Controller, determines how long the Layer 2 LAPD controller waits (in seconds) after L2MAXCALLS are exhausted and before the Layer 2 LAPD makes another set of attempts to connect.	
L2REX=	{2-16}	
	Layer 2 Retransmission Count, specifies the Layer 2 retransmissions count.	
L2SIDE=	{NETWORK, USER}	
	Layer 2 User Side/Network Side, defines the assignment of Layer 2 user side/network side roles. Values are:	
	NETWORK	Indicates the Layer 2 role is assigned on the network side.
	USER	Indicates the Layer 2 role is assigned on the user side.
L2WAIT=	{2-200}	
	Layer 2 Waiting Acknowledge Timer, specifies the Layer 2 Waiting Acknowledge timer in tenths of seconds.	

PST {IS, OOS}
Primary State, determines the primary state in which the lower layer Section DCC is put into. Values are:
IS In-Service
OOS Out-Of-Service

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
SDBE	Status, internal Data Base Error /*TP Database Error: <ERROR-STRING> for <AID-STRING>*/ /*DCC Database Error: <ERROR-STRING> for record number <RECORD-NUMBER>*/ /*TPidToAidStr() Error: <ERROR-STRING>*/
SROF	Status, Requested Operation Failed /*Could not communicate with the SPB*/ /*Bad response code returned from SPB (<RESPONSE_CODE>)*/*
SSRE	Status, System Resources Exceeded

EXAMPLES

In the following example, the provisioned data of the Section DCC for OC-3 port OC3-1 is being retrieved.

```
RTRV-LLSDCC::OC3-1;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of Pad567. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pad567 COMPLD
  "OC3-1::L2IF=7,L2INFO=512,L2MAXCALLS=1,L2NOA=10,
  L2RCALLTMR=60,L2REX=10,L2SIDE=NETWORK,L2WAIT=5:OOS"
  [/* RTRV-LLSDCC::OC3-1 [Pad567] (2) */]
;
```

RELATED COMMANDS

ED-LLSDCC

COMMAND CODE: **RTRV-LPBK-EC1**
COMMAND NAME: **RETRIEVE LOOPBACK EC1**

PURPOSE

The RTRV-LPBK-EC1 command retrieves the EC1 ports that are in a loopback within the specified range of EC1 AIDs. The command is executed regardless of the provisioning of the specified ports.

The successful response for a RTRV-LPBK-EC1 contains one line of parsable data, in ascending order, for each EC1 port that is in a loopback within the specified range of AIDs. No output data is returned for an AID that is not in a loopback.

A RTRV-LPBK-EC1 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-LPBK-EC1 : [TID] : AID : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	EC1_AID: {EC1-{1-3840} } (EC1-EC1/STS1#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: EC1 AID, identifies a EC1 port or a range of EC1 ports.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M <CTAG> COMPLD  
["<AID>:LOCN=<value>,LPBKTYPE=<value>"]  
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]  
;
```

OUTPUT PARAMETERS

AID	EC1_AID: {EC1-{1-3840} } (EC1-EC1/STS1#) EC1 AID, identifies a EC1 port that is in a loopback.
LOCN=	{NEND} Location, indicates the location (near-end) of the loopback. Value is: NEND Near-End, indicates the loopback is in the system.
LPBKTYPE=	{FACILITY} Loopback Type, indicates the type of loopback. Value is: FACILITY Facility, indicates a EC1 loopback at the receive-side (from the network) of the specified EC1 port.

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
SDBE	Status, internal Data Base Error
	/* TP Database Error: <ERROR-STRING> for <AID-STRING> */
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, all EC1 ports between EC1 ports EC1-49 and EC1-96 that are in a loopback are reported.

```
RTRV-LPBK-EC1::EC1-49&&-96;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of Pad567. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed. The example assumes there are three EC1 ports in a loopback within the specified range of ports.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pad567 COMPLD
"EC1-52:LOCN=NEND,LPBKTYPE=FACILITY"
"EC1-64:LOCN=NEND,LPBKTYPE=FACILITY"
"EC1-88:LOCN=NEND,LPBKTYPE=FACILITY"
/* RTRV-LPBK-EC1::EC1-49&&-96 [Pad567] (2) */
;
```

RELATED COMMANDS

```
ENT-EC1
OPR-LPBK-EC1
RLS-LPBK-EC1
RTRV-COND-EC1
RTRV-LPBK-EC1
RTRV-EC1
```

COMMAND CODE: **RTRV-LPBK-OC12**
COMMAND NAME: **RETRIEVE LOOPBACK OC-12**

PURPOSE

The RTRV-LPBK-OC12 command retrieves the OC-12 ports that are in a loopback within the specified range of OC-12 AIDs. The command is executed regardless of the provisioning of the specified ports.

The successful response for a RTRV-LPBK-OC12 contains one line of parsable data, in ascending order, for each OC-12 port that is in a loopback within the specified range of AIDs. No output data is returned for an AID that is not in a loopback.

A RTRV-LPBK-OC12 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-LPBK-OC12 : [TID] : AID : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	OC12_AID: {OC12-{1-560}} (OC12-OC12#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: OC12 AID, identifies a OC-12 port or a range of OC-12 ports.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M <CTAG> COMPLD  
["<AID>:LOCN=<value>,LPBKTYPE=<value>"]  
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]  
;
```

OUTPUT PARAMETERS

AID	OC12_AID: {OC12-{1-560}} (OC12-OC12#) OC12 AID, identifies a OC-12 port that is in a loopback.
LOCN=	{NEND} Location, indicates the location (near-end) of the loopback. Value is: NEND Near-End, indicates the loopback is in the system.
LPBKTYPE=	{FACILITY} Loopback Type, indicates the type of loopback. Value is: FACILITY Facility, indicates a OC-12 loopback at the receive-side (from the network) of the specified OC-12 port.

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
SDBE	Status, internal Data Base Error
	/* TP Database Error: <ERROR-STRING> for <AID-STRING> */
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, all OC-12 ports between OC-12 ports OC12-17 and OC12-32 that are in a loopback are reported.

```
RTRV-LPBK-OC12::OC12-17&&-32;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of Pad567. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed. The example assumes there are three OC-12 ports in a loopback within the specified range of ports.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pad567 COMPLD
"OC12-20:LOCN=NEND,LPBKTYPE=FACILITY"
"OC12-28:LOCN=NEND,LPBKTYPE=FACILITY"
"OC12-30:LOCN=NEND,LPBKTYPE=FACILITY"
/* RTRV-LPBK-OC12::OC12-17&&-32 [Pad567] (2) */
;
```

RELATED COMMANDS

```
ENT-OC12
OPR-LPBK-OC12
RLS-LPBK-OC12
RTRV-COND-OC12
RTRV-LPBK-OC12
RTRV-OC12
```

COMMAND CODE: **RTRV-LPBK-OC3**
COMMAND NAME: **RETRIEVE LOOPBACK OC-3**

PURPOSE

The RTRV-LPBK-OC3 command retrieves the OC-3 ports that are in a loopback within the specified range of OC-3 AIDs. The command is executed regardless of the provisioning of the specified ports.

The successful response for a RTRV-LPBK-OC3 contains one line of parsable data, in ascending order, for each OC-3 port that is in a loopback within the specified range of AIDs. No output data is returned for an AID that is not in a loopback.

A RTRV-LPBK-OC3 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-LPBK-OC3 : [TID] :AID: [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	OC3_AID: {OC3-{1-2240}} (OC3-OC3#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: OC3 AID, identifies a OC-3 port or a range of OC-3 ports.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
["<AID>:LOCN=<value>,LPBKTYPE=<value>"]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

AID	OC3_AID: {OC3-{1-2240}} (OC3-OC3#) OC3 AID, identifies a OC-3 port that is in a loopback.
LOCN=	{NEND} Location, indicates the location (near-end) of the loopback. Value is: NEND Near-End, indicates the loopback is in the system.
LPBKTYPE=	{FACILITY} Loopback Type, indicates the type of loopback. Value is: FACILITY Facility, indicates a OC-3 loopback at the receive-side (from the network) of the specified OC-3 port.

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */] ;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
SDBE	Status, internal Data Base Error
	/* TP Database Error: <ERROR-STRING> for <AID-STRING> */
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, all OC-3 ports between OC-3 ports OC3-17 and OC3-32 that are in a loopback are reported.

```
RTRV-LPBK-OC3::OC3-17&&-32;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of Pad567. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed. The example assumes there are three OC-3 ports in a loopback within the specified range of ports.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pad567 COMPLD
"OC3-20:LOCN=NEND,LPBKTYPE=FACILITY"
"OC3-28:LOCN=NEND,LPBKTYPE=FACILITY"
"OC3-30:LOCN=NEND,LPBKTYPE=FACILITY"
/* RTRV-LPBK-OC3::OC3-17&&-32 [Pad567] (2) */
;
```

RELATED COMMANDS

```
ENT-OC3
OPR-LPBK-OC3
RLS-LPBK-OC3
RTRV-COND-OC3
RTRV-LPBK-OC3
RTRV-OC3
```

COMMAND CODE: **RTRV-LPBK-STs1**
COMMAND NAME: **RETRIEVE LOOPBACK STs-1**

PURPOSE

The RTRV-LPBK-STs1 command retrieves the STs-1 ports that are in a loopback within the specified range of STs-1 AIDs. The command is executed regardless of the provisioning of the specified ports.

The successful response for a RTRV-LPBK-STs1 contains one line of parsable data, in ascending order, for each STs-1 port that is in a loopback within the specified range of AIDs. No output data is returned for an AID that is not in a loopback. In addition, no line of parsable output data is returned if the specified STs-1 is embedded within a protection OC3 or OC12.

A RTRV-LPBK-STs1 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-LPBK-STs1: [TID] :AID: [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	STS1_AID: {EC1STS1-{1-3840}} (EC1STS1-EC1/STS1#) {OC3STS1-{1-2240}-{1-3}} (OC3STS1-OC3#-STS1#) {OC12STS1-{1-560}-{1-4}-{1-3}} (OC12STS1-OC12#-STM1#-STS1#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: STS1 AID, identifies an STs-1 port or a range of STs-1 ports.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
["<AID>:LOCN=<value>,LPBKTYPE=<value>,SUPPORTING=<value>"]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

AID	STS1_AID: {EC1STS1-{1-3840}} (EC1STS1-EC1/STS1#) {OC3STS1-{1-2240}-{1-3}} (OC3STS1-OC3#-STS1#) {OC12STS1-{1-560}-{1-4}-{1-3}} (OC12STS1-OC12#-STM1#-STS1#) STS1 AID, identifies an STs-1 port that is in a loopback.
LOCN=	{NEND} Location, indicates the location (near-end) of the loopback. Value is: NEND Near-End, indicates the loopback is in the system.

LPBKTYPE= {MATRIX, PAYLOAD}
Loopback Type, indicates the type of loopback. Value is:
MATRIX Matrix, indicates an STS-1 loopback in the system matrix.
PAYLOAD Payload, indicates an STS-1 loopback in the RPB module.

SUPPORTING={N, Y}
Supporting entity's Loopback Status, indicates whether the supporting OC12, OC3 or EC1 of the specified STS-1 is in loopback. Values are:
Y Yes, the supporting entity is in a loopback.
N No, the supporting entity is not in a loopback.

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC Input, Invalid ACcess identifier
SDBE Status, internal Data Base Error
/* TP Database Error: <ERROR-STRING> for <AID-STRING> */
SROF Status, Requested Operation Failed

EXAMPLES

In the following example, all STS-1 ports between STS-1 ports OC3STS1-17-1 and OC3STS1-17-3 that are in a loopback are reported.

```
RTRV-LPBK-STs1::OC3STS1-17-1&&-3;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of Pad567. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed. The example assumes there are three STS-1 ports in a loopback within the specified range of ports.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pad567 COMPLD
"OC3STS1-17-1:LOCN=NEND,LPBKTYPE=MATRIX,SUPPORTING=N"
"OC3STS1-17-2:LOCN=NEND,LPBKTYPE=MATRIX,SUPPORTING=N"
"OC3STS1-17-3:LOCN=NEND,LPBKTYPE=MATRIX,SUPPORTING=N"
/* RTRV-LPBK-STs1::OC3STS1-17-1&&-3 [Pad567] (2) */
;
```

RELATED COMMANDS

ENT-STs1
OPR-LPBK-STs1
RLS-LPBK-STs1
RTRV-COND-STs1
RTRV-LPBK-STs1
RTRV-STs1

COMMAND CODE: **RTRV-LPBK-STS3C**
COMMAND NAME: **RETRIEVE LOOPBACK STS-3C**

PURPOSE

The RTRV-LPBK-STS3C command retrieves the STS-3C ports that are in a loopback within the specified range of STS-3C AIDs. The command is executed regardless of the provisioning of the specified ports.

The successful response for a RTRV-LPBK-STS3C contains one line of parsable data, in ascending order, for each STS-3C port that is in a loopback within the specified range of AIDs. No output data is returned for an AID that is not in a loopback. In addition, no line of parsable output data is returned if the specified STS-3C is embedded within a protection OC-3 or OC-12.

A RTRV-LPBK-STS3C command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-LPBK-STS3C: [TID] :AID: [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	STS3C_AID: {OC3STS3C-{1-2240}} (OC3STS3C-OC3#/STS3C#) {OC12STS3C-{1-560}-{1-4}} (OC12STS3C-OC12#-STM1/STS3C#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: STS3C AID, identifies an STS-3C port or a range of STS-3C ports.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
["<AID>:LOCN=<value>,LPBKTYPE=<value>"]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

AID	STS3C_AID: {OC3STS3C-{1-2240}} (OC3STS3C-OC3#/STS3C#) {OC12STS3C-{1-560}-{1-4}} (OC12STS3C-OC12#-STM1/STS3C#) STS3C AID, identifies an STS-3C port that is in a loopback.
LOCN=	{NEND} Location, indicates the location (near-end) of the loopback. Value is: NEND Near-End, indicates the loopback is in the system.
LPBKTYPE=	{MATRIX} Loopback Type, indicates the type of loopback. Value is: MATRIX Matrix, indicates an STS-3C loopback in the system matrix.

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
SDBE	Status, internal Data Base Error
	/*TP Database Error: <ERROR-STRING> for <AID-STRING>*/
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, all STS-3C ports between STS-3C ports OC3STS3C-1 and OC3STS3C-16 that are in a loopback are reported.

```
RTRV-LPBK-ST3C: :OC3STS3C-1&&-16;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of Pad567. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed. The example assumes there are three STS-3C ports in a loopback within the specified range of ports.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pad567 COMPLD
"OC3STS3C-4:LOCN=NEND,LPBKTYPE=MATRIX"
"OC3STS3C-16:LOCN=NEND,LPBKTYPE=MATRIX"
/* RTRV-LPBK-ST3C: :OC3STS3C-1&&-16 [Pad567] (2) */
;
```

RELATED COMMANDS

```
ENT-ST3C
OPR-LPBK-ST3C
RLS-LPBK-ST3C
RTRV-COND-ST3C
RTRV-ST3C
```

COMMAND CODE: **RTRV-LPBK-T1**
COMMAND NAME: **RETRIEVE LOOPBACK T1**

PURPOSE

The RTRV-LPBK-T1 command retrieves the DS1 ports that are in a loopback within the specified range of DS1 AIDs. If a DS1 port is in a loopback, parsable output data indicates the location of the loopback, the type of loopback, whether a C-bit loopback request is being received or transmitted, and whether any supporting DS3 is in a loopback. The command is executed regardless of the provisioning of the specified ports.

The successful response for a RTRV-LPBK-T1 contains one line of parsable data, in ascending order, for each DS1 port that is in a loopback within the specified range of AIDs. No output data is returned for an AID that is not in a loopback. In addition, no line of parsable output data is returned if the specified DS1 is embedded within a protection OC3.

A RTRV-LPBK-T1 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-LPBK-T1 : [TID] :AID: [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	DS1_AID: { T1-{1-59392} } (T1-DS1#) { T3T1-{1-4800}-{1-28} } (T3T1-DS3#-DS1#) { EC1T1-{1-3840}-{1-28} } (EC1T1-EC1/STS1/DS3#-DS1#) { OC3T1-{1-2240}-{1-3}-{1-28} } (OC3T1-OC3#-STS1/DS3#-DS1#) { OC12T1-{1-560}-{1-4}-{1-3}-{1-28} } (OC12T1-OC12#-STM1#-STS1/DS3#-DS1#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: DS1 AID, identifies a DS1 port or a range of DS1 ports.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
["<AID>:LOCN=<value>,LPBKTYPE=<value>,SUPPORTING=<value>,CBIT=<value>"]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

AID	DS1_AID: { T1-{1-59392} } (T1-DS1#) { T3T1-{1-4800}-{1-28} } (T3T1-DS3#-DS1#) { EC1T1-{1-3840}-{1-28} } (EC1T1-EC1/STS1/DS3#-DS1#) { OC3T1-{1-2240}-{1-3}-{1-28} } (OC3T1-OC3#-STS1/DS3#-DS1#) { OC12T1-{1-560}-{1-4}-{1-3}-{1-28} } (OC12T1-OC12#-STM1#-STS1/DS3#-DS1#) DS1 AID, identifies a DS1 port that is in a loopback.
-----	--

LOCN=	{FEND, NEND, NONE}	Location, indicates the location (near-end or far-end) where the loopback is established. Values are:
	FEND	Far-End, indicates that a C-bit loopback request is being transmitted in the supporting DS2 signal to loopback the specified DS1 at the far-end of the facility.
	NEND	Near-End, indicates that the system has established a loopback via an OPR-LPBK-T1.
	NONE	None, indicates that a C-bit loopback request is not being transmitted and the system has not established a loopback via an OPR-LPBK-T1.
LPBKTYPE=	{FACILITY, MATRIX, NONE}	Loopback Type; indicates the type of loopback. Values are:
	FACILITY	Facility, if LOCN of NEND, indicates a DS1 loopback at the receive-side (from the network) of the specified DS1 port, or if LOCN of FEND, indicates a C-bit loopback request is being transmitted.
	MATRIX	Matrix, indicates a DS1 loopback in the system matrix.
	NONE	None, indicates that a C-bit loopback request is not being transmitted and the system has not established a loopback via an OPR-LPBK-T1.
SUPPORTING=	{N, Y}	Supporting entity's Loopback Status, indicates whether the supporting DS3, OC-3, EC1, STS-1, or VT1.5 of an embedded DS1 is in loopback. Values are:
	Y	Yes, the supporting entity is in a loopback.
	N	No, the supporting entity is not in a loopback, or the specified DS1 port is not an embedded DS1.
CBIT=	{N, R, T, T&R}	C-Bit Loopback Status, indicates the transmit and receive C-bit loopback request status for the DS1. Values are:
	N	No, a C-bit loopback request is not being transmitted or received.
	R	Receiving, a C-bit loopback request is being received and the receive-side of the DS1 port is looped back.
	T	Transmitting, a C-bit loopback request is being transmitted.
	T&R	Transmitting and Receiving, a C-bit loopback request is being transmitted and a C-bit loopback request is being received and the receive-side of the DS1 port is looped back.

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

```

IIAC      Input, Invalid ACcess identifier
SDBE      Status, internal Data Base Error
          /* TP Database Error: <ERROR-STRING> for <AID-STRING> */
          /* CONN Database Error: <ERROR-STRING> for <AID-STRING> */

```

SROF Status, Requested Operation Failed

EXAMPLES

In the following example, all DS1 ports between DS1 ports T3T1-1175-1 and T3T1-1175-28 that are in a loopback are reported.

```
RTRV-LPBK-T1::T3T1-1175-1&&-28;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of Pad567. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed. The example assumes there are four DS1 ports in a loopback within the specified range of ports.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M Pad567 COMPLD  
"T3T1-1175-2:LOCN=NEND,LPBKTYPE=MATRIX,T3=Y,CBIT=N,SUPPORTING=N"  
"T3T1-1175-7:LOCN=NEND,LPBKTYPE=MATRIX,T3=N,CBIT=N,SUPPORTING=N"  
"T3T1-1175-15:LOCN=FEND,LPBKTYPE=FACILITY,T3=N,CBIT=T,SUPPORTING=N"  
"T3T1-1175-23:LOCN=NEND,LPBKTYPE=FACILITY,T3=N,CBIT=R,SUPPORTING=N"  
/* RTRV-LPBK-T1::T3T1-1175-1&&-28 [Pad567] (2) */  
;
```

RELATED COMMANDS

```
ENT-T1  
OPR-LPBK-T1  
RLS-LPBK-T1  
RTRV-COND-T1  
RTRV-T1
```


COMMAND CODE: **RTRV-LPBK-T3**
COMMAND NAME: **RETRIEVE LOOPBACK T3**

PURPOSE

The RTRV-LPBK-T3 command retrieves the DS3 ports that are in a loopback within the specified range of DS3 AIDs. The command is executed regardless of the provisioning of the specified ports.

The successful response for a RTRV-LPBK-T3 contains one line of parsable data, in ascending order, for each DS3 port that is in a loopback within the specified range of AIDs. No output data is returned for an AID that is not in a loopback. In addition, no line of parsable output data is returned if the specified DS3 is embedded within a protection OC3.

A RTRV-LPBK-T3 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-LPBK-T3 : [TID] :AID: [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	DS3_AID: {T3-{1-4800}} (T3-DS3#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: DS3 AID, identifies a DS3 port or a range of DS3 ports.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
["<AID>:LOCN=<value>,LPBKTYPE=<value>"]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

AID	DS3_AID: {T3-{1-4800}} (T3-DS3#) DS3 AID, identifies a DS3 port that is in a loopback.
LOCN=	{NEND} Location, indicates the location (near-end) of the loopback. Value is: NEND Near-End, indicates the loopback is in the system.
LPBKTYPE=	{FACILITY,MATRIX} Loopback Type, indicates the type of loopback. Value is: FACILITY Facility, indicates a DS3 loopback at the receive-side (from the network) of the specified DS3 port. MATRIX Matrix, specifies a DS3 loopback in the system matrix.

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
SDBE	Status, internal Data Base Error
	/* TP Database Error: <ERROR-STRING> for <AID-STRING> */
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, all DS3 ports between DS3 ports 8–1 and 8–48 that are in a loopback are reported.

```
RTRV-LPBK-T3::8-1&&-48;

<SID> <YY-MM-DD> <HH:MM:SS>
M Pad567 COMPLD
"8-4:LOCN=NEND,LPBKTYPE=FACILITY"
"8-16:LOCN=NEND,LPBKTYPE=FACILITY"
"8-40:LOCN=NEND,LPBKTYPE=FACILITY"
/* RTRV-LPBK-T3::8-1&&-48 [Pad567] (2) */
;
```

RELATED COMMANDS

```
ENT-T3
OPR-LPBK-T3
RLS-LPBK-T3
RTRV-COND-T3
RTRV-LPBK-T3
RTRV-T3
```


COMMAND CODE: **RTRV-LPBK-VT1**
COMMAND NAME: **RETRIEVE LOOPBACK VT1**

PURPOSE

The RTRV-LPBK-VT1 command retrieves the VT1.5 ports that are in a loopback within the specified range of VT1.5 AIDs. If a VT1.5 port is in a loopback, parsable output data indicates the location of the loopback, the type of loopback, and whether any supporting EC1, OC-3, or OC-12 port is in a loopback. The command is executed regardless of the provisioning of the specified ports.

The successful response for a RTRV-LPBK-VT1 contains one line of parsable data, in ascending order, for each VT1.5 port that is in a loopback within the specified range of AIDs. No output data is returned for an AID that is not in a loopback. In addition, no line of parsable output data is returned if the specified VT1.5 is embedded within a protection OC-3 or OC-12.

A RTRV-LPBK-VT1 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-LPBK-VT1 : [TID] : AID : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	VT1_AID: {EC1VT1-{1-3840}-{1-7}-{1-4}} (EC1VT1-EC1/STS1#-VTGrp#-VT1.5#) {OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}} (OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#) {OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}} (OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: VT1 AID, identifies a VT1.5 port or a range of VT1.5 ports.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
["<AID>:LOCN=<value>,LPBKTYPE=<value>,SUPPORTING=<value>"]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

AID	VT1_AID: {EC1VT1-{1-3840}-{1-7}-{1-4}} (EC1VT1-EC1/STS1#-VTGrp#-VT1.5#) {OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}} (OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#) {OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}} (OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#) VT1 AID, identifies a VT1.5 port that is in a loopback.
-----	---

LOCN= {NEND}
Location, indicates the location (near-end or far-end) where the loopback is established.
Values are:
NEND Near-End, indicates that the loopback is in the system.

LPBKTYPE= {MATRIX, PAYLOAD}
Loopback Type; indicates the type of loopback. Values are:
MATRIX Matrix, indicates a VT1.5 loopback in the system matrix.
PAYLOAD Payload, indicates a VT1.5 loopback in the RPB module.

SUPPORTING={N, Y}
Supporting entity's Loopback Status, indicates whether the supporting OC-12, OC-3, EC1, or STS-1 of an embedded VT1.5 is in loopback. Values are:
Y Yes, the supporting entity is in a loopback.
N No, the supporting entity is not in a loopback.

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
/* <Informational Error Description Text> */
/* <Expanded Error Code Description> */
/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC Input, Invalid ACcess identifier
SDBE Status, internal Data Base Error
/* TP Database Error: <ERROR-STRING> for <AID-STRING> */
/* CONN Database Error: <ERROR-STRING> for <AID-STRING> */
SROF Status, Requested Operation Failed

EXAMPLES

In the following example, all VT1.5 ports between VT1.5 ports OC3VT1-3-3-1-1 and OC3VT1-3-3-1-4 that are in a loopback are reported.

```
RTRV-LPBK-VT1 : OC3VT1-3-3-1-1&&-4 ;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of Pad567. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed. The example assumes there are five VT1.5 ports in a loopback within the specified range of ports.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pad567 COMPLD
"OC3VT1-3-3-1-1:LOCN=NEND,LPBKTYPE=MATRIX,SUPPORTING=N"
"OC3VT1-3-3-1-2:LOCN=NEND,LPBKTYPE=MATRIX,SUPPORTING=N"
/* RTRV-LPBK-VT1 : OC3VT1-3-3-1-1&&-4 [Pad567] (2) */
;
```

RELATED COMMANDS

ENT-VT1
OPR-LPBK-VT1

OPR-LPBK-VT1
RLS-LPBK-VT1
RLS-LPBK-VT1
RTRV-COND-VT1
RTRV-LPBK-VT1
RTRV-VT1

COMMAND CODE: **RTRV-MAADDR**
COMMAND NAME: **RETRIEVE MANUAL AREA ADDRESS**

PURPOSE

The RTRV-MAADDR command retrieves the Manual Area Address of Layer 3 (network layer) of the SONET Data Communication Channel (DCC) network.

If the specified DSB is not provisioned, i.e., it is in UAS secondary state, the command completes successfully without producing any output.

A RTRV-MAADDR command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-MAADDR: [TID] :AID: [CTAG] : : [MANADNRNUM] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	EQUIPMENT_AID: {DSB-{6-9, 12-15, 18-21, 24-43, 104-111 , 112-135, 136-141 }-{1, 3}-{1-2}} Default: Entry Required Addressing: None Description: DSB AID, identifies the DSB on which the manual area addresses are being retrieved.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
MANADNRNUM	{1, 2, 3, ALL} Default: {1} Addressing: None Description: Manual Address Number, identifies the manual area address being retrieved. Name-defined values are: ALL All of the 3 Manual Area Addresses are retrieved.

SUCCESSFUL RESPONSE FORMAT

```

    <SID> <YY-MM-DD> <HH:MM:SS>
M  <CTAG> COMPLD
    "<AID>.:L3IDP1=<value>,L3DFI1=<value>,L3ORG1=<value>,L3RES1=<value>,
L3ROU1=<value>,L3IDP2=<value>,L3DFI2=<value>,L3ORG2=<value>,
L3RES2=<value>,L3ROU2=<value>,L3IDP3=<value>,L3DFI3=<value>,
L3ORG3=<value>,L3RES3=<value>,L3ROU3=<value>"
    [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

    <SID> <YY-MM-DD> <HH:MM:SS>
M  <CTAG> COMPLD
    ["<AID>.:L3IDP1=<value>,L3DFI1=<value>,L3ORG1=<value>,L3RES1=<value>,
L3ROU1=<value>,L3IDP2=<value>,L3DFI2=<value>,L3ORG2=<value>,
L3RES2=<value>,L3ROU2=<value>,L3IDP3=<value>,L3DFI3=<value>,
L3ORG3=<value>,L3RES3=<value>,L3ROU3=<value>"]
    [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

On successful completion of RTRV-MAADDR if the DSB is not in an OOS-MA state, the system will compare the Manual Area Address parameters in the database with those on the hardware and if any of the parameters are different, the system will print the parameters on the hardware in the second line, shown as optional above. If the DSB is in an OOS-MA state, only the parameters in the database will be displayed.

OUTPUT PARAMETERS

L3IDP1=	<p><6 ASCII HEXADECIMAL VALUES></p> <p>Layer 3 Initial Domain Part 1, identifies the Initial Domain Part of the NSAP pertaining to the 1st Manual Area Address. The value is two fields including the Authority and Format Identifier (AFI) which is 1 octet long concatenating with the Initial Domain Identifier (IDI) which is 2 octets long for a total of 3 octets. Each octet is specified in the form of pq, where p and q are the ASCII encoded hexadecimal.</p>
L3DFI1=	<p><2 ASCII HEXADECIMAL VALUES></p> <p>Layer 3 Domain Format Identifier 1, identifies the Domain Format Identifier Field of the NSAP pertaining to the 1st Manual Area Address. The value is 1 octet long and is specified in the form of pq, where p and q are the ASCII encoded hexadecimal.</p>
L3ORG1=	<p><6 ASCII HEXADECIMAL VALUES></p> <p>Layer 3 Organization Identifier 1, specifies the Organization Identifier within the NSAP pertaining to the 1st Manual Area Address. The value is 3 octets long and each is specified in the form of pq, where p and q are the ASCII encoded hexadecimal.</p>
L3RES1=	<p><4 ASCII HEXADECIMAL VALUES></p> <p>Layer 3 Reserved Space 1, specifies the Reserved Space within the NSAP pertaining to the 1st Manual Area Address. The value is 2 octets long and each is specified in the form of pq, where p and q are the ASCII encoded hexadecimal.</p>
L3ROU1=	<p><8 ASCII HEXADECIMAL VALUES></p> <p>Layer 3 Routing Domain 1, specifies both the Routing Domain of the NSAP (2 octets) and the area within the Routing Domain (2 octets) for a total of 4 octets pertaining to the 1st Manual Area Address. Each octet is specified in the form of pq, where p and q are the ASCII encoded hexadecimal.</p>
L3IDP2=	<p><6 ASCII HEXADECIMAL VALUES></p> <p>Layer 3 Initial Domain Part 2, identifies the Initial Domain Part of the NSAP pertaining to the 2nd Manual Area Address. The value is two fields including the Authority and Format Identifier (AFI) which is 1 octet long concatenating with the Initial Domain Identifier (IDI) which is 2 octets long for a total of 3 octets. Each octet is specified in the form of pq, where p and q are the ASCII encoded hexadecimal.</p>

L3DFI2=	<2 ASCII HEXADECIMAL VALUES> Layer 3 Domain Format Identifier 2, identifies the Domain Format Identifier Field of the NSAP pertaining to the 2nd Manual Area Address. The value is 1 octet long and is specified in the form of pq, where p and q are the ASCII encoded hexadecimal.
L3ORG2=	<6 ASCII HEXADECIMAL VALUES> Layer 3 Organization Identifier 2, specifies the Organization Identifier within the NSAP pertaining to the 2nd Manual Area Address. The value is 3 octets long and each is specified in the form of pq, where p and q are the ASCII encoded hexadecimal.
L3RES2=	<4 ASCII HEXADECIMAL VALUES> Layer 3 Reserved Space 2, specifies the Reserved Space within the NSAP pertaining to the 2nd Manual Area Address. The value is 2 octets long and each is specified in the form of pq, where p and q are the ASCII encoded hexadecimal.
L3ROU2=	<8 ASCII HEXADECIMAL VALUES> Layer 3 Routing Domain 2, specifies both the Routing Domain of the NSAP (2 octets) and the area within the Routing Domain (2 octets) for a total of 4 octets pertaining to the 2nd Manual Area Address. Each octet is specified in the form of pq, where p and q are the ASCII encoded hexadecimal.
L3IDP3=	<6 ASCII HEXADECIMAL VALUES> Layer 3 Initial Domain Part 3, identifies the Initial Domain Part of the NSAP pertaining to the 3rd Manual Area Address. The value is two fields including the Authority and Format Identifier (AFI) which is 1 octet long concatenating with the Initial Domain Identifier (IDI) which is 2 octets long for a total of 3 octets. Each octet is specified in the form of pq, where p and q are the ASCII encoded hexadecimal.
L3DFI3=	<2 ASCII HEXADECIMAL VALUES> Layer 3 Domain Format Identifier 3, identifies the Domain Format Identifier Field of the NSAP pertaining to the 3rd Manual Area Address. The value is 1 octet long and is specified in the form of pq, where p and q are the ASCII encoded hexadecimal.
L3ORG3=	<6 ASCII HEXADECIMAL VALUES> Layer 3 Organization Identifier 3, specifies the Organization Identifier within the NSAP pertaining to the 3rd Manual Area Address. The value is 3 octets long and each is specified in the form of pq, where p and q are the ASCII encoded hexadecimal.
L3RES3=	<4 ASCII HEXADECIMAL VALUES> Layer 3 Reserved Space 3, specifies the Reserved Space within the NSAP pertaining to the 3rd Manual Area Address. The value is 2 octets long and each is specified in the form of pq, where p and q are the ASCII encoded hexadecimal.
L3ROU3=	<8 ASCII HEXADECIMAL VALUES> Layer 3 Routing Domain 3, specifies both the Routing Domain of the NSAP (2 octets) and the area within the Routing Domain (2 octets) for a total of 4 octets pertaining to the 3rd Manual Area Address. Each octet is specified in the form of pq, where p and q are the ASCII encoded hexadecimal.

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid /* Invalid parameter in the input command */
IIAC	Input, Invalid ACcess identifier
SDBE	Status, internal Data Base Error /* Unable to read the LANDCC database. */ /* Unable to read the shelf database. */ /* Invalid Manual Area Address number was detected */
SROF	Status, Requested Operation Failed /* Shelf is not provisioned. */ /* Unable to get an AUX buffer. */ /* Invalid parameter was detected by Level 2 processor. */ /* Level 2 processor could not communicate with Level 3. */ /* Invalid return code was detected by NMI software. */ /* Buffer too small. */ /* NMI Uninitialized. */ /* Unknown CS return code. */ /* No manual address provisioned. */ /* Invalid State. */ /* Invalid Id. */ /* Unsupported database. */ /* Invalid event function. */ /* Statistics requested failed. */ /* Invalid parameter */ /* OSI layer management circuit not initialized. */ /* Lower layer OSI management error occurred. */ /* OSI layer management invalid operation. */ /* OSI layer management invalid function. */ /* OSI layer management invlaid password type. */ /* OSI layer management invalid circuit type. */ /* OSI layer management unable to get request mailbox handle. */ /* OSI layer management unable to get response mailbox handle. */ /* OSI layer management unable to allocate message buffer. */ /* OSI layer management unable to deallocate message buffer. */ /* OSI layer management unable to send a message. */ /* OSI layer management unable to receive message. */ /* OSI layer management unable to create a lock. */ /* OSI layer management unable to lock. */ /* OSI layer management unable to unlock. */ /* OSI layer management initialization failure. */ /* OSI layer management deadman timer expired. */ /* TARP management allocation message failure. */ /* TARP management deallocation message failure. */ /* TARP management message send failure. */ /* TARP management unable to get mailbox handle. */ /* TARP TID resolved. */ /* TARP TID resolved locally. */ /* TARP TID unresolved locally. */ /* TARP TID unresolved level 1. */


```

/* TARP TID error recovery. */
/* TARP TID unresolved level 2. */
/* TARP NSAP resolved locally. */
/* TARP TEF response. */
/* TARP TEF timer expired. */
/* TARP delete cache entry failure. */
/* TARP addition cache entry failure. */
/* TARP cache entry exists. */
/* TARP cache full. */
/* TARP cache entry changed. */
/* TARP addition LDB entry failure. */
/* TARP LDB entry exists. */
/* TARP delete LDB entry failure. */
/* TARP LDB return. */
/* TARP not started. */
/* TARP not enabled. */
/* TARP stopped. */
/* TARP exceeded max connections. */
/* TARP provisioned parameters return. */
/* TARP provisioned pdu fields return. */
/* TARP exceeded max adjacencies. */
/* TARP adjacency exists. */
/* TARP delete adjacency failure. */
/* TARP management error. */
/* TARP NSAP error. */
/* TARP TID error. */
/* TARP No level1 adjacencies. */
/* TARP no adjacencies. */
/* TARP cache return. */
/* TARP adjacency return. */
/* Invalid error response was received from L2P. */

```

EXAMPLES

In the following example, all of the Manual Area Addresses of Layer 3 of the DCC for DSB-6-1-2 are being retrieved.

```

RTRV-MAADDR::DSB-6-1-2::ALL;

<SID> <YY-MM-DD> <HH:MM:SS>
M P4d008 COMPLD
    "DSB-6-1-2::L3IDP1= A100BC,L3DFI1= 80,L3ORG1= 0,L3RES1= 0,L3ROU1=
0,L3IDP2= 0,L3DFI2= FA,L3ORG2= 0,L3RES2= 0,L3ROU2= 0,L3IDP3= 0,L3DFI3=
0,L3ORG3= 2,L3RES3= 0,L3ROU3= 0"
/* RTRV-MAADDR::DSB-6-1-2::ALL [P4d008] (1) */

```

RELATED COMMANDS

```

DLT-MAADDR
ED-MAADDR
ENT-MAADDR

```


COMMAND CODE: **RTRV-MON-CPORT**
COMMAND NAME: **RETRIEVE MONITORING CONTROL
PORT**

PURPOSE

The RTRV-MON-CPORT command retrieves the list of CPORTs (Control Ports) being monitored for CPORT activity by the specified UID.

A user can only retrieve the user's own list of CPORTs being monitored for CPORT activity. The system administrator (UID of "system" or "SYSTEM") or Alcatel account user can retrieve the list of CPORTs being monitored for CPORT activity for all users.

The successful response for a RTRV-MON-CPORT command contains one or more lines of non-parsable output data indicating whether the identified UID is monitoring CPORT activity and the list of CPORTs being monitored for CPORT activity (established for the user by the START-MON-CPORT and STOP-MON-CPORT commands). If a user is provisioned to monitor CPORT activity, a separate line of output data is provided for each CPORT being monitored for CPORT activity. If the system administrator or Alcatel account user specifies a UID of ALL, a separate line of output data is provided for each CPORT being monitored for CPORT activity for each user provisioned for CPORT monitoring.

A RTRV-MON-CPORT command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-MON-CPORT: [TID] :: [CTAG] :: [UID] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
UID	{ALL, <5-12 VALID UID CHARACTERS>, <NoVal>} Default: <NoVal> Addressing: None Description: User Identifier, specifies the UID for which the report is to be generated. Values are: ALL All UIDs monitoring CPORT activity. (Only the "system", "SYSTEM", or Alcatel account user can specify ALL.) <VALID UID> UID of a user. (Only the "system", "SYSTEM", or Alcatel account user can specify another user's UID.) <NoVal> No Value, specifies the UID of the user executing the command. Restrictions: RTRV-MON-CPORT is denied if UID of {ALL, <Another User's UID>} is entered and the user's UCAL is {1-30} (refer to ENT-USER or ED-PRVG-USER).

SUCCESSFUL RESPONSE FORMAT

The following successful response format is used if a CPORT monitoring activity is being retrieved for a single user (either by specifying a UID value for a specific user or a UID value of <NoVal>).

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* User <UID> is not monitoring any CPORTs */]
  [/* user <UID>: CPORT Monitoring <MONACT> list is set to */]
  [/* <CPORT> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

The following successful response format is used if a CPORT monitoring activity is being retrieved for all users (by specifying a UID value of ALL).

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* No User is monitoring any CPORTs */]
  [/* user <UID>: CPORT Monitoring <MONACT> list is set to */]
  [/* <CPORT> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

UID	<User_ID> User Identifier, identifies the UID of the user monitoring the CPORT activity.
MONACT	{ACTIVE, INACTIVE} CPORT Monitoring Active Indicator, indicates whether monitoring of CPORT activity is active (the user is not subscribed to an OSL of W – refer to ENT-USER or ED-PRVG-USER). Values are: ACTIVE CPORT Monitoring Active, the indicated UID is provisioned for CPORT activity monitoring and the user is not subscribed to an OSL of W. INACTIVE CPORT Monitoring Inactive, the indicated UID is provisioned for CPORT activity monitoring but the user is subscribed to an OSL of W.
CPORT	{1-12} Control Port, identifies the physical control port that is being CPORT monitored.

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid /* Illegal Input: UID length */ /* Illegal Input: UID */
IPNV	Input, Parameter Not Valid /* Please use your own user ID or omit the UID parameter */
SDBE	Status, internal Data Base Error /* USDB read error – status = <status number> */
SROF	Status, Requested Operation Failed /* UID not found */ /* User not found in USDB */

EXAMPLES

In the following example, USER15 retrieves the list of CPORTs and X.25 virtual channels the user is monitoring for CPORT activity.

```
RTRV-MON-CPORT:::::USER15;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71061. The response headers would contain the provisioned Site ID of the system, and the date and time the commands were executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P71061 COMPLD
/* user USER15: CPORT Monitoring ACTIVE list is set to */
/* 2 */
/* 4 */
/* RTRV-MON-CPORT:::::USER15 [P71061] (1) */
;
```

In the following example, list of CPORTs being monitored for CPORT activity by all users is retrieved. The example assumes the command is executed by the system administrator (UID of "system").

```
RTRV-MON-CPORT:::::ALL;
```

The output response, shown below, assumes CID 5 was used to enter the command and a system generated CTAG value of P71065. The response headers would contain the provisioned Site ID of the system, and the date and time the commands were executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P71065 COMPLD
/* user USER4: CPORT Monitoring ACTIVE list is set to */
/* 1 */
/* user USER15: CPORT Monitoring ACTIVE list is set to */
/* 2 */
/* 4 */
/* user USER20: CPORT Monitoring INACTIVE list is set to */
/* 2 */
/* 3 */
/* RTRV-MON-CPORT:::::ALL [P71065] (1) */
;
```

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Issue 01, February 2005

RELATED COMMANDS

ENT-USER

ED-PRVG-USER

RTRV-PRVG-USER

START-MON-CPORT

STOP-MON-CPORT

COMMAND CODE: **RTRV-MTX**
COMMAND NAME: **RETRIEVE MATRIX COPY**

PURPOSE

The RTRV-MTX command retrieves all the parameters that pertain to both matrix copies, as to the type of the modules used in the end stages and center stages.

This command is very useful during an upgrade of the matrix from one size to another.

A RTRV-MTX command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-MTX: [TID] :: [CTAG] ;

INPUT PARAMETERS

TID	< 1–20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1–6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

The output response format is:

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
"COPY0:<MTXTYPE>,<ES1TYPE>,[<ES2TYPE>],[<ES3TYPE>],[<ES4TYPE>],
[<ES5TYPE>]<CS1TYPE>,<CS2TYPE>"
"COPY1:<MTXTYPE>,<ES1TYPE>,[<ES2TYPE>],[<ES3TYPE>],[<ES4TYPE>],
[<ES5TYPE>]<CS1TYPE>,<CS2TYPE>"
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

COPY0	Matrix related values for Copy 0.
COPY1	Matrix related values for Copy 1.
CS1TYPE	{M16, M40} Center Stage 1 Type. For 240–port LMC systems, indicates the type of CS modules in bay 5. For other LMC systems, indicates the type of CS modules in bay 2 shelf 3 and bay 3 shelf 3. For 240–port LMC systems, the only valid CS1TYPE value is M40; otherwise, valid values are: M16 The center stage shelves are provisioned for M16 circuit packs. M40 The center stage shelves are provisioned for M40 circuit packs.
CS2TYPE	{M40} Center Stage 2 Type. Indicates the type of CS modules in bay 2, shelf 1 and bay 3, shelf 1. Values are: M40 The center stage shelves are provisioned for M40 circuit packs.

ES1TYPE	{M16,M32}	End Stage 1 Type. For 240-port LMC systems, indicates the type of ES modules in bay 5. For other LMC systems, indicates the type of ES modules in bays 4 and 5. For 240-port LMC systems, the only valid ES1TYPE value is M32; otherwise, valid values are:
	M16	The end stage shelves are provisioned for M16 circuit packs. No value is reported if the end stage is not provisioned.
	M32	The end stage shelves are provisioned for M32 circuit packs. No value is reported if the end stage is not provisioned.
ES2TYPE	{M16,M32}	End Stage 2 Type. Indicates the type of ES modules in bays 10 and 11. Values are:
	M16	The end stage shelves are provisioned for M16 circuit packs. No value is reported if the end stage is not provisioned.
	M32	The end stage shelves are provisioned for M32 circuit packs. No value is reported if the end stage is not provisioned.
ES3TYPE	{M16,M32}	End Stage 3 Type. Indicates the type of ES modules in bays 16 and 17. An ES3TYPE value is only reported when the system contains at least four clovers. Values are:
	M16	The end stage shelves are provisioned for M16 circuit packs. No value is reported if the end stage is not provisioned.
	M32	The end stage shelves are provisioned for M32 circuit packs. No value is reported if the end stage is not provisioned.
ES4TYPE	{M16,M32}	End Stage 4 Type. Indicates the type of ES modules in bays 22 and 23. An ES4TYPE value is only reported when the system contains at least four clovers. Values are:
	M16	The end stage shelves are provisioned for M16 circuit packs. No value is reported if the end stage is not provisioned.
	M32	The end stage shelves are provisioned for M32 circuit packs. No value is reported if the end stage is not provisioned.
ES5TYPE	{M32}	End Stage 4 Type. Indicates the type of ES modules in bays 102 and 103. An ES5TYPE value is only reported when the system contains four clovers. Values are:
	M32	The end stage shelves are provisioned for M32 circuit packs. No value is reported if the end stage is not provisioned.
MTXTYPE	{240,672,1344,2688,3360}	Matrix Type, indicates the maximum matrix size in DS3 equivalent ports. Values are:
	240	Maximum matrix size is 240 DS3 equivalent ports.
	672	Maximum matrix size is 672 DS3 equivalent ports.
	1344	Maximum matrix size is 1344 DS3 equivalent ports.
	2688	Maximum matrix size is 2688 DS3 equivalent ports.
	3360	Maximum matrix size is 3360 DS3 equivalent ports.

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```


ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

SROF Status, Requested Operation Failed
 /* Error reading database for card <AID> */

EXAMPLES

In the following example, retrieval of the status of the copy0 and copy1 of the matrix, is provided .

RTRV-MTX;

The output response shown indicates that the first two end stages have M16 modules and the center stage has M40 modules and the matrix is a 672 DS3 equivalent port system.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pfc517 COMPLD
"COPY0:672,M16,M16,,,M40"
"COPY1:672,M16,M16,,,M40"
/* RTRV-MTX [Pfc517] (1) */
;
```

RELATED COMMANDS

ALW-FL-EQPT
DGN-EQPT
DLT-EQPT
ED-EQPT
ENT-EQPT
FLTLOC-PATH-T1
INH-FL-EQPT
RMV-EQPT
RST-EQPT
RTRV-DGN-STATUS
RTRV-EQPT
RTRV-PATH-T1
RTRV-STATE-EQPT
RTRV-XIDMISM

COMMAND CODE: **RTRV-NODEID**
COMMAND NAME: **RETRIEVE (BPM) NODE IDENTIFIER**

PURPOSE

The RTRV-NODEID command retrieves the provisioned value of the Node Identifier transmitted in any Binary Performance Monitoring (BPM) report message.

A RTRV-NODEID command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-NODEID: [TID] :: [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  "<NODEID>"
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

NODEID	{0-65535} (BPM) Node Identifier, indicates the provisioned value of the Node ID transmitted in any Binary PM report message.
--------	---

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

SROF	Status, Requested Operation Failed /* Error retrieving Node ID from the platparm database. */
------	--

EXAMPLES

In the following example, the Node ID transmitted in any Binary PM report message is retrieved.

```
RTRV-NODEID;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71042. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M P71042 COMPLD  
"320"  
/* RTRV-NODEID [P71042] (1) */  
;
```

RELATED COMMANDS

```
ED-CID  
ED-PRVG-USER  
ENT-CID  
ENT-USER  
SCHED-PMREPT-EC1  
SCHED-PMREPT-F3  
SCHED-PMREPT-STS1  
SCHED-PMREPT-STS3C  
SCHED-PMREPT-T1  
SCHED-PMREPT-T3  
SCHED-PMREPT-VT1  
RTRV-PMSCHED-EC1  
RTRV-PMSCHED-F3  
RTRV-PMSCHED-STS1  
RTRV-PMSCHED-STS3C  
RTRV-PMSCHED-T1  
RTRV-PMSCHED-T3  
RTRV-PMSCHED-VT1  
RTRV-PRVG-USER  
RTRV-CID  
SET-NODEID
```

COMMAND CODE: **RTRV-NSAP**
COMMAND NAME: **RETRIEVE NETWORK SERVICE ACCESS POINT**

PURPOSE

The RTRV-NSAP command instructs the 1631 SX to provide Network Service Access Point (NSAP) information which is supported by Layer 3 (network layer) of the SONET Data Communication Channel (DCC) network. This command retrieves the list of neighboring network elements (NEs) including the paths and all the NE addresses in the Level 1 and/or Level 2 Intermediate System (IS) area.

If the specified DSB is not provisioned, i.e., it is in UAS secondary state, the command completes successfully without producing any output.

A RTRV-NSAP command is denied if:

- The specified DSB is in UEQ or MEA secondary state or OOS-MA primary state.
- An invalid parameter value is entered.

INPUT FORMAT

RTRV-NSAP: [TID] :AID: [CTAG] : : [ISTYPE] , [NSAP] ;

INPUT PARAMETERS

TID	<1-20 VALID TID CHARACTERS> Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.				
AID	EQUIPMENT_AID: {DSB-{6-9, 12-15, 18-21, 24-43, 104-111 , 112-135, 136-141 }-{1, 3}-{1-2}} Default: Entry Required Addressing: None Description: DSB AID, identifies the DSB of the circuit router to retrieve the NSAPs of the Level 1 or Level 1 and Level 2 neighboring systems.				
CTAG	<1-6 VALID CTAG CHARACTERS> Default: <System Assigned CTAG Value> Addressing: None Description: Correlation Tag, associates input command with its output responses.				
ISTYPE	{DRCT, L1ROU} Default: {DRCT} Addressing: None Description: Intermediate System Type, specifies the type of Intermediate System (IS). <table> <tr> <td>DRCT</td><td>Direct, Specifies directly reachable Level 1 and Level 2 Intermediate Systems (IS).</td></tr> <tr> <td>L1ROU</td><td>Level 1 Router, specifies all reachable Level 1 Intermediate Systems (IS). The specified L1ROU retrieves the NSAPs of all the reachable Level 1 Intermediate Systems which includes NEs, Gateway NEs or Mediation Devices.</td></tr> </table>	DRCT	Direct, Specifies directly reachable Level 1 and Level 2 Intermediate Systems (IS).	L1ROU	Level 1 Router, specifies all reachable Level 1 Intermediate Systems (IS). The specified L1ROU retrieves the NSAPs of all the reachable Level 1 Intermediate Systems which includes NEs, Gateway NEs or Mediation Devices.
DRCT	Direct, Specifies directly reachable Level 1 and Level 2 Intermediate Systems (IS).				
L1ROU	Level 1 Router, specifies all reachable Level 1 Intermediate Systems (IS). The specified L1ROU retrieves the NSAPs of all the reachable Level 1 Intermediate Systems which includes NEs, Gateway NEs or Mediation Devices.				

NSAP	<40 ASCII HEXADECIMAL VALUES>
Default:	None
Addressing:	None
Description:	Network Service Access Point, specifies the Network Service Access Point (NSAP) address of the neighboring NE to be searched in the automatic adjacency table. Values are 20 octets long encoded as 40 ASCII hexadecimal. The user enters the values in either upper case or lower case (i.e. case sensitive). If NSAP is not specified, all the NSAPs in the Level 1 or both Level 1 and Level 2 routing areas depending on the ISTYPE are retrieved.
Restrictions:	RTRV-NSAP is denied if the specified NSAP is less than 40 ASCII characters.

SUCCESSFUL RESPONSE FORMAT

The specified AID in the output response will match the entered AID. The NSAP value is 20 octets long and is specified in the form of pq, where p and q are the ASCII encoded hexadecimal. Each NSAP will occupy 40 characters on each output response line.

Note: The first format line of output data is the NSAP of the DSB of the local NSAP being reported for L1ROU. The remaining format lines of output data is the remaining list of neighboring NSAPs being reported.

The following successful response format is one response line for each NSAP when ISTYPE is L1ROU.

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  "1,<AID>:<NSAP>"
  "2,<AID>:<NSAP>"
  "3,<AID>:<NSAP>"
  ...
  "N,<AID>:<NSAP>"
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

The following successful response format is one response line for each NSAP when ISTYPE is ALL.

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  "1,<AID>: [<SDCC>|<LDCC>|<LAN>,<ISLEVEL>,<ENABLE>,<NSAP>]"
  "2,<AID>: [<SDCC>|<LDCC>|<LAN>,<ISLEVEL>,<ENABLE>,<NSAP>]"
  "3,<AID>: [<SDCC>|<LDCC>|<LAN>,<ISLEVEL>,<ENABLE>,<NSAP>]"
  ...
  "N,<AID>: [<SDCC>|<LDCC>|<LAN>,<ISLEVEL>,<ENABLE>,<NSAP>]"
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

OUTPUT PARAMETERS

AID	<0-40 ASCII HEXADECIMAL VALUES> Equipment AID, identifies the equipment entity.				
LDCC	Line DCC, specifies the LDCC type is retrieved in the adjacency table.				
SDCC	Section DCC, specifies the SDCC type is retrieved in the adjacency table.				
LAN	Local Area Network, specifies the LAN is retrieved in the adjacency table.				
ENABLE	{N, Y} Enable, determines if the TARP propagation to the NE specified by the NSAP parameter is enabled or disabled. Values are: <table> <tr> <td>N</td><td>No, specifies the TARP propagation to the NE in the NSAP parameter is disabled.</td></tr> <tr> <td>Y</td><td>Yes, specifies the TARP propagation to the NE in the NSAP parameter is enabled.</td></tr> </table>	N	No, specifies the TARP propagation to the NE in the NSAP parameter is disabled.	Y	Yes, specifies the TARP propagation to the NE in the NSAP parameter is enabled.
N	No, specifies the TARP propagation to the NE in the NSAP parameter is disabled.				
Y	Yes, specifies the TARP propagation to the NE in the NSAP parameter is enabled.				

ISLEVEL	{1, 2, BOTH} Intermediate System Level, determines the IS Level for which the TARP adjacency table is being modified. 1 NSAP is a level 1 adjacency. 2 NSAP is a level 2 adjacency. BOTH NSAP is both level 1 and level 2 adjacency.
NSAP	<40 ASCII HEXADECIMAL VALUES> Network Service Access Point, specifies the Network Service Access Point (NSAP) address. Values are 20 octets long encoded as 40 ASCII hexadecimals.

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid /* Invalid parameter in the input command */ /* Error reading input for NSAP */ /* NSAP address must be 40 characters long. */
IIAC	Input, Invalid ACcess identifier
SARB	Status, All Resources Busy /* Command already in progress on the card. */
SDBE	Status, internal Data Base Error /* Unable to read the shelf database. */ /* Unable to read the LANDCC database. */
SNVS	Status, Not in Valid State /* DSB is in an invalid state. */
SROF	Status, Requested Operation Failed /* Shelf is not provisioned. */ /* Unable to get an AUX buffer. */ /* Invalid parameter was detected by Level 2 processor. */ /* Level 2 processor could not communicate with Level 3. */ /* Invalid return code was detected by NMI software. */ /* Buffer too small. */ /* NMI Uninitialized. */ /* Unknown CS return code. */ /* No manual address provisioned. */ /* Invalid State. */ /* Invalid Id. */ /* Unsupported database. */ /* Invalid event function. */ /* Statistics requested failed. */ /* Invalid parameter */ /* OSI layer management circuit not initialized. */

/* Lower layer OSI management error occurred. */
/* OSI layer management invalid operation. */
/* OSI layer management invalid function. */
/* OSI layer management invlaid password type. */
/* OSI layer management invalid circuit type. */
/* OSI layer management unable to get request mailbox handle. */
/* OSI layer management unable to get response mailbox handle. */
/* OSI layer management unable to allocate message buffer. */
/* OSI layer management unable to deallocate message buffer. */
/* OSI layer management unable to send a message. */
/* OSI layer management unable to receive message. */
/* OSI layer management unable to create a lock. */
/* OSI layer management unable to lock. */
/* OSI layer management unable to unlock. */
/* OSI layer management initialization failure. */
/* OSI layer management deadman timer expired. */
/* TARP management allocation message failure. */
/* TARP management deallocation message failure. */
/* TARP management message send failure. */
/* TARP management unable to get mailbox handle. */
/* TARP TID resolved. */
/* TARP TID resolved locally. */
/* TARP TID unresolved locally. */
/* TARP TID unresolved level 1. */
/* TARP TID error recovery. */
/* TARP TID unresolved level 2. */
/* TARP NSAP resolved locally. */
/* TARP NSAP unresolved locally. */
/* TARP TEF response. */
/* TARP TEF timer expired. */
/* TARP delete cache entry failure. */
/* TARP addition cache entry failure. */
/* TARP cache entry exists. */
/* TARP cache full. */
/* TARP cache entry changed. */
/* TARP addtion LDB entry failure. */
/* TARP LDB entry exists. */
/* TARP delete LDB entry failure. */
/* TARP LDB return. */
/* TARP not started. */
/* TARP not enabled. */
/* TARP stopped. */
/* TARP exceeded max connections. */
/* TARP provisioned parameters return. */
/* TARP provisioned pdu fields return. */
/* TARP exceeded max adjacencies. */
/* TARP adjacency exists. */
/* TARP delete adjacency failure. */
/* TARP management error. */
/* TARP NSAP error. */
/* TARP TID error. */
/* TARP No level1 adjacencies. */


```
/* TARP no adjacencies. */
/* TARP cache return. */
/* TARP adjacency return. */
/* Invalid error response was received from L2P. */
/* Error opening report file. */
/* Error accessing report file. */
/* Error printing report file. */
```

EXAMPLES

In the following example, the list of neighboring NEs and all the NE addresses in the Level 1 IS area are being retrieved.

```
RTRV-NSAP::DSB-9-1-2>::L1ROU;

LMC4   99-10-04  11:45:06
M    P4d290 COMPLD
      "1,DSB-9-1-2:39840F800000000000000000000000000037D11290700"
      "2,DSB-9-1-2:39840F800000000000000000000000000407200659600"
      "3,DSB-9-1-2:39840F80000000000000000000000000040720065AC00"
      "4,DSB-9-1-2:39840F8000000000000000000000000008006A1B726E00"
      "5,DSB-9-1-2:39840F8000000000000000000000000004072005E6100"
      "6,DSB-9-1-2:39840F80000000000000000000000000040072005E4D00"
      "7,DSB-9-1-2:39840F8000000000000000000000000008006A1B76C800"
      "8,DSB-9-1-2:39840F800000000000000000000000000037D100A6500"
      "9,DSB-9-1-2:39840F800000000000000000000000000037D11290400"
      "10,DSB-9-1-2:39840F800000000000000000000000000037D11290B00"
      "11,DSB-9-1-2:39840F800000000000000000000000000037D1188F300"
      "12,DSB-9-1-2:39840F800000000000000000000000000037D1188F600"
      "13,DSB-9-1-2:39840F800000000000000000000000000040720046A800"
      "14,DSB-9-1-2:39840F800000000000000000000000000407200604400"
      "15,DSB-9-1-2:39840F800000000000000000000000000037D1119DC00"
      "16,DSB-9-1-2:39840F800000000000000000000000000037D1119DD00"
      "17,DSB-9-1-2:39840F800000000000000000000000000037D1128F500"
      "18,DSB-9-1-2:39840F800000000000000000000000000037D1128F900"
      "19,DSB-9-1-2:39840F800000000000000000000000000037D1128FD00"
      "20,DSB-9-1-2:39840F800000000000000000000000000037D108A8800"
/* RTRV-NSAP::DSB-9-1-2>::L1ROU, [P4d290] (8-3) */
```

RELATED COMMANDS

DLT-TARPADJ
ED-TARPADJ
ENT-TARPADJ
RTRV-TARPADJ

COMMAND CODE: **RTRV-OC12**
COMMAND NAME: **RETRIEVE OC-12**

PURPOSE

The RTRV-OC12 command retrieves the provisioned parameter values, supporting I/O circuit pack AID, near end and far end facility alarm conditions, and current PST,SST state for the specified OC-12 port. The OC-12 port's current provisioned values and conditions (if provisioned), and state are retrieved from the system database. The command is executed regardless of the state of the OC-12.

The successful response for a RTRV-OC12 command contains one line of parsable output data, in ascending order (from lowest specified OC-12 AID to largest specified OC-12 AID), for each OC-12 AID specified. Values for NENDALM and FENDALM are only displayed if a condition exists. Only <AID> and <PST,SST> are displayed for a retrieve of an unprovisioned OC-12.

A RTRV-OC12 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-OC12: [TID] :AID: [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	OC12_AID: {OC12-{1-560}} (OC12-OC12#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: Identifies the OC-12 port or a range of ports.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

The output response will be as follows:

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
"<AID>: :AINSTH=<value>,CARDID=<value>[ ,FENDALM=<value>]
[ ,NENDALM=<value>] ,S1TRANS=<value>,SDTHSW=<value> ,:PST,SST"
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

AID	OC12_AID: {OC12-{1-560}} (OC12-OC12#) OC12 AID indicates the OC-12 port to which this line of output data pertains.
-----	---

AINSTH	{HH-MM:{00–48} – {00–59} } Automatic In–Service Threshold. Specifies how long a customer signal must be present on the facility without a LOS, LOF, or AIS–L alarm condition before the system puts the facility into the In–Service state. The factory default is 8 hours. The valid value is: HH–MM Time, specifies the duration of an alarm–free signal where value HH indicates the time duration in hours and value MM indicates the time duration in minutes. The valid range of values is 00–48 and 00–59 (in increments of 1 minute), respectively.
CARDID=	EQPT_AID: {04M–{6–9, 12–15, 18–21, 24–43, 104–111 , 112–135, 135–141 }–{1, 3}–{2–3, 11–12}} I/O Equipment Card ID, identifies the OC–12 port’s supporting I/O equipment AID using the equipment AID format.
FENDALM=	{RFI} Far End OC–12 Alarm Condition, identifies any far end OC–12 alarm conditions that exist on the OC–12. A FENDALM value is only reported if a FENDALM condition exists. Value is: RFI Far End Remote Failure Indication detected
NENDALM=	{AIS, EBER, LOF, LOS, SDBER} Near End OC–12 Alarm Condition, identifies any near end OC–12 alarm conditions that exist on the OC–12. A NENDALM value is reported only when a NENDALM condition exists. Values are: AIS Alarm Indication Signal detected EBER Excessive Bit Error Rate detected LOF Loss of Frame detected LOS Loss of Signal detected SDBER Signal Degrade Bit Error Rate detected
S1TRANS=	{ DUS, ACT } S1 byte transmitted, determines if the S1 byte transmitted has the “DUS” message or has the actual traceability of the signal. Values are: DUS Don’t USE. The S1 byte is set to “DON’T USE for Synchronization” message. ACT ACTual. The S1 byte is set to the actual traceability of the signal.
SDTHSW=	{5, 6, 7, 8, 9} Signal Degrade Threshold Switching level, indicates the signal degrade threshold over which Signal Degrade protection switching is initiated. Values are: 5 BER threshold of 10E–5 6 BER threshold of 10E–6 7 BER threshold of 10E–7 8 BER threshold of 10E–8 9 BER threshold of 10E–9
PST	{IS, OOS–AU, OOS–AUMA, OOS–MA} Primary State, indicates the current primary state of the OC–12. Refer to Appendix G, State Transitions for a definition of state names and description of state transitions. Values are: IS In–Service OOS–AU Out–Of–Service–Autonomous OOS–AUMA Out–Of–Service–Autonomous and Management OOS–MA Out–Of–Service–Management

SST {AINS, DSBLD, FAF, LPBK, MT, PMI, PSI, STBYH, TRM, UAS, WRK}
Secondary State, indicates any secondary states associated with the OC-12. SST values may be shown in the output combined with an ampersand (&) if more than one value applies to the OC-12 at the time of the RTRV-OC12. Refer to Appendix G, State Transitions for a definition of state names and description of state transitions. Values are:

AINS	Automatic In-Service
DSBLD	Disabled
FAF	Facility Failure
LPBK	Loopback
MT	Maintenance
PMI	Performance Monitoring Inhibited
PSI	Protection Switching Inhibited
SDEE	Supported Entity Exists
STBYH	Standby-Hot. If set on Working line, the working line is ready to carry service (no FAF). If set on Protection line, the Protection line is ready to carry service (no FAF).
TRM	Terminated
UAS	Unassigned
WRK	Working. If set on Working line, the Working line is carrying service. If set on Protection line, the Protection line is carrying service.

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
SDBE	Status, internal Data Base Error
	/* GetAidEntry() Error: <ERROR-STRING> */
	/* TP Database Error: <ERROR-STRING> for <AID-STRING> */
	/* TPidToAidStr(<TP-TYPE>, <RECORD-NUMBER>) Error: <ERROR-STRING> */
	/* TPidToTbss(<TP-TYPE>, <RECORD-NUMBER>) Error: <ERROR-STRING> */
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, the provisioning data for OC–12 port OC12–12 is retrieved.

```
RTRV-OC12::OC12-12;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of Pad567. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pad567 COMPLD
"OC12-12::CARDID= 04M-2-1-2,SDTHSW=6,S1TRANS=ACT:IS,STBYH"
/* RTRV-OC12::OC12-12 [Pad567] (2) */
;
```

In the following example, the provisioning data for OC–12 ports OC12–21 through OC12–25 is retrieved.

```
RTRV-OC12::OC12-21&&-25;
```

The output response, shown below, assumes CID 6 was used to enter the command and a system generated CTAG value of Pab124. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pab124 COMPLD
"OC12-21::AINSTH=05-30,CARDID= 04M-5-1-12,SDTHSW=6,S1TRANS=ACT:IS"
"OC12-22::CARDID=04M-5-1-13,SDTHSW=6,NENDALM=LOF,S1TRANS=ACT:OOS-
AU,FAF"
"OC12-23::CARDID=04M-5-1-14,SDTHSW=6,NENDALM=LOS,S1TRANS=ACT:IS,AINS"
"OC12-24::OOS-MA,UAS"
"OC12-25::CARDID=04M-5-1-16,SDTHSW=6,S1TRANS=ACT:IS"
/* RTRV-OC12::OC12-21&&-25 [Pab124] (6) */
;
```

RELATED COMMANDS

```
DLT-OC12
ED-OC12
ENT-OC12
RMV-OC12
RST-OC12
RTRV-DFLT-OC12
SET-DFLT-OC12
```

COMMAND CODE: **RTRV-OC3**
COMMAND NAME: **RETRIEVE OC-3**

PURPOSE

The RTRV-OC3 command retrieves the provisioned parameter values, supporting I/O circuit pack AID, near end and far end facility alarm conditions, and current PST,SST state for the specified OC-3 port. The OC-3 port's current provisioned values and conditions (if provisioned), and state are retrieved from the system database. The command is executed regardless of the state of the OC-3.

The successful response for a RTRV-OC3 command contains one line of parsable output data, in ascending order (from lowest specified OC-3 AID to largest specified OC-3 AID), for each OC-3 AID specified. Values for NENDALM and FENDALM are only displayed if a condition exists. Only <AID> and <PST,SST> are displayed for a retrieve of an unprovisioned OC-3.

A RTRV-OC3 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-OC3 : [TID] : AID : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	OC3_AID: {OC3-{1-2240}} (OC3-OC3#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: Identifies the OC-3 port or a range of ports.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

The output response will be as follows:

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
"<AID>: :AINSTH=<value>,CARDID=<value>[,FENDALM=<value>]
[,NENDALM=<value>],S1TRANS=<value>,SDTHSW=<value>,:PST,SST"
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

AID	OC3_AID: {OC3-{1-2240}} (OC3-OC3#) OC3 AID indicates the OC-3 port to which this line of output data pertains.
-----	--

AINSTH	{HH-MM:{00–48} – {00–59} } Automatic In–Service Threshold. Specifies how long a customer signal must be present on the facility without a LOS, LOF, or AIS–L alarm condition before the system puts the facility into the In–Service state. The factory default is 8 hours. The valid value is: HH–MM Time, specifies the duration of an alarm–free signal where value HH indicates the time duration in hours and value MM indicates the time duration in minutes. The valid range of values is 00–48 and 00–59 (in increments of 1 minute), respectively.
CARDID=	EQPT_AID: {01B–{6–9, 12–15, 18–21, 24–43, 104–111 , 112–135, 136–141 }–{1, 3}–{2–9, 11–18}} I/O Equipment Card ID, identifies the OC–3 port’s supporting I/O equipment AID using the equipment AID format.
FENDALM=	{RFI} Far End OC–3 Alarm Condition, identifies any far end OC–3 alarm conditions that exist on the OC–3. A FENDALM value is only reported if a FENDALM condition exists. Value is: RFI Far End Remote Failure Indication detected
NENDALM=	{AIS, EBER, LOF, LOS, SDBER} Near End OC–3 Alarm Condition, identifies any near end OC–3 alarm conditions that exist on the OC–3. A NENDALM value is reported only when a NENDALM condition exists. Values are: AIS Alarm Indication Signal detected EBER Excessive Bit Error Rate detected LOF Loss of Frame detected LOS Loss of Signal detected SDBER Signal Degrade Bit Error Rate detected
S1TRANS=	{ DUS, ACT } S1 byte transmitted, determines if the S1 byte transmitted has the “DUS” message or has the actual traceability of the signal. Values are: DUS Don’t USE. The S1 byte is set to “DON’T USE for Synchronization” message. ACT ACTual. The S1 byte is set to the actual traceability of the signal.
SDTHSW=	{5, 6, 7, 8, 9} Signal Degrade Threshold Switching level, indicates the signal degrade threshold over which Signal Degrade protection switching is initiated. Values are: 5 BER threshold of 10E–5 6 BER threshold of 10E–6 7 BER threshold of 10E–7 8 BER threshold of 10E–8 9 BER threshold of 10E–9
PST	{IS, OOS–AU, OOS–AUMA, OOS–MA} Primary State, indicates the current primary state of the OC–3. Refer to Appendix G, State Transitions for a definition of state names and description of state transitions. Values are: IS In–Service OOS–AU Out–Of–Service–Autonomous OOS–AUMA Out–Of–Service–Autonomous and Management OOS–MA Out–Of–Service–Management

SST {AINS, DSBLD, FAF, LPBK, MT, PMI, PSI, STBYH, TRM, UAS, WRK}
Secondary State, indicates any secondary states associated with the OC-3. SST values may be shown in the output combined with an ampersand (&) if more than one value applies to the OC-3 at the time of the RTRV-OC3. Refer to Appendix G, State Transitions for a definition of state names and description of state transitions. Values are:

AINS	Automatic In-Service
DSBLD	Disabled
FAF	Facility Failure
LPBK	Loopback
MT	Maintenance
PMI	Performance Monitoring Inhibited
PSI	Protection Switching Inhibited
SDEE	Supported Entity Exists
STBYH	Standby-Hot. If set on Working line, the working line is ready to carry service (no FAF). If set on Protection line, the Protection line is ready to carry service (no FAF).
TRM	Terminated
UAS	Unassigned
WRK	Working. If set on Working line, the Working line is carrying service. If set on Protection line, the Protection line is carrying service.

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
SDBE	Status, internal Data Base Error
	/* GetAidEntry() Error: <ERROR-STRING> */
	/* TP Database Error: <ERROR-STRING> for <AID-STRING> */
	/* TPidToAidStr(<TP-TYPE>, <RECORD-NUMBER>) Error: <ERROR-STRING> */
	/* TPidToTbss(<TP-TYPE>, <RECORD-NUMBER>) Error: <ERROR-STRING> */
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, the provisioning data for OC-3 port OC3-12 is retrieved.

```
RTRV-OC3::OC3-12;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of Pad567. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pad567 COMPLD
"OC3-12::CARDID=01B-2-1-2,SDTHSW=6,S1TRANS=ACT:IS,STBYH"
/* RTRV-OC3::OC3-12 [Pad567] (2) */
;
```

In the following example, the provisioning data for OC-3 ports OC3-21 through OC3-25 is retrieved.

```
RTRV-OC3::OC3-21&&-25;
```

The output response, shown below, assumes CID 6 was used to enter the command and a system generated CTAG value of Pab124. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pab124 COMPLD
"OC3-21::AINSTH=05-30,CARDID=01B-5-1-12,SDTHSW=6,S1TRANS=ACT:IS"
"OC3-22::CARDID=01B-5-1-13,SDTHSW=6,NENDALM=LOF,S1TRANS=ACT:OOS-AU,FAF"
"OC3-23::CARDID=01B-5-1-14,SDTHSW=6,NENDALM=LOS,S1TRANS=ACT:IS,AINS"
"OC3-24::OOS-MA,UAS"
"OC3-25::CARDID=01B-5-1-16,SDTHSW=6,S1TRANS=ACT:IS"
/* RTRV-OC3::OC3-21&&-25 [Pab124] (6) */
;
```

RELATED COMMANDS

```
DLT-OC3
ED-OC3
ENT-OC3
RMV-OC3
RST-OC3
RTRV-DFLT-OC3
RTRV-SYSTEMSG-OC3
SET-DFLT-OC3
```

COMMAND CODE: **RTRV-OSADDR-SITE**
COMMAND NAME: **RETRIEVE OPERATIONS SYSTEM
ADDRESS – SITE**

PURPOSE

The RTRV-OSADDR-SITE command retrieves the contents (X.25 incoming SVC calling addresses and associated UID auto-login provisioning) of the system's X.25 Incoming SVC Calling Address database.

The successful response for a RTRV-OSADDR-SITE command contains either a non-parsable data header line followed by a non-parsable line of output data for each entry in the system's X.25 Incoming SVC Calling Address database, or a single non-parsable line of output if there are no entries in the database.

A RTRV-OSADDR-SITE command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-OSADDR-SITE: [TID] : : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* ADDR          AUTOIN */
  /* <ADDR>          <AUTOIN> */]
  [/* OSADDR is empty */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

ADDR	<1-15 INTEGER X.25_CALLING_ADDRESS> X.25 Incoming SVC Calling Address, indicates the X.25 Incoming SVC Calling Address (the X.25 address for the system calling the 1631 SX) entry in the X.25 Incoming SVC Calling Address database.
AUTOIN	{%, <UID>} Automatic Login, identifies the User ID that is automatically logged-in to the system when an X.25 incoming SVC call request packet is received with a calling address matching the associated ADDR value. Values are: % No Automatic Login, a normal log-in sequence (via ACT-USER) is required to access the system. <UID> UID Automatically Logged-in, the User ID (UID) is automatically logged-in when an X.25 incoming SVC call request packet is received with an incoming SVC calling address matching the entered ADDR value.

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

```
SDBE      Status, internal Data Base Error
          /* Unable to read OSADDR – status = <status number> */
```

EXAMPLES

In the following example, the entries in the system's X.25 Incoming SVC Calling Address database are retrieved.

```
RTRV-OSADDR-SITE;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P1e015. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P1e015 COMPLD
/* ADDR  AUTOIN  */
/* 12145551212      SMITH    */
/* 14045551212      %        */
/* 16125551212      %        */
/* 19085551212      JONES    */
/* RTRV-OSADDR-SITE [P1e015] (1) */
;
```

RELATED COMMANDS

```
DLT-CID
DLT-CID-VC
DLT-OSADDR-SITE
ED-CID
ED-CID-VC
ED-OSADDR-SITE
ED-PRMTR-SITE
ENT-CID
ENT-CID-VC
ENT-OSADDR-SITE
RMV-CID
RST-CID
RTRV-CID
RTRV-PRMTR-SITE
START-CID
STOP-CID
```

COMMAND CODE: **RTRV-OVRHD-OC12**
COMMAND NAME: **RETRIEVE OVERHEAD OC-12**

PURPOSE

The RTRV-OVRHD-OC12 command retrieves selected overhead bytes of an OC-12.

A RTRV-OVRHD-OC12 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-OVRHD-OC12 : [TID] : AID : [CTAG] : : [OVRHDTYPE] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	OC12_AID: {OC12-{1-560}} (OC12-OC12#) Default: Entry Required Addressing: None Description: Identifies OC-12 port whose overhead byte(s) are to be retrieved.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
OVRHDTYPE	{K1, K2} Default: <All applicable overhead types listed above> Addressing: None Description: Overhead Type. Identifies the type of overhead to be retrieved. Values are: K1 K1, displays the incoming K1 byte as a binary value. K2 K2, displays the incoming K2 byte as a binary value.

SUCCESSFUL RESPONSE FORMAT

If the specified OVRHDTYPE is K1 or K2, the successful response format is:

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M <CTAG> COMPLD  
  "AID: [K1=<value> <REQ> <CH1>] [,K2=<value> <CH2><ARCH><MODE>]  
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]  
;
```

If the specified OVRHDTYPE is K1 or K2 while there is a LOS/LOF defect on the OC-12, the successful response format is:

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M <CTAG> COMPLD  
  "AID:OVRHDUNREADBLE"  
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]  
;
```

If the specified AID is unassigned (i.e. in a UAS secondary state), the successful response format is:

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

If the OC12 is part of a UPSR ring, and the values for mode are AIS-L, RDI-L, or UA, the successful response format is:

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  "AID: [K1=<value> NA NA [,K2=<value> NA UPSR <MODE>]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

- AID** OC12_AID:
{OC12-{1-560}} (OC12-OC12#)
OC12 AID, identifies a OC-12 port whose overhead byte(s) are to be retrieved.
- K1=** <00000000-11111111 byte in binary format>
K1, displays the incoming K1 byte as a binary value.
- REQ** {LP, FS, SF-HP, SF-LP, SD-HP, SD-LP, UNASGN, WTR, EX, RR, DNR, NR, NA}
APS Request. Displays the APS request indicated on the first four bits of the K1 byte.
The following values can be displayed:

K1 Bits 1-4	REQ
1111	LP
1110	FS
1101	SF-HP
1100	SF-LP
1011	SD-HP
1010	SD-LP
1001	UNASGN
1000	MS
0111	UNASGN
0110	WTR
0101	UNASGN
0100	EX
0011	UNASGN
0010	RR
0001	DNR
0000	NR
Not Applicable	NA

CH1	{0–15, NA} APS Channel on the K1 byte, displays the number of the channel for which the APS request is issued. Values are: 0–15 Decimal value corresponding to the last four bits of the K1 byte when ARCH = 1:N or 1+1 NA Not applicable when ARCH = UPSR
K2=	<00000000–11111111 byte in binary format> K2, displays the incoming K2 byte as a binary value.
CH2	{0–15, NA} APS Channel on the K2 byte. Displays the number of the channel bridged onto protection. Values are: 0–15 Decimal value corresponding to the first four bits of the K2 byte when ARCH = 1:N or 1+1 NA Not applicable when ARCH = UPSR
ARCH	{1+1, 1:N, UPSR} APS Architecture. Displays the APS architecture. Values are: 1:N 1:N Architecture 1+1 1+1 Architecture UPSR UPSR Ring Architecture
MODE	{UNI, BI, AIS–L, RDI–L, UA} APS Mode. Displays the APS switching mode. Values are: UNI Unidirectional when ARCH = 1:N or 1+1 BI Bidirectional when ARCH = 1:N or 1+1 AIS–L AIS–L detected RDI–L RDI–L detected UA Unassigned Values

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non–Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid
IIAC	Input, Invalid ACcess identifier
SDBE	Status, internal Data Base Error
SROF	Status, Requested Operation Failed
SSRE	Status, System Resources Exceeded

EXAMPLES

In the following example, the K1 byte is retrieved.

```
RTRV-OVRHD-OC12: :OC12-16;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of Pad567. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pad567 COMPLD
"OC12-16:K1=0000 0000 NR 0,K2=0000 0 000 0 1+1 UA"
/* RTRV-OVRHD-OC12::OC12-16 [Pad567] (2) */
;
```

RELATED COMMANDS

```
ENT-OC12
RTRV-OVRHD-ST51
RTRV-OVRHD-ST53C
```


COMMAND CODE: **RTRV-OVRHD-OC3**
COMMAND NAME: **RETRIEVE OVERHEAD OC-3**

PURPOSE

The RTRV-OVRHD-OC3 command retrieves selected overhead bytes of an OC-3.

A RTRV-OVRHD-OC3 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-OVRHD-OC3 : [TID] : AID : [CTAG] : : [OVRHDTYPE] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	OC3_AID: {OC3-{1-2240}} (OC3-OC3#) Default: Entry Required Addressing: None Description: Identifies OC-3 port whose overhead byte(s) are to be retrieved.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
OVRHDTYPE	{K1, K2} Default: <All applicable overhead types listed above> Addressing: None Description: Overhead Type. Identifies the type of overhead to be retrieved. Values are: K1 K1, displays the incoming K1 byte as a binary value and APS code. K2 K2, displays the incoming K2 byte as a binary value and APS code.

SUCCESSFUL RESPONSE FORMAT

If the specified OVRHDTYPE is K1 or K2, the successful response format is:

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  "AID: [K1=<value> <REQ> <CH1>] [,K2=<value> <CH2><ARCH><MODE>]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

If the specified OVRHDTYPE is K1 or K2 while there is a LOS/LOF defect on the OC-3, the successful response format is:

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  "AID: OVRHDUNREADBLE"
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

If the specified AID is unassigned (i.e. in a UAS secondary state), the successful response format is:

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

If the OC3 is part of a UPSR ring, and the values for mode are AIS-L, RDI-L, or UA, the successful response format is:

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  "AID: [K1=<value> NA NA [,K2=<value> NA UPSR <MODE>]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

AID OC3_AID:
{OC3-{1-2240}} (OC3-OC3#)
OC3 AID, identifies a OC-3 port whose overhead byte(s) are to be retrieved.

K1= <0000-1111 byte in binary format>
K1, displays the incoming K1 byte as a binary value and APS code.

REQ {LP, FS, SF-HP, SF-LP, SD-HP, SD-LP, UNASGN, WTR, EX, RR, DNR, NR}
APS Request. Displays the APS request indicated on the first four bits of the K1 byte.
The following values can be displayed:

K1 Bits 1-4	REQ
1111	LP
1110	FS
1101	SF-HP
1100	SF-LP
1011	SD-HP
1010	SD-LP
1001	UNASGN
1000	MS
0111	UNASGN
0110	WTR
0101	UNASGN
0100	EX
0011	UNASGN
0010	RR
0001	DNR
0000	NR

CH1 {0-15}
APS Channel on the K1 byte, displays the number of the channel for which the APS request is issued (last four bits of the K1 byte).

K2=	<0000–1111 byte in binary format> K2, displays the incoming K2 byte as a binary value and APS code.
CH2	{0–15} APS Channel on the K2 byte. Displays the number of the channel bridged onto protection (first four bits of the K2 byte).
ARCH	{1+1, 1:N, UPSR} APS Architecture. Displays the APS architecture. Values are: 1:N 1:n Architecture. 1+1 1+1 Architecture. UPSR UPSR Ring Architecture
MODE	{UNI, BI, AIS–L, RDI–L, UA} APS Mode. Displays the APS switching mode. Values are: UNI unidirectional. BI bidirectional. AIS–L AIS–L detected. RDI–L RDI–L detected. UA Unassigned Values.

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid
IIAC	Input, Invalid ACcess identifier
SDBE	Status, internal Data Base Error
SROF	Status, Requested Operation Failed
SSRE	Status, System Resources Exceeded

EXAMPLES

In the following example, the K1 byte is retrieved.

```
RTRV-OVRHD-OC3::OC3-16;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of Pad567. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```

<SID> <YY-MM-DD> <HH:MM:SS>
M Pad567 COMPLD
  "OC3-16:K1=0000 0000 NR 0,K2=0000 0 000 0 1+1 UA"
  /* RTRV-OVRHD-OC3::OC3-16 [Pad567] (2) */
;

```

RELATED COMMANDS

```
ENT-OC3
```

3AL45392AJ

Issue 01, February 2005

RTRV-OVRHD-STS1

RTRV-OVRHD-STS3C

COMMAND CODE: **RTRV-OVRHD-ST51**
COMMAND NAME: **RETRIEVE OVERHEAD ST5-1**

PURPOSE

The RTRV-OVRHD-ST51 command retrieves selected overhead bytes of an ST5-1.

A RTRV-OVRHD-ST51 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-OVRHD-ST51: [TID]:AID:[CTAG]::[OVRHDTYPE];

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >		
	Default:	<SID>	
	Addressing:	None	
	Description:	Target Identifier, specifies the network node TID for the command.	
AID	STS1_AID:		
	{EC1STS1-{1-3840}}	(EC1STS1-EC1/STS1#)	
	{OC3STS1-{1-2240}-{1-3}}	(OC3STS1-OC3#-STS1#)	
	{OC12STS1-{1-560}-{1-4}-{1-3}}	(OC12STS1-OC12#-STM1#-STS1#)	
	Default:	Entry Required	
	Addressing:	None	
	Description:	Identifies STS-1 port whose overhead byte(s) are to be retrieved.	
CTAG	< 1-6 VALID CTAG CHARACTERS >		
	Default:	< System assigned CTAG value >	
	Addressing:	None	
	Description:	Correlation Tag, associates input command with its output responses.	
OVRHDTYPE	{C2}		
	Default:	<All applicable overhead types listed above>	
	Addressing:	None	
	Description:	Overhead Type. Identifies the type of overhead to be retrieved. Values are:	
	C2	C2 byte in the Hex format to be retrieved.	

SUCCESSFUL RESPONSE FORMAT

If the specified OVRHDTYPE is C2, the successful response format is:

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  "AID: [C2=<value>]"
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

If the specified OVRHDTYPE is C2 while there is a LOF/LOP/AIS-P defect on the ST5-1, the successful response format is:

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  "AID:OVRHDUNREADBLE"
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

If the specified AID is unassigned (i.e. in a UAS secondary state), the successful response format is:

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

C2= Displays C2 byte in the Hex format with range of 00_H to FF_H. For purposes of SLMF defect detection, any C2 byte received that contains a PDI value of E1_H to FB_H (1 to 27 contained VT defects) shall be treated as though it were a value of 02_H (i.e., VT structured payload); a C2 byte received that contains the PDI value of FC_H (28 contained VT defects or DS3 payload defects) shall be treated as though it were a value of 02_H for VT structured payload or 04_H for non-VT structured payload.

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid
IIAC	Input, Invalid ACcess identifier
SDBE	Status, internal Data Base Error
SROF	Status, Requested Operation Failed
SSRE	Status, System Resources Exceeded

EXAMPLES

In the following example, the C2 byte is retrieved.

```
RTRV-OVRHD-STs1: :OC3STS1-1-3;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of Pad567. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pad567 COMPLD
  "OC3STS1-1-3:C2=0x1"
  [/* RTRV-OVRHD-STs1: :OC3STS1-1-3 [Pad567] (2) */]
;
```

RELATED COMMANDS

```
ENT-STs1
RTRV-OVRHD-OC3
RTRV-OVRHD-OC12
RTRV-OVRHD-STs3C
```

COMMAND CODE: **RTRV-OVRHD-STS3C**
COMMAND NAME: **RETRIEVE OVERHEAD STS-3C**

PURPOSE

The RTRV-OVRHD-STS3C command retrieves selected overhead bytes of an STS-3C.

A RTRV-OVRHD-STS3C command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-OVRHD-STS3C: [TID] :AID: [CTAG] : : [OVRHDTYPE] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	STS3C_AID: {OC3STS3C-{1-2240}} (OC3STS3C-OC3#/STS3C#) {OC12STS3C-{1-560}-{1-4}} (OC12STS3C-OC12#-STM1/STS3C#) Default: Entry Required Addressing: None Description: Identifies STS-3C port whose overhead byte(s) are to be retrieved.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
OVRHDTYPE	{C2} Default: <All applicable overhead types listed above> Addressing: None Description: Overhead Type. Identifies the type of overhead to be retrieved. Values are: C2 C2 byte in the Hex format to be retrieved.

SUCCESSFUL RESPONSE FORMAT

If the specified OVRHDTYPE is C2, the successful response format is:

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M <CTAG> COMPLD  
  "AID: [C2=<value>]  
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]  
;
```

If the specified OVRHDTYPE is C2 while there is a LOF/LOP/AIS-P defect on the STS-3C, the successful response format is:

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M <CTAG> COMPLD  
  "AID:OVRHDUNREADBLE"  
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]  
;
```

If the specified AID is unassigned (i.e. in a UAS secondary state), the successful response format is:

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

C2= Displays C2 byte in the Hex format with range of 00_H to FF_H.

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC Input, Invalid ACcess identifier

EXAMPLES

In the following example, the C2 byte is retrieved.

```
RTRV-OVRHD-ST3C: :OC3ST3C-16;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of Pad567. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pad567 COMPLD
  "OC3ST3C-16:C2=0x0"
  /* RTRV-OVRHD-ST3C: :OC3ST3C-16 [Pad567] (2) */
;
```

RELATED COMMANDS

```
ENT-ST3C
RTRV-OVRHD-OC3
RTRV-OVRHD-ST31
```


COMMAND CODE: **RTRV-PARTITN**
COMMAND NAME: **RETRIEVE PARTITION**

PURPOSE

The RTRV-PARTITN command retrieves the user facility partition names (PMODE of PNAME), the facility partition port AIDs (PMODE of PPORT), or the partitioned user UIDs associated with the facility partition name (PMODE of PUSER) specified by PARTNAM.

A partitioned user can only retrieve partitioning information pertaining to the partitioned user's facility partition. A non-partitioned user can retrieve facility partitioning information pertaining to any facility partition.

The successful response for a RTRV-PARTITN command contains one or more lines of non-parsable output data for each facility partition name retrieved if PMODE of PNAME is entered, or for each partition port AID assigned to each partition name retrieved if PMODE of PPORT is entered, or for each partitioned user UID for each partition name retrieved if PMODE of PUSER is entered. No line of output data is provided if the requested data associated with the specified PARTNAM does not exist (e.g., no facility ports have been assigned to the partition).

A RTRV-PARTITN command is denied if:

- A partitioned user enters a partition name (PARTNAM) associated with another user.
- The "User Partitioning" PFO is not enabled.
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-PARTITN: [TID] : : [CTAG] : : [PMODE] , [PARTNAM] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.						
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.						
PMODE	{PNAME, PPORT, PUSER} Default: {PPORT} Addressing: None Description: Partition Display Mode, specifies the type of user facility partitioning information to be retrieved. Values are: <table><tr><td>PNAME</td><td>Partition Names, specifies that partition names are retrieved.<ul style="list-style-type: none">• If the user is a partitioned user, the partitioned user's partition name is displayed.• If the user is a non-partitioned user, the partition name(s) of the specified facility partition(s) are retrieved.</td></tr><tr><td>PPORT</td><td>Partition Ports, specifies that the facility ports assigned to the specified facility partition(s) are retrieved.<ul style="list-style-type: none">• If the user is a partitioned user, only ports assigned to the user's facility partition are retrieved.• If the user is a non-partitioned user, all ports assigned to the specified facility partition(s) are retrieved.</td></tr><tr><td>PUSER</td><td>Partition Users, specifies that the UIDs associated with the specified facility partition are retrieved.</td></tr></table>	PNAME	Partition Names, specifies that partition names are retrieved. <ul style="list-style-type: none">• If the user is a partitioned user, the partitioned user's partition name is displayed.• If the user is a non-partitioned user, the partition name(s) of the specified facility partition(s) are retrieved.	PPORT	Partition Ports, specifies that the facility ports assigned to the specified facility partition(s) are retrieved. <ul style="list-style-type: none">• If the user is a partitioned user, only ports assigned to the user's facility partition are retrieved.• If the user is a non-partitioned user, all ports assigned to the specified facility partition(s) are retrieved.	PUSER	Partition Users, specifies that the UIDs associated with the specified facility partition are retrieved.
PNAME	Partition Names, specifies that partition names are retrieved. <ul style="list-style-type: none">• If the user is a partitioned user, the partitioned user's partition name is displayed.• If the user is a non-partitioned user, the partition name(s) of the specified facility partition(s) are retrieved.						
PPORT	Partition Ports, specifies that the facility ports assigned to the specified facility partition(s) are retrieved. <ul style="list-style-type: none">• If the user is a partitioned user, only ports assigned to the user's facility partition are retrieved.• If the user is a non-partitioned user, all ports assigned to the specified facility partition(s) are retrieved.						
PUSER	Partition Users, specifies that the UIDs associated with the specified facility partition are retrieved.						

- If the user is a partitioned user, the UIDs associated with the partitioned user's facility partition are retrieved.
- If the user is a non-partitioned user, the UIDs associated with the specified facility partition(s) are retrieved.

PARTNAM	{<1–20 CHARACTER VALID PARTITION NAME>, ALL}
Default:	{ALL}
Addressing:	None
Description:	Partition Name, specifies the name of the user facility partition. Values are:
	<p><VALID PARTITION NAME> A specific user facility partition.</p> <p>ALL All specified user facility partitioning data.</p> <ul style="list-style-type: none"> • If PMODE of PNAME is specified and the user is a partitioned user, the partitioned user's partition name is displayed. • If PMODE of PNAME is specified and the user is a non-partitioned user, all facility partition names in the system are retrieved. • If PMODE of PPORT is specified and the user is a partitioned user, only ports assigned to the partitioned user's facility partition are retrieved. • If PMODE of PPORT is specified and the user is a non-partitioned user, all ports assigned to all facility partitions are retrieved. • If PMODE of PUSER is specified and the user is a partitioned user, the UIDs associated with the partitioned user's facility partition are retrieved. • If PMODE of PUSER is specified and the user is a non-partitioned user, the UIDs associated with all facility partitions are retrieved.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
[/ * <PARTNAM> */]
[/ * <PARTNAM> (<PORTTYPE>) <AID> */]
[/ * <PARTNAM> <UID> */]
[/ * <Command Echo> [<CTAG>] (<CID [-VCNUM] >) */]
;

```

Note: The first format line of output data is used if PMODE of PNAME is entered. The second format line of output data is used if PMODE of PPORT is entered. The third format line of output data is used if PMODE of PUSER is entered.

OUTPUT PARAMETERS

PARTNAM	<1–20 CHARACTER PARTITION NAME> Partition Name, indicates the name assigned to the user facility partition.
PORTTYPE	{DS1, DS3, EC1, F3, OC3, OC12, STS1, STS3C, VT1} Port Type, identifies the type of facility.
	DS3 DS3 port, electrical or embedded
	DS1 DS1 port, electrical or embedded
	EC1 Electrical STS–1
	F3 Fractional T3
	OC3 Optical Carrier level 3

	OC12	Optical Carrier level 12	
	STS1	STS-1 port	
	STS3C	STS-3C port	
	VT1	VT1.5 port	
AID	DS1_AID:		
	{T1-{1-59392}}	(T1-DS1#)	
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)	
	{EC1T1-{1-3840}-{1-28}}	(EC1T1-EC1/STS1/DS3#-DS1#)	
	{OC3T1-{1-2240}-{1-3}-{1-28}}	(OC3T1-OC3#-STS1/DS3#-DS1#)	
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}	(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)	
	DS3_AID:		
	{T3-{1-4800}}	(T3-DS3#)	
	{EC1T3-{1-3840}}	(EC1T3-EC1/STS1/DS3#)	
	{OC3T3-{1-2240}-{1-3}}	(OC3T3-OC3#-STS1/DS3#)	
	{OC12T3-{1-560}-{1-4}-{1-3}}	(OC12T3-OC12#-STM1#-STS1/DS3#)	
	EC1_AID:		
	{EC1-{1-3840} }	(EC1-EC1/STS1#)	
	F3_AID		
	{T3F3-{1-4800}-{1-14}}	(T3F3-DS3#-Fractional_DS3#)	
	OC3_AID:		
	{OC3-{1-2240}}	(OC3-OC3#)	
	OC12_AID:		
	{OC12-{1-560}}	(OC12-OC12#)	
	STS1_AID:		
	{EC1STS1-{1-3840}}	(EC1STS1-EC1/STS1#)	
	{OC3STS1-{1-2240}-{1-3}}	(OC3STS1-OC3#-STS1#)	
	{OC12STS1-{1-560}-{1-4}-{1-3}}	(OC12STS1-OC12#-STM1#-STS1#)	
	STS3C_AID:		
	{OC3STS3C-{1-2240}}	(OC3STS3C-OC3#/STS3C#)	
	{OC12STS3C-{1-560}-{1-4}}	(OC12STS3C-OC12#-STM1/STS3C#)	
	VT1.5_AID		
	{EC1VT1-{1-3840}-{1-7}-{1-4}}	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)	
	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)	
	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}		
	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)		
	EC1, F3, OC3, OC12, STS1, STS3C, VT1.5, DS3, or DS1 AID, identifies the EC1, F3, OC3, OC12, STS1, STS3C, VT1.5, DS3, or DS1 port in a user partition.		
UID	< 5-12 CHARACTER UID >		
	User Identifier, identifies the UID of a user associated to the user facility partition.		

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Optional Suggested Action Text> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

ENFE	Equipage, FEature Not provided
IDNV	Input, Data Not Valid /* Invalid Partition Name */ /* Illegal input */
IIFM	Input, Invalid data ForMat /* PARTNAM length */ /* PMODE length */
IPNV	Input, Parameter Not Valid /* PARTNAM */ /* PMODE */
SDBE	Status, internal Data Base Error /* Error accessing the PARTITION DB – status = <status number> */
SROF	Status, Requested Operation Failed /* User not found in USDB */ /* Privilege: UNAUTHORIZED TO REQUEST THIS COMMAND */

EXAMPLES

In the following example, all facility partition names are retrieved.

```
RTRV-PARTITN: : : : PNAME, ALL;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P27011. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M P27011 COMPLD  
/* PARTITION1 */  
/* PARTITION2 */  
/* PARTITION3 */  
/* RTRV-PARTITN: : : : PNAME, ALL [P27011] (1) */  
;
```

In the following example, all partitioned user UIDs associated with all facility partitions are retrieved.

```
RTRV-PARTITN: : : : PUSER, ALL;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P27030. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M P27030 COMPLD  
/* PARTITION1 USER20 */  
/* USER23 */  
/* USER25 */  
/* PARTITION2 USER20 */  
/* USER01 */  
/* PARTITION3 USER05 */  
/* USER33 */  
/* RTRV-PARTITN: : : : PUSER, ALL [P27030] (1) */  
;
```

In the following example, all DS3 or DS1 ports assigned to all facility partitions are retrieved.

RTRV-PARTITN is used to retrieve all ports in all partitions:

```
RTRV-PARTITN: : : : PPORT;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P27031. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P27031 COMPLD
/* PARTITION1 (DS3) T3-5 */
/*           (DS3) T3-6 */
/*           (DS3) T3-7 */
/* PARTITION2 (DS1) T1-1 */
/*           (DS1) T1-2 */
/*           (DS1) T1-3 */
/*           (DS1) T1-4 */
/* PARTITION3 (DS3) EC1T3-11 */
/*           (DS3) EC1T3-12 */
/* RTRV-PARTITN:::::PPORT [P27031] (1) */
;
```

RELATED COMMANDS

DLT-PARTITN
ED-PARTITN-EC1
ED-PARTITN-F3
ED-PARTITN-OC3
ED-PARTITN-OC12
ED-PARTITN-STS1
ED-PARTITN-STS3C
ED-PARTITN-T1
ED-PARTITN-T3
ED-PARTITN-VT1
ED-PRVG-USER
ENT-PARTITN
ENT-USER

COMMAND CODE: **RTRV-PATH-STS1**
COMMAND NAME: **RETRIEVE CONNECTION PATH STS1**

PURPOSE

The RTRV-PATH-STS1 command retrieves the redundant internal paths of the specified pair of STS1 ports through the system. The command is executed regardless of the provisioning or cross-connection status of the specified ports.

The redundant internal paths through the system that are reported are the paths from the specified FROM STS1 AID to the specified TO STS1 AID. RTRV-PATH-STS1 does not report on the paths through the system from the specified TO STS1 AID to the specified FROM STS1 AID.

The successful response to a RTRV-PATH-STS1 command contains several lines of non-parsable output data, with each line of output identifying an element of the copy 0 and copy 1 data paths through the system. Refer to the Successful Response Format, below.

If a cross-connection does not exist between the specified FROM and TO ports, the center-stage cable identifiers and center-stage circuit packs cannot be determined and are therefore not reported. In this case, a line of output indicates that no cross-connection exists for the specified ports.

A RTRV-PATH-STS1 command is denied if:

- Either of the AIDs specified by FROM or TO is not provisioned or is not in OOS-AUMA, UAS, MT state.
- The specified STS1 is embedded within a protection OC3 or OC12.
- An invalid parameter value is entered.

INPUT FORMAT

RTRV-PATH-STS1 : [TID] : FROM, TO : [CTAG] : : [PATH] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >		
	Default:	<SID>	
	Addressing:	None	
	Description:	Target Identifier, specifies the network node TID for the command.	
FROM	STS1_AID:		
	{EC1STS1-{1-3840}}		(EC1STS1-EC1/STS1#)
	{OC3STS1-{1-2240}-{1-3}}		(OC3STS1-OC3#-STS1#)
	{OC12STS1-{1-560}-{1-4}-{1-3}}		(OC12STS1-OC12#-STM1#-STS1#)
	Default:	Entry Required	
	Addressing:	None	
	Description:	STS1 AID, specifies the FROM STS1 port.	
TO	STS1_AID:		
	{EC1STS1-{1-3840}}		(EC1STS1-EC1/STS1#)
	{OC3STS1-{1-2240}-{1-3}}		(OC3STS1-OC3#-STS1#)
	{OC12STS1-{1-560}-{1-4}-{1-3}}		(OC12STS1-OC12#-STM1#-STS1#)
	Default:	Entry Required	
	Addressing:	None	
	Description:	STS1 AID, specifies the TO STS1 port.	
CTAG	< 1-6 VALID CTAG CHARACTERS >		
	Default:	< System assigned CTAG value >	
	Addressing:	None	
	Description:	Correlation Tag, associates input command with its output responses.	

PATH	{0, 1–28}	
	Default:	{ 0 }
	Addressing:	None
	Description:	Path. Indicates which of the 29 paths, that the intact STS1 is divided into, is to be analyzed. Values are:
	0	The path over which the overhead is being transmitted.
	1–28	The path over which the 1–28 VT1.5 equivalent components are being transmitted..

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
/* From STS1: <FROM>, PATH=<value> */
/* Copy 0: <EQPT_AID> Copy 1: <EQPT_AID> */
....
/* Copy 0: <EQPT_AID> Copy 1: <EQPT_AID> */
/* To STS1: <TO>, PATH=<value> */
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

OUTPUT PARAMETERS

FROM	STS1_AID:	
	{EC1STS1-{1–3840}}	(EC1STS1–EC1/STS1#)
	{OC3STS1-{1–2240}–{1–3}}	(OC3STS1–OC3#–STS1#)
	{OC12STS1-{1–560}–{1–4}–{1–3}}	(OC12STS1–OC12#–STM1#–STS1#)
	STS1 AID, identifies the FROM STS–1 port.	
PATH=	{0–28}	
	Path, identifies which of the paths, that the intact STS1 is divided into, is being reported.	
	Values are:	
	0	The path over which the overhead is being transmitted is being reported.
	1–28	The path over which the 1–28 VT1.5 equivalent components are being transmitted is being reported.

EQPT_AID EQUIPMENT_AID:

{CBL-{6-9, 12-15, 18-21, 24-43, 112-135}-{1, 3}-
{XA150B-XA150H, XA150J, XA250B-XA250H, XA250J,
J1000A-J1000H, J2000A-J2000H},
CBL-{2, 3}-{1, 3}-
{LX031B-LX031H, LX031J, UX031B-UX031H, UX031J,
LX051B-LX051H, LX051J, UX051B-UX051H, UX051J,
LX071B-LX071H, LX071J, UX071B-UX071H, UX071J,
LX091B-LX091H, LX091J, UX091B-UX091H, UX091J,
LX111B-LX111H, LX111J, UX111B-UX111H, UX111J,
LX131B-LX131H, LX131J, UX131B-UX131H, UX131J,
LX151B-LX151H, LX151J, UX151B-UX151H, UX151J,
LX171B-LX171H, LX171J, UX171B-UX171H, UX171J},
CBL-{4, 5, 10, 11, 16, 17, 22, 23}-{1,3}-
{LX031B, LX031C, LX031H, UX031B, UX031C, UX031H,
LX041A-LX041H, LX041J, UX041A-UX041H, UX041J,
LX051C, LX051H, LX051J, UX051C, UX051H, UX051J,
LX061B, LX061C, LX061H, UX061B, UX061C, UX061H,
LX071A-LX071H, LX071J, UX071A-UX071H, UX071J,
LX081C, LX081H, LX081J, UX081C, UX081H, UX081J,
LX091D, LX091E, LX091F, UX091D, UX091E, UX091F,
LX101A-LX101H, LX101J, UX101A-UX101H, UX101J,
LX111E, LX111F, LX111G, UX111E, UX111F, UX111G,
LX121D, LX121E, LX121F, UX121D, UX121E, UX121F,
LX131A-LX131H, LX131J, UX131A-UX131H, UX131J,
LX141E, LX141F, LX141G, UX141E, UX141F, UX141G},
CBL-{4, 5, 10, 11, 16, 17, 22, 23}-1-
{J1000A-J1000H, J1002A-J1002H, J1004A-J1004H, J1006A-J1006H,
J2001A-J2001H, J2003A-J2003H, J2005A-J2005H,
XA01B-XA01H, XA01J, XA03B-XA03H, XA03J,
XA05B-XA05H, XA05J, XA07B-XA07H, XA07J,
XA10B-XA10H, XA10J, XA12B-XA12H, XA012J,
XA14B-XA14H, XA14J},
CBL-{44-63}-{1-4}-{1J1RX, 1J1TX, 2J1RX, 2J1TX},
CBL-{6-8, 12-14}-{1, 3}-
{1J1RX, 1J1TX, 1J2RX, 1J2TX, 3J1RX, 3J1TX, 3J2RX, 3J2TX,
5J1RX, 5J1TX, 5J2RX, 5J2TX, 7J1RX, 7J1TX, 7J2RX, 7J2TX,
XA150B, XA151B, XA152B, XA153B, XA150D, XA151D, XA152D, XA153D,
XA250B, XA251B, XA252B, XA253B, XA250D, XA251D, XA252D, XA253D}
CBL-{9}-3-{1J1RX, 1J1TX, 1J2RX, 1J2TX, 3J1RX, 3J1TX, 3J2RX, 3J2TX,
5J1RX, 5J1TX, 5J2RX, 5J2TX, 7J1RX, 7J1TX, 7J2RX, 7J2TX,
XA150B, XA151B, XA152B, XA153B, XA150D, XA151D, XA152D, XA153D,
XA250B, XA251B, XA252B, XA253B, XA250D, XA251D, XA252D, XA253D},
CBL-{15}-1-{1J1RX, 1J1TX, 1J2RX, 1J2TX, 3J1RX, 3J1TX, 3J2RX, 3J2TX,
5J1RX, 5J1TX, 5J2RX, 5J2TX, 7J1RX, 7J1TX, 7J2RX, 7J2TX,
XA150B, XA151B, XA152B, XA153B, XA150D, XA151D, XA152D, XA153D,
XA250B, XA251B, XA252B, XA253B, XA250D, XA251D, XA252D, XA253D}}
{CDB-{5}-{1, 3}-{1, 2}}
CDB-{2-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1, 2}
{CDB-{5}-{1, 3}-{1, 2}}
{EOB-{5}-{1, 3}-{1-5}}
{SI48: EOB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2},
EOC: EOB-{4-5, 10-11, 16-17, 22-23, **102**, **103**}-1-{1-7, 9-15}}
{SI48: EP3-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42,
104-106, **108-110**, **136-141**}-{1, 3}-{1-18},

EP3-{9, 21, 35, 43, **107**}-3-{1-18},
EP3-{15, 27, 31, 39, **111**}-1-{1-18}}
{SI36: EP3-{6-8, 12-14}-{1, 3}-{1-14},
EP3-9-3-{1-14},
EP3-15-1-{1-14}}
{SI48: ES1-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42,
104-106,108-110,136-141}-{1, 3}-{1-18},
ES1-{9, 21, 35, 43,**107**}-3-{1-18},
ES1-{15, 27, 31, 39,**111**}-1-{1-18}}
{SI36: ES1-{6-8, 12-14}-{1, 3}-{1-14},
ES1-9-3-{1-14},
ES1-15-1-{1-14}}
{IOB-{6-8, 12-14}-{1, 3}-{1, 3, 5, 7},
IOB-9-3-{1, 3, 5, 7},
IOB-15-1-{1, 3, 5, 7}}
{IPB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2}}
{M16-{2-5, 10-11, 16-17, 22-23}-3-{1-16}}
{M32-{4-5, 10-11, 16-17, 22-23, **102**, **103**}-3-{1-16},
M32-{5}-{1, 3}-{1-3, 6-8}}
{M40-{2-3}-{1, 3}-{1-16}}
{M40-{5}-{1, 3}-{4, 5, 9, 10}}
{O1B-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{2-9, 11-18}}
{O4M-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{2-3, 11-12}}
{RPB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2}}
{S3M-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{4-9, 13-18}}
{No connection.}
{Path not found.}

Equipment AID, identifies the equipment and cable entities that form the internal system path from the FROM STS-1 port to the TO STS-1 port. Non-AID values are:

No connection. The value {No connection.} is displayed in place of the center-stage circuit pack AID if a connection does not exist between the specified FROM and TO ports.

Path not found. The value {Path not found.} is displayed in place of the center-stage circuit pack AID if a connection in the cross-connection database does not exist in the matrix hardware. (This may be due to a hardware failure or slowed system performance under heavy load conditions. Consequently, the RTRV-PATH-STS1 should be executed again if this value is returned in the output response.)

TO	STS1_AID:	
	{EC1STS1-{1-3840}}	(EC1STS1-EC1/STS1#)
	{OC3STS1-{1-2240}-{1-3}}	(OC3STS1-OC3#-STS1#)
	{OC12STS1-{1-560}-{1-4}-{1-3}}	(OC12STS1-OC12#-STM1#-STS1#)
	STS1 AID, identifies the TO STS-1 port.	

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid /* Unable to retrieve PATH NUMBER parameter. */ /* Invalid PATH NUMBER <path number> specified. */ /* Both FROM and TO facility must be STS1 AID. */
IIAC	Input, Invalid ACcess identifier /* Invalid FROM AID entered. */ /* Invalid TO AID entered. */
SDBE	Status, internal Data Base Error /* FROM TPid to supported TPid conversion error <errnum>. */ /* TO TPid to supported TPid conversion error <errnum>. */ /* Failed to get FROM TP DB record <TP record number> error <errnum>. */ /* Failed to get TO TP DB record <TP record number> error <errnum>. */ /* Error reading <AID> database record. */ /* Error reading <AID type> id:<parent ipu> database record */ /* Failed to read EM DB for shelf equipment (<shelf id>), status=<errnum>*/ /* Failed to get OC3 TP DB record <TP record number> error <errnum>.*/ /* Error reading matrix cable input database for bay <bay number> shelf <shelf number> */ /* Error reading eoc to es1 cable database for cable < cable num>. */ /* TPid to first stage Tmsl conversion error <errnum>. */ /* TPid to third stage Tmsl conversion error <errnum>. */ /* Unable to get connection pointer for TP type <tp type>, TP num <tp record number>, error <errnum>. */ /* Tmsl Path Retrieve error <errnum>. */ /* Error reading es1 to cs cable database for cable < cable number>. */ /* Error reading cs to es3 cable database for cable < cable number> .*/ /* Error reading matrix cable output database for cable < cable number>. */ /* Error reading eoc to io cable database for cable < cable number>. */
SNVS	Status, Not in Valid State /* FROM AID not as provisioned. */ /* TO AID not as provisioned. */ /* FROM AID must be in a provisioned or maintenance state. */ /* TO AID must be in a provisioned or maintenance state. */

SROF Status, Requested Operation Failed

```
/* FROM AID to string error <errnum>. */
/* FROM TPid to T3 TPid conversion error <errnum>. */
/*FROM TPid to T1 TPid conversion error <errnum>. */
/*FROM TPid to VT1 TPid conversion error <errnum>. */
/* FROM TPid to Tbss conversion error <errnum>. */
/* Invalid or unsupported card type, <card type>, encountered for <AID>. */
/* TO TPid to T3 TPid conversion error <errnum>. */
/* TO TPid to Tbss conversion error <errnum>. */
/* TO AID to string error <errnum>. */
/* Unable to convert the FROM TP type to a string error <errnum>. */
/* Unable to convert the TO TP type to a string error <errnum>. */
/*Unable to determine first stage card type for bay <bay number> shelf <shelf number>
  slot <slot number>.*/
/*Unable to determine center stage card type for bay <bay number> shelf <shelf number>
  slot <slot number>.*/
/*Unable to determine third stage card type for bay <bay number> shelf <shelf number>
  slot <slot number>.*/
/* Invalid matrix interface (<matrix interface type number>) encountered for <AID>. */
/* Unable to compute matrix input cable number for <AID>. */
/*Invalid SI protect board type (<card type>) for bay <bay number> shelf <shelf number>
  slot <slot number>.*/
/*Unable to get TP type and TP number for I/O equipment (<equipment id>).*/
```

EXAMPLES

In the following example, the internal system path from STS-1 port EC1STS1-195 to STS-1 port EC1STS1-207 is retrieved. The example shown assumes there is no cross-connection between the two STS-1 ports.

```
RTRV-PATH-STSt: :EC1STS1-195,EC1STS1-207;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of Pad567. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pad567 COMPLD
/* FROM STSt: EC1STS1-195,PATH=0 */
/* COPY 0: EP3-8-1-2 COPY 1: EP3-8-1-2 */
/* COPY 0: IPB-8-1-1 COPY 1: IPB-8-1-2 */
/* COPY 0: CBL-8-1-XA150F COPY 1: CBL-8-1-XA250H */
/* COPY 0: CBL-5-3-LX031H COPY 1: CBL-4-3-LX031H */
/* COPY 0: M16-5-3-9 COPY 1: M16-4-3-9 */
/* COPY 0: No connection COPY 1: No connection */
/* COPY 0: M16-5-3-13 COPY 1: M16-4-3-13 */
/* COPY 0: CBL-5-3-LX101E COPY 1: CBL-4-3-LX101E */
/* COPY 0: CBL-8-1-XA150C COPY 1: CBL-8-1-XA250E */
/* COPY 0: IPB-8-1-1 COPY 1: IPB-8-1-2 */
/* COPY 0: EP3-8-1-6 COPY 1: EP3-8-1-6 */
/* TO STSt: EC1STS1-207,PATH=0 */
/* RTRV-PATH-STSt: :EC1STS1-195,EC1STS1-207 [Pad567] (2) */
;
```

In the following example, the internal system path from STS-1 port EC1STS1-195 to STS-1 port EC1STS1-207 is retrieved. The example shown assumes that there is a cross-connection between the two STS-1 ports.

```
RTRV-PATH-STSt: :EC1STS1-195,EC1STS1-207;
```

The output response, shown below, assumes CID 3 was used to enter the command and a system generated CTAG value of Pad569. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pad569 COMPLD
/* FROM STSt: EC1STS1-195,PATH=0 */
/* COPY 0: EP3-8-1-2 COPY 1: EP3-8-1-2 */
/* COPY 0: IPB-8-1-1 COPY 1: IPB-8-1-2 */
/* COPY 0: CBL-8-1-XA150F COPY 1: CBL-8-1-XA250H */
/* COPY 0: CBL-5-3-LX031H COPY 1: CBL-4-3-LX031H */
/* COPY 0: M16-5-3-9 COPY 1: M16-4-3-9 */
/* COPY 0: CBL-5-3-LX041A COPY 1: CBL-4-3-LX041A */
/* COPY 0: CBL-2-3-UX031C COPY 1: CBL-3-3-UX031C */
/* COPY 0: M40-2-3-1 COPY 1: M40-3-3-1 */
/* COPY 0: CBL-2-3-UX131E COPY 1: CBL-3-3-UX131E */
/* COPY 0: CBL-5-3-LX101A COPY 1: CBL-4-3-LX101A */
/* COPY 0: M16-5-3-13 COPY 1: M16-4-3-13 */
/* COPY 0: CBL-5-3-LX101E COPY 1: CBL-4-3-LX101E */
/* COPY 0: CBL-8-1-XA150C COPY 1: CBL-8-1-XA250E */
/* COPY 0: IPB-8-1-1 COPY 1: IPB-8-1-2 */
/* COPY 0: EP3-8-1-6 COPY 1: EP3-8-1-6 */
/* TO STSt: EC1STS1-207,PATH=0 */
/* RTRV-PATH-STSt: :EC1STS1-195,EC1STS1-207 [Pad569] (3) */
;
```

In the following example, the pass through connection path between STS-1 port OC3STS1-65-1 and STS-1 port OC3STS1-66-1 is retrieved.

```
RTRV-PATH-STS1::OC3STS1-65-1,OC3STS1-66-1;
```

The output response, shown below, assumes CID 3 was used to enter the command and a system generated CTAG value of Pad569. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pad569 COMPLD
/* FROM STS1: OC3STS1-65-1,PATH=0 */
/* COPY 0: O1B-8-1-2 COPY 1: O1B-8-1-2 */
/* COPY 0: RPB-8-1-1 COPY 1: RPB-8-1-2 */
/* COPY 0: RPB-8-1-1 COPY 1: RPB-8-1-2 */
/* COPY 0: O1B-8-1-3 COPY 1: O1B-8-1-3 */
/* TO STS1: OC3STS1-66-1,PATH=0 */
/* RTRV-PATH-STS1::OC3STS1-65-1,OC3STS1-66-1 [Pad569] (3) */
;
```

RELATED COMMANDS

```
DGN-EQPT
ED-EQPT
ENT-CRS-STS1
ENT-EQPT
FLTLOC-PATH-STS1
INH-FL-EQPT
RMV-EQPT
RST-EQPT
RTRV-CRS
RTRV-CRS-STS1
RTRV-DGN-STATUS
RTRV-EQPT
RTRV-FL-EQPT
RTRV-STATE-EQPT
RTRV-STS1
```

COMMAND CODE: **RTRV-PATH-STS3C**
COMMAND NAME: **RETRIEVE CONNECTION PATH STS-3C**

PURPOSE

The RTRV-PATH-STS3C command retrieves the redundant internal paths of the specified pair of STS3C ports through the system. The command is executed regardless of the provisioning or cross-connection status of the specified ports.

The redundant internal paths through the system that are reported are the paths from the specified FROM STS3C AID to the specified TO STS3C AID. RTRV-PATH-STS3C does not report on the paths through the system from the specified TO STS3C AID to the specified FROM STS3C AID.

The successful response to a RTRV-PATH-STS3C command contains several lines of non-parsable output data, with each line of output identifying an element of the copy 0 and copy 1 data paths through the system. Refer to the Successful Response Format, below.

If a cross-connection does not exist between the specified FROM and TO ports, the AIDs of the I/O circuit packs and the end-state circuit packs to which the I/O circuit packs are connected, as well as the connecting cable identifiers, are reported.

A RTRV-PATH-STS3C command is denied if:

- Either the AID specified by FROM or TO is not in a provisioned state (no UAS secondary state).
- Both of the AIDs specified by FROM and TO are not STS3C.
- The specified STS3C is embedded within a protection OC3 or OC12.
- An invalid parameter value is entered.

INPUT FORMAT

RTRV-PATH-STS3C : [TID] : FROM, TO : [CTAG] : : [PATH] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
FROM	STS3C_AID: {OC3STS3C-{1-2240}} (OC3STS3C-OC3#/STS3C#) {OC12STS3C-{1-560}-{1-4}} (OC12STS3C-OC12#-STM1/STS3C#) Default: Entry Required Addressing: None Description: STS3C AID, specifies the FROM STS-3C port.
TO	STS3C_AID: {OC3STS3C-{1-2240}} (OC3STS3C-OC3#/STS3C#) {OC12STS3C-{1-560}-{1-4}} (OC12STS3C-OC12#-STM1/STS3C#) Default: Entry Required Addressing: None Description: STS3C AID, specifies the TO STS-3C port.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

PATH	{0–86}	
	Default:	{ 0 }
	Addressing:	None
	Description:	Path. Indicates which of the 87 paths, that the intact STS3C is divided into, is to be analyzed. Values are:
	0, 1, 2	The path over which the overhead is being transmitted.
	3 – 86	The path over which the 3–86 VT1.5 equivalent components are being transmitted.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
/* From STS3C: <FROM>,PATH=<value> */
/* Copy 0: <EQPT_AID> Copy 1: <EQPT_AID> */
....
/* Copy 0: <EQPT_AID> Copy 1: <EQPT_AID> */
/* To STS3C: <TO>,PATH=<value> */
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

OUTPUT PARAMETERS

FROM	STS3C_AID:	
	{OC3STS3C–{1–2240}}	(OC3STS3C–OC3#/STS3C#)
	{OC12STS3C–{1–560}–{1–4}}	(OC12STS3C–OC12#–STM1/STS3C#)
	STS3C AID, identifies the FROM STS–3C port.	
PATH=	{0–86}	
	Path, identifies which of the 87 paths, that the intact STS3C is divided into, is being reported. Values are:	
	0, 1, 2	The path over which the overhead is being transmitted is being reported.
	3 – 86	The path over which the 3–86 VT1.5 equivalent components are being transmitted is being reported.

EQPT_AID EQUIPMENT_AID:

{CBL-{6-9, 12-15, 18-21, 24-43, 112-135}-{1, 3}-
 {XA150B-XA150H, XA150J, XA250B-XA250H, XA250J,
 J1000A-J1000H, J2000A-J2000H},
CBL-{2, 3}-{1, 3}-
 {LX031B-LX031H, LX031J, UX031B-UX031H, UX031J,
 LX051B-LX051H, LX051J, UX051B-UX051H, UX051J,
 LX071B-LX071H, LX071J, UX071B-UX071H, UX071J,
 LX091B-LX091H, LX091J, UX091B-UX091H, UX091J,
 LX111B-LX111H, LX111J, UX111B-UX111H, UX111J,
 LX131B-LX131H, LX131J, UX131B-UX131H, UX131J,
 LX151B-LX151H, LX151J, UX151B-UX151H, UX151J,
 LX171B-LX171H, LX171J, UX171B-UX171H, UX171J},
CBL-{4, 5, 10, 11, 16, 17, 22, 23}-{1,3}-
 {LX031B, LX031C, LX031H, UX031B, UX031C, UX031H,
 LX041A-LX041H, LX041J, UX041A-UX041H, UX041J,
 LX051C, LX051H, LX051J, UX051C, UX051H, UX051J,
 LX061B, LX061C, LX061H, UX061B, UX061C, UX061H,
 LX071A-LX071H, LX071J, UX071A-UX071H, UX071J,
 LX081C, LX081H, LX081J, UX081C, UX081H, UX081J,
 LX091D, LX091E, LX091F, UX091D, UX091E, UX091F,
 LX101A-LX101H, LX101J, UX101A-UX101H, UX101J,
 LX111E, LX111F, LX111G, UX111E, UX111F, UX111G,
 LX121D, LX121E, LX121F, UX121D, UX121E, UX121F,
 LX131A-LX131H, LX131J, UX131A-UX131H, UX131J,
 LX141E, LX141F, LX141G, UX141E, UX141F, UX141G},
CBL-{4, 5, 10, 11, 16, 17, 22, 23}-1-
 {J1000A-J1000H, J1002A-J1002H, J1004A-J1004H, J1006A-J1006H,
 J2001A-J2001H, J2003A-J2003H, J2005A-J2005H,
 XA01B-XA01H, XA01J, XA03B-XA03H, XA03J,
 XA05B-XA05H, XA05J, XA07B-XA07H, XA07J,
 XA10B-XA10H, XA10J, XA12B-XA12H, XA012J,
 XA14B-XA14H, XA14J},
CBL-{44-63}-{1-4}-{1J1RX, 1J1TX, 2J1RX, 2J1TX},
CBL-{6-8, 12-14}-{1, 3}-
 {1J1RX, 1J1TX, 1J2RX, 1J2TX, 3J1RX, 3J1TX, 3J2RX, 3J2TX,
 5J1RX, 5J1TX, 5J2RX, 5J2TX, 7J1RX, 7J1TX, 7J2RX, 7J2TX,
 XA150B, XA151B, XA152B, XA153B, XA150D, XA151D, XA152D, XA153D,
 XA250B, XA251B, XA252B, XA253B, XA250D, XA251D, XA252D, XA253D}
CBL-{9}-3-{1J1RX, 1J1TX, 1J2RX, 1J2TX, 3J1RX, 3J1TX, 3J2RX, 3J2TX,
 5J1RX, 5J1TX, 5J2RX, 5J2TX, 7J1RX, 7J1TX, 7J2RX, 7J2TX,
 XA150B, XA151B, XA152B, XA153B, XA150D, XA151D, XA152D, XA153D,
 XA250B, XA251B, XA252B, XA253B, XA250D, XA251D, XA252D, XA253D},
CBL-{15}-1-{1J1RX, 1J1TX, 1J2RX, 1J2TX, 3J1RX, 3J1TX, 3J2RX, 3J2TX,
 5J1RX, 5J1TX, 5J2RX, 5J2TX, 7J1RX, 7J1TX, 7J2RX, 7J2TX,
 XA150B, XA151B, XA152B, XA153B, XA150D, XA151D, XA152D, XA153D,
 XA250B, XA251B, XA252B, XA253B, XA250D, XA251D, XA252D, XA253D}}
{CDB-{5}-{1, 3}-{1, 2}}
 CDB-{2-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1, 2}
{CDB-{5}-{1, 3}-{1, 2}}
{EOB-{5}-{1, 3}-{1-5}}
{SI48: EOB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2},
 EOC: EOB-{4-5, 10-11, 16-17, 22-23, **102**, **103**}-1-{1-7, 9-15}}
{IPB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2}}
{M16-{2-5, 10-11, 16-17, 22-23}-3-{1-16}}

```
{M32-{4-5, 10-11, 16-17, 22-23, 102, 103}-3-{1-16},
  M32-{5}-{1, 3}-{1-3, 6-8}}
{M40-{2-3}-{1, 3}-{1-16}}
{M40-{5}-{1, 3}-{4, 5, 9, 10}}
{O1B-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{2-9, 11-18}}
{O4M-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{2-3, 11-12}}
{RPB-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{1-2}}
{S3M-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{4-9, 13-18}}
{No connection.}
{Path not found.}
```

Equipment AID, identifies the equipment and cable entities that form the internal system path from the FROM STS3C port to the TO STS3C port. Non-AID values are:

No connection. The value {No connection.} is displayed in place of the center-stage circuit pack AID if a connection does not exist between the specified FROM and TO ports.

Path not found. The value {Path not found.} is displayed in place of the center-stage circuit pack AID if a connection in the cross-connection database does not exist in the matrix hardware. (This may be due to a hardware failure or slowed system performance under heavy load conditions. Consequently, the RTRV-PATH-ST3C should be executed again if this value is returned in the output response.)

TO	STS3C_AID:	
	{OC3STS3C-{1-2240}}	(OC3STS3C-OC3#/STS3C#)
	{OC12STS3C-{1-560}-{1-4}}	(OC12STS3C-OC12#-STM1/STS3C#)
	STS3C AID, identifies the TO STS-3C port.	

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/ * <Informational Error Description Text> */]
[/ * <Expanded Error Code Description> */]
[/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid
	/* Unable to retrieve PATH NUMBER parameter. */
	/* Invalid PATH NUMBER <path number> specified. */
	/* Both FROM and TO facility must be STS3C AID. */
IIAC	Input, Invalid ACcess identifier
	/* Invalid FROM AID entered. */
	/* Invalid TO AID entered. */

SDBE	<p>Status, internal Data Base Error</p> <p>/* FROM TPid to supported TPid conversion error <errnum>. */</p> <p>/* TO TPid to supported TPid conversion error <errnum>. */</p> <p>/* Failed to get FROM TP DB record <TP record number> error <errnum>. */</p> <p>/* Failed to get TO TP DB record <TP record number> error <errnum>. */</p> <p>/* Error reading <AID> database record. */</p> <p>/* Error reading <AID type> id:<parent ipu> database record */</p> <p>/* Failed to read EM DB for shelf equipment (<shelf id>), status=<errnum>*/</p> <p>/* Failed to get OC3/OC12 TP DB record <TP record number> error <errnum>. */</p> <p>/* Error reading matrix cable input database for bay <bay number> shelf <shelf number> */</p> <p>/* Error reading eoc to es1 cable database for cable < cable num>. */</p> <p>/* TPid to first stage Tmsl conversion error <errnum>. */</p> <p>/* TPid to third stage Tmsl conversion error <errnum>. */</p> <p>/* Unable to get connection pointer for TP type <tp type>, TP num <tp record number>, error <errnum>. */</p> <p>/* Tmsl Path Retrieve error <errnum>. */</p> <p>/* Error reading es1 to cs cable database for cable < cable number>. */</p> <p>/* Error reading cs to es3 cable database for cable < cable number> .*/</p> <p>/* Error reading matrix cable output database for cable < cable number>. */</p> <p>/* Error reading eoc to io cable database for cable < cable number>. */</p>
SNVS	<p>Status, Not in Valid State</p> <p>/* FROM AID not as provisioned. */</p> <p>/* TO AID not as provisioned. */</p> <p>/* FROM AID must be in a provisioned or maintenance state. */</p> <p>/* TO AID must be in a provisioned or maintenance state. */</p>
SROF	<p>Status, Requested Operation Failed</p> <p>/* FROM AID to string error <errnum>. */</p> <p>/* FROM TPid to T3 TPid conversion error <errnum>. */</p> <p>/*FROM TPid to T1 TPid conversion error <errnum>.*/</p> <p>/*FROM TPid to VT1 TPid conversion error <errnum>.*/</p> <p>/* FROM TPid to Tbss conversion error <errnum>. */</p> <p>/* Invalid or unsupported card type, <card type>, encountered for <AID>. */</p> <p>/* TO TPid to T3 TPid conversion error <errnum>. */</p> <p>/* TO TPid to Tbss conversion error <errnum>. */</p> <p>/* TO AID to string error <errnum>. */</p> <p>/* Unable to convert the FROM TP type to a string error <errnum>. */</p> <p>/* Unable to convert the TO TP type to a string error <errnum>. */</p> <p>/*Unable to determine first stage card type for bay <bay number> shelf <shelf number> slot <slot number>.*/</p> <p>/*Unable to determine center stage card type for bay <bay number> shelf <shelf number> slot <slot number>.*/</p> <p>/*Unable to determine third stage card type for bay <bay number> shelf <shelf number> slot <slot number>.*/</p> <p>/* Invalid matrix interface (<matrix interface type number>) encountered for <AID>. */</p> <p>/* Unable to compute matrix input cable number for <AID>. */</p> <p>/*Invalid SI protect board type (<card type>) for bay <bay number> shelf <shelf number> slot <slot number>.*/</p> <p>/*Unable to get TP type and TP number for I/O equipment (<equipment id>).*/</p>

EXAMPLES

In the following example, the internal system path from STS3C port OC3STS3C-3 to STS3C port OC3STS3C-15 is retrieved. The example shown assumes there is no cross-connection between the two STS3C ports.

```
RTRV-PATH-ST3C: :OC3STS3C-3,OC3STS3C-15;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of Pad567. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pad567 COMPLD
/* FROM STS3C: OC3STS3C-3,PATH=0 */
/* COPY 0: O1B-6-1-4 COPY 1: O1B-6-1-4 */
/* COPY 0: RPB-6-1-1 COPY 1: RPB-6-1-2 */
/* COPY 0: CBL-8-1-XA150F COPY 1: CBL-8-1-XA250H */
/* COPY 0: CBL-5-3-UX031B COPY 1: CBL-4-3-UX031B */
/* COPY 0: M16-5-3-1 COPY 1: M16-4-3-1 */
/* COPY 0: No connection COPY 1: No connection */
/* COPY 0: M16-5-3-5 COPY 1: M16-4-3-5 */
/* COPY 0: CBL-5-3-UX091F COPY 1: CBL-4-3-UX091F */
/* COPY 0: CBL-6-1-XA150D COPY 1: CBL-6-1-XA250B */
/* COPY 0: RPB-6-1-1 COPY 1: RPB-6-1-2 */
/* COPY 0: O1B-6-1-17 COPY 1: O1B-6-1-17 */
/* TO STS3C: OC3STS3C-15,PATH=0 */
/* RTRV-PATH-ST3C: :OC3STS3C-3,OC3STS3C-15 [Pad567] (2) */
;
```

In the following example, the internal system path from STS3C port OC3STS3C-3 to STS3C port OC3STS3C-15 is retrieved. The example shown assumes that there is a cross-connection between the two STS3C ports.

```
RTRV-PATH-ST3C: :OC3STS3C-3,OC3STS3C-15;
```

The output response, shown below, assumes CID 3 was used to enter the command and a system generated CTAG value of Pad569. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pad569 COMPLD
/* FROM STS3C: OC3STS3C-3,PATH=0 */
/* COPY 0: O1B-6-1-4 COPY 1: O1B-6-1-4 */
/* COPY 0: RPB-6-1-1 COPY 1: RPB-8-1-2 */
/* COPY 0: CBL-8-1-XA150F COPY 1: CBL-8-1-XA250H */
/* COPY 0: CBL-5-3-UX031B COPY 1: CBL-4-3-UX031B */
/* COPY 0: M16-5-3-1 COPY 1: M16-4-3-1 */
/* COPY 0: CBL-5-3-UX071A COPY 1: CBL-4-3-UX071A */
/* COPY 0: CBL-2-3-UX051B COPY 1: CBL-3-3-UX051B */
/* COPY 0: M40-2-3-2 COPY 1: M40-3-3-2 */
/* COPY 0: CBL-2-3-UX051D COPY 1: CBL-3-3-UX051D */
/* COPY 0: CBL-5-3-UX131A COPY 1: CBL-4-3-UX131A */
/* COPY 0: M16-5-3-5 COPY 1: M16-4-3-5 */
/* COPY 0: CBL-5-3-LX111G COPY 1: CBL-4-3-LX111G */
/* COPY 0: CBL-6-1-XA150D COPY 1: CBL-6-1-XA250B */
/* COPY 0: RPB-6-1-1 COPY 1: RPB-6-1-2 */
/* COPY 0: O1B-6-1-17 COPY 1: O1B-6-1-17 */
/* TO STS3C: OC3STS3C-15,PATH=0 */
/* RTRV-PATH-ST3C: :OC3STS3C-3,OC3STS3C-15 [Pad569] (3) */
;
```

RELATED COMMANDS

DGN-EQPT
ED-EQPT
ENT-CRS-STS3C
ENT-EQPT
FLTLOC-PATH-STS3C
INH-FL-EQPT
RMV-EQPT
RST-EQPT
RTRV-CRS
RTRV-CRS-STS3C
RTRV-DGN-STATUS
RTRV-EQPT
RTRV-FL-EQPT
RTRV-STATE-EQPT
RTRV-STS3C

COMMAND CODE: **RTRV-PATH-T1**
COMMAND NAME: **RETRIEVE CONNECTION PATH T1**

PURPOSE

The RTRV-PATH-T1 command retrieves the redundant internal paths of the specified pair of DS1 or VT1.5 ports through the system. The command is executed regardless of the provisioning or cross-connection status of the specified ports.

The redundant internal paths through the system that are reported are the paths from the specified FROM DS1 or VT1.5 AID to the specified TO DS1 or VT1.5 AID. RTRV-PATH-T1 does not report on the paths through the system from the specified TO DS1 or VT1.5 AID to the specified FROM DS1 or VT1.5 AID.

The successful response to a RTRV-PATH-T1 command contains several lines of non-parsable output data, with each line of output identifying an element of the copy 0 and copy 1 data paths through the system. Refer to the Successful Response Format, below.

If a cross-connection does not exist between the specified FROM and TO ports, the center-stage cable identifiers and center-stage circuit packs can not be determined and are therefore not reported. In this case, a line of output indicates that no cross-connection exists for the specified ports.

A RTRV-PATH-T1 command is denied if:

- If both the FROM and TO values identify a VT1.5 port.
- Either the AID specified by FROM or TO is not provisioned or is not in OOS-AUMA, UAS, MT state
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-PATH-T1 : [TID] : FROM, TO : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >		
	Default:	<SID>	
	Addressing:	None	
	Description:	Target Identifier, specifies the network node TID for the command.	
FROM	DS1_AID:		
	{T1-{1-59392}}		(T1-DS1#)
	{T3T1-{1-4800}-{1-28}}		(T3T1-DS3#-DS1#)
	{EC1T1-{1-3840}-{1-28}}		(EC1T1-EC1/STS1/DS3#-DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-28}}		(OC3T1-OC3#-STS1/DS3#-DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}		(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)
	VT1_AID:		
	{EC1VT1-{1-3840}-{1-7}-{1-4}}		(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)
	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}		(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)
	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}		
	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)		
	Default:	Entry Required	
	Addressing:	None	
	Description:	DS1 or VT1 AID, specifies the FROM DS1 or VT1.5 port.	
	Restrictions:	RTRV-PATH-T1 command is denied if both the specified FROM and TO values are VT1.5 AIDs.	

TO	DS1_AID:	
	{T1-{1-59392}}	(T1-DS1#)
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)
	{EC1T1-{1-3840}-{1-28}}	(EC1T1-EC1/STS1/DS3#-DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-28}}	(OC3T1-OC3#-STS1/DS3#-DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}	(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)
	VT1_AID:	
	{EC1VT1-{1-3840}-{1-7}-{1-4}}	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)
	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)
	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	
	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)	
	Default:	Entry Required
	Addressing:	None
	Description:	DS1 or VT1 AID, specifies the TO DS1 or VT1.5 port.
	Restrictions:	RTRV-PATH-T1 command is denied if both the specified TO and FROM values are VT1.5 AIDs.

CTAG	< 1-6 VALID CTAG CHARACTERS >
Default:	< System assigned CTAG value >
Addressing:	None
Description:	Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```

M  <SID> <YY-MM-DD> <HH:MM:SS>
   <CTAG> COMPLD
   /* From T1/VT1: <FROM> */
   /* Copy 0: <EQPT_AID>      Copy 1: <EQPT_AID> */
   . . . .
   /* Copy 0: <EQPT_AID>      Copy 1: <EQPT_AID> */
   /* To T1/VT1: <TO> */
   [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

OUTPUT PARAMETERS

FROM	DS1:	
	{T1-{1-59392}}	(T1-DS1#)
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)
	{EC1T1-{1-3840}-{1-28}}	(EC1T1-EC1/STS1/DS3#-DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-28}}	(OC3T1-OC3#-STS1/DS3#-DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}	(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)
	VT1_AID:	
	{EC1VT1-{1-3840}-{1-7}-{1-4}}	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)
	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)
	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	
	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)	
	DS1 or VT1 AID, identifies the FROM DS1 or VT1.5 port.	

EQPT_AID EQUIPMENT_AID:

{CBL-{6-9, 12-15, 18-21, 24-43, 112-135}-{1, 3}-
 {XA150B-XA150H, XA150J, XA250B-XA250H, XA250J,
 J1000A-J1000H, J2000A-J2000H},
CBL-{2, 3}-{1, 3}-
 {LX031B-LX031H, LX031J, UX031B-UX031H, UX031J,
 LX051B-LX051H, LX051J, UX051B-UX051H, UX051J,
 LX071B-LX071H, LX071J, UX071B-UX071H, UX071J,
 LX091B-LX091H, LX091J, UX091B-UX091H, UX091J,
 LX111B-LX111H, LX111J, UX111B-UX111H, UX111J,
 LX131B-LX131H, LX131J, UX131B-UX131H, UX131J,
 LX151B-LX151H, LX151J, UX151B-UX151H, UX151J,
 LX171B-LX171H, LX171J, UX171B-UX171H, UX171J},
CBL-{4, 5, 10, 11, 16, 17, 22, 23}-{1,3}-
 {LX031B, LX031C, LX031H, UX031B, UX031C, UX031H,
 LX041A-LX041H, LX041J, UX041A-UX041H, UX041J,
 LX051C, LX051H, LX051J, UX051C, UX051H, UX051J,
 LX061B, LX061C, LX061H, UX061B, UX061C, UX061H,
 LX071A-LX071H, LX071J, UX071A-UX071H, UX071J,
 LX081C, LX081H, LX081J, UX081C, UX081H, UX081J,
 LX091D, LX091E, LX091F, UX091D, UX091E, UX091F,
 LX101A-LX101H, LX101J, UX101A-UX101H, UX101J,
 LX111E, LX111F, LX111G, UX111E, UX111F, UX111G,
 LX121D, LX121E, LX121F, UX121D, UX121E, UX121F,
 LX131A-LX131H, LX131J, UX131A-UX131H, UX131J,
 LX141E, LX141F, LX141G, UX141E, UX141F, UX141G},
CBL-{4, 5, 10, 11, 16, 17, 22, 23}-1-
 {J1000A-J1000H, J1002A-J1002H, J1004A-J1004H, J1006A-J1006H,
 J2001A-J2001H, J2003A-J2003H, J2005A-J2005H,
 XA01B-XA01H, XA01J, XA03B-XA03H, XA03J,
 XA05B-XA05H, XA05J, XA07B-XA07H, XA07J,
 XA10B-XA10H, XA10J, XA12B-XA12H, XA012J,
 XA14B-XA14H, XA14J},
CBL-{44-63}-{1-4}-{1J1RX, 1J1TX, 2J1RX, 2J1TX},
CBL-{6-8, 12-14}-{1, 3}-
 {1J1RX, 1J1TX, 1J2RX, 1J2TX, 3J1RX, 3J1TX, 3J2RX, 3J2TX,
 5J1RX, 5J1TX, 5J2RX, 5J2TX, 7J1RX, 7J1TX, 7J2RX, 7J2TX,
 XA150B, XA151B, XA152B, XA153B, XA150D, XA151D, XA152D, XA153D,
 XA250B, XA251B, XA252B, XA253B, XA250D, XA251D, XA252D, XA253D}
CBL-{9}-3-{1J1RX, 1J1TX, 1J2RX, 1J2TX, 3J1RX, 3J1TX, 3J2RX, 3J2TX,
 5J1RX, 5J1TX, 5J2RX, 5J2TX, 7J1RX, 7J1TX, 7J2RX, 7J2TX,
 XA150B, XA151B, XA152B, XA153B, XA150D, XA151D, XA152D, XA153D,
 XA250B, XA251B, XA252B, XA253B, XA250D, XA251D, XA252D, XA253D},
CBL-{15}-1-{1J1RX, 1J1TX, 1J2RX, 1J2TX, 3J1RX, 3J1TX, 3J2RX, 3J2TX,
 5J1RX, 5J1TX, 5J2RX, 5J2TX, 7J1RX, 7J1TX, 7J2RX, 7J2TX,
 XA150B, XA151B, XA152B, XA153B, XA150D, XA151D, XA152D, XA153D,
 XA250B, XA251B, XA252B, XA253B, XA250D, XA251D, XA252D, XA253D}}
{CDB-{5}-{1, 3}-{1, 2}}
 CDB-{2-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1, 2}
{CDB-{5}-{1, 3}-{1, 2}}
{DSI-{44-63}-{1-4}-{1-32}}
{EOB-{5}-{1, 3}-{1-5}}
{SI48: EOB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2},
 EOC: EOB-{4-5, 10-11, 16-17, 22-23, **102, 103**}-1-{1-7, 9-15}}
{SI48: EP3-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42,

104–106,108–110, 136–141}–{1, 3}–{1–18},
 EP3–{9, 21, 35, 43, **107}**–3–{1–18},
 EP3–{15, 27, 31, 39, **111}**–1–{1–18}}
 {SI36: EP3–{6–8, 12–14}–{1, 3}–{1–14},
 EP3–9–3–{1–14},
 EP3–15–1–{1–14}}
 {SI48: ES1–{6–8, 12–14, 18–20, 24–26, 28–30, 32–34, 36–38, 40–42,
104–106,108–110,136–141}–{1, 3}–{1–18},
 ES1–{9, 21, 35, 43,**107}**–3–{1–18},
 ES1–{15, 27, 31, 39,**111}**–1–{1–18}}
 {SI36: ES1–{6–8, 12–14}–{1, 3}–{1–14},
 ES1–9–3–{1–14},
 ES1–15–1–{1–14}}
 {HMU–{44–53}–{1–4}–{1–8}}
 {IPB–{6–9, 12–15, 18–21, 24–43, **104–111, 112–135, 136–141}**–{1, 3}–{1–2}}
 {IOB–{6–8, 12–14}–{1, 3}–{1, 3, 5, 7},
 IOB–9–3–{1, 3, 5, 7},
 IOB–15–1–{1, 3, 5, 7}}
 {LMU–{44–53}–{1–4}–{1–32}}
 {M16–{2–5, 10–11, 16–17, 22–23}–3–{1–16}}
 {M32–{4–5, 10–11, 16–17, 22–23, **102, 103}**–3–{1–16},
 M32–{5}–{1, 3}–{1–3, 6–8}}
 {M40–{2–3}–{1, 3}–{1–16}}
 {M40–{5}–{1, 3}–{4, 5, 9, 10}}
 {O1B–{6–9, 12–15, 18–21, 24–43, **104–111, 112–135, 136–141}**–{1, 3}–{2–9, 11–18}}
 {O4M–{6–9, 12–15, 18–21, 24–43, **104–111, 112–135, 136–141}**–{1, 3}–{2–3, 11–12}}
 {OXB–{44–63}–{1–4}–{1–2}}
 {RPB–{6–9, 12–15, 18–21, 24–43, **104–111, 112–135, 136–141}**–{1, 3}–{1–2}}
 {S3M–{6–9, 12–15, 18–21, 24–43, **104–111, 112–135, 136–141}**–{1, 3}–{4–9, 13–18}}
 {No connection.}
 {Path not found.}

Equipment AID, identifies the equipment and cable entities that form the internal system path from the FROM DS1 or VT1.5 port to the TO DS1 or VT1.5 port. Non-AID values are:

- No connection. The value {No connection.} is displayed in place of the center-stage circuit pack AID if a connection does not exist between the specified FROM and TO ports.
- Path not found. The value {Path not found.} is displayed in place of the center-stage circuit pack AID if a connection in the cross-connection database does not exist in the matrix hardware. (This may be due to a hardware failure or slowed system performance under heavy load conditions. Consequently, the RTRV-PATH-T1 should be executed again if this value is returned in the output response.)

TO DS1_AID:
 {T1-{1-59392}} (T1-DS1#)
 {T3T1-{1-4800}-{1-28}} (T3T1-DS3#-DS1#)
 {EC1T1-{1-3840}-{1-28}} (EC1T1-EC1/STS1/DS3#-DS1#)
 {OC3T1-{1-2240}-{1-3}-{1-28}} (OC3T1-OC3#-STS1/DS3#-DS1#)
 {OC12T1-{1-560}-{1-4}-{1-3}-{1-28}} (OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)
 VT1_AID:
 {EC1VT1-{1-3840}-{1-7}-{1-4}} (EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)
 {OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}} (OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)
 {OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}} (OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)
 DS1 or VT1 AID, identifies the TO DS1 or VT1.5 port.

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV Input, Data Not Valid
 /* FROM and/or TO facility must be T1 AID. */

IIAC Input, Invalid ACcess identifier
 /* Invalid FROM AID entered. */
 /* Invalid TO AID entered. */

SDBE Status, internal Data Base Error
 /* Failed to get FROM TP DB record <TP record number> error <errnum>. */
 /* Failed to get TO TP DB record <TP record number> error <errnum>. */
 /* Error reading <AID> database record. */
 /* Error reading <AID type> id:<parent ipu> database record */
 /* Failed to read EM DB for shelf equipment (<shelf id>), status=<errnum>. */
 /* Failed to get OC3 TP DB record <TP record number> error <errnum>. */
 /* Error reading matrix cable input database for bay <bay number> shelf <shelf number>
 */
 /* Error reading eoc to es1 cable database for cable <cable num>. */
 /* TPid to first stage Tmsl conversion error <errnum>. */
 /* TPid to third stage Tmsl conversion error <errnum>. */
 /* Unable to get connection pointer for TP type <tp type>, TP num <tp record number>,
 error <errnum>. */
 /* Unable to get QRS pointer for TP type <tp type>, TP num <tp num>, error <errnum>.
 */
 /* Invalid from_cid <connect id num> in connection database for TP type <tp type>, TP
 num <tp num>. */
 /* Tmsl Path Retrieve error <errnum>. */
 /* Error reading es1 to cs cable database for cable <cable number>. */
 /* Error reading cs to es3 cable database for cable <cable number>. */
 /* Error reading matrix cable output database for cable <cable number>. */
 /* Error reading eoc to io cable database for cable <cable number>. */

SNVS Status, Not in Valid State
 /* FROM AID not as provisioned. */
 /* TO AID not as provisioned. */
 /* FROM AID must be in a provisioned or maintenance state. */
 /* TO AID must be in a provisioned or maintenance state. */

SROF Status, Requested Operation Failed
 /* FROM AID to string error <errnum>. */
 /* FROM TPid to Tbss conversion error <errnum>. */
 /* FROM Physical TPid to Tbss conversion error <errnum>. */
 /* Invalid or unsupported card type, <card type>, encountered for <AID>. */
 /* Invalid physical TP type <tp type> encountered for <AID>. */
 /* TO TPid to Tbss conversion error <errnum>. */
 /* TO Physical to Tbss conversion error <errnum>. */
 /* TO AID to string error <errnum>. */
 /* Unable to convert the FROM TP type to a string error <errnum>. */
 /* Unable to convert the TO TP type to a string error <errnum>. */
 /*Unable to determine first stage card type for bay <bay number> shelf <shelf number>
 slot <slot number>.*/
 /*Unable to determine center stage card type for bay <bay number> shelf <shelf number>
 slot <slot number>.*/
 /*Unable to determine third stage card type for bay <bay number> shelf <shelf number>
 slot <slot number>.*/
 /* Invalid matrix interface (<matrix interface type number>) encountered for <AID>. */
 /* Unable to compute matrix input cable number for <AID>. */
 /* Invalid SI protect board type (<card type>) for bay <bay number> shelf <shelf number>
 slot <slot number>.*/
 /* Unable to get physical termination point identifier for <AID>. */
 /* Unable to get TP type and TP number for I/O equipment (<equipment id>). */

EXAMPLES

In the following example, the internal system path from DS1 port T3T1-1155-2 to DS1 port T3T1-1177-6 is retrieved. The example shown assumes there is no cross-connection between the two DS1 ports.

```
RTRV-PATH-T1: :T3T1-1155-2, T3T1-1177-6;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of Pad567. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pad567 COMPLD
/* FROM T1/VT1: T3T1-1155-2 */
/* COPY 0: EP3-8-1-2 COPY 1: EP3-8-1-2 */
/* COPY 0: IPB-8-1-1 COPY 1: IPB-8-1-2 */
/* COPY 0: CBL-8-1-XA150F COPY 1: CBL-8-1-XA250H */
/* COPY 0: CBL-5-3-LX031H COPY 1: CBL-4-3-LX031H */
/* COPY 0: M16-5-3-9 COPY 1: M16-4-3-9 */
/* COPY 0: No connection COPY 1: No connection */
/* COPY 0: M16-5-3-14 COPY 1: M16-4-3-14 */
/* COPY 0: CBL-5-3-LX111G COPY 1: CBL-4-3-LX111G */
/* COPY 0: CBL-3-XA150B COPY 1: CBL-3-XA250D */
/* COPY 0: IPB-8-1-1 COPY 1: IPB-8-1-2 */
/* COPY 0: EP3-8-1-11 COPY 1: EP3-8-1-11 */
/* TO T1/VT1: T3T1-1177-6 */
/* RTRV-PATH-T1: :T3T1-1155-2, T3T1-1177-6 [Pad567] (2) */
;
```

In the following example, the internal system path from DS1 port T3T1-1155-2 to DS1 port T3T1-1177-6 is retrieved. The example shown assumes that there is a cross-connection between the two DS1 ports.

```
RTRV-PATH-T1: :T3T1-1155-2, T3T1-1177-6;
```

The output response, shown below, assumes CID 3 was used to enter the command and a system generated CTAG value of Pad569. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pad569 COMPLD
/* FROM T1/VT1: T3T1-1155-2 */
/* COPY 0: EP3-8-1-2 COPY 1: EP3-8-1-2 */
/* COPY 0: IPB-8-1-1 COPY 1: IPB-8-1-2 */
/* COPY 0: CBL-8-1-XA150F COPY 1: CBL-8-1-XA250H */
/* COPY 0: CBL-5-3-LX031H COPY 1: CBL-4-3-LX031H */
/* COPY 0: M16-5-3-9 COPY 1: M16-4-3-9 */
/* COPY 0: CBL-5-3-UX071A COPY 1: CBL-4-3-UX071A */
/* COPY 0: CBL-2-3-UX051B COPY 1: CBL-3-3-UX051B */
/* COPY 0: M16-2-3-2 COPY 1: M16-3-3-2 */
/* COPY 0: CBL-2-3-UX111E COPY 1: CBL-3-3-UX111E */
/* COPY 0: CBL-5-3-LX101C COPY 1: CBL-4-3-LX101C */
/* COPY 0: M16-5-3-14 COPY 1: M16-4-3-14 */
/* COPY 0: CBL-5-3-LX111G COPY 1: CBL-4-3-LX111G */
/* COPY 0: CBL-8-1-XA150B COPY 1: CBL-8-1-XA250D */
/* COPY 0: IPB-8-1-1 COPY 1: IPB-8-1-2 */
/* COPY 0: EP3-8-1-11 COPY 1: EP3-8-1-11 */
/* TO T1/VT1: T3T1-1177-6 */
/* RTRV-PATH-T1: :T3T1-1155-2, T3T1-1155-2 [Pad569] (3) */
;
```

RELATED COMMANDS

DGN-EQPT

ED-EQPT
ENT-CRS-T1
ENT-EQPT
FLTLOC-PATH-T1
INH-FL-EQPT
RMV-EQPT
RST-EQPT
RTRV-CRS
RTRV-CRS-T1
RTRV-DGN-STATUS
RTRV-EQPT
RTRV-FL-EQPT
RTRV-STATE-EQPT
RTRV-T1

COMMAND CODE: **RTRV-PATH-T3**
COMMAND NAME: **RETRIEVE CONNECTION PATH T3**

PURPOSE

The RTRV-PATH-T3 command retrieves the redundant internal paths of the specified pair of DS3 or STS-1 ports through the system. The command is executed regardless of the provisioning or cross-connection status of the specified ports.

The redundant internal paths through the system that are reported are the paths from the specified FROM DS3 or STS-1 AID to the specified TO DS3 or STS-1 AID. RTRV-PATH-T3 does not report on the paths through the system from the specified TO DS3 or STS-1 AID to the specified FROM DS3 or STS-1 AID.

The successful response to a RTRV-PATH-T3 command contains several lines of non-parsable output data, with each line of output identifying an element of the copy 0 and copy 1 data paths through the system. Refer to the Successful Response Format, below.

If a cross-connection does not exist between the specified FROM and TO ports, the center-stage cable identifiers and center-stage circuit packs can not be determined and are therefore not reported. In this case, a line of output indicates that no cross-connection exists for the specified ports.

A RTRV-PATH-T3 command is denied if:

- If both the FROM and TO values identify an STS-1 port.
- Either the AID specified by FROM or TO is not provisioned or is not in OOS-AUMA, UAS, MT state
- The specified STS-1 is embedded within a protection OC-3 or OC-12.
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-PATH-T3 : [TID] : FROM, TO : [CTAG] : : [PATH] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >		
	Default:	<SID>	
	Addressing:	None	
	Description:	Target Identifier, specifies the network node TID for the command.	
FROM	DS3_AID:		
	{T3-{1-4800}}	(T3-DS3#)	
	STS1_AID:		
	{EC1STS1-{1-3840}}	(EC1STS1-EC1/STS1#)	
	{OC3STS1-{1-2240}-{1-3}}	(OC3STS1-OC3#-STS1#)	
	{OC12STS1-{1-560}-{1-4}-{1-3}}	(OC12STS1-OC12#-STM1#-STS1#)	
	Default:	Entry Required	
	Addressing:	None	
	Description:	DS3 or STS1 AID, specifies the FROM DS3 or STS-1 port.	
	Restrictions:	RTRV-PATH-T3 command is denied if both the specified FROM and TO values are an STS-1 AID.	
TO	DS3_AID:		
	{T3-{1-4800}}	(T3-DS3#)	
	STS1_AID:		
	{EC1STS1-{1-3840}}	(EC1STS1-EC1/STS1#)	
	{OC3STS1-{1-2240}-{1-3}}	(OC3STS1-OC3#-STS1#)	
	{OC12STS1-{1-560}-{1-4}-{1-3}}	(OC12STS1-OC12#-STM1#-STS1#)	
	Default:	Entry Required	
	Addressing:	None	
	Description:	DS3 or STS1 AID, specifies the TO DS3 or STS-1 port.	
	Restrictions:	RTRV-PATH-T3 command is denied if both the specified TO and FROM values are an STS-1 AID.	

CTAG	< 1–6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
PATH	{0, 1–28} Default: { 0 } Addressing: None Description: Path. Indicates which of the 29 paths, that the intact STS1 is divided into, is to be analyzed. Values are: 0 The path over which the overhead is being transmitted. 1–28 The path over which the 1–28 VT1.5 equivalent components are being transmitted..

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
/* From T3/STS1: <FROM>, PATH=<value> */
/* Copy 0: <EQPT_AID> Copy 1: <EQPT_AID> */
....
/* Copy 0: <EQPT_AID> Copy 1: <EQPT_AID> */
/* To T3/STS1: <TO>, PATH=<value> */
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

FROM	DS3_AID: {T3-{1–4800}} (T3–DS3#) STS1_AID: {EC1STS1-{1–3840}} (EC1STS1–EC1/STS1#) {OC3STS1-{1–2240}-{1–3}} (OC3STS1–OC3#–STS1#) {OC12STS1-{1–560}-{1–4}-{1–3}} (OC12STS1–OC12#–STM1#–STS1#) DS3 or STS1 AID, identifies the FROM DS3 or STS–1 port.
PATH=	{0–28} Path, identifies which of the paths, that the intact T3 is divided into, is being reported. Values are: 0 The path over which the overhead is being transmitted is being reported. 1–28 The path over which the 1–28 T1 equivalent components are being transmitted is being reported.

EQPT_AID EQUIPMENT_AID:

 {CBL-{6-9, 12-15, 18-21, 24-43, 112-135}-{1, 3}-
 {XA150B-XA150H, XA150J, XA250B-XA250H, XA250J,
 J1000A-J1000H, J2000A-J2000H},
 CBL-{2, 3}-{1, 3}-
 {LX031B-LX031H, LX031J, UX031B-UX031H, UX031J,
 LX051B-LX051H, LX051J, UX051B-UX051H, UX051J,
 LX071B-LX071H, LX071J, UX071B-UX071H, UX071J,
 LX091B-LX091H, LX091J, UX091B-UX091H, UX091J,
 LX111B-LX111H, LX111J, UX111B-UX111H, UX111J,
 LX131B-LX131H, LX131J, UX131B-UX131H, UX131J,
 LX151B-LX151H, LX151J, UX151B-UX151H, UX151J,
 LX171B-LX171H, LX171J, UX171B-UX171H, UX171J},
 CBL-{4, 5, 10, 11, 16, 17, 22, 23}-{1,3}-
 {LX031B, LX031C, LX031H, UX031B, UX031C, UX031H,
 LX041A-LX041H, LX041J, UX041A-UX041H, UX041J,
 LX051C, LX051H, LX051J, UX051C, UX051H, UX051J,
 LX061B, LX061C, LX061H, UX061B, UX061C, UX061H,
 LX071A-LX071H, LX071J, UX071A-UX071H, UX071J,
 LX081C, LX081H, LX081J, UX081C, UX081H, UX081J,
 LX091D, LX091E, LX091F, UX091D, UX091E, UX091F,
 LX101A-LX101H, LX101J, UX101A-UX101H, UX101J,
 LX111E, LX111F, LX111G, UX111E, UX111F, UX111G,
 LX121D, LX121E, LX121F, UX121D, UX121E, UX121F,
 LX131A-LX131H, LX131J, UX131A-UX131H, UX131J,
 LX141E, LX141F, LX141G, UX141E, UX141F, UX141G},
 CBL-{4, 5, 10, 11, 16, 17, 22, 23}-1-
 {J1000A-J1000H, J1002A-J1002H, J1004A-J1004H, J1006A-J1006H,
 J2001A-J2001H, J2003A-J2003H, J2005A-J2005H,
 XA01B-XA01H, XA01J, XA03B-XA03H, XA03J,
 XA05B-XA05H, XA05J, XA07B-XA07H, XA07J,
 XA10B-XA10H, XA10J, XA12B-XA12H, XA012J,
 XA14B-XA14H, XA14J},
 CBL-{44-63}-{1-4}-{1J1RX, 1J1TX, 2J1RX, 2J1TX},
 CBL-{6-8, 12-14}-{1, 3}-
 {1J1RX, 1J1TX, 1J2RX, 1J2TX, 3J1RX, 3J1TX, 3J2RX, 3J2TX,
 5J1RX, 5J1TX, 5J2RX, 5J2TX, 7J1RX, 7J1TX, 7J2RX, 7J2TX,
 XA150B, XA151B, XA152B, XA153B, XA150D, XA151D, XA152D, XA153D,
 XA250B, XA251B, XA252B, XA253B, XA250D, XA251D, XA252D, XA253D}
 CBL-{9}-3-{1J1RX, 1J1TX, 1J2RX, 1J2TX, 3J1RX, 3J1TX, 3J2RX, 3J2TX,
 5J1RX, 5J1TX, 5J2RX, 5J2TX, 7J1RX, 7J1TX, 7J2RX, 7J2TX,
 XA150B, XA151B, XA152B, XA153B, XA150D, XA151D, XA152D, XA153D,
 XA250B, XA251B, XA252B, XA253B, XA250D, XA251D, XA252D, XA253D},
 CBL-{15}-1-{1J1RX, 1J1TX, 1J2RX, 1J2TX, 3J1RX, 3J1TX, 3J2RX, 3J2TX,
 5J1RX, 5J1TX, 5J2RX, 5J2TX, 7J1RX, 7J1TX, 7J2RX, 7J2TX,
 XA150B, XA151B, XA152B, XA153B, XA150D, XA151D, XA152D, XA153D,
 XA250B, XA251B, XA252B, XA253B, XA250D, XA251D, XA252D, XA253D}}
 {CDB-{5}-{1, 3}-{1, 2}}
 CDB-{2-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1, 2}
 {CDB-{5}-{1, 3}-{1, 2}}
 {EOB-{5}-{1, 3}-{1-5}}
 {SI48: EOB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2},
 EOC: EOB-{4-5, 10-11, 16-17, 22-23, **102**, **103**}-1-{1-7, 9-15}}
 {SI48: EP3-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42,
 104-106, **108-110**, **136-141**}-{1, 3}-{1-18},

EP3-{9, 21, 35, 43, **107**}-3-{1-18},
EP3-{15, 27, 31, 39, **111**}-1-{1-18}}
{SI36: EP3-{6-8, 12-14}-{1, 3}-{1-14},
EP3-9-3-{1-14},
EP3-15-1-{1-14}}
{SI48: ES1-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42,
104-106, 108-110, 136-141}-{1, 3}-{1-18},
ES1-{9, 21, 35, 43, **107**}-3-{1-18},
ES1-{15, 27, 31, 39, **111**}-1-{1-18}}
{SI36: ES1-{6-8, 12-14}-{1, 3}-{1-14},
ES1-9-3-{1-14},
ES1-15-1-{1-14}}
{IOB-{6-8, 12-14}-{1, 3}-{1, 3, 5, 7},
IOB-9-3-{1, 3, 5, 7},
IOB-15-1-{1, 3, 5, 7}}
{IPB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2}}
{M16-{2-5, 10-11, 16-17, 22-23}-3-{1-16}}
{M32-{4-5, 10-11, 16-17, 22-23, **102, 103**}-3-{1-16},
M32-{5}-{1, 3}-{1-3, 6-8}}
{M40-{2-3}-{1, 3}-{1-16}}
{M40-{5}-{1, 3}-{4, 5, 9, 10}}
{O1B-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{2-9, 11-18}}
{O4M-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{2-3, 11-12}}
{OXB-{44-63}-{1-4}-{1-2}}
{RPB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2}}
{S3M-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{4-9, 13-18}}
{No connection.}
{Path not found.}

Equipment AID, identifies the equipment and cable entities that form the internal system path from the FROM DS3 or STS-1 port to the TO DS3 or STS-1 port. Non-AID values are:

- No connection. The value {No connection.} is displayed in place of the center-stage circuit pack AID if a connection does not exist between the specified FROM and TO ports.
- Path not found. The value {Path not found.} is displayed in place of the center-stage circuit pack AID if a connection in the cross-connection database does not exist in the matrix hardware. (This may be due to a hardware failure or slowed system performance under heavy load conditions. Consequently, the RTRV-PATH-T3 should be executed again if this value is returned in the output response.)

TO

DS3_AID:

{T3-{1-4800}} (T3-DS3#)

STS1_AID:

{EC1STS1-{1-3840}} (EC1STS1-EC1/STS1#)

{OC3STS1-{1-2240}-{1-3}} (OC3STS1-OC3#-STS1#)

{OC12STS1-{1-560}-{1-4}-{1-3}} (OC12STS1-OC12#-STM1#-STS1#)

DS3 or STS1 AID, identifies the TO DS3 or STS-1 port.

UNSUCCESSFUL RESPONSE FORMAT

```

    <SID> <YY-MM-DD> <HH:MM:SS>
M  <CTAG> DENY
    <ERROR CODE>
    [/* <Informational Error Description Text> */]
    [/* <Expanded Error Code Description> */]
    [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid /* Unable to retrieve PATH NUMBER parameter */ /* Invalid PATH NUMBER <path number> specified. */ /* FROM and/or TO facility must be T3 AID. */
IIAC	Input, Invalid ACcess identifier /* Invalid FROM AID entered. */ /* Invalid TO AID entered. */
SDBE	Status, internal Data Base Error /* FROM TPid to supported TPid conversion error <errnum>. */ /* TO TPid to supported TPid conversion error <errnum>. */ /* Failed to get FROM TP DB record <TP record number> error <errnum>. */ /* Failed to get TO TP DB record <TP record number> error <errnum>. */ /* Error reading <AID> database record. */ /* Error reading <AID type> id:<parent ipu> database record */ /* Failed to read EM DB for shelf equipment (<shelf id>), status=<errnum>. */ /* Failed to get OC3 TP DB record <TP record number> error <errnum>. */ /* Error reading matrix cable input database for bay <bay number> shelf <shelf number> */ /* Error reading eoc to es1 cable database for cable <cablenum>. */ /* TPid to first stage Tmsl conversion error <errnum>. */ /* TPid to third stage Tmsl conversion error <errnum>. */ /* Unable to get connection pointer for TP type <tp type>, TP num <tp record number>, error <errnum>. */ /* Tmsl Path Retrieve error <errnum>. */ /* Error reading es1 to cs cable database for cable <cablenumber>. */ /* Error reading cs to es3 cable database for cable <cablenumber> .*/ /* Error reading matrix cable output database for cable <cablenumber>. */ /* Error reading eoc to io cable database for cable <cablenumber>. */
SNVS	Status, Not in Valid State /* FROM AID not as provisioned. */ /* TO AID not as provisioned. */ /* FROM AID must be in a provisioned or maintenance state. */ /* TO AID must be in a provisioned or maintenance state. */

SROF Status, Requested Operation Failed

- /* FROM AID to string error <errnum>. */
- /* FROM TPid to T3 TPid conversion error <errnum>. */
- /* FROM TPid to Tbss conversion error <errnum>. */
- /* Invalid or unsupported card type, <card type>, encountered for <AID>. */
- /* TO TPid to T3 TPid conversion error <errnum>. */
- /* TO TPid to Tbss conversion error <errnum>. */
- /* TO AID to string error <errnum>. */
- /* Unable to convert the FROM TP type to a string error <errnum>. */
- /* Unable to convert the TO TP type to a string error <errnum>. */
- /*Unable to determine first stage card type for bay <bay number> shelf <shelf number>
slot <slot number>.*/*
- /*Unable to determine center stage card type for bay <bay number> shelf <shelf number>
slot <slot number>.*/*
- /*Unable to determine third stage card type for bay <bay number> shelf <shelf number>
slot <slot number>.*/*
- /* Invalid matrix interface (<matrix interface type number>) encountered for <AID>. */
- /* Unable to compute matrix input cable number for <AID>. */
- /* Invalid SI protect board type (<card type>) for bay <bay number> shelf <shelf number>
slot <slot number>.*/*
- /* Unable to get TP type and TP number for I/O equipment (<equipment id>). */

EXAMPLES

In the following example, the internal system path from DS3 port T3-961 to DS3 port T3-1000 is retrieved. The example shown assumes there is no cross-connection between the two DS3 ports.

```
RTRV-PATH-T3::T3-961,T3-1000;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of P49525. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P49525 COMPLD
/* FROM T3: T3-961,PATH=0 */
/* COPY 0: EP3-6-1-2 COPY 1: EP3-6-1-2 */
/* COPY 0: IPB-6-1-1 COPY 1: IPB-6-1-2 */
/* COPY 0: CBL-6-1-XA150F COPY 1: CBL-6-1-XA250H */
/* COPY 0: CBL-5-3-UX031B COPY 1: CBL-4-3-UX031B */
/* COPY 0: M16-5-3-1 COPY 1: M16-4-3-1 */
/* COPY 0: No connection. COPY 1: No connection. */
/* COPY 0: M16-5-3-5 COPY 1: M16-4-3-5 */
/* COPY 0: CBL-5-3-UX101E COPY 1: CBL-4-3-UX101E */
/* COPY 0: CBL-6-1-XA150E COPY 1: CBL-6-1-XA250C */
/* COPY 0: IPB-6-1-1 COPY 1: IPB-6-1-2 */
/* COPY 0: EP3-6-1-16 COPY 1: EP3-6-1-16 */
/* TO T3: T3-1000,PATH=0 */
/* RTRV-PATH-T3::T3-961,T3-1000 [P49525] (3-2) */
```

;

In the following example, the internal system path from DS3 port T3-981 to DS3 port T3-1548 is retrieved. The example shown assumes that there is a cross-connection between the two DS3 ports.

```
RTRV-PATH-T3::T3-981,T3-1548;
```

The output response, shown below, assumes CID 3 was used to enter the command and a system generated CTAG value of P49552. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P49552 COMPLD
/* FROM T3: T3-981,PATH=0 */
/* COPY 0: EP3-6-1-8 COPY 1: EP3-6-1-8 */
/* COPY 0: IPB-6-1-1 COPY 1: IPB-6-1-2 */
/* COPY 0: CBL-6-1-XA150G COPY 1: CBL-6-1-XA250J */
/* COPY 0: CBL-5-3-UX031C COPY 1: CBL-4-3-UX031C */
/* COPY 0: M16-5-3-1 COPY 1: M16-4-3-1 */
/* COPY 0: CBL-5-3-UX041A COPY 1: CBL-4-3-UX041A */
/* COPY 0: CBL-2-3-UX031B COPY 1: CBL-3-3-UX031B */
/* COPY 0: M40-2-3-1 COPY 1: M40-3-3-1 */
/* COPY 0: CBL-2-3-UX051G COPY 1: CBL-3-3-UX051G */
/* COPY 0: CBL-10-3-LX101A COPY 1: CBL-11-3-LX101A */
/* COPY 0: M16-10-3-13 COPY 1: M16-11-3-13 */
/* COPY 0: CBL-10-3-LX091F COPY 1: CBL-11-3-LX091F */
/* COPY 0: CBL-10-1-XA10F COPY 1: CBL-11-1-XA10F */
/* COPY 0: EOB-10-1-10 COPY 1: EOB-11-1-10 */
/* COPY 0: CBL-10-1-J2001B COPY 1: CBL-11-1-J2001B */
/* COPY 0: CBL-14-1-J1000A COPY 1: CBL-14-1-J2000E */
/* COPY 0: EOB-14-1-1 COPY 1: EOB-14-1-5 */
/* COPY 0: IPB-14-1-1 COPY 1: IPB-14-1-2 */
/* COPY 0: EP3-14-1-5 COPY 1: EP3-14-1-5 */
/* TO T3: T3-1548,PATH=0 */
/* RTRV-PATH-T3::T3-981,T3-1548 [P49552] (3-2) */
;
```

RELATED COMMANDS

```
DGN-EQPT
ED-EQPT
ENT-CRS-T3
ENT-EQPT
FLTLOC-PATH-T3
INH-FL-EQPT
RMV-EQPT
RST-EQPT
RTRV-CRS
RTRV-CRS-T3
RTRV-DGN-STATUS
RTRV-EQPT
RTRV-FL-EQPT
RTRV-STATE-EQPT
RTRV-T3
```

COMMAND CODE: **RTRV-PATH-VT1**
COMMAND NAME: **RETRIEVE CONNECTION PATH VT1**

PURPOSE

The RTRV-PATH-VT1 command retrieves the redundant internal paths of the specified pair of VT1.5 ports through the system. The command is executed regardless of the provisioning or cross-connection status of the specified ports.

The redundant internal paths through the system that are reported are the paths from the specified FROM VT1.5 AID to the specified TO VT1.5 AID. RTRV-PATH-VT1 does not report on the paths through the system from the specified TO VT1.5 AID to the specified FROM VT1.5 AID.

The successful response to a RTRV-PATH-VT1 command contains several lines of non-parsable output data, with each line of output identifying an element of the copy 0 and copy 1 data paths through the system. Refer to the Successful Response Format, below.

If a cross-connection does not exist between the specified FROM and TO ports, the center-stage cable identifiers and center-stage circuit packs can not be determined and are therefore not reported. In this case, a line of output indicates that no cross-connection exists for the specified ports.

A RTRV-PATH-VT1 command is denied if:

- Either the AID specified by FROM or TO is not provisioned or is not in OOS-AUMA, UAS, MT state
- An invalid parameter value is entered.

INPUT FORMAT

RTRV-PATH-VT1 : [TID] : FROM, TO : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
FROM	VT1_AID: {EC1VT1-{1-3840}-{1-7}-{1-4}} (EC1VT1-EC1/STS1#-VTGrp#-VT1.5#) {OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}} (OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#) {OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}} (OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#) Default: Entry Required Addressing: None Description: VT1 AID, specifies the FROM VT1.5 port.
TO	VT1_AID: {EC1VT1-{1-3840}-{1-7}-{1-4}} (EC1VT1-EC1/STS1#-VTGrp#-VT1.5#) {OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}} (OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#) {OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}} (OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#) Default: Entry Required Addressing: None Description: VT1 AID, specifies the TO VT1.5 port.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```

M  <SID> <YY-MM-DD> <HH:MM:SS>
   <CTAG> COMPLD
   /* From VT1: <FROM> */
   /* Copy 0: <EQPT_AID>      Copy 1: <EQPT_AID> */
   ....
   /* Copy 0: <EQPT_AID>      Copy 1: <EQPT_AID> */
   /* To VT1: <TO> */
   [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

FROM VT1_AID:
{EC1VT1-{1-3840}-{1-7}-{1-4}} (EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)
{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}} (OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)
{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}
(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)
VT1 AID, identifies the FROM VT1.5 port.

EQPT_AID EQUIPMENT_AID:
{CBL-{6-9, 12-15, 18-21, 24-43, 112-135}-{1, 3}-
{XA150B-XA150H, XA150J, XA250B-XA250H, XA250J,
J1000A-J1000H, J2000A-J2000H}},
CBL-{2, 3}-{1, 3}-
{LX031B-LX031H, LX031J, UX031B-UX031H, UX031J,
LX051B-LX051H, LX051J, UX051B-UX051H, UX051J,
LX071B-LX071H, LX071J, UX071B-UX071H, UX071J,
LX091B-LX091H, LX091J, UX091B-UX091H, UX091J,
LX111B-LX111H, LX111J, UX111B-UX111H, UX111J,
LX131B-LX131H, LX131J, UX131B-UX131H, UX131J,
LX151B-LX151H, LX151J, UX151B-UX151H, UX151J,
LX171B-LX171H, LX171J, UX171B-UX171H, UX171J}},
CBL-{4, 5, 10, 11, 16, 17, 22, 23}-{1,3}-
{LX031B, LX031C, LX031H, UX031B, UX031C, UX031H,
LX041A-LX041H, LX041J, UX041A-UX041H, UX041J,
LX051C, LX051H, LX051J, UX051C, UX051H, UX051J,
LX061B, LX061C, LX061H, UX061B, UX061C, UX061H,
LX071A-LX071H, LX071J, UX071A-UX071H, UX071J,
LX081C, LX081H, LX081J, UX081C, UX081H, UX081J,
LX091D, LX091E, LX091F, UX091D, UX091E, UX091F,
LX101A-LX101H, LX101J, UX101A-UX101H, UX101J,
LX111E, LX111F, LX111G, UX111E, UX111F, UX111G,
LX121D, LX121E, LX121F, UX121D, UX121E, UX121F,
LX131A-LX131H, LX131J, UX131A-UX131H, UX131J,
LX141E, LX141F, LX141G, UX141E, UX141F, UX141G}},
CBL-{4, 5, 10, 11, 16, 17, 22, 23}-1-
{J1000A-J1000H, J1002A-J1002H, J1004A-J1004H, J1006A-J1006H,
J2001A-J2001H, J2003A-J2003H, J2005A-J2005H,
XA01B-XA01H, XA01J, XA03B-XA03H, XA03J,
XA05B-XA05H, XA05J, XA07B-XA07H, XA07J,
XA10B-XA10H, XA10J, XA12B-XA12H, XA012J,
XA14B-XA14H, XA14J}},
CBL-{44-63}-{1-4}-{1J1RX, 1J1TX, 2J1RX, 2J1TX},
CBL-{6-8, 12-14}-{1, 3}-


```

{1J1RX, 1J1TX, 1J2RX, 1J2TX, 3J1RX, 3J1TX, 3J2RX, 3J2TX,
5J1RX, 5J1TX, 5J2RX, 5J2TX, 7J1RX, 7J1TX, 7J2RX, 7J2TX,
XA150B, XA151B, XA152B, XA153B, XA150D, XA151D, XA152D, XA153D,
XA250B, XA251B, XA252B, XA253B, XA250D, XA251D, XA252D, XA253D}
CBL-{9}-3-{1J1RX, 1J1TX, 1J2RX, 1J2TX, 3J1RX, 3J1TX, 3J2RX, 3J2TX,
5J1RX, 5J1TX, 5J2RX, 5J2TX, 7J1RX, 7J1TX, 7J2RX, 7J2TX,
XA150B, XA151B, XA152B, XA153B, XA150D, XA151D, XA152D, XA153D,
XA250B, XA251B, XA252B, XA253B, XA250D, XA251D, XA252D, XA253D},
CBL-{15}-1-{1J1RX, 1J1TX, 1J2RX, 1J2TX, 3J1RX, 3J1TX, 3J2RX, 3J2TX,
5J1RX, 5J1TX, 5J2RX, 5J2TX, 7J1RX, 7J1TX, 7J2RX, 7J2TX,
XA150B, XA151B, XA152B, XA153B, XA150D, XA151D, XA152D, XA153D,
XA250B, XA251B, XA252B, XA253B, XA250D, XA251D, XA252D, XA253D}}
{CDB-{5}-{1, 3}-{1, 2}}
CDB-{2-43, 104-111, 112-135, 136-141}-{1, 3}-{1, 2}
{CDB-{5}-{1, 3}-{1, 2}}
{EOB-{5}-{1, 3}-{1-5}}
{SI48: EOB-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{1-2},
EOC: EOB-{4-5, 10-11, 16-17, 22-23, 102, 103}-1-{1-7, 9-15}}
{SI48: EP3-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42,
104-106, 108-110, 136-141}-{1, 3}-{1-18},
EP3-{9, 21, 35, 43, 107}-3-{1-18},
EP3-{15, 27, 31, 39, 111}-1-{1-18}}
{SI36: EP3-{6-8, 12-14}-{1, 3}-{1-14},
EP3-9-3-{1-14},
EP3-15-1-{1-14}}
{SI48: ES1-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42,
104-106, 108-110, 136-141}-{1, 3}-{1-18},
ES1-{9, 21, 35, 43, 107}-3-{1-18},
ES1-{15, 27, 31, 39, 111}-1-{1-18}}
{SI36: ES1-{6-8, 12-14}-{1, 3}-{1-14},
ES1-9-3-{1-14},
ES1-15-1-{1-14}}
{IOB-{6-8, 12-14}-{1, 3}-{1, 3, 5, 7},
IOB-9-3-{1, 3, 5, 7},
IOB-15-1-{1, 3, 5, 7}}
{IPB-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{1-2}}
{M16-{2-5, 10-11, 16-17, 22-23}-3-{1-16}}
{M32-{4-5, 10-11, 16-17, 22-23, 102, 103}-3-{1-16},
M32-{5}-{1, 3}-{1-3, 6-8}}
{M40-{2-3}-{1, 3}-{1-16}}
{M40-{5}-{1, 3}-{4, 5, 9, 10}}
{O1B-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{2-9, 11-18}}
{O4M-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{2-3, 11-12}}
{RPB-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{1-2}}
{S3M-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{4-9, 13-18}}
{No connection.}
{Path not found.}

```

Equipment AID, identifies the equipment and cable entities that form the internal system path from the FROM VT1.5 port to the TO VT1.5 port. Non-AID values are:

No connection. The value {No connection.} is displayed in place of the center-stage circuit pack AID if a connection does not exist between the specified FROM and TO ports.

Path not found. The value {Path not found.} is displayed in place of the center-stage circuit pack AID if a connection in the cross-connection

database does not exist in the matrix hardware. (This may be due to a hardware failure or slowed system performance under heavy load conditions. Consequently, the RTRV-PATH-VT1 should be executed again if this value is returned in the output response.)

TO VT1_AID:
 {EC1VT1-{1-3840}-{1-7}-{1-4}} (EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)
 {OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}} (OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)
 {OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}
 (OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)
VT1 AID, identifies the TO VT1.5 port.

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid /* Both FROM and TO facility must be VT1 AID. */
IIAC	Input, Invalid ACcess identifier /* Invalid FROM AID entered. */ /* Invalid TO AID entered. */
SDBE	Status, internal Data Base Error /* Failed to get FROM TP DB record <TP record number> error <errnum>. */ /* Failed to get TO TP DB record <TP record number> error <errnum>. */ /* Error reading <AID> database record. */ /* Error reading <AID type> id:<parent ipu> database record */ /* Failed to read EM DB for shelf equipment (<shelf id>), status=<errnum>. */ /* Failed to get OC3 TP DB record <TP record number> error <errnum>. */ /* Error reading matrix cable input database for bay <bay number> shelf <shelf number> */ /* Error reading eoc to es1 cable database for cable <cable num>. */ /* TPid to first stage Tmsl conversion error <errnum>. */ /* TPid to third stage Tmsl conversion error <errnum>. */ /* Unable to get connection pointer for TP type <tp type>, TP num <tp record number>, error <errnum>. */ /* Tmsl Path Retrieve error <errnum>. */ /* Error reading es1 to cs cable database for cable <cable number>. */ /* Error reading cs to es3 cable database for cable <cable number> .*/ /* Error reading matrix cable output database for cable <cable number>. */ /* Error reading eoc to io cable database for cable <cable number>. */
SNVS	Status, Not in Valid State /* FROM AID not as provisioned. */ /* TO AID not as provisioned. */ /* FROM AID must be in a provisioned or maintenance state. */ /* TO AID must be in a provisioned or maintenance state. */

SROF Status, Requested Operation Failed

```

/* FROM AID to string error <errnum>. */
/*FROM TPid to T1 TPid conversion error <errnum>.*/
/*FROM TPid to VT1 TPid conversion error <errnum>.*/
/* FROM TPid to Tbss conversion error <errnum>. */
/* FROM Physical TPid to Tbss conversion error <errnum>. */
/* Invalid or unsupported card type, <card type>, encountered for <AID>. */
/* Invalid physical TP type <tp type> encountered for <AID>. */
/* TO TPid to Tbss conversion error <errnum>. */
/* TO Physical to Tbss conversion error <errnum>. */
/* TO AID to string error <errnum>. */
/* Unable to convert the FROM TP type to a string error <errnum>. */
/* Unable to convert the TO TP type to a string error <errnum>. */
/*Unable to determine first stage card type for bay <bay number> shelf <shelf number>
slot <slot number>.*/
/*Unable to determine center stage card type for bay <bay number> shelf <shelf number>
slot <slot number>.*/
/*Unable to determine third stage card type for bay <bay number> shelf <shelf number>
slot <slot number>.*/
/* Invalid matrix interface (<matrix interface type number>) encountered for <AID>. */
/* Unable to compute matrix input cable number for <AID>. */
/* Invalid SI protect board type (<card type>) for bay <bay number> shelf <shelf number>
slot <slot number>. */
/* Unable to get physical termination point identifier for <AID>. */
/* Unable to get TP type and TP number for I/O equipment (<equipment id>). */

```

EXAMPLES

In the following example, the internal system path from VT1.5 port EC1VT1-195-1-2 to VT1.5 port EC1VT1-217-2-2 is retrieved. The example shown assumes there is no cross-connection between the two VT1.5 ports.

```
RTRV-PATH-VT1: : EC1VT1-195-1-2, EC1VT1-217-2-2;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of Pad567. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```

<SID> <YY-MM-DD> <HH:MM:SS>
M Pad567 COMPLD
/* FROM VT1: EC1VT1-195-1-2 */
/* COPY 0: EP3-8-1-2 COPY 1: EP3-8-1-2 */
/* COPY 0: IPB-8-1-1 COPY 1: IPB-8-1-2 */
/* COPY 0: CBL-8-1-XA150F COPY 1: CBL-8-1-XA250H */
/* COPY 0: CBL-5-3-LX031H COPY 1: CBL-4-3-LX031H */
/* COPY 0: M16-5-3-9 COPY 1: M16-4-3-9 */
/* COPY 0: No connection COPY 1: No connection */
/* COPY 0: M16-5-3-14 COPY 1: M16-4-3-14 */
/* COPY 0: CBL-5-3-LX111G COPY 1: CBL-4-3-LX111G */
/* COPY 0: CBL-8-1-XA150B COPY 1: CBL-8-1-XA250D */
/* COPY 0: IPB-8-1-1 COPY 1: IPB-8-1-2 */
/* COPY 0: EP3-8-1-11 COPY 1: EP3-8-1-11 */
/* TO VT1: EC1VT1-217-2-2 */
/* RTRV-PATH-VT1: : EC1VT1-195-1-2, EC1VT1-217-2-2 [Pad567] (2) */
;

```

In the following example, the internal system path from VT1.5 port EC1VT1-195-1-2 to VT1.5 port EC1VT1-217-2-2 is retrieved. The example shown assumes that there is a cross-connection between the two VT1.5 ports.

```
RTRV-PATH-VT1::EC1VT1-195-1-2,EC1VT1-217-2-2;
```

The output response, shown below, assumes CID 3 was used to enter the command and a system generated CTAG value of Pad569. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pad569 COMPLD
/* FROM VT1: EC1VT1-195-1-2 */
/* COPY 0: EP3-8-1-2 COPY 1: EP3-8-1-2 */
/* COPY 0: IPB-8-1-1 COPY 1: IPB-8-1-2 */
/* COPY 0: CBL-8-1-XA150F COPY 1: CBL-8-1-XA250H */
/* COPY 0: CBL-5-3-LX031H COPY 1: CBL-4-3-LX031H */
/* COPY 0: M16-5-3-9 COPY 1: M16-4-3-9 */
/* COPY 0: CBL-5-3-UX071A COPY 1: CBL-4-3-UX071A */
/* COPY 0: CBL-2-3-UX051B COPY 1: CBL-3-3-UX051B */
/* COPY 0: M16-2-3-2 COPY 1: M16-3-3-2 */
/* COPY 0: CBL-2-3-UX111E COPY 1: CBL-3-3-UX111E */
/* COPY 0: CBL-5-3-LX101C COPY 1: CBL-4-3-LX101C */
/* COPY 0: M16-5-3-14 COPY 1: M16-4-3-14 */
/* COPY 0: CBL-5-3-LX111G COPY 1: CBL-4-3-LX111G */
/* COPY 0: CBL-8-1-XA150B COPY 1: CBL-8-1-XA250D */
/* COPY 0: IPB-8-1-1 COPY 1: IPB-8-1-2 */
/* COPY 0: EP3-8-1-11 COPY 1: EP3-8-1-11 */
/* TO VT1: EC1VT1-217-2-2 */
/* RTRV-PATH-VT1::EC1VT1-195-1-2,EC1VT1-217-2-2 [Pad569] (3) */
;
```

In the following example, the pass through connection path between VT1.5 port OC3VT1-65-2-1-1 and VT1.5 port OC3VT1-66-2-1-1 is retrieved.

```
RTRV-PATH-VT1::OC3VT1-65-2-1-1,OC3VT1-66-2-1-1;
```

The output response, shown below, assumes CID 3 was used to enter the command and a system generated CTAG value of Pad569. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pad569 COMPLD
/* FROM VT1: OC3VT1-65-2-1-1 */
/* COPY 0: O1B-8-1-2 COPY 1: O1B-8-1-2 */
/* COPY 0: RPB-8-1-1 COPY 1: RPB-8-1-2 */
/* COPY 0: RPB-8-1-1 COPY 1: RPB-8-1-2 */
/* COPY 0: O1B-8-1-3 COPY 1: O1B-8-1-3 */
/* TO VT1: OC3VT1-66-2-1-1 */
/* RTRV-PATH-VT1::OC3VT1-65-2-1-1,OC3VT1-66-2-1-1 [Pad569] (3) */
;
```

RELATED COMMANDS

DGN-EQPT

ED-EQPT

ENT-CRS-VT1

ENT-EQPT

FLTLOC-PATH-VT1

INH-FL-EQPT

RMV-EQPT

RST-EQPT

RTRV-CRS

RTRV-CRS-VT1

RTRV-DGN-STATUS

RTRV-EQPT

RTRV-FL-EQPT

RTRV-STATE-EQPT

RTRV-VT1

COMMAND CODE: **RTRV-PFO**
COMMAND NAME: **RETRIEVE PREMIUM FEATURE OPTION**

PURPOSE

The RTRV-PFO command provides a list of the available Premium Feature Options (PFOs) by Alcatel part number, along with the associated PFO Administrative and Operational state.

The successful response to a RTRV-PFO command contains a line of parsable output data in ascending order by PFO part number, for each PFO being reported. No parsable output data is provided if no PFOs exist in the system.

A RTRV-PFO command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-PFO: [TID] : : [CTAG] : : [IPNEXT] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
IPNEXT	{N, Y} Default: {N} Addressing: None Description: Include Part Number Extension, specifies whether any part number extensions are included in the output response message. Values are: N No, Alcatel part number extensions are not included in the output. Y Yes, Alcatel part number extensions are included in the output.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [" :<PRTNUM> [<PNEXT>] , <ADMSTATE> , <OPRSTATE>" ]
  [/ * <Command Echo> [<CTAG>] (<CID [-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

PRTNUM	{<NAANNNNNAA>, <NNNNNNNNNN>} Alcatel Part Number for the Premium Feature Option. Values for PRTNUM are 10 ASCII characters in length, consisting of either all numerical (N) characters or a combination of numerical (N) and upper-case alphabetic (A) characters. A ASCII upper-case Alphabetic character (A-Z). N ASCII Numerical character (0-9).
--------	--

PNEXT	{<AANN>, <AA**>, <**NN>, <****>}
	Alcatel Part Number Extension for the associated PRTNUM. A value for PNEXT is only returned if IPNEXT of Y is entered in the command. Note that no additional characters are in an output line between the PRTNUM and PNEXT values (PRTNUM and PNEXT are concatenated together in an extended form part number). Values for PNEXT are 4 ASCII characters consisting of either
	. Two upper-case alphabetic (A) and two numerical (N) characters, or
	. Two upper-case alphabetic (A) and two asterisk (*) characters, or
	. Two asterisk (*) and two numerical (N) characters, or
	. Four asterisk (*) characters.
	A ASCII upper-case Alphabetic character (A–Z).
	N ASCII Numerical character (0–9).
	* ASCII asterisk character (*).
ADMSTATE	{ALLOWED, INHIBITED}
	PFO Administrative State, indicates the currently configured state of the PFO. Values are:
	ALLOWED Allowed, the indicated PFO is enabled.
	INHIBITED Inhibited, the indicated PFO is disabled.
OPRSTATE	{OFF, ON}
	PFO Operational State, indicates the current operating state of the PFO. Values are:
	ON On, the indicated PFO is operational and active.
	OFF Off, the indicated PFO is inactive. (An additional operation is necessary, e.g., an INIT–SYS command, if the value for ADMSTATE is ALLOWED.)

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Optional Suggested Action Text> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non–Parser Error Codes used with this command are:

SDBE Status, internal Data Base Error

EXAMPLES

In the following example, the state of all Premium Feature Options are retrieved.

```
RTRV-PFO;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P27011. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```

<SID> <YY-MM-DD> <HH:MM:SS>
M P27011 COMPLD
":1AA2345678,ALLOWED,ON"
":2BB8765432,INHIBITED,OFF"
/* RTRV-PFO [P27011] (1) */
;

```


RELATED COMMANDS

Contact Alcatel

COMMAND CODE: **RTRV-PM-EC1**
COMMAND NAME: **RETRIEVE PERFORMANCE
MONITORING EC1**

PURPOSE

The RTRV-PM-EC1 command retrieves the current and/or historical 15-Minute and/or 1-Day PM data corresponding to the specified PM data collection register(s) for the specified EC1 port(s).

For each monitored parameter, the current and/or up to thirty-two (32) 15-Minute historical (up to the most recent previous 8 hours of 15-Minute PM data) PM registers, or the current and/or up to seven (7) 1-Day historical PM registers, or a combination of both 15-Minute and 1-Day PM registers can be retrieved.

If the SET-PMMODE-EC1 command is set to PMSTATE=OFF for an entire 15-minute period and no PM occurs on that port, and if the PMSTATE is set to ON within several minutes after the 15-minute period, then the retrieved VLDTY value (via RTRV-PM-EC1) for the previous 15-minute period *may not* be displayed as OFF.

The successful response for a RTRV-PM-EC1 command contains the following lines of parsable output data for each EC1 AID specified, in ascending order by EC1 AID:

- If a value for NUM15MIN is entered, one line of parsable output data identifying any existing alarms and the current state of the EC1,
- A line of parsable output data for each PM parameter for each PM collection period being reported, in ascending order by PM collection period. No output PM data is provided if the port is not provisioned. No output PM data is provided if the date and time specified exceed the available collection periods (i.e., exceeds 8 hours for 15-Minute PM registers or 7 days for 1-Day PM registers).

A RTRV-PM-EC1 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-PM-EC1 : [TID] : AID : [CTAG] : : [MONTYPE] , [MONLEV] , [LOCN] , [DIRN] , [TMPER] ,
[MONDAT] , [MONTM] , [NUM15MIN] , [NUM1DAY] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	EC1_AID: {EC1-{1-3840} } (EC1-EC1/STS1#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: EC1 AID, identifies the EC1 port.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

MONTYPE	{ALL}
	NEAR_END_PARAMETERS:{CV-L, CVL, ES-L, ESL, ESA-L, ESAL, ESB-L, ESBL, LOSS, LOSS-S, SEFS, SEFS-S, SES-L, SESL, UAS-L, UASL}, FAR_END_PARAMETERS:{AISS, AISS-L, AISSL, ES-L, ESL, FC-L, FCL, SES-L, SESL, UAS-L, UASL}
Default:	{ALL}
Addressing:	None
Description:	Monitored Parameter Type, identifies the type of monitored parameter whose PM data is being retrieved. A parameter may be specified by more than one value, e.g., parameter values may be entered with or without the dash (-). Refer to Appendix F, Monitored PM Parameters for a list of all monitored PM parameters. Values are:
	ALL All monitored parameter PM registers.
	AISS, AISS-L, AISSL Alarm Indication Signal Seconds – Line, AISS register. (Far-end only.)
	CV-L, CVL Coding Violations – Line, CV-L register. (Near-end only.)
	ES-L, ESL Errored Seconds – Line, ES-L register.
	ESA-L, ESAL Errored Seconds type A – Line, ESA-L register. (Near-end only.)
	ESB-L, ESBL Errored Seconds type B – Line, ESB-L register. (Near-end only.)
	FC-L, FCL Failure Counts – Line, FC-L register. (Far-end only.)
	LOSS, LOSS-S Loss Of Signal Seconds – Section, LOSS register. (Near-end only.)
	SEFS, SEFS-S Severely Errored Frame Seconds – Section, SEFS-S register. (Near-end only.)
	SES-L, SESL Severely Errored Seconds – Line, SES-L register.
	UAS-L, UASL Unavailable Seconds – Line, UAS-L register.
Restrictions:	RTRV-PM-EC1 is denied if the specified MONTYPE value is not supported for the specified LOCN value (e.g., MONTYPE of AISS and LOCN of NEND is entered).
MONLEV	{LEVEL-DIRECTION:{0-4294967295} – {DN, DNORNCMPL, UP, UPORNCMPL} }
	Default: {1-UP}
Addressing:	None
Description:	Monitoring Level, specifies the discriminating level of PM parameter event counts to be reported for the specified monitored parameter (MONTYPE). The format of MONLEV is <LEVEL> – <DIRECTION>. Values are:
	{0-4294967295} – DN <LEVEL> – Down, Only PM data for the specified MONTYPE that is less-than or equal-to (<) the value of <LEVEL> is reported.
	{0-4294967295} – DNORNCMPL <LEVEL> – Down Or Not Complete, Only PM data for the specified MONTYPE that is < the value of <LEVEL> or that does not have a VLDTY flag of CMPL (i.e., the PM data is > the value of <LEVEL> and has a VLDTY flag of {ADJ, LONG, NA, OFF, PRTL}) is reported.
	{0-4294967295} – UP <LEVEL> – Up, Only PM data for the specified MONTYPE that is greater-than or equal-to (>) the value of <LEVEL> is reported.
	{0-4294967295} – UPORNCMPL <LEVEL> – Up Or Not Complete, Only PM data for the specified MONTYPE that is > the value of <LEVEL> or that does not have a VLDTY flag of CMPL (i.e., the PM data is < the value of <LEVEL> and has a VLDTY flag of {ADJ, LONG, NA, OFF, PRTL}) is reported.

LOCN	{FEND, NEND}	
	Default:	< All applicable locations for the selected monitored parameters >
	Addressing:	None
	Description:	Location, specifies whether PM registers for near-end or far-end PM monitoring are to be retrieved. Values are:
	FEND	Far-End
DIRN	NEND	Near-End
	Restrictions:	RTRV-PM-EC1 is denied if the specified MONTYPE value is not supported for the specified LOCN value (e.g., MONTYPE of AISS and LOCN of NEND is entered).
	{NA, RCV, TRMT}	
	Default:	< All applicable directions >
TMPER	Addressing:	None
	Description:	Direction, specifies the direction of the signal being monitored. The value for DIRN is verified, but does not affect the function of the RTRV-PM-EC1 command.
	NA	Not Applicable
	RCV	Receive side
	TRMT	Transmit direction
MONDAT	{15-MIN, 1-DAY, BOTH}	
	Default:	{15-MIN}
	Addressing:	None
	Description:	Time Period, specifies whether PM data for the 15-minute and/or the daily (24 hour) PM collection register for the specified parameter is to be retrieved. Values are:
	15-MIN	15-Minute PM collection register
	1-DAY	1-Day (24 hour) PM collection register
	BOTH	Both 15-Minute and 1-Day PM collection registers
	Restrictions:	RTRV-PM-EC1 is denied if TMPER of 15-MIN is entered and the date and time specified by MONDAT and MONTM is not within the previous eight (8) hours of the current time.
		RTRV-PM-EC1 is denied if TMPER of {1-DAY, BOTH} is entered and the date specified by MONDAT is not within the previous seven (7) days of the current time.
		RTRV-PM-EC1 is denied if TMPER of 1-DAY and NUM15MIN of {1-32, ALL} (i.e., any value) is entered.
		RTRV-PM-EC1 is denied if TMPER of 15-MIN and NUM1DAY of {1-7, ALL} (i.e., any value) is entered.
	{MONTH-DAY:{01-12} – {01-31} }	
	Default:	< Current date >
	Addressing:	None
	Description:	Monitor Date, specifies the (starting) date of the PM collection period for which PM data is to be retrieved. The format of MONDAT is <MONTH_OF_YEAR> – <DAY_OF_MONTH>.
	Restrictions:	RTRV-PM-EC1 is denied if TMPER of 15-MIN is entered and the date and time specified by MONDAT and MONTM is not within the previous eight (8) hours of the current time.
		RTRV-PM-EC1 is denied if TMPER of {1-DAY, BOTH} is entered and the date specified by MONDAT is not within the previous seven (7) days of the current time.

MONTM	{ HOUR – MINUTE :{00–23} – {00–59} }
	Default: < Current time > Addressing: None Description: Monitor Time, if TMPER of {15–MIN, BOTH} is entered, specifies the (starting) time of the PM collection period for which PM data is to be retrieved. If TMPER of 1–DAY is entered, the value of MONTM is ignored (i.e., an entered value is validated, but does not affect the command execution). The format of MONTM is < HOUR_OF_DAY > – < MINUTE_OF_HOUR >, where: < HOUR_OF_DAY > is in 24 hour time. < MINUTE_OF_HOUR > set to {0–14} specifies the first 15–minute period within the < HOUR_OF_DAY > value. < MINUTE_OF_HOUR > set to {15–29} specifies the second 15–minute period within the < HOUR_OF_DAY > value. < MINUTE_OF_HOUR > set to {30–44} specifies the third 15–minute period within the < HOUR_OF_DAY > value. < MINUTE_OF_HOUR > set to {45–59} specifies the fourth 15–minute period within the < HOUR_OF_DAY > value. Restrictions: RTRV–PM–EC1 is denied if TMPER of 15–MIN is entered and the date and time specified by MONDAT and MONTM is not within the previous eight (8) hours of the current time.
NUM15MIN	{1–32, ALL, <NoVal>}
	Default: <NoVal> Addressing: None Description: Number of 15–Minute Historical Registers, specifies the number of 15–Minute historical PM data registers to retrieve in addition to that specified by MONDAT and MONTM . Values are: 1–32 1–32 additional historical 15–Minute PM data registers. ALL All additional historical 15–Minute PM data registers. <NoVal> No Value, no additional historical 15–Minute PM data registers. Restrictions: RTRV–PM–EC1 is denied if NUM15MIN of {1–32, ALL} (i.e., any value) and TMPER of 1–DAY is entered.
NUM1DAY	{1–7, ALL, <NoVal>}
	Default: <NoVal> Addressing: None Description: Number of 1–Day Historical Registers, specifies the number of 1–Day historical PM data registers to retrieve in addition to that specified by MONDAT and MONTM . Values are: 1–7 1–7 additional historical 1–Day PM data registers. ALL All additional historical 1–Day PM data registers. <NoVal> No Value, no additional historical 1–Day PM data registers. Restrictions: RTRV–PM–EC1 is denied if NUM1DAY of {1–7, ALL} (i.e., any value) and TMPER of 15–MIN is entered.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
[ "<AID>, EC1 : [<NENDALM>] , [<FENDALM>] , <PST>, <SST>" ]
  "<AID>, EC1 : <MONTYPE>, <MONVAL>, <VLDTY>, <LOCN>, <DIRN>, <TMPER>,
<MONDAT>, <MONTM>"
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

Note: The first line of parsable output is provided only when a value for NUM15MIN is entered. The second line of parsable output is provided for each PM data register reported.

OUTPUT PARAMETERS

AID	<p>EC1_AID: {EC1-{1-3840} } (EC1-EC1/STS1#) EC1 AID, identifies the EC1 port.</p>
FENDALM	<p>{RFI} Far End EC1 Alarm Condition, identifies any far-end EC1 alarm conditions that exist on the EC1. A FENDALM value is only reported if a FENDALM condition exists. Value is: RFI Remote Failure Indication detected</p>
NENDALM	<p>{AIS, LOF, LOS} Near End EC1 Alarm Condition, identifies any near-end EC1 alarm conditions that exist on the EC1. A NENDALM value is reported only if a NENDALM condition exists. Values are: AIS Alarm Indication Signal, AIS detected LOF Loss Of Frame detected LOS Loss Of Signal detected</p>
PST	<p>{IS, OOS-AU, OOS-AUMA, OOS-MA} Primary State, indicates the current primary state of the EC1. Refer to Appendix G, State Transitions for a definition of state names and description of state transitions. Values are: IS In Service OOS-AU Out Of Service-Autonomous OOS-AUMA Out Of Service-Autonomous and Management OOS-MA Out Of Service-Management</p>
SST	<p>{DSBLD, FAF, LPBK, MT, UAS, AINS} Secondary State, indicates any secondary states associated with the EC1. SST values may be shown in the output combined with an ampersand (&) if more than one value applies to the EC1 at the time of the RTRV-PM-EC1. Refer to Appendix G, State Transitions for a definition of state names and description of state transitions. Values are: AINS The EC1 is under Automatic IN-Service state. DSBLD Disabled FAF Facility failure LPBK Loopback MT Maintenance PMI Performance Monitoring Inhibited UAS Unassigned</p>
MONTYPE	<p>NEAR_END_PARAMETERS:{CVL, ESL, ESA-L, ESB-L, LOSS, SEFS, SESL, UASL}, FAR_END_PARAMETERS:{AISS, ESL, FC-L, SESL, UASL} Monitored Parameter Type, identifies the monitored parameter. Refer to Appendix F, Monitored PM Parameters for a list of all monitored PM parameters. Values are: AISS Alarm Indication Signal Seconds – Line, AISS register. CVL Coding Violations – Line, CV-L register. ESL Errored Seconds – Line, ES-L register. ESA-L Errored Seconds type A – Line, ESA-L register. ESB-L Errored Seconds type B – Line, ESB-L register. FC-L Failure Counts – Line, FC-L register. LOSS Loss Of Signal Seconds – Section, LOSS register. SEFS Severely Errored Frame Seconds – Section, SEFS-S register. SESL Severely Errored Seconds – Line, SES-L register. UASL Unavailable Seconds – Line, UAS-L register.</p>

MONVAL	{0–4294967295, NA} Monitored Parameter Value, indicates the measured value of the indicated MONTYPE being reported. Values are: 0–4294967295 Measured Value of the Monitored Parameter, value reported if VLDTY is not {NA}. NA Not Available, value reported if VLDTY is {NA}.
VLDTY	{ADJ, COMPL, LONG, NA, OFF, PRTL} Validity, indicates whether the PM data being retrieved for the specified time period was accumulated over the entire time period or some portion thereof. Values are: ADJ Adjusted, the data was manually adjusted or initialized (via INIT–REG–EC1). COMPL Complete, the data was accumulated over the entire time period. LONG Longer, the data was accumulated over a greater period of time than the indicated time period. NA Not Available, the data is not available. OFF Off, PM data collection for the entire time period was disabled (via SET–PMMODE–EC1). PRTL Partial, the data was accumulated over some portion of the time period, but not the entire time period.
LOCN	{FEND, NEND} Location, indicates whether a near–end or far–end monitored parameter is being reported. Values are: FEND Far–End NEND Near–End
DIRN	{NA, RCV} Direction, identifies the direction of the signal being monitored. Values are: NA Not Applicable, value reported for LOCN value of FEND. RCV Receive side, value reported for LOCN value of NEND.
TMPER	{15–MIN, 1–DAY} Time Period, identifies the accumulation time period for the indicated monitored parameter. Values are: 15–MIN 15–Minute PM collection period 1–DAY 1–Day (24 hour) PM collection period
MONDAT	{MONTH–DAY:{01–12} – {01–31} } Monitor Date, identifies the date when the PM collection period began. The format of MONDAT is <MONTH_OF_YEAR> – <DAY_OF_MONTH>.
MONTM	{HOUR–MINUTE:{00–23} – {00–59} } Monitor Time, identifies the time of day when the PM collection period began. The format of MONTM is <HOUR_OF_DAY> – <MINUTE_OF_HOUR>.

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non–Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent /* Value for num15min is not consistent with value for time period */ /* Value for num1day is not consistent with value for time period */
IDNV	Input, Data Not Valid /* Invalid location in request message. */ /* Invalid montype in request message. */ /* Invalid monlev in request message. */ /* Invalid direction in request message. */ /* Invalid time period in request message. */ /* Invalid date in request message. */ /* Invalid num15min value in request message. */ /* Invalid num1day value in request message. */ /* Invalid day for the requested month. */ /* Invalid time in request message. */ /* Input date/time is not within the valid range. */
IIAC	Input, Invalid ACcess identifier /* AID not in Partition. */ /* Invalid AID entered. */
IIPG	Input, Invalid Parameter Grouping /* Invalid location for requested montype. */
SDBE	Status, internal Data Base Error /* Error in reading TP database record. */
SROF	Status, Requested Operation Failed /* Timeout waiting for response from <AID>. */ /* Invalid time period is detected, TMPER = <TIME PERIOD>. */ /* Unable to determine the global TP number, TPTYPE=<TP TYPE>, TPNum=<TP NUMBER>. */ /* Unable to allocate memory for user data. */ /* rpt_file error – <ERRNO>, status = <STATUS> */ /* Cannot open <FILENAME> */ /* nrl_rpt_print error – no transaction, msgtype = <MSGTYPE> */ /* rpt_print error – <ERRNO>, status = <STATUS> */ /* Unable to determine the history file name, TPTYPE=<TP TYPE>, TMPER=<TIME PERIOD>, FileIdx=<FILE INDEX>. */ /* Failed to send rtrv pm msg to SPB/IPU=<SPB/IPU ADDRESS>. */ /* Failed to retrieve PM historical data. */ /* Unable to determine supporting facility entity. */ /* Error occurred while provisioning equipment. */ /* Unexpected response message received from <CARDNAME>. */ /* Failed to convert tp num to AID string. */ /* Unable to determine facility type. */ /* Unable to determine alarms. */ /* Failed to get PST and SST State. */

EXAMPLES

In the following example, the 1-Day historical PM data that was accumulated for EC1 port EC1-57 on January 15th for all monitored parameters with a value greater than or equal to a count of 12 is retrieved.

```
RTRV-PM-EC1::EC1-57:::ALL,12-UP,,1-DAY,1-15;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71042. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P71042 COMPLD
"EC1-57,EC1:CVL,14,CMPL,NEND,RCV,1-DAY,01-15,00-00"
"EC1-57,EC1:ESL,15,CMPL,NEND,RCV,1-DAY,01-15,00-00"
/* RTRV-PM-EC1::EC1-57:::ALL,12-UP,,1-DAY,1-15 [P71042] (1) */
;
```

In the following example, the current far-end 15-Minute AIS seconds (AISS) PM data for EC1 port EC1-97 is retrieved.

```
RTRV-PM-EC1::EC1-97:::AISS;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of P71048. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P71048 COMPLD
"EC1-97,EC1:AISS,1,PRTL,FEND,RCV,15-MIN,01-18,10-30"
/* RTRV-PM-EC1::EC1-97:::AISS [P71048] (2) */
;
```

In the following example, the 15-minute historical near-end errored seconds, line (ES-L) PM data that was accumulated for EC1 port EC1-383 on January 18th for the collection period beginning at 8:15 am is retrieved.

```
RTRV-PM-EC1::EC1-383:::ES-L,0-UP,NEND,,15-MIN,01-18,8-20;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of P71049. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P71049 COMPLD
"EC1-383,EC1:ESL,0,CMPL,NEND,RCV,15-MIN,01-18,08-15"
/* RTRV-PM-EC1::EC1-383:::ES-L,0-UP,NEND,,15-MIN,1-18,8-20
[P71049] (2) */
;
```

RELATED COMMANDS

```
ENT-EC1
INIT-REG-EC1
RTRV-DFLTTH-EC1
RTRV-PMATTR-ALL
RTRV-PMODE-EC1
RTRV-TH-EC1
SET-DFLTTH-EC1
SET-PMATTR-ALL
SET-PMODE-EC1
SET-TH-EC1
```

RELATED AUTONOMOUS RESPONSES

```
REPT^EVT^EC1
```

REPT^PM^EC1

COMMAND CODE: RTRV-PM-F3
COMMAND NAME: RETRIEVE PERFORMANCE
MONITORING F3

PURPOSE

The RTRV-PM-F3 command retrieves the current and/or historical 15-Minute and/or 1-Day PM data corresponding to the specified PM data collection register(s) for the specified Fractional-T3(s).

For each monitored parameter, the current and/or up to thirty-two (32) 15-Minute historical (up to the most recent previous 8 hours of 15-Minute PM data) PM registers, or the current and/or up to seven (7) 1-Day historical PM registers, or a combination of both 15-Minute and 1-Day PM registers can be retrieved.

If the SET-PMMODE-F3 command is set to PMSTATE=OFF for an entire 15-minute period and no PM occurs on that port, and if the PMSTATE is set to ON within several minutes after the 15-minute period, then the retrieved VLDTY value (via RTRV-PM-F3) for the previous 15-minute period *may not* be displayed as OFF.

The successful response for a RTRV-PM-F3 command contains the following lines of parsable output data for each provisioned Fractional-T3 AID specified, in ascending order by Fractional-T3 AID:

- If a value for NUM15MIN is entered, one line of parsable output data identifying the current state of the Fractional-T3,
- A line of parsable output data for each PM parameter for each PM collection period being reported, in ascending order by PM collection period. No output PM data is provided if the F3 is not provisioned. No output PM data is provided if the date and time specified exceed the available collection periods (i.e., exceeds 8 hours for 15-Minute PM registers or 7 days for 1-Day PM registers).

A RTRV-PM-F3 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-PM-F3 : [TID] : AID : [CTAG] : : [MONTYPE] , [MONLEV] , [LOCN] , [DIRN] , [TMPER] ,
[MONDAT] , [MONTM] , [NUM15MIN] , [NUM1DAY] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	F3_AID: {T3F3-{1-4800}-{1-14}} (T3F3-DS3#-Fractional_DS3#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: F3 AID, identifies the Fractional-T3.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

MONTYPE	{ALL, CV–N, CVN, ES–N, ESN, ESA–N, ESAN, ESB–N, ESBN, FC–N, FCN, SAS–N, SASN, SES–N, SESN, UAS–N, UASN}	
	Default:	{ALL}
	Addressing:	None
	Description:	Monitored Parameter Type, identifies the type of monitored parameter whose PM data is being retrieved. A parameter may be specified by more than one value, e.g., parameter values may be entered with or without the dash (–). Refer to Appendix F, Monitored PM Parameters for a list of all monitored PM parameters. Values are:
	ALL	All monitored parameter PM registers.
	CV–N, CVN	Coding Violations – N, CV–N register contains a summary of CV–P counts for all DS1s assigned to the F3.
	ES–N, ESN	Errored Seconds – N, ES–N register contains a summary of ES–P counts for all DS1s assigned to the F3.
	ESA–N, ESAN	Errored Seconds type A – N, ESA–N register contains a summary of ESA–P counts for all DS1s assigned to the F3.
	ESB–N, ESBN	Errored Seconds type B – N, ESB–N register contains a summary of ESB–P counts for all DS1s assigned to the F3.
	FC–N, FCN	Failure Count – N, FC–N register contains a summary of FC–P counts for all DS1s assigned to the F3.
MONLEV	{LEVEL–DIRECTION:{0–4294967295} – {DN, DNORNCMPL, UP, UPORNCMPL} }	
	Default:	{1–UP}
	Addressing:	None
	Description:	Monitoring Level, specifies the discriminating level of PM parameter event counts to be reported for the specified monitored parameter (MONTYPE). The format of MONLEV is <LEVEL> – <DIRECTION>. Values are:
	{0–4294967295} – DN	<LEVEL> – Down, Only PM data for the specified MONTYPE that is less–than or equal–to (<) the value of <LEVEL> is reported.
	{0–4294967295} – DNORNCMPL	<LEVEL> – Down Or Not Complete, Only PM data for the specified MONTYPE that is < the value of <LEVEL> or that does not have a VLDTY flag of CMPL (i.e., the PM data is > the value of <LEVEL> and has a VLDTY flag of {ADJ, LONG, NA, OFF, PRTL}) is reported.
	{0–4294967295} – UP	<LEVEL> – Up, Only PM data for the specified MONTYPE that is greater–than or equal–to (>) the value of <LEVEL> is reported.
	{0–4294967295} – UPORNCMPL	<LEVEL> – Up Or Not Complete, Only PM data for the specified MONTYPE that is > the value of <LEVEL> or that does not have a VLDTY flag of CMPL (i.e., the PM data is < the value of <LEVEL> and has a VLDTY flag of {ADJ, LONG, NA, OFF, PRTL}) is reported.

LOCN	{NEND} Default: <All applicable locations for the selected monitored parameters> Addressing: None Description: Location, specifies PM registers for near-end PM monitoring are to be retrieved. Value is: NEND Near-End
DIRN	{NA, RCV, TRMT} Default: < All applicable directions > Addressing: None Description: Direction, specifies the direction of the signal being monitored. The value for DIRN is verified, but does not affect the function of the RTRV-PM-F3 command. NA Not Applicable RCV Receive side TRMT Transmit direction
TMPER	{15-MIN, 1-DAY, BOTH} Default: {15-MIN} Addressing: None Description: Time Period, specifies whether PM data for the 15-minute and/or the daily (24 hour) PM collection register for the specified parameter is to be retrieved. Values are: 15-MIN 15-Minute PM collection register. 1-DAY 1-Day (24 hour) PM collection register. BOTH Both 15-Minute and 1-Day PM collection registers Restrictions: RTRV-PM-F3 is denied if TMPER of 15-MIN is entered and the date and time specified by MONDAT and MONTM is not within the previous eight (8) hours of the current time. RTRV-PM-F3 is denied if TMPER of {1-DAY, BOTH} is entered and the date specified by MONDAT is not within the previous seven (7) days of the current time. RTRV-PM-F3 is denied if TMPER of 1-DAY and NUM15MIN of {1-32, ALL} (i.e., any value) is entered. RTRV-PM-F3 is denied if TMPER of 15-MIN and NUM1DAY of {1-7, ALL} (i.e., any value) is entered.
MONDAT	{MONTH-DAY:{01-12} – {01-31}} Default: < Current date > Addressing: None Description: Monitor Date, specifies the (starting) date of the PM collection period for which PM data is to be retrieved. The format of MONDAT is <MONTH_OF_YEAR> – <DAY_OF_MONTH>. Restrictions: RTRV-PM-F3 is denied if TMPER of 15-MIN is entered and the date and time specified by MONDAT and MONTM is not within the previous eight (8) hours of the current time. RTRV-PM-F3 is denied if TMPER of {1-DAY, BOTH} is entered and the date specified by MONDAT is not within the previous seven (7) days of the current time.

MONTM	{ HOUR – MINUTE :{00–23} – {00–59} }
	Default: < Current time > Addressing: None Description: Monitor Time. If TMPER of {15–MIN, BOTH} is entered, specifies the (starting) time of the PM collection period for which PM data is to be retrieved. If TMPER of 1–DAY is entered, the value of MONTM is ignored (i.e., an entered value is validated, but does not affect the command execution). The format of MONTM is < HOUR_OF_DAY > – < MINUTE_OF_HOUR >, where: < HOUR_OF_DAY > is in 24 hour time. < MINUTE_OF_HOUR > set to {0–14} specifies the first 15–minute period within the < HOUR_OF_DAY > value. < MINUTE_OF_HOUR > set to {15–29} specifies the second 15–minute period within the < HOUR_OF_DAY > value. < MINUTE_OF_HOUR > set to {30–44} specifies the third 15–minute period within the < HOUR_OF_DAY > value. < MINUTE_OF_HOUR > set to {45–59} specifies the fourth 15–minute period within the < HOUR_OF_DAY > value. Restrictions: RTRV–PM–F3 is denied if TMPER of 15–MIN is entered and the date and time specified by MONDAT and MONTM is not within the previous eight (8) hours of the current time.
NUM15MIN	{1–32, ALL, <NoVal>}
	Default: <NoVal> Addressing: None Description: Number of 15–Minute Historical Registers, specifies the number of 15–Minute historical PM data registers to retrieve in addition to that specified by MONDAT and MONTM . Values are: 1–32 1–32 additional historical 15–Minute PM data registers. ALL All additional historical 15–Minute PM data registers. <NoVal> No Value, no additional historical 15–Minute PM data registers. Restrictions: RTRV–PM–F3 is denied if NUM15MIN of {1–32, ALL} (i.e., any value) and TMPER of 1–DAY is entered.
NUM1DAY	{1–7, ALL, <NoVal>}
	Default: <NoVal> Addressing: None Description: Number of 1–Day Historical Registers, specifies the number of 1–Day historical PM data registers to retrieve in addition to that specified by MONDAT and MONTM . Values are: 1–7 1–7 additional historical 1–Day PM data registers. ALL All additional historical 1–Day PM data registers. <NoVal> No Value, no additional historical 1–Day PM data registers. Restrictions: RTRV–PM–F3 is denied if NUM1DAY of {1–7, ALL} (i.e., any value) and TMPER of 15–MIN is entered.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
[ "<AID>, F3 : , , <PST>, <SST>" ]
" <AID>, F3 : <MONTYPE>, <MONVAL>, <VLDTY>, <LOCN>, <DIRN>, <TMPER>,
<MONDAT>, <MONTM>, <NUMT1S> [ , <NT1CHG> ] "
[ /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */ ]
;
```

Note: The first line of parsable output is provided only when a value for **NUM15MIN** is entered. The second line of parsable output is provided for each PM data register reported.

OUTPUT PARAMETERS

AID	<p>F3_AID: {T3F3-{1-4800}-{1-14}} (T3F3-DS3#-Fractional_DS3#)</p> <p>F3 AID, identifies the Fractional-T3.</p>																
PST	<p>{IS}</p> <p>Primary State, indicates the current primary state of the F3. Refer to Appendix G, State Transitions for a definition of state names and description of state transitions. Values are:</p> <table> <tr> <td>IS</td><td>In Service.</td></tr> <tr> <td>OOS-AU</td><td>Out Of Service-AUtonomous</td></tr> <tr> <td>OOS-AUMA</td><td>Out Of Service-AUtonomous and MAnagement</td></tr> <tr> <td>OOS-MA</td><td>Out Of Service-MAnagement</td></tr> </table>	IS	In Service.	OOS-AU	Out Of Service-AUtonomous	OOS-AUMA	Out Of Service-AUtonomous and MAnagement	OOS-MA	Out Of Service-MAnagement								
IS	In Service.																
OOS-AU	Out Of Service-AUtonomous																
OOS-AUMA	Out Of Service-AUtonomous and MAnagement																
OOS-MA	Out Of Service-MAnagement																
SST	<p>{DSBLD, PMI, SGEO, UAS}</p> <p>Secondary State, indicates any secondary states associated with the F3. SST values may be shown in the output combined with an ampersand (&) if more than one value applies to the F3 at the time of the RTRV-PM-F3. Refer to Appendix G, State Transitions for a definition of state names and description of state transitions. Values are:</p> <table> <tr> <td>DSBLD</td><td>Disabled.</td></tr> <tr> <td>PMI</td><td>Performance Monitoring Inhibited.</td></tr> <tr> <td>SGEO</td><td>Supporting Entity Outage.</td></tr> <tr> <td>UAS</td><td>Unassigned.</td></tr> </table>	DSBLD	Disabled.	PMI	Performance Monitoring Inhibited.	SGEO	Supporting Entity Outage.	UAS	Unassigned.								
DSBLD	Disabled.																
PMI	Performance Monitoring Inhibited.																
SGEO	Supporting Entity Outage.																
UAS	Unassigned.																
MONTYPE	<p>{CVN, ESN, ESA-N, ESB-N, FC-N, SAS-N, SESN, UASN}</p> <p>Monitored Parameter Type, identifies the monitored parameter. Refer to Appendix F, Monitored PM Parameters for a list of all monitored PM parameters. Values are:</p> <table> <tr> <td>CVN</td><td>Coding Violations - N, CV-N register contains a summary of CV-P counts for all DS1s assigned to the F3.</td></tr> <tr> <td>ESN</td><td>Errored Seconds - N, ES-N register contains a summary of ES-P counts for all DS1s assigned to the F3.</td></tr> <tr> <td>ESA-N</td><td>Errored Seconds type A - N, ESA-N register contains a summary of ESA-P counts for all DS1s assigned to the F3.</td></tr> <tr> <td>ESB-N</td><td>Errored Seconds type B - N, ESB-N register contains a summary of ESB-P counts for all DS1s assigned to the F3.</td></tr> <tr> <td>FC-N</td><td>Failure Count - N, FC-N register contains a summary of FC-P counts for all DS1s assigned to the F3.</td></tr> <tr> <td>SAS-N</td><td>Severe AIS Seconds - N, SAS-N register contains a summary of SAS-P counts for all DS1s assigned to the F3.</td></tr> <tr> <td>SESN</td><td>Severely Errored Seconds - N, SES-N register contains a summary of SES-P counts for all DS1s assigned to the F3.</td></tr> <tr> <td>UASN</td><td>Unavailable Seconds - N, UAS-N register contains a summary of UAS-P counts for all DS1s assigned to the F3.</td></tr> </table>	CVN	Coding Violations - N, CV-N register contains a summary of CV-P counts for all DS1s assigned to the F3.	ESN	Errored Seconds - N, ES-N register contains a summary of ES-P counts for all DS1s assigned to the F3.	ESA-N	Errored Seconds type A - N, ESA-N register contains a summary of ESA-P counts for all DS1s assigned to the F3.	ESB-N	Errored Seconds type B - N, ESB-N register contains a summary of ESB-P counts for all DS1s assigned to the F3.	FC-N	Failure Count - N, FC-N register contains a summary of FC-P counts for all DS1s assigned to the F3.	SAS-N	Severe AIS Seconds - N, SAS-N register contains a summary of SAS-P counts for all DS1s assigned to the F3.	SESN	Severely Errored Seconds - N, SES-N register contains a summary of SES-P counts for all DS1s assigned to the F3.	UASN	Unavailable Seconds - N, UAS-N register contains a summary of UAS-P counts for all DS1s assigned to the F3.
CVN	Coding Violations - N, CV-N register contains a summary of CV-P counts for all DS1s assigned to the F3.																
ESN	Errored Seconds - N, ES-N register contains a summary of ES-P counts for all DS1s assigned to the F3.																
ESA-N	Errored Seconds type A - N, ESA-N register contains a summary of ESA-P counts for all DS1s assigned to the F3.																
ESB-N	Errored Seconds type B - N, ESB-N register contains a summary of ESB-P counts for all DS1s assigned to the F3.																
FC-N	Failure Count - N, FC-N register contains a summary of FC-P counts for all DS1s assigned to the F3.																
SAS-N	Severe AIS Seconds - N, SAS-N register contains a summary of SAS-P counts for all DS1s assigned to the F3.																
SESN	Severely Errored Seconds - N, SES-N register contains a summary of SES-P counts for all DS1s assigned to the F3.																
UASN	Unavailable Seconds - N, UAS-N register contains a summary of UAS-P counts for all DS1s assigned to the F3.																
MONVAL	<p>{0-4294967295, NA}</p> <p>Monitored Parameter Value, indicates the measured value of the indicated MONTYPE being reported. Values are:</p> <table> <tr> <td>0-4294967295</td><td>Measured Value of the Monitored Parameter, value reported if VLDTY is not {NA}.</td></tr> <tr> <td>NA</td><td>Not Available, value reported if VLDTY is {NA}.</td></tr> </table>	0-4294967295	Measured Value of the Monitored Parameter, value reported if VLDTY is not {NA}.	NA	Not Available, value reported if VLDTY is {NA}.												
0-4294967295	Measured Value of the Monitored Parameter, value reported if VLDTY is not {NA}.																
NA	Not Available, value reported if VLDTY is {NA}.																

VLDTY	{ADJ, COMPL, LONG, NA, OFF, PRTL} Validity, indicates whether the PM data being retrieved for the specified time period was accumulated over the entire time period or some portion thereof. Values are: ADJ Adjusted, the data was manually adjusted or initialized (via INIT-REG-F3). COMPL Complete, the data was accumulated over the entire time period. LONG Longer, the data was accumulated over a greater period of time than the indicated time period. NA Not Available, the data is not available. OFF Off, PM data collection for the entire time period was disabled (via SET-PMMODE-F3). PRTL Partial, the data was accumulated over some portion of the time period, but not the entire time period.
LOCN	{NEND} Location, indicates a near-end monitored parameter is being reported. Value is: NEND Near-End
DIRN	{RCV} Direction, identifies the direction of the signal being monitored. Value is: RCV Receive side, value reported for LOCN value of NEND.
TMPER	{15-MIN, 1-DAY} Time Period, identifies the accumulation time period for the indicated monitored parameter. Values are: 15-MIN 15-Minute PM collection period 1-DAY 1-Day (24 hour) PM collection period
MONDAT	{MONTH-DAY:{01-12} - {01-31} } Monitor Date, identifies the date when the PM collection period began. The format of MONDAT is <MONTH_OF_YEAR> - <DAY_OF_MONTH>.
MONTM	{HOUR-MINUTE:{00-23} - {00-59} } Monitor Time, identifies the time of day when the PM collection period began. The format of MONTM is <HOUR_OF_DAY> - <MINUTE_OF_HOUR>.
NUMT1S	{0-7} Number of DS1s, identifies the number of DS1s assigned to the indicated F3 at the end of the PM collection period.
NT1CHG	{Y, <NoVal>} Number of DS1s Changed, indicates the number of DS1s assigned to the indicated F3 changed during the PM collection period. Values are: Y Yes, the number of DS1s assigned to the indicated F3 changed during the PM collection period. <NoVal> No Value (unpopulated) is displayed in the output if the number of DS1s assigned to the indicated F3 did not change during the PM collection period.

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent /* Value for num15min is not consistent with value for time period */ /* Value for num1day is not consistent with value for time period */
IDNV	Input, Data Not Valid /* Invalid location in request message. */ /* Invalid montype in request message. */ /* Invalid monlev in request message. */ /* Invalid direction in request message. */ /* Invalid time period in request message. */ /* Invalid date in request message. */ /* Invalid num15min value in request message. */ /* Invalid num1day value in request message. */ /* Invalid day for the requested month. */ /* Invalid time in request message. */ /* Input date/time is not within the valid range. */
IIAC	Input, Invalid ACcess identifier /* AID not in Partition. */ /* Invalid AID entered. */
IIPG	Input, Invalid Parameter Grouping /* Invalid location for requested montype. */
SDBE	Status, internal Data Base Error /* Error in reading TP database record. */
SROF	Status, Requested Operation Failed /* Timeout waiting for response from <AID>. */ /* Invalid time period is detected, TMPER = <TIME PERIOD>. */ /* Unable to determine the global TP number, TPTYPE=<TP TYPE>, TPNum=<TP NUMBER>. */ /* Unable to allocate memory for user data. */ /* rpt_file error – <ERRNO>, status = <STATUS> */ /* Cannot open <FILENAME> */ /* nrl_rpt_print error – no transaction, msgtype = <MSGTYPE> */ /* rpt_print error – <ERRNO>, status = <STATUS> */ /* Unable to determine the history file name, TPType=<TP TYPE>, TMPER=<TIME PERIOD>, FileIdx=<FILE INDEX>. */ /* Failed to send rtrv pm msg to SPB/IPU=<SPB/IPU ADDRESS>. */ /* Failed to retrieve PM historical data. */ /* Unable to determine supporting facility entity. */ /* Error occurred while provisioning equipment. */ /* Unexpected response message received from <CARDNAME>. */

EXAMPLES

In the following example, the 1-Day historical PM data that was accumulated for Fractional-T3 T3F3-1012-15 on January 15th for all monitored parameters with a value greater than or equal to a count of 12 is retrieved.

```
RTRV-PM-F3::T3F3-1012-15:::ALL,12-UP,,1-DAY,1-15;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71042. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P71042 COMPLD
"T3F3-1012-15,F3:CVN,14,CMPL,NEND,RCV,1-DAY,01-15,00-00"
"T3F3-1012-15,F3:FC-N,15,CMPL,NEND,RCV,1-DAY,01-15,00-00"
/* RTRV-PM-F3::T3F3-1012-15:::ALL,12-UP,,1-DAY,1-15 [P71042] (1) */
;
```

In the following example, the 15-minute historical errored seconds (ES-N) PM data that was accumulated for Fractional-T3 T3F3-1343-2 on January 18th for the collection period beginning at 8:15 am is retrieved.

```
RTRV-PM-F3::T3F3-1343-2:::ES-N,0-UP,,15-MIN,1-18,8-20;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of P71049. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P71049 COMPLD
"T3F3-1343-2,F3:ESN,5,CMPL,NEND,RCV,15-MIN,01-18,08-15"
/* RTRV-PM-F3::T3F3-1343-2:::ES-P,0-UP,,15-MIN,1-18,8-20 [P71049] (2) */
;
```

RELATED COMMANDS

```
ENT-F3
INIT-REG-F3
RTRV-PMODE-F3
SET-PMODE-F3
```

COMMAND CODE: **RTRV-PM-OC12**
COMMAND NAME: **RETRIEVE PERFORMANCE
MONITORING OC-12**

PURPOSE

The RTRV-PM-OC12 command retrieves the current and/or historical 15-Minute and/or 1-Day PM data corresponding to the specified PM data collection register(s) for the specified OC-12 port(s).

For each monitored parameter, the current and/or up to thirty-two (32) 15-Minute historical (up to the most recent previous 8 hours of 15-Minute PM data) PM registers, or the current and/or up to seven (7) 1-Day historical PM registers, or a combination of both 15-Minute and 1-Day PM registers can be retrieved.

If the SET-PMODE-OC12 command is set to PMSTATE=OFF for an entire 15-minute period and no PM occurs on that port, and if the PMSTATE is set to ON within several minutes after the 15-minute period, then the retrieved VLDTY value (via RTRV-PM-OC12) for the previous 15-minute period *may not* be displayed as OFF.

The successful response for a RTRV-PM-OC12 command contains the following lines of parsable output data for each provisioned OC12 AID specified, in ascending order by OC12 AID:

- If a value for NUM15MIN is entered, one line of parsable output data identifying any existing alarms and the current state of the OC-12,
- A line of parsable output data for each PM parameter for each PM collection period being reported, in ascending order by PM collection period. No output PM data is provided if the port is not provisioned. No output PM data is provided if the date and time specified exceed the available collection periods (i.e., exceeds 8 hours for 15-Minute PM registers or 7 days for 1-Day PM registers).

A RTRV-PM-OC12 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-PM-OC12 : [TID] : AID : [CTAG] : : [MONTYPE] , [MONLEV] , [LOCN] , [DIRN] , [TMPER] ,
[MONDAT] , [MONTM] , [NUM15MIN] , [NUM1DAY] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	OC12_AID: {OC12-{1-560}} (OC12-OC12#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: OC12 AID, identifies the OC-12 port.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

MONTYPE	{ALL}, NEAR_END_PARAMETERS:{AISS, AISS-L, AISSL, CV-L, CVL, CV-S, CVS, ES-L, ESL, ES-S, ESS, ESA-L, ESAL, ESA-S, ESAS, ESB-L, ESBL, ESB-S, ESBS, FC-L, FCL, LOSS, LOSS-S, PSC, PSC-L, PSCL, PSD, PSD-L, PSDL, SEFS, SEFS-S, SES-L, SESL, SES-S, SESS, UAS-L, UASL}, FAR_END_PARAMETERS:{AISS, AISS-L, AISSL, CV-L, CVL, ES-L, ESL, ESA-L, ESAL, ESB-L, ESBL, FC-L, FCL, SES-L, SESL, UAS-L, UASL}
Default:	{ALL}
Addressing:	None
Description:	Monitored Parameter Type, identifies the type of monitored parameter whose PM data is being retrieved. A parameter may be specified by more than one value, e.g., parameter values may be entered with or without the dash (-). Refer to Appendix F, Monitored PM Parameters for a list of all monitored PM parameters. Values are:
ALL	All monitored parameter PM registers.
AISS, AISS-L, AISSL	Alarm Indication Signal Seconds – Line, AISS register.
CV-L, CVL	Coding Violations – Line, CV-L register.
CV-S, CVS	Coding Violations – Section, CV-S register. (Near-end only.)
ES-L, ESL	Errored Seconds – Line, ES-L register.
ES-S, ESS	Errored Seconds – Section, ES-S register. (Near-end only.)
ESA-L, ESAL	Errored Seconds type A – Line, ESA-L register.
ESA-S, ESAS	Errored Seconds type A – Section, ESA-S register. (Near-end only.)
ESB-L, ESBL	Errored Seconds type B – Line, ESB-L register.
ESB-S, ESBS	Errored Seconds type B – Section, ESB-S register. (Near-end only.)
FC-L, FCL	Failure Counts – Line, FC-L register.
LOSS, LOSS-S	Loss Of Signal Seconds – Section, LOSS register. (Near-end only.)
PSC, PSC-L, PSCL	Protection Switch Counts – Line, PSC-L register. (Near-end only.)
PSD, PSD-L, PSDL	Protection Switch Duration – Line, PSD-L register. (Near-end only.)
SEFS, SEFS-S	Severely Errored Frame Seconds – Section, SEFS-S register. (Near-end only.)
SES-L, SESL	Severely Errored Seconds – Line, SES-L register.
SES-S, SESS	Severely Errored Seconds – Section, SES-S register. (Near-end only.)
UAS-L, UASL	Unavailable Seconds – Line, UAS-L register.
Restrictions:	RTRV-PM-OC12 is denied if the specified MONTYPE value is not supported for the specified LOCN value (e.g., MONTYPE of CV-S and LOCN of FEND is entered).

MONLEV	<p>{LEVEL–DIRECTION:{0–4294967295} – {DN, DNORNCMPL, UP, UPORNCMPL} }</p> <p>Default: {1–UP}</p> <p>Addressing: None</p> <p>Description: Monitoring Level, specifies the discriminating level of PM parameter event counts to be reported for the specified monitored parameter (MONTYPE). The format of MONLEV is <LEVEL> – <DIRECTION>. Values are:</p> <p>{0–4294967295} – DN <LEVEL> – Down, Only PM data for the specified MONTYPE that is less–than or equal–to (<) the value of <LEVEL> is reported.</p> <p>{0–4294967295} – DNORNCMPL <LEVEL> – Down Or Not Complete, Only PM data for the specified MONTYPE that is < the value of <LEVEL> or that does not have a VLDTY flag of CMPL (i.e., the PM data is > the value of <LEVEL> and has a VLDTY flag of {ADJ, LONG, NA, OFF, PRTL}) is reported.</p> <p>{0–4294967295} – UP <LEVEL> – Up, Only PM data for the specified MONTYPE that is greater–than or equal–to (>) the value of <LEVEL> is reported.</p> <p>{0–4294967295} – UPORNCMPL <LEVEL> – Up Or Not Complete, Only PM data for the specified MONTYPE that is > the value of <LEVEL> or that does not have a VLDTY flag of CMPL (i.e., the PM data is < the value of <LEVEL> and has a VLDTY flag of {ADJ, LONG, NA, OFF, PRTL}) is reported.</p>						
LOCN	<p>{FEND, NEND}</p> <p>Default: < All applicable locations for the selected monitored parameters ></p> <p>Addressing: None</p> <p>Description: Location, specifies whether PM registers for near–end or far–end PM monitoring are to be retrieved. Values are:</p> <table> <tr> <td>FEND</td><td>Far–End</td></tr> <tr> <td>NEND</td><td>Near–End</td></tr> </table> <p>Restrictions: RTRV–PM–OC12 is denied if the specified MONTYPE value is not supported for the specified LOCN value (e.g., MONTYPE of CV–S and LOCN of FEND is entered).</p>	FEND	Far–End	NEND	Near–End		
FEND	Far–End						
NEND	Near–End						
DIRN	<p>{NA, RCV, TRMT}</p> <p>Default: < All applicable directions ></p> <p>Addressing: None</p> <p>Description: Direction, specifies the direction of the signal being monitored. The value for DIRN is verified, but does not affect the function of the RTRV–PM–OC12 command.</p> <table> <tr> <td>NA</td><td>Not Applicable</td></tr> <tr> <td>RCV</td><td>Receive side</td></tr> <tr> <td>TRMT</td><td>Transmit direction</td></tr> </table>	NA	Not Applicable	RCV	Receive side	TRMT	Transmit direction
NA	Not Applicable						
RCV	Receive side						
TRMT	Transmit direction						

TMPER	{15-MIN, 1-DAY, BOTH}
	Default: {15-MIN}
	Addressing: None
	Description: Time Period, specifies whether PM data for the 15-minute and/or the daily (24 hour) PM collection register for the specified parameter is to be retrieved. Values are:
	<div> <div>15-MIN</div> <div>15-Minute PM collection register</div> </div> <div> <div>1-DAY</div> <div>1-Day (24 hour) PM collection register</div> </div> <div> <div>BOTH</div> <div>Both 15-Minute and 1-Day PM collection registers</div> </div>
MONDAT	Restrictions: RTRV-PM-OC12 is denied if TMPER of 15-MIN is entered and the date and time specified by MONDAT and MONTM is not within the previous eight (8) hours of the current time.
	RTRV-PM-OC12 is denied if TMPER of {1-DAY, BOTH} is entered and the date specified by MONDAT is not within the previous seven (7) days of the current time.
	RTRV-PM-OC12 is denied if TMPER of 1-DAY and NUM15MIN of {1-32, ALL} (i.e., any value) is entered.
	RTRV-PM-OC12 is denied if TMPER of 15-MIN and NUM1DAY of {1-7, ALL} (i.e., any value) is entered.
MONDAT	{MONTH-DAY:{01-12} – {01-31} }
	Default: < Current date >
	Addressing: None
	Description: Monitor Date, specifies the (starting) date of the PM collection period for which PM data is to be retrieved. The format of MONDAT is <MONTH_OF_YEAR> – <DAY_OF_MONTH>.
Restrictions:	RTRV-PM-OC12 is denied if TMPER of 15-MIN is entered and the date and time specified by MONDAT and MONTM is not within the previous eight (8) hours of the current time.
	RTRV-PM-OC12 is denied if TMPER of {1-DAY, BOTH} is entered and the date specified by MONDAT is not within the previous seven (7) days of the current time.
MONTM	{HOUR-MINUTE:{00-23} – {00-59} }
	Default: < Current time >
	Addressing: None
	Description: Monitor Time, if TMPER of {15-MIN, BOTH} is entered, specifies the (starting) time of the PM collection period for which PM data is to be retrieved. If TMPER of 1-DAY is entered, the value of MONTM is ignored (i.e., an entered value is validated, but does not affect the command execution). The format of MONTM is <HOUR_OF_DAY> – <MINUTE_OF_HOUR>, where:
Restrictions:	<HOUR_OF_DAY> is in 24 hour time.
	<MINUTE_OF_HOUR> set to {0-14} specifies the first 15-minute period within the <HOUR_OF_DAY> value.
	<MINUTE_OF_HOUR> set to {15-29} specifies the second 15-minute period within the <HOUR_OF_DAY> value.
	<MINUTE_OF_HOUR> set to {30-44} specifies the third 15-minute period within the <HOUR_OF_DAY> value.
	<MINUTE_OF_HOUR> set to {45-59} specifies the fourth 15-minute period within the <HOUR_OF_DAY> value.
Restrictions:	RTRV-PM-OC12 is denied if TMPER of 15-MIN is entered and the date and time specified by MONDAT and MONTM is not within the previous eight (8) hours of the current time.

NUM15MIN	{1–32, ALL, <NoVal> Default: <NoVal> Addressing: None Description: Number of 15–Minute Historical Registers, specifies the number of 15–Minute historical PM data registers to retrieve in addition to that specified by MONDAT and MONTM. Values are: 1–32 1–32 additional historical 15–Minute PM data registers. ALL All additional historical 15–Minute PM data registers. <NoVal> No Value, no additional historical 15–Minute PM data registers. Restrictions: RTRV–PM–OC12 is denied if NUM15MIN of {1–32, ALL} (i.e., any value) and TMPER of 1–DAY is entered.
NUM1DAY	{1–7, ALL, <NoVal> Default: <NoVal> Addressing: None Description: Number of 1–Day Historical Registers, specifies the number of 1–Day historical PM data registers to retrieve in addition to that specified by MONDAT and MONTM. Values are: 1–7 1–7 additional historical 1–Day PM data registers. ALL All additional historical 1–Day PM data registers. <NoVal> No Value, no additional historical 1–Day PM data registers. Restrictions: RTRV–PM–OC12 is denied if NUM1DAY of {1–7, ALL} (i.e., any value) and TMPER of 15–MIN is entered.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
["<AID>,OC12:[<NENDALM>],[<FENDALM>],<PST>,<SST>"]
"<AID>,OC12:<MONTYPE>,<MONVAL>,<VLDTY>,<LOCN>,<DIRN>,<TMPER>,<MONDAT>,<MONTM>"
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

Note: The first line of parsable output is provided only when a value for NUM15MIN is entered. The second line of parsable output is provided for each PM data register reported.

OUTPUT PARAMETERS

AID	OC12_AID: {OC12–{1–560}} OC12 AID, identifies the OC–12 port.	(OC12–OC12#)
FENDALM	{RFI} Far End OC–12 Alarm Condition, identifies any far–end OC–12 alarm conditions that exist on the OC–12. A FENDALM value is only reported if a FENDALM condition exists. Value is: RFI Remote Failure Indication detected	
NENDALM	{AIS, LOF, LOS} Near End OC–12 Alarm Condition, identifies any near–end OC–12 alarm conditions that exist on the OC–12. A NENDALM value is reported only if a NENDALM condition exists. Values are: AIS Alarm Indication Signal, AIS detected LOF Loss Of Frame detected LOS Loss Of Signal detected	

PST	{IS, OOS–AU, OOS–AUMA, OOS–MA}
	Primary State, indicates the current primary state of the OC–12. Refer to Appendix G, State Transitions for a definition of state names and description of state transitions. Values are:
	IS In Service
	OOS–AU Out Of Service–Autonomous
	OOS–AUMA Out Of Service–Autonomous and Management
	OOS–MA Out Of Service–Management
SST	{AINS, DSBLD, FAF, LPBK, MT, PMI, PSI, STBYH, UAS, WRK}
	Secondary State, indicates any secondary states associated with the OC–12. SST values may be shown in the output combined with an ampersand (&) if more than one value applies to the OC–12 at the time of the RTRV–PM–OC12. Refer to Appendix G, State Transitions for a definition of state names and description of state transitions. Values are:
	AINS The OC–12 is under Automatic IN–Service state.
	DSBLD Disabled
	FAF Facility failure
	LPBK Loopback
	MT Maintenance
	PMI Performance Monitoring Inhibited
	PSI Protection Switching Inhibited
	STBYH If set on Working line, the working line is ready to carry service (no FAF). If set on Protection line, the Protection line is ready to carry service (no FAF).
	UAS Unassigned
	WRK If set on Working line, the Working line is carrying service. If set on Protection line, the Protection line is carrying service.
MONTYPE	NEAR_END_PARAMETERS:{AISS, CVL, CVS, ESL, ESS, ESA–L, ESA–S, ESB–L, ESB–S, FC–L, LOSS, PSC–L, PSD–L, SEFS, SESL, SESS, UASL},
	FAR_END_PARAMETERS:{AISS, CVL, ESL, ESA–L, ESB–L, FC–L, SESL, UASL}
	Monitored Parameter Type, identifies the monitored parameter. Refer to Appendix F, Monitored PM Parameters for a list of all monitored PM parameters. Values are:
	AISS Alarm Indication Signal Seconds – Line, AISS register.
	CVL Coding Violations – Line, CV–L register.
	CVS Coding Violations – Section, CV–S register.
	ESL Errored Seconds – Line, ES–L register.
	ESS Errored Seconds – Section, ES–S register.
	ESA–L Errored Seconds type A – Line, ESA–L register.
	ESA–S Errored Seconds type A – Section, ESA–S register.
	ESB–L Errored Seconds type B – Line, ESB–L register.
	ESB–S Errored Seconds type B – Section, ESB–S register.
	FC–L Failure Counts – Line, FC–L register.
	LOSS Loss Of Signal Seconds – Section, LOSS register.
	PSC–L Protection Switch Counts – Line, PSC–L register.
	PSD–L Protection Switch Duration – Line, PSD–L register.
	SEFS Severely Errored Frame Seconds – Section, SEFS–S register.
	SESL Severely Errored Seconds – Line, SES–L register.
	SESS Severely Errored Seconds – Section, SES–S register.
	UASL Unavailable Seconds – Line, UAS–L register.

MONVAL	{0–4294967295, NA} Monitored Parameter Value, indicates the measured value of the indicated MONTYPE being reported. Values are: 0–4294967295 Measured Value of the Monitored Parameter, value reported if VLDTY is not {NA}. NA Not Available, value reported if VLDTY is {NA}.
VLDTY	{ADJ, COMPL, LONG, NA, OFF, PRTL} Validity, indicates whether the PM data being retrieved for the specified time period was accumulated over the entire time period or some portion thereof. Values are: ADJ Adjusted, the data was manually adjusted or initialized (via INIT–REG–OC12). COMPL Complete, the data was accumulated over the entire time period. LONG Longer, the data was accumulated over a greater period of time than the indicated time period. NA Not Available, the data is not available. OFF Off, PM data collection for the entire time period was disabled (via SET–PMMODE–OC12). PRTL Partial, the data was accumulated over some portion of the time period, but not the entire time period.
LOCN	{FEND, NEND} Location, indicates whether a near–end or far–end monitored parameter is being reported. Values are: FEND Far–End NEND Near–End
DIRN	{NA, RCV} Direction, identifies the direction of the signal being monitored. Values are: NA Not Applicable, value reported for LOCN value of FEND. RCV Receive side, value reported for LOCN value of NEND.
TMPER	{15–MIN, 1–DAY} Time Period, identifies the accumulation time period for the indicated monitored parameter. Values are: 15–MIN 15–Minute PM collection period 1–DAY 1–Day (24 hour) PM collection period
MONDAT	{MONTH–DAY:{01–12} – {01–31} } Monitor Date, identifies the date when the PM collection period began. The format of MONDAT is <MONTH_OF_YEAR> – <DAY_OF_MONTH>.
MONTM	{HOUR–MINUTE:{00–23} – {00–59} } Monitor Time, identifies the time of day when the PM collection period began. The format of MONTM is <HOUR_OF_DAY> – <MINUTE_OF_HOUR>.

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non–Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent /* Value for num15min is not consistent with value for time period */ /* Value for num1day is not consistent with value for time period */
IDNV	Input, Data Not Valid /* Invalid location in request message. */ /* Invalid montype in request message. */ /* Invalid monlev in request message. */ /* Invalid direction in request message. */ /* Invalid time period in request message. */ /* Invalid date in request message. */ /* Invalid num15min value in request message. */ /* Invalid num1day value in request message. */ /* Invalid day for the requested month. */ /* Invalid time in request message. */ /* Input date/time is not within the valid range. */
IIAC	Input, Invalid ACcess identifier /* AID not in Partition. */ /* Invalid AID entered. */
IIPG	Input, Invalid Parameter Grouping /* Invalid location for requested montype. */
SDBE	Status, internal Data Base Error /* Error in reading TP database record. */
SROF	Status, Requested Operation Failed /* Timeout waiting for response from <AID>. */ /* Invalid time period is detected, TMPER = <TIME PERIOD>. */ /* Unable to determine the global TP number, TPType=<TP TYPE>, TPNum=<TP NUMBER>. */ /* Unable to allocate memory for user data. */ /* rpt_file error – <ERRNO>, status = <STATUS> */ /* Cannot open <FILENAME> */ /* nrl_rpt_print error – no transaction, msgtype = <MSGTYPE> */ /* rpt_print error – <ERRNO>, status = <STATUS> */ /* Unable to determine the history file name, TPType=<TP TYPE>, TMPER=<TIME PERIOD>, FileIdx=<FILE INDEX>. */ /* Failed to send rtrv pm msg to SPB/IPU=<SPB/IPU ADDRESS>. */ /* Failed to retrieve PM historical data. */ /* Unable to determine supporting facility entity. */ /* Error occurred while provisioning equipment. */ /* Unexpected response message received from <CARDNAME>. */ /* Failed to convert tp num to AID string. */ /* Unable to determine facility type. */ /* Unable to determine alarms. */ /* Failed to get PST and SST State. */

EXAMPLES

In the following example, the 1-Day historical PM data that was accumulated for OC12 port OC12-105 on January 15th for all monitored parameters with a value greater than or equal to a count of 12 is retrieved.

```
RTRV-PM-OC12::OC12-105:::ALL,12-UP,,1-DAY,1-15;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71042. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P71042 COMPLD
"OC12-105,OC12:CVL,14,CMPL,NEND,RCV,1-DAY,01-15,00-00"
"OC12-105,OC12:ESL,15,CMPL,NEND,RCV,1-DAY,01-15,00-00"
/* RTRV-PM-OC12::OC12-105:::ALL,12-UP,,1-DAY,1-15 [P71042] (1) */
;
```

In the following example, the current near-end and far-end 15-Minute AIS seconds (AISS) PM data for OC12 port OC12-113 is retrieved.

```
RTRV-PM-OC12::OC12-113:::AISS;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of P71048. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P71048 COMPLD
"OC12-113,OC12:AISS,1,PRTL,NEND,RCV,15-MIN,01-18,10-30"
"OC12-113,OC12:AISS,0,PRTL,FEND,RCV,15-MIN,01-18,10-30"
/* RTRV-PM-OC12::OC12-113:::AISS [P71048] (2) */
;
```

In the following example, the 15-minute historical near-end errored seconds, line (ES-L) PM data that was accumulated for OC12 port OC12-113 on January 18th for the collection period beginning at 8:15 am is retrieved.

```
RTRV-PM-OC12::OC12-113:::ES-L,0-UP,NEND,,15-MIN,1-18,8-20;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of P71049. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P71049 COMPLD
"OC12-113,OC12:ESL,0,CMPL,NEND,RCV,15-MIN,01-18,08-15"
/* RTRV-PM-OC12::OC12-113:::ES-L,0-UP,NEND,,15-MIN,1-18,8-20
[P71049] (2) */
;
```

RELATED COMMANDS

```
ENT-OC12
INIT-REG-OC12
RTRV-DFLTTH-OC12
RTRV-PMATTR-ALL
RTRV-PMMODE-OC12
RTRV-TH-OC12
SET-DFLTTH-OC12
SET-PMATTR-ALL
SET-PMMODE-OC12
SET-TH-OC12
```

3AL45392AJ

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RELATED AUTONOMOUS RESPONSES

REPT^EVT^OC12

REPT^PM^OC12

COMMAND CODE: RTRV-PM-OC3
COMMAND NAME: RETRIEVE PERFORMANCE
MONITORING OC-3

PURPOSE

The RTRV-PM-OC3 command retrieves the current and/or historical 15-Minute and/or 1-Day PM data corresponding to the specified PM data collection register(s) for the specified OC3 port(s).

For each monitored parameter, the current and/or up to thirty-two (32) 15-Minute historical (up to the most recent previous 8 hours of 15-Minute PM data) PM registers, or the current and/or up to seven (7) 1-Day historical PM registers, or a combination of both 15-Minute and 1-Day PM registers can be retrieved.

If the SET-PMODE-OC3 command is set to PMSTATE=OFF for an entire 15-minute period and no PM occurs on that port, and if the PMSTATE is set to ON within several minutes after the 15-minute period, then the retrieved VLDTY value (via RTRV-PM-OC3) for the previous 15-minute period *may not* be displayed as OFF.

The successful response for a RTRV-PM-OC3 command contains the following lines of parsable output data for each provisioned OC3 AID specified, in ascending order by OC3 AID:

- If a value for NUM15MIN is entered, one line of parsable output data identifying any existing alarms and the current state of the OC3,
- A line of parsable output data for each PM parameter for each PM collection period being reported, in ascending order by PM collection period. No output PM data is provided if the port is not provisioned. No output PM data is provided if the date and time specified exceed the available collection periods (i.e., exceeds 8 hours for 15-Minute PM registers or 7 days for 1-Day PM registers).

A RTRV-PM-OC3 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-PM-OC3 : [TID] : AID : [CTAG] : : [MONTYPE] , [MONLEV] , [LOCN] , [DIRN] , [TMPER] ,
[MONDAT] , [MONTM] , [NUM15MIN] , [NUM1DAY] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	OC3_AID: {OC3-{1-2240}} (OC3-OC3#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: OC3 AID, identifies the OC-3 port.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

MONTYPE	{ALL}, NEAR_END_PARAMETERS:{AISS, AISS-L, AISSL, CV-L, CVL, CV-S, CVS, ES-L, ESL, ES-S, ESS, ESA-L, ESAL, ESA-S, ESAS, ESB-L, ESBL, ESB-S, ESBS, FC-L, FCL, LOSS, LOSS-S, PSC, PSC-L, PSCL, PSD, PSD-L, PSDL, SEFS, SEFS-S, SES-L, SESL, SES-S, SESS, UAS-L, UASL}, FAR_END_PARAMETERS:{AISS, AISS-L, AISSL, CV-L, CVL, ES-L, ESL, ESA-L, ESAL, ESB-L, ESBL, FC-L, FCL, SES-L, SESL, UAS-L, UASL}
Default:	{ALL}
Addressing:	None
Description:	Monitored Parameter Type, identifies the type of monitored parameter whose PM data is being retrieved. A parameter may be specified by more than one value, e.g., parameter values may be entered with or without the dash (-). Refer to Appendix F, Monitored PM Parameters for a list of all monitored PM parameters. Values are:
ALL	All monitored parameter PM registers.
AISS, AISS-L, AISSL	Alarm Indication Signal Seconds – Line, AISS register.
CV-L, CVL	Coding Violations – Line, CV-L register.
CV-S, CVS	Coding Violations – Section, CV-S register. (Near-end only.)
ES-L, ESL	Errored Seconds – Line, ES-L register.
ES-S, ESS	Errored Seconds – Section, ES-S register. (Near-end only.)
ESA-L, ESAL	Errored Seconds type A – Line, ESA-L register.
ESA-S, ESAS	Errored Seconds type A – Section, ESA-S register. (Near-end only.)
ESB-L, ESBL	Errored Seconds type B – Line, ESB-L register.
ESB-S, ESBS	Errored Seconds type B – Section, ESB-S register. (Near-end only.)
FC-L, FCL	Failure Counts – Line, FC-L register.
LOSS, LOSS-S	Loss Of Signal Seconds – Section, LOSS register. (Near-end only.)
PSC, PSC-L, PSCL	Protection Switch Counts – Line, PSC-L register. (Near-end only.)
PSD, PSD-L, PSDL	Protection Switch Duration – Line, PSD-L register. (Near-end only.)
SEFS, SEFS-S	Severely Errored Frame Seconds – Section, SEFS-S register. (Near-end only.)
SES-L, SESL	Severely Errored Seconds – Line, SES-L register.
SES-S, SESS	Severely Errored Seconds – Section, SES-S register. (Near-end only.)
UAS-L, UASL	Unavailable Seconds – Line, UAS-L register.
Restrictions:	RTRV-PM-OC3 is denied if the specified MONTYPE value is not supported for the specified LOCN value (e.g., MONTYPE of CV-S and LOCN of FEND is entered).

MONLEV	{LEVEL–DIRECTION:{0–4294967295} – {DN, DNORNCMPL, UP, UPORNCMPL} }	
	Default:	{1–UP}
	Addressing:	None
	Description:	Monitoring Level, specifies the discriminating level of PM parameter event counts to be reported for the specified monitored parameter (MONTYPE). The format of MONLEV is <LEVEL> – <DIRECTION>. Values are:
	{0–4294967295} – DN <LEVEL> – Down, Only PM data for the specified MONTYPE that is less–than or equal–to (<) the value of <LEVEL> is reported. {0–4294967295} – DNORNCMPL <LEVEL> – Down Or Not Complete, Only PM data for the specified MONTYPE that is < the value of <LEVEL> or that does not have a VLDTY flag of CMPL (i.e., the PM data is > the value of <LEVEL> and has a VLDTY flag of {ADJ, LONG, NA, OFF, PRTL}) is reported. {0–4294967295} – UP <LEVEL> – Up, Only PM data for the specified MONTYPE that is greater–than or equal–to (>) the value of <LEVEL> is reported. {0–4294967295} – UPORNCMPL <LEVEL> – Up Or Not Complete, Only PM data for the specified MONTYPE that is > the value of <LEVEL> or that does not have a VLDTY flag of CMPL (i.e., the PM data is < the value of <LEVEL> and has a VLDTY flag of {ADJ, LONG, NA, OFF, PRTL}) is reported.	
LOCN	{FEND, NEND}	
	Default:	< All applicable locations for the selected monitored parameters >
	Addressing:	None
	Description:	Location, specifies whether PM registers for near–end or far–end PM monitoring are to be retrieved. Values are:
	FEND Far–End NEND Near–End Restrictions: RTRV–PM–OC3 is denied if the specified MONTYPE value is not supported for the specified LOCN value (e.g., MONTYPE of CV–S and LOCN of FEND is entered).	
DIRN	{NA, RCV, TRMT}	
	Default:	< All applicable directions >
	Addressing:	None
	Description:	Direction, specifies the direction of the signal being monitored. The value for DIRN is verified, but does not affect the function of the RTRV–PM–OC3 command.
	NA Not Applicable RCV Receive side TRMT Transmit direction	

TMPER	{15-MIN, 1-DAY, BOTH}
	Default: {15-MIN}
	Addressing: None
	Description: Time Period, specifies whether PM data for the 15-minute and/or the daily (24 hour) PM collection register for the specified parameter is to be retrieved. Values are:
	15-MIN 15-Minute PM collection register
	1-DAY 1-Day (24 hour) PM collection register
	BOTH Both 15-Minute and 1-Day PM collection registers
	Restrictions: RTRV-PM-OC3 is denied if TMPER of 15-MIN is entered and the date and time specified by MONDAT and MONTM is not within the previous eight (8) hours of the current time. RTRV-PM-OC3 is denied if TMPER of {1-DAY, BOTH} is entered and the date specified by MONDAT is not within the previous seven (7) days of the current time. RTRV-PM-OC3 is denied if TMPER of 1-DAY and NUM15MIN of {1-32, ALL} (i.e., any value) is entered. RTRV-PM-OC3 is denied if TMPER of 15-MIN and NUM1DAY of {1-7, ALL} (i.e., any value) is entered.
MONDAT	{MONTH-DAY:{01-12} – {01-31} }
	Default: < Current date >
	Addressing: None
	Description: Monitor Date, specifies the (starting) date of the PM collection period for which PM data is to be retrieved. The format of MONDAT is <MONTH_OF_YEAR> – <DAY_OF_MONTH>.
	Restrictions: RTRV-PM-OC3 is denied if TMPER of 15-MIN is entered and the date and time specified by MONDAT and MONTM is not within the previous eight (8) hours of the current time. RTRV-PM-OC3 is denied if TMPER of {1-DAY, BOTH} is entered and the date specified by MONDAT is not within the previous seven (7) days of the current time.
MONTM	{HOUR-MINUTE:{00-23} – {00-59} }
	Default: < Current time >
	Addressing: None
	Description: Monitor Time, if TMPER of {15-MIN, BOTH} is entered, specifies the (starting) time of the PM collection period for which PM data is to be retrieved. If TMPER of 1-DAY is entered, the value of MONTM is ignored (i.e., an entered value is validated, but does not affect the command execution). The format of MONTM is <HOUR_OF_DAY> – <MINUTE_OF_HOUR>, where: <HOUR_OF_DAY> is in 24 hour time. <MINUTE_OF_HOUR> set to {0-14} specifies the first 15-minute period within the <HOUR_OF_DAY> value. <MINUTE_OF_HOUR> set to {15-29} specifies the second 15-minute period within the <HOUR_OF_DAY> value. <MINUTE_OF_HOUR> set to {30-44} specifies the third 15-minute period within the <HOUR_OF_DAY> value. <MINUTE_OF_HOUR> set to {45-59} specifies the fourth 15-minute period within the <HOUR_OF_DAY> value.
	Restrictions: RTRV-PM-OC3 is denied if TMPER of 15-MIN is entered and the date and time specified by MONDAT and MONTM is not within the previous eight (8) hours of the current time.

NUM15MIN	{1–32, ALL, <NoVal>}
Default:	<NoVal>
Addressing:	None
Description:	Number of 15–Minute Historical Registers, specifies the number of 15–Minute historical PM data registers to retrieve in addition to that specified by MONDAT and MONTM. Values are:
	1–32 1–32 additional historical 15–Minute PM data registers.
	ALL All additional historical 15–Minute PM data registers.
	<NoVal> No Value, no additional historical 15–Minute PM data registers.
Restrictions:	RTRV–PM–OC3 is denied if NUM15MIN of {1–32, ALL} (i.e., any value) and TMPER of 1–DAY is entered.
NUM1DAY	{1–7, ALL, <NoVal>}
Default:	<NoVal>
Addressing:	None
Description:	Number of 1–Day Historical Registers, specifies the number of 1–Day historical PM data registers to retrieve in addition to that specified by MONDAT and MONTM. Values are:
	1–7 1–7 additional historical 1–Day PM data registers.
	ALL All additional historical 1–Day PM data registers.
	<NoVal> No Value, no additional historical 1–Day PM data registers.
Restrictions:	RTRV–PM–OC3 is denied if NUM1DAY of {1–7, ALL} (i.e., any value) and TMPER of 15–MIN is entered.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
[ "<AID>, OC3 : [<NENDALM>] , [<FENDALM>] , <PST> , <SST>" ]
  "<AID>, OC3 : <MONTYPE> , <MONVAL> , <VLDTY> , <LOCN> , <DIRN> , <TMPER> ,
<MONDAT> , <MONTM>"
  [/* <Command Echo> [<CTAG>] (<CID [-VCNUM]>) */]
;

```

Note: The first line of parsable output is provided only when a value for NUM15MIN is entered. The second line of parsable output is provided for each PM data register reported.

OUTPUT PARAMETERS

AID	OC3_AID: {OC3–{1–2240}} OC3 AID, identifies the OC–3 port.	(OC3–OC3#)
FENDALM	{RFI} Far End OC–3 Alarm Condition, identifies any far–end OC–3 alarm conditions that exist on the OC–3. A FENDALM value is only reported if a FENDALM condition exists. Value is: RFI Remote Failure Indication detected	
NENDALM	{AIS, LOF, LOS} Near End OC–3 Alarm Condition, identifies any near–end OC–3 alarm conditions that exist on the OC–3. A NENDALM value is reported only if a NENDALM condition exists. Values are: AIS Alarm Indication Signal, AIS detected LOF Loss Of Frame detected LOS Loss Of Signal detected	

PST	<p>{IS, OOS–AU, OOS–AUMA, OOS–MA}</p> <p>Primary State, indicates the current primary state of the OC–3. Refer to Appendix G, State Transitions for a definition of state names and description of state transitions. Values are:</p> <table> <tr> <td>IS</td><td>In Service</td></tr> <tr> <td>OOS–AU</td><td>Out Of Service–Autonomous</td></tr> <tr> <td>OOS–AUMA</td><td>Out Of Service–Autonomous and Management</td></tr> <tr> <td>OOS–MA</td><td>Out Of Service–Management</td></tr> </table>	IS	In Service	OOS–AU	Out Of Service–Autonomous	OOS–AUMA	Out Of Service–Autonomous and Management	OOS–MA	Out Of Service–Management																										
IS	In Service																																		
OOS–AU	Out Of Service–Autonomous																																		
OOS–AUMA	Out Of Service–Autonomous and Management																																		
OOS–MA	Out Of Service–Management																																		
SST	<p>{AINS, DSBLD, FAF, LPBK, MT, PMI, PSI, STBYH, UAS, WRK}</p> <p>Secondary State, indicates any secondary states associated with the OC–3. SST values may be shown in the output combined with an ampersand (&) if more than one value applies to the OC–3 at the time of the RTRV–PM–OC3. Refer to Appendix G, State Transitions for a definition of state names and description of state transitions. Values are:</p> <table> <tr> <td>AINS</td><td>The OC–3 is under Automatic IN–Service state.</td></tr> <tr> <td>DSBLD</td><td>Disabled</td></tr> <tr> <td>FAF</td><td>Facility failure</td></tr> <tr> <td>LPBK</td><td>Loopback</td></tr> <tr> <td>MT</td><td>Maintenance</td></tr> <tr> <td>PMI</td><td>Performance Monitoring Inhibited</td></tr> <tr> <td>PSI</td><td>Protection Switching Inhibited</td></tr> <tr> <td>STBYH</td><td>If set on Working line, the working line is ready to carry service (no FAF). If set on Protection line, the Protection line is ready to carry service (no FAF).</td></tr> <tr> <td>UAS</td><td>Unassigned</td></tr> <tr> <td>WRK</td><td>If set on Working line, the Working line is carrying service. If set on Protection line, the Protection line is carrying service.</td></tr> </table>	AINS	The OC–3 is under Automatic IN–Service state.	DSBLD	Disabled	FAF	Facility failure	LPBK	Loopback	MT	Maintenance	PMI	Performance Monitoring Inhibited	PSI	Protection Switching Inhibited	STBYH	If set on Working line, the working line is ready to carry service (no FAF). If set on Protection line, the Protection line is ready to carry service (no FAF).	UAS	Unassigned	WRK	If set on Working line, the Working line is carrying service. If set on Protection line, the Protection line is carrying service.														
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WRK	If set on Working line, the Working line is carrying service. If set on Protection line, the Protection line is carrying service.																																		
MONTYPE	<p>NEAR_END_PARAMETERS:{AISS, CVL, CVS, ESL, ESS, ESA–L, ESA–S, ESB–L, ESB–S, FC–L, LOSS, PSC–L, PSD–L, SEFS, SESL, SESS, UASL},</p> <p>FAR_END_PARAMETERS:{AISS, CVL, ESL, ESA–L, ESB–L, FC–L, SESL, UASL}</p> <p>Monitored Parameter Type, identifies the monitored parameter. Refer to Appendix F, Monitored PM Parameters for a list of all monitored PM parameters. Values are:</p> <table> <tr> <td>AISS</td><td>Alarm Indication Signal Seconds – Line, AISS register.</td></tr> <tr> <td>CVL</td><td>Coding Violations – Line, CV–L register.</td></tr> <tr> <td>CVS</td><td>Coding Violations – Section, CV–S register.</td></tr> <tr> <td>ESL</td><td>Errored Seconds – Line, ES–L register.</td></tr> <tr> <td>ESS</td><td>Errored Seconds – Section, ES–S register.</td></tr> <tr> <td>ESA–L</td><td>Errored Seconds type A – Line, ESA–L register.</td></tr> <tr> <td>ESA–S</td><td>Errored Seconds type A – Section, ESA–S register.</td></tr> <tr> <td>ESB–L</td><td>Errored Seconds type B – Line, ESB–L register.</td></tr> <tr> <td>ESB–S</td><td>Errored Seconds type B – Section, ESB–S register.</td></tr> <tr> <td>FC–L</td><td>Failure Counts – Line, FC–L register.</td></tr> <tr> <td>LOSS</td><td>Loss Of Signal Seconds – Section, LOSS register.</td></tr> <tr> <td>PSC–L</td><td>Protection Switch Counts – Line, PSC–L register.</td></tr> <tr> <td>PSD–L</td><td>Protection Switch Duration – Line, PSD–L register.</td></tr> <tr> <td>SEFS</td><td>Severely Errored Frame Seconds – Section, SEFS–S register.</td></tr> <tr> <td>SESL</td><td>Severely Errored Seconds – Line, SES–L register.</td></tr> <tr> <td>SESS</td><td>Severely Errored Seconds – Section, SES–S register.</td></tr> <tr> <td>UASL</td><td>Unavailable Seconds – Line, UAS–L register.</td></tr> </table>	AISS	Alarm Indication Signal Seconds – Line, AISS register.	CVL	Coding Violations – Line, CV–L register.	CVS	Coding Violations – Section, CV–S register.	ESL	Errored Seconds – Line, ES–L register.	ESS	Errored Seconds – Section, ES–S register.	ESA–L	Errored Seconds type A – Line, ESA–L register.	ESA–S	Errored Seconds type A – Section, ESA–S register.	ESB–L	Errored Seconds type B – Line, ESB–L register.	ESB–S	Errored Seconds type B – Section, ESB–S register.	FC–L	Failure Counts – Line, FC–L register.	LOSS	Loss Of Signal Seconds – Section, LOSS register.	PSC–L	Protection Switch Counts – Line, PSC–L register.	PSD–L	Protection Switch Duration – Line, PSD–L register.	SEFS	Severely Errored Frame Seconds – Section, SEFS–S register.	SESL	Severely Errored Seconds – Line, SES–L register.	SESS	Severely Errored Seconds – Section, SES–S register.	UASL	Unavailable Seconds – Line, UAS–L register.
AISS	Alarm Indication Signal Seconds – Line, AISS register.																																		
CVL	Coding Violations – Line, CV–L register.																																		
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ESS	Errored Seconds – Section, ES–S register.																																		
ESA–L	Errored Seconds type A – Line, ESA–L register.																																		
ESA–S	Errored Seconds type A – Section, ESA–S register.																																		
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SESS	Severely Errored Seconds – Section, SES–S register.																																		
UASL	Unavailable Seconds – Line, UAS–L register.																																		

MONVAL	{0–4294967295, NA} Monitored Parameter Value, indicates the measured value of the indicated MONTYPE being reported. Values are: 0–4294967295 Measured Value of the Monitored Parameter, value reported if VLDTY is not {NA}. NA Not Available, value reported if VLDTY is {NA}.
VLDTY	{ADJ, COMPL, LONG, NA, OFF, PRTL} Validity, indicates whether the PM data being retrieved for the specified time period was accumulated over the entire time period or some portion thereof. Values are: ADJ Adjusted, the data was manually adjusted or initialized (via INIT–REG–OC3). COMPL Complete, the data was accumulated over the entire time period. LONG Longer, the data was accumulated over a greater period of time than the indicated time period. NA Not Available, the data is not available. OFF Off, PM data collection for the entire time period was disabled (via SET–PMMODE–OC3). PRTL Partial, the data was accumulated over some portion of the time period, but not the entire time period.
LOCN	{FEND, NEND} Location, indicates whether a near–end or far–end monitored parameter is being reported. Values are: FEND Far–End NEND Near–End
DIRN	{NA, RCV} Direction, identifies the direction of the signal being monitored. Values are: NA Not Applicable, value reported for LOCN value of FEND. RCV Receive side, value reported for LOCN value of NEND.
TMPER	{15–MIN, 1–DAY} Time Period, identifies the accumulation time period for the indicated monitored parameter. Values are: 15–MIN 15–Minute PM collection period 1–DAY 1–Day (24 hour) PM collection period
MONDAT	{MONTH–DAY:{01–12} – {01–31} } Monitor Date, identifies the date when the PM collection period began. The format of MONDAT is <MONTH_OF_YEAR> – <DAY_OF_MONTH>.
MONTM	{HOUR–MINUTE:{00–23} – {00–59} } Monitor Time, identifies the time of day when the PM collection period began. The format of MONTM is <HOUR_OF_DAY> – <MINUTE_OF_HOUR>.

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non–Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent /* Value for num15min is not consistent with value for time period */ /* Value for num1day is not consistent with value for time period */
IDNV	Input, Data Not Valid /* Invalid location in request message. */ /* Invalid montype in request message. */ /* Invalid monlev in request message. */ /* Invalid direction in request message. */ /* Invalid time period in request message. */ /* Invalid date in request message. */ /* Invalid num15min value in request message. */ /* Invalid num1day value in request message. */ /* Invalid day for the requested month. */ /* Invalid time in request message. */ /* Input date/time is not within the valid range. */
IIAC	Input, Invalid ACcess identifier /* AID not in Partition. */ /* Invalid AID entered. */
IIPG	Input, Invalid Parameter Grouping /* Invalid location for requested montype. */
SDBE	Status, internal Data Base Error /* Error in reading TP database record. */
SROF	Status, Requested Operation Failed /* Timeout waiting for response from <AID>. */ /* Invalid time period is detected, TMPER = <TIME PERIOD>. */ /* Unable to determine the global TP number, TPType=<TP TYPE>, TPNuM=<TP NUM- BER>. */ /* Unable to allocate memory for user data. */ /* rpt_file error – <ERRNO>, status = <STATUS> */ /* Cannot open <FILENAME> */ /* nrl_rpt_print error – no transaction, msgtype = <MSGTYPE> */ /* rpt_print error – <ERRNO>, status = <STATUS> */ /* Unable to determine the history file name, TPType=<TP TYPE>, TMPER=<TIME PE- RIOD>, FileIdx=<FILE INDEX>. */ /* Failed to send rtrv pm msg to SPB/IPU=<SPB/IPU ADDRESS>. */ /* Failed to retrieve PM historical data. */ /* Unable to determine supporting facility entity. */ /* Error occurred while provisioning equipment. */ /* Unexpected response message received from <CARDNAME>. */ /* Failed to convert tp num to AID string. */ /* Unable to determine facility type. */ /* Unable to determine alarms. */ /* Failed to get PST and SST State. */

EXAMPLES

In the following example, the 1-Day historical PM data that was accumulated for OC3 port OC3-105 on January 15th for all monitored parameters with a value greater than or equal to a count of 12 is retrieved.

```
RTRV-PM-OC3::OC3-105:::ALL,12-UP,,1-DAY,1-15;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71042. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P71042 COMPLD
"OC3-105,OC3:CVL,14,CMPL,NEND,RCV,1-DAY,01-15,00-00"
"OC3-105,OC3:ESL,15,CMPL,NEND,RCV,1-DAY,01-15,00-00"
/* RTRV-PM-OC3::OC3-105:::ALL,12-UP,,1-DAY,1-15 [P71042] (1) */
;
```

In the following example, the current near-end and far-end 15-Minute AIS seconds (AISS) PM data for OC3 port OC3-113 is retrieved.

```
RTRV-PM-OC3::OC3-113:::AISS;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of P71048. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P71048 COMPLD
"OC3-113,OC3:AISS,1,PRTL,NEND,RCV,15-MIN,01-18,10-30"
"OC3-113,OC3:AISS,0,PRTL,FEND,RCV,15-MIN,01-18,10-30"
/* RTRV-PM-OC3::OC3-113:::AISS [P71048] (2) */
;
```

In the following example, the 15-minute historical near-end errored seconds, line (ES-L) PM data that was accumulated for OC3 port OC3-113 on January 18th for the collection period beginning at 8:15 am is retrieved.

```
RTRV-PM-OC3::OC3-113:::ES-L,0-UP,NEND,,15-MIN,1-18,8-20;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of P71049. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P71049 COMPLD
"OC3-113,OC3:ESL,0,CMPL,NEND,RCV,15-MIN,01-18,08-15"
/* RTRV-PM-OC3::OC3-113:::ES-L,0-UP,NEND,,15-MIN,1-18,8-20
[P71049] (2) */
;
```

RELATED COMMANDS

```
ENT-OC3
INIT-REG-OC3
RTRV-DFLTTH-OC3
RTRV-PMATTR-ALL
RTRV-PMODE-OC3
RTRV-TH-OC3
SET-DFLTTH-OC3
SET-PMATTR-ALL
SET-PMODE-OC3
SET-TH-OC3
```

RELATED AUTONOMOUS RESPONSES

```
REPT^EVT^OC3
```

3AL45392AJ
Issue 01, February 2005

REPT^PM^OC3

COMMAND CODE: **RTRV-PM-STS1**
COMMAND NAME: **RETRIEVE PERFORMANCE
MONITORING STS-1**

PURPOSE

The RTRV-PM-STS1 command retrieves the current and/or historical 15-Minute and/or 1-Day PM data corresponding to the specified PM data collection register(s) for the specified STS1 port(s).

For each monitored parameter, the current and/or up to thirty-two (32) 15-Minute historical (up to the most recent previous 8 hours of 15-Minute PM data) PM registers, or the current and/or up to seven (7) 1-Day historical PM registers, or a combination of both 15-Minute and 1-Day PM registers can be retrieved.

If the SET-PMMODE-STS1 command is set to PMSTATE=OFF for an entire 15-minute period and no PM occurs on that port, and if the PMSTATE is set to ON within several minutes after the 15-minute period, then the retrieved VLDTY value (via RTRV-PM-STS1) for the previous 15-minute period *may not* be displayed as OFF.

The successful response for a RTRV-PM-STS1 command contains the following lines of parsable output data for each STS-1 AID specified, in ascending order by STS1 AID:

- If a value for NUM15MIN is entered, one line of parsable output data identifying any existing alarms and the current state of the STS1,
- A line of parsable output data for each PM parameter for each PM collection period being reported, in ascending order by PM collection period. No output PM data is provided if the port is not provisioned. No output PM data is provided if the date and time specified exceed the available collection periods (i.e., exceeds 8 hours for 15-Minute PM registers or 7 days for 1-Day PM registers).
- No line of parsable output data is provided if the specified STS1 is embedded within a protection OC3 or OC12.

A RTRV-PM-STS1 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-PM-STS1: [TID] :AID: [CTAG] :: [MONTYPE] , [MONLEV] , [LOCN] , [DIRN] , [TMPER] ,
[MONDAT] , [MONTM] , [NUM15MIN] , [NUM1DAY] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >		
	Default:	<SID>	
	Addressing:	None	
	Description:	Target Identifier, specifies the network node TID for the command.	
AID	STS1_AID:		
	{EC1STS1-{1-3840}}	(EC1STS1-EC1/STS1#)	
	{OC3STS1-{1-2240}-{1-3}}	(OC3STS1-OC3#-STS1#)	
	{OC12STS1-{1-560}-{1-4}-{1-3}}	(OC12STS1-OC12#-STM1#-STS1#)	
	Default:	Entry Required	
	Addressing:	&&-ranging and &-grouping	
	Description:	STS1 AID, identifies the STS-1 port.	
CTAG	< 1-6 VALID CTAG CHARACTERS >		
	Default:	< System assigned CTAG value >	
	Addressing:	None	
	Description:	Correlation Tag, associates input command with its output responses.	

MONTYPE	{ALL}, NEAR_END_PARAMETERS:{ALS-P, ALSP, CV-P, CVP, ES-P, ESP, ESA-P, ESAP, ESB-P, ESBP, FC-P, FCP, SES-P, SESP, UAS-P, UASP}, FAR_END_PARAMETERS:{ALS-P, ALSP, CV-P, CVP, ES-P, ESP, ESA-P, ESAP, ESB-P, ESBP, FC-P, FCP, SES-P, SESP, UAS-P, UASP}																		
	Default: {ALL} Addressing: None Description: Monitored Parameter Type, identifies the type of monitored parameter whose PM data is being retrieved. A parameter may be specified by more than one value, e.g., parameter values may be entered with or without the dash (-). Refer to Appendix F, Monitored PM Parameters for a list of all monitored PM parameters. Values are:																		
	<table> <tr> <td>ALL</td><td>All monitored parameter PM registers.</td></tr> <tr> <td>ALS-P, ALSP</td><td>Alarm Indication Signal/Loss of Pointer – Path, ALS-P register.</td></tr> <tr> <td>CV-P, CVP</td><td>Coding Violations – Path, CV-P register.</td></tr> <tr> <td>ES-P, ESP</td><td>Errored Seconds – Path, ES-P register.</td></tr> <tr> <td>ESA-P, ESAP</td><td>Errored Seconds type A – Path, ESA-P register.</td></tr> <tr> <td>ESB-P, ESBP</td><td>Errored Seconds type B – Path, ESB-P register.</td></tr> <tr> <td>FC-P, FCP</td><td>Failure Counts – Path, FC-P register.</td></tr> <tr> <td>SES-P, SESP</td><td>Severely Errored Seconds – Path, SES-P register.</td></tr> <tr> <td>UAS-P, UASP</td><td>Unavailable Seconds – Path, UAS-P register.</td></tr> </table>	ALL	All monitored parameter PM registers.	ALS-P, ALSP	Alarm Indication Signal/Loss of Pointer – Path, ALS-P register.	CV-P, CVP	Coding Violations – Path, CV-P register.	ES-P, ESP	Errored Seconds – Path, ES-P register.	ESA-P, ESAP	Errored Seconds type A – Path, ESA-P register.	ESB-P, ESBP	Errored Seconds type B – Path, ESB-P register.	FC-P, FCP	Failure Counts – Path, FC-P register.	SES-P, SESP	Severely Errored Seconds – Path, SES-P register.	UAS-P, UASP	Unavailable Seconds – Path, UAS-P register.
ALL	All monitored parameter PM registers.																		
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CV-P, CVP	Coding Violations – Path, CV-P register.																		
ES-P, ESP	Errored Seconds – Path, ES-P register.																		
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ESB-P, ESBP	Errored Seconds type B – Path, ESB-P register.																		
FC-P, FCP	Failure Counts – Path, FC-P register.																		
SES-P, SESP	Severely Errored Seconds – Path, SES-P register.																		
UAS-P, UASP	Unavailable Seconds – Path, UAS-P register.																		
MONLEV	{LEVEL-DIRECTION:{0-4294967295} – {DN, DNORNCMPL, UP, UPORNCMPL} }																		
	Default: {1-UP} Addressing: None Description: Monitoring Level, specifies the discriminating level of PM parameter event counts to be reported for the specified monitored parameter (MONTYPE). The format of MONLEV is <LEVEL> – <DIRECTION>. Values are:																		
	<table> <tr> <td>{0-4294967295} – DN</td><td><LEVEL> – Down, Only PM data for the specified MONTYPE that is less-than or equal-to (<) the value of <LEVEL> is reported.</td></tr> <tr> <td>{0-4294967295} – DNORNCMPL</td><td><LEVEL> – Down Or Not Complete, Only PM data for the specified MONTYPE that is < the value of <LEVEL> or that does not have a VLDTY flag of CMPL (i.e., the PM data is > the value of <LEVEL> and has a VLDTY flag of {ADJ, LONG, NA, OFF, PRTL}) is reported.</td></tr> <tr> <td>{0-4294967295} – UP</td><td><LEVEL> – Up, Only PM data for the specified MONTYPE that is greater-than or equal-to (>) the value of <LEVEL> is reported.</td></tr> <tr> <td>{0-4294967295} – UPORNCMPL</td><td><LEVEL> – Up Or Not Complete, Only PM data for the specified MONTYPE that is > the value of <LEVEL> or that does not have a VLDTY flag of CMPL (i.e., the PM data is < the value of <LEVEL> and has a VLDTY flag of {ADJ, LONG, NA, OFF, PRTL}) is reported.</td></tr> </table>	{0-4294967295} – DN	<LEVEL> – Down, Only PM data for the specified MONTYPE that is less-than or equal-to (<) the value of <LEVEL> is reported.	{0-4294967295} – DNORNCMPL	<LEVEL> – Down Or Not Complete, Only PM data for the specified MONTYPE that is < the value of <LEVEL> or that does not have a VLDTY flag of CMPL (i.e., the PM data is > the value of <LEVEL> and has a VLDTY flag of {ADJ, LONG, NA, OFF, PRTL}) is reported.	{0-4294967295} – UP	<LEVEL> – Up, Only PM data for the specified MONTYPE that is greater-than or equal-to (>) the value of <LEVEL> is reported.	{0-4294967295} – UPORNCMPL	<LEVEL> – Up Or Not Complete, Only PM data for the specified MONTYPE that is > the value of <LEVEL> or that does not have a VLDTY flag of CMPL (i.e., the PM data is < the value of <LEVEL> and has a VLDTY flag of {ADJ, LONG, NA, OFF, PRTL}) is reported.										
{0-4294967295} – DN	<LEVEL> – Down, Only PM data for the specified MONTYPE that is less-than or equal-to (<) the value of <LEVEL> is reported.																		
{0-4294967295} – DNORNCMPL	<LEVEL> – Down Or Not Complete, Only PM data for the specified MONTYPE that is < the value of <LEVEL> or that does not have a VLDTY flag of CMPL (i.e., the PM data is > the value of <LEVEL> and has a VLDTY flag of {ADJ, LONG, NA, OFF, PRTL}) is reported.																		
{0-4294967295} – UP	<LEVEL> – Up, Only PM data for the specified MONTYPE that is greater-than or equal-to (>) the value of <LEVEL> is reported.																		
{0-4294967295} – UPORNCMPL	<LEVEL> – Up Or Not Complete, Only PM data for the specified MONTYPE that is > the value of <LEVEL> or that does not have a VLDTY flag of CMPL (i.e., the PM data is < the value of <LEVEL> and has a VLDTY flag of {ADJ, LONG, NA, OFF, PRTL}) is reported.																		
LOCN	{FEND, NEND}																		
	Default: < All applicable locations for the selected monitored parameters > Addressing: None Description: Location, specifies whether PM registers for near-end or far-end PM monitoring are to be retrieved. Values are:																		
	<table> <tr> <td>FEND</td><td>Far-End</td></tr> <tr> <td>NEND</td><td>Near-End</td></tr> </table>	FEND	Far-End	NEND	Near-End														
FEND	Far-End																		
NEND	Near-End																		

DIRN	{NA, RCV, TRMT}	
	Default:	< All applicable directions >
	Addressing:	None
	Description:	Direction, specifies the direction of the signal being monitored. The value for DIRN is verified, but does not affect the function of the RTRV-PM-STs1 command.
	NA	Not Applicable
	RCV	Receive side
	TRMT	Transmit direction
TMPER	{15-MIN, 1-DAY, BOTH}	
	Default:	{15-MIN}
	Addressing:	None
	Description:	Time Period, specifies whether PM data for the 15-minute and/or the daily (24 hour) PM collection register for the specified parameter is to be retrieved. Values are:
	15-MIN	15-Minute PM collection register
	1-DAY	1-Day (24 hour) PM collection register
	BOTH	Both 15-Minute and 1-Day PM collection registers
	Restrictions:	RTRV-PM-STs1 is denied if TMPER of 15-MIN is entered and the date and time specified by MONDAT and MONTM is not within the previous eight (8) hours of the current time. RTRV-PM-STs1 is denied if TMPER of {1-DAY, BOTH} is entered and the date specified by MONDAT is not within the previous seven (7) days of the current time. RTRV-PM-STs1 is denied if TMPER of 1-DAY and NUM15MIN of {1-32, ALL} (i.e., any value) is entered. RTRV-PM-STs1 is denied if TMPER of 15-MIN and NUM1DAY of {1-7, ALL} (i.e., any value) is entered.
MONDAT	{MONTH-DAY:{01-12} - {01-31} }	
	Default:	< Current date >
	Addressing:	None
	Description:	Monitor Date, specifies the (starting) date of the PM collection period for which PM data is to be retrieved. The format of MONDAT is <MONTH_OF_YEAR> - <DAY_OF_MONTH>.
	Restrictions:	RTRV-PM-STs1 is denied if TMPER of 15-MIN is entered and the date and time specified by MONDAT and MONTM is not within the previous eight (8) hours of the current time. RTRV-PM-STs1 is denied if TMPER of {1-DAY, BOTH} is entered and the date specified by MONDAT is not within the previous seven (7) days of the current time.

MONTM	{ HOUR – MINUTE :{00–23} – {00–59} }
	Default: < Current time > Addressing: None Description: Monitor Time, if TMPER of {15–MIN, BOTH} is entered, specifies the (starting) time of the PM collection period for which PM data is to be retrieved. If TMPER of 1–DAY is entered, the value of MONTM is ignored (i.e., an entered value is validated, but does not affect the command execution). The format of MONTM is < HOUR_OF_DAY > – < MINUTE_OF_HOUR >, where: < HOUR_OF_DAY > is in 24 hour time. < MINUTE_OF_HOUR > set to {0–14} specifies the first 15–minute period within the < HOUR_OF_DAY > value. < MINUTE_OF_HOUR > set to {15–29} specifies the second 15–minute period within the < HOUR_OF_DAY > value. < MINUTE_OF_HOUR > set to {30–44} specifies the third 15–minute period within the < HOUR_OF_DAY > value. < MINUTE_OF_HOUR > set to {45–59} specifies the fourth 15–minute period within the < HOUR_OF_DAY > value. Restrictions: RTRV–PM–STS1 is denied if TMPER of 15–MIN is entered and the date and time specified by MONDAT and MONTM is not within the previous eight (8) hours of the current time.
NUM15MIN	{1–32, ALL, <NoVal>}
	Default: <NoVal> Addressing: None Description: Number of 15–Minute Historical Registers, specifies the number of 15–Minute historical PM data registers to retrieve in addition to that specified by MONDAT and MONTM. Values are: 1–32 1–32 additional historical 15–Minute PM data registers. ALL All additional historical 15–Minute PM data registers. <NoVal> No Value, no additional historical 15–Minute PM data registers. Restrictions: RTRV–PM–STS1 is denied if NUM15MIN of {1–32, ALL} (i.e., any value) and TMPER of 1–DAY is entered.
NUM1DAY	{1–7, ALL, <NoVal>}
	Default: <NoVal> Addressing: None Description: Number of 1–Day Historical Registers, specifies the number of 1–Day historical PM data registers to retrieve in addition to that specified by MONDAT and MONTM. Values are: 1–7 1–7 additional historical 1–Day PM data registers. ALL All additional historical 1–Day PM data registers. <NoVal> No Value, no additional historical 1–Day PM data registers. Restrictions: RTRV–PM–STS1 is denied if NUM1DAY of {1–7, ALL} (i.e., any value) and TMPER of 15–MIN is entered.

SUCCESSFUL RESPONSE FORMAT

```

    <SID> <YY-MM-DD> <HH:MM:SS>
M  <CTAG> COMPLD
    ["<AID>,STS1:[<NENDALM>],[<FENDALM>],<PST>,<SST>"]
    "<AID>,STS1:<MONTYPE>,<MONVAL>,<VLDTY>,<LOCN>,<DIRN>,<TMPER>,"
    <MONDAT>,<MONTM>"
    [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

Note: The first line of parsable output is provided only when a value for NUM15MIN is entered. The second line of parsable output is provided for each PM data register reported.

OUTPUT PARAMETERS

AID	STS1_AID:	
	{EC1STS1-{1-3840}}	(EC1STS1-EC1/STS1#)
	{OC3STS1-{1-2240}-{1-3}}	(OC3STS1-OC3#-STS1#)
	{OC12STS1-{1-560}-{1-4}-{1-3}}	(OC12STS1-OC12#-STM1#-STS1#)
	STS1 AID, identifies the STS-1 port.	
FENDALM	{RFI}	
	Far End STS-1 Alarm Condition, identifies any far-end STS-1 alarm conditions that exist on the STS-1. A FENDALM value is only reported if a FENDALM condition exists. Value is:	
	RFI	Remote Failure Indication detected
NENDALM	{AIS, IDLE, IDMISMATCH LOP, SLMF}	
	Near End STS-1 Alarm Condition, identifies any near-end STS-1 alarm conditions that exist on the STS-1. A NENDALM value is reported only if a NENDALM condition exists. Values are:	
	AIS	Alarm Indication Signal, AIS detected
	IDLE	Idle, incoming idle detected
	IDMISMATCH	Path ID (PID) Mismatch detected
	LOP	Loss Of Pointer detected
	SLMF	Signal Label Match Failure detected
PST	{IS, OOS-AU, OOS-AUMA, OOS-MA}	
	Primary State, indicates the current primary state of the STS-1. Refer to Appendix G, State Transitions for a definition of state names and description of state transitions. Values are:	
	IS	In Service
	OOS-AU	Out Of Service-Autonomous
	OOS-AUMA	Out Of Service-Autonomous and Management
	OOS-MA	Out Of Service-Management
SST	{ACT, BUSY, DSBLD, FAF, LPBK, MT, TRM, UAS}	
	Secondary State, indicates any secondary states associated with the STS-1. SST values may be shown in the output combined with an ampersand (&) if more than one value applies to the STS-1 at the time of the RTRV-PM-STS1. Refer to Appendix G, State Transitions for a definition of state names and description of state transitions. Values are:	
	ACT	Active, i.e., Cross-connected.
	BUSY	Busy, i.e., 2-way cross-connected.
	DSBLD	Disabled
	FAF	Facility failure
	LPBK	Loopback
	MT	Maintenance
	PMI	Performance Monitoring Inhibited
	TRM	Terminated.
	UAS	Unassigned

MONTYPE	<p>NEAR_END_PARAMETERS:{ALS-P, CVP, ESP, ESA-P, ESB-P, FC-P, SESP, UASP},</p> <p>FAR_END_PARAMETERS:{ALS-P, CVP, ESP, ESA-P, ESB-P, FC-P, SESP, UASP}</p> <p>Monitored Parameter Type, identifies the monitored parameter. Refer to Appendix F, Monitored PM Parameters for a list of all monitored PM parameters. Values are:</p> <table> <tr> <td>ALS-P</td><td>Alarm Indication Signal/Loss of Pointer – Path, ALS-P register.</td></tr> <tr> <td>CVP</td><td>Coding Violations – Path, CV-P register.</td></tr> <tr> <td>ESP</td><td>Errored Seconds – Path, ES-P register.</td></tr> <tr> <td>ESA-P</td><td>Errored Seconds type A – Path, ESA-P register.</td></tr> <tr> <td>ESB-P</td><td>Errored Seconds type B – Path, ESB-P register.</td></tr> <tr> <td>FC-P</td><td>Failure Counts – Path, FC-P register.</td></tr> <tr> <td>SESP</td><td>Severely Errored Seconds – Path, SES-P register.</td></tr> <tr> <td>UASP</td><td>Unavailable Seconds – Path, UAS-P register.</td></tr> </table>	ALS-P	Alarm Indication Signal/Loss of Pointer – Path, ALS-P register.	CVP	Coding Violations – Path, CV-P register.	ESP	Errored Seconds – Path, ES-P register.	ESA-P	Errored Seconds type A – Path, ESA-P register.	ESB-P	Errored Seconds type B – Path, ESB-P register.	FC-P	Failure Counts – Path, FC-P register.	SESP	Severely Errored Seconds – Path, SES-P register.	UASP	Unavailable Seconds – Path, UAS-P register.
ALS-P	Alarm Indication Signal/Loss of Pointer – Path, ALS-P register.																
CVP	Coding Violations – Path, CV-P register.																
ESP	Errored Seconds – Path, ES-P register.																
ESA-P	Errored Seconds type A – Path, ESA-P register.																
ESB-P	Errored Seconds type B – Path, ESB-P register.																
FC-P	Failure Counts – Path, FC-P register.																
SESP	Severely Errored Seconds – Path, SES-P register.																
UASP	Unavailable Seconds – Path, UAS-P register.																
MONVAL	<p>{0-4294967295, NA}</p> <p>Monitored Parameter Value, indicates the measured value of the indicated MONTYPE being reported. Values are:</p> <table> <tr> <td>0-4294967295</td><td>Measured Value of the Monitored Parameter, value reported if VLDTY is not {NA}.</td></tr> <tr> <td>NA</td><td>Not Available, value reported if VLDTY is {NA}.</td></tr> </table>	0-4294967295	Measured Value of the Monitored Parameter, value reported if VLDTY is not {NA}.	NA	Not Available, value reported if VLDTY is {NA}.												
0-4294967295	Measured Value of the Monitored Parameter, value reported if VLDTY is not {NA}.																
NA	Not Available, value reported if VLDTY is {NA}.																
VLDTY	<p>{ADJ, COMPL, LONG, NA, OFF, PRTL}</p> <p>Validity, indicates whether the PM data being retrieved for the specified time period was accumulated over the entire time period or some portion thereof. Values are:</p> <table> <tr> <td>ADJ</td><td>Adjusted, the data was manually adjusted or initialized (via INIT-REG-STS1).</td></tr> <tr> <td>COMPL</td><td>Complete, the data was accumulated over the entire time period.</td></tr> <tr> <td>LONG</td><td>Longer, the data was accumulated over a greater period of time than the indicated time period.</td></tr> <tr> <td>NA</td><td>Not Available, the data is not available.</td></tr> <tr> <td>OFF</td><td>Off, PM data collection for the entire time period was disabled (via SET-PMODE-STS1).</td></tr> <tr> <td>PRTL</td><td>Partial, the data was accumulated over some portion of the time period, but not the entire time period.</td></tr> </table>	ADJ	Adjusted, the data was manually adjusted or initialized (via INIT-REG-STS1).	COMPL	Complete, the data was accumulated over the entire time period.	LONG	Longer, the data was accumulated over a greater period of time than the indicated time period.	NA	Not Available, the data is not available.	OFF	Off, PM data collection for the entire time period was disabled (via SET-PMODE-STS1).	PRTL	Partial, the data was accumulated over some portion of the time period, but not the entire time period.				
ADJ	Adjusted, the data was manually adjusted or initialized (via INIT-REG-STS1).																
COMPL	Complete, the data was accumulated over the entire time period.																
LONG	Longer, the data was accumulated over a greater period of time than the indicated time period.																
NA	Not Available, the data is not available.																
OFF	Off, PM data collection for the entire time period was disabled (via SET-PMODE-STS1).																
PRTL	Partial, the data was accumulated over some portion of the time period, but not the entire time period.																
LOCN	<p>{FEND, NEND}</p> <p>Location, indicates whether a near-end or far-end monitored parameter is being reported. Values are:</p> <table> <tr> <td>FEND</td><td>Far-End</td></tr> <tr> <td>NEND</td><td>Near-End</td></tr> </table>	FEND	Far-End	NEND	Near-End												
FEND	Far-End																
NEND	Near-End																
DIRN	<p>{NA, RCV}</p> <p>Direction, identifies the direction of the signal being monitored. Values are:</p> <table> <tr> <td>NA</td><td>Not Applicable, value reported for LOCN value of FEND.</td></tr> <tr> <td>RCV</td><td>Receive side, value reported for LOCN value of NEND.</td></tr> </table>	NA	Not Applicable, value reported for LOCN value of FEND.	RCV	Receive side, value reported for LOCN value of NEND.												
NA	Not Applicable, value reported for LOCN value of FEND.																
RCV	Receive side, value reported for LOCN value of NEND.																
TMPER	<p>{15-MIN, 1-DAY}</p> <p>Time Period, identifies the accumulation time period for the indicated monitored parameter. Values are:</p> <table> <tr> <td>15-MIN</td><td>15-Minute PM collection period</td></tr> <tr> <td>1-DAY</td><td>1-Day (24 hour) PM collection period</td></tr> </table>	15-MIN	15-Minute PM collection period	1-DAY	1-Day (24 hour) PM collection period												
15-MIN	15-Minute PM collection period																
1-DAY	1-Day (24 hour) PM collection period																
MONDAT	<p>{MONTH-DAY:{01-12} – {01-31} }</p> <p>Monitor Date, identifies the date when the PM collection period began. The format of MONDAT is <MONTH_OF_YEAR> – <DAY_OF_MONTH>.</p>																
MONTM	<p>{HOUR-MINUTE:{00-23} – {00-59} }</p> <p>Monitor Time, identifies the time of day when the PM collection period began. The format of MONTM is <HOUR_OF_DAY> – <MINUTE_OF_HOUR>.</p>																

UNSUCCESSFUL RESPONSE FORMAT

```

    <SID> <YY-MM-DD> <HH:MM:SS>
M  <CTAG> DENY
    <ERROR CODE>
    [/* <Informational Error Description Text> */]
    [/* <Expanded Error Code Description> */]
    [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent
	/* Value for num15min is not consistent with value for time period */
	/* Value for num1day is not consistent with value for time period */
IDNV	Input, Data Not Valid
	/* Invalid location in request message. */
	/* Invalid montype in request message. */
	/* Invalid monlev in request message. */
	/* Invalid direction in request message. */
	/* Invalid time period in request message. */
	/* Invalid date in request message. */
	/* Invalid num15min value in request message. */
	/* Invalid num1day value in request message. */
	/* Invalid day for the requested month. */
	/* Invalid time in request message. */
	/* Input date/time is not within the valid range. */
IIAC	Input, Invalid ACcess identifier
	/* AID not in Partition. */
	/* Invalid AID entered. */
IIPG	Input, Invalid Parameter Grouping
	/* Invalid location for requested montype. */
SDBE	Status, internal Data Base Error
	/* Error in reading TP database record. */

SROF Status, Requested Operation Failed

```
/* Timeout waiting for response from <AID>. */
/* Invalid time period is detected, TMPER = <TIME PERIOD>. */
/* Unable to determine the global TP number, TPTYPE=<TP TYPE>, TPNum=<TP
NUMBER>. */
/* Unable to allocate memory for user data. */
/* rpt_file error – <ERRNO>, status = <STATUS> */
/* Cannot open <FILENAME> */
/* nrl_rpt_print error – no transaction, msgtype = <MSGTYPE> */
/* rpt_print error – <ERRNO>, status = <STATUS> */
/* Unable to determine the history file name, TPType=<TP TYPE>, TMPER=<TIME PE-
RIOD>, FileIdx=<FILE INDEX>. */
/* Failed to send rtrv pm msg to SPB/IPU=<SPB/IPU ADDRESS>. */
/* Failed to retrieve PM historical data. */
/* Unable to determine supporting facility entity. */
/* Error occurred while provisioning equipment. */
/* Unexpected response message received from <CARDNAME>. */
/* Failed to convert tp num to AID string. */
/* Unable to determine facility type. */
/* Unable to determine alarms. */
/* Failed to get PST and SST State. */
```

EXAMPLES

In the following example, the 1-Day historical PM data that was accumulated for STS-1 port EC1STS1-57 on January 15th for all monitored parameters with a value greater than or equal to a count of 12 is retrieved.

```
RTRV-PM-STS1::EC1STS1-57::ALL,12-UP,,1-DAY,1-15;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71042. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P71042 COMPLD
"EC1STS1-57,STS1:FC-P,14,CMPL,NEND,RCV,1-DAY,01-15,00-00"
"EC1STS1-57,STS1:UASP,15,CMPL,NEND,RCV,1-DAY,01-15,00-00"
/* RTRV-PM-STS1::EC1STS1-57::ALL,12-UP,,1-DAY,1-15 [P71042] (1) */
;
```

In the following example, the current 15-Minute AIS/LOP (ALS-P) PM data for STS-1 port EC1STS1-97 is retrieved.

```
RTRV-PM-STS1::EC1STS1-97::ALSP;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of P71048. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P71048 COMPLD
"EC1STS1-97,STS1:ALS-P,1,PRTL,NEND,RCV,15-MIN,01-18,10-30"
"EC1STS1-97,STS1:ALS-P,0,PRTL,FEND,RCV,15-MIN,01-18,10-30"
/* RTRV-PM-STS1::EC1STS1-97::ALSP [P71048] (2) */
;
```


In the following example, the 15-minute historical near-end errored seconds, path (ES-P) PM data that was accumulated for STS-1 port EC1STS1-383 on January 18th for the collection period beginning at 8:15 am is retrieved.

```
RTRV-PM-STs1::EC1STS1-383:::ESP,0-UP,NEND,,15-MIN,1-18,8-20;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of P71049. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M P71049 COMPLD  
"EC1STS1-383,STS1:ESP,0,CMPL,NEND,RCV,15-MIN,01-18,08-15"  
/* RTRV-PM-STs1::EC1STS1-383:::ESP,0-UP,NEND,,15-MIN,1-18,8-20  
[P71049] (2) */  
;
```

RELATED COMMANDS

```
ENT-STs1  
INIT-REG-STs1  
RTRV-DFLTTH-STs1  
RTRV-PMATTR-ALL  
RTRV-PMODE-STs1  
RTRV-TH-STs1  
SET-DFLTTH-STs1  
SET-PMATTR-ALL  
SET-PMODE-STs1  
SET-TH-STs1
```

RELATED AUTONOMOUS RESPONSES

```
REPT^EVT^STs1  
REPT^PM^STs1
```


COMMAND CODE: **RTRV-PM-STS3C**
COMMAND NAME: **RETRIEVE PERFORMANCE
MONITORING STS-3C**

PURPOSE

The RTRV-PM-STS3C command retrieves the current and/or historical 15-Minute and/or 1-Day PM data corresponding to the specified PM data collection register(s) for the specified STS-3C port(s).

For each monitored parameter, the current and/or up to thirty-two (32) 15-Minute historical (up to the most recent previous 8 hours of 15-Minute PM data) PM registers, or the current and/or up to seven (7) 1-Day historical PM registers, or a combination of both 15-Minute and 1-Day PM registers can be retrieved.

If the SET-PMODE-STS3C command is set to PMSTATE=OFF for an entire 15-minute period and no PM occurs on that port, and if the PMSTATE is set to ON within several minutes after the 15-minute period, then the retrieved VLDTY value (via RTRV-PM-STS3C) for the previous 15-minute period *may not* be displayed as OFF.

The successful response for a RTRV-PM-STS3C command contains the following lines of parsable output data for each STS3C AID specified, in ascending order by STS3C AID:

- If a value for NUM15MIN is entered, one line of parsable output data identifying any existing alarms and the current state of the STS3C,
- A line of parsable output data for each PM parameter for each PM collection period being reported, in ascending order by PM collection period. No output PM data is provided if the port is not provisioned. No output PM data is provided if the date and time specified exceed the available collection periods (i.e., exceeds 8 hours for 15-Minute PM registers or 7 days for 1-Day PM registers).
- No line of parsable output data is provided if the specified STS3C is embedded within a protection OC3 or OC12.

A RTRV-PM-STS3C command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-PM-STS3C: [TID] :AID: [CTAG] :: [MONTYPE] , [MONLEV] , [LOCN] , [DIRN] , [TMPER] ,
[MONDAT] , [MONTM] , [NUM15MIN] , [NUM1DAY] ;

INPUT PARAMETERS

TID	< 1–20 VALID TID CHARACTERS >		
	Default:	<SID>	
	Addressing:	None	
	Description:	Target Identifier, specifies the network node TID for the command.	
AID	STS3C_AID:		
	{OC3STS3C–{1–2240}}	(OC3STS3C–OC3#/STS3C#)	
	{OC12STS3C–{1–560}–{1–4}}	(OC12STS3C–OC12#–STM1/STS3C#)	
	Default:	Entry Required	
	Addressing:	&&–ranging and &–grouping	
	Description:	STS3C AID, identifies the STS–3C port.	
CTAG	< 1–6 VALID CTAG CHARACTERS >		
	Default:	< System assigned CTAG value >	
	Addressing:	None	
	Description:	Correlation Tag, associates input command with its output responses.	

MONTYPE	{ALL}, NEAR_END_PARAMETERS:{ALS-P, ALSP, CV-P, CVP, ES-P, ESP, ESA-P, ESAP, ESB-P, ESBP, FC-P, FCP, SES-P, SESP, UAS-P, UASP}, FAR_END_PARAMETERS:{ALS-P, ALSP, CV-P, CVP, ES-P, ESP, ESA-P, ESAP, ESB-P, ESBP, FC-P, FCP, SES-P, SESP, UAS-P, UASP}																	
	Default: {ALL} Addressing: None Description: Monitored Parameter Type, identifies the type of monitored parameter whose PM register is to be initialized. A parameter may be specified by more than one value, e.g., parameter values may be entered with or without the dash (-). Refer to Appendix F, Monitored PM Parameters for a list of all monitored PM parameters. Values are: <table> <tr><td>ALL</td><td>All, all monitored parameter PM registers.</td></tr> <tr><td>ALS-P, ALSP</td><td>Alarm Indication Signal/Loss of Pointer – Path, ALS-P register.</td></tr> <tr><td>CV-P, CVP</td><td>Coding Violations – Path, CV-P register.</td></tr> <tr><td>ES-P, ESP</td><td>Errored Seconds – Path, ES-P register.</td></tr> <tr><td>ESA-P, ESAP</td><td>Errored Seconds type A – Path, ESA-P register.</td></tr> <tr><td>ESB-P, ESBP</td><td>Errored Seconds type B – Path, ESB-P register.</td></tr> <tr><td>FC-P, FCP</td><td>Failure Counts – Path, FC-P register.</td></tr> <tr><td>SES-P, SESP</td><td>Severely Errored Seconds – Path, SES-P register.</td></tr> <tr><td>UAS-P, UASP</td><td>Unavailable Seconds – Path, UAS-P register.</td></tr> </table>	ALL	All, all monitored parameter PM registers.	ALS-P, ALSP	Alarm Indication Signal/Loss of Pointer – Path, ALS-P register.	CV-P, CVP	Coding Violations – Path, CV-P register.	ES-P, ESP	Errored Seconds – Path, ES-P register.	ESA-P, ESAP	Errored Seconds type A – Path, ESA-P register.	ESB-P, ESBP	Errored Seconds type B – Path, ESB-P register.	FC-P, FCP	Failure Counts – Path, FC-P register.	SES-P, SESP	Severely Errored Seconds – Path, SES-P register.	UAS-P, UASP
ALL	All, all monitored parameter PM registers.																	
ALS-P, ALSP	Alarm Indication Signal/Loss of Pointer – Path, ALS-P register.																	
CV-P, CVP	Coding Violations – Path, CV-P register.																	
ES-P, ESP	Errored Seconds – Path, ES-P register.																	
ESA-P, ESAP	Errored Seconds type A – Path, ESA-P register.																	
ESB-P, ESBP	Errored Seconds type B – Path, ESB-P register.																	
FC-P, FCP	Failure Counts – Path, FC-P register.																	
SES-P, SESP	Severely Errored Seconds – Path, SES-P register.																	
UAS-P, UASP	Unavailable Seconds – Path, UAS-P register.																	
MONLEV	{LEVEL-DIRECTION:{0-4294967295} – {DN, DNORNCMPL, UP, UPORNCMPL} }																	
	Default: {1-UP} Addressing: None Description: Monitoring Level, specifies the discriminating level of PM parameter event counts to be reported for the specified monitored parameter (MONTYPE). The format of MONLEV is <LEVEL> – <DIRECTION>. Values are: <table> <tr> <td>{0-4294967295} – DN</td> <td><LEVEL> – Down, Only PM data for the specified MONTYPE that is less-than or equal-to (<) the value of <LEVEL> is reported.</td> </tr> <tr> <td>{0-4294967295} – DNORNCMPL</td> <td><LEVEL> – Down Or Not Complete, Only PM data for the specified MONTYPE that is < the value of <LEVEL> or that does not have a VLDTY flag of CMPL (i.e., the PM data is > the value of <LEVEL> and has a VLDTY flag of {ADJ, LONG, NA, OFF, PRTL}) is reported.</td> </tr> <tr> <td>{0-4294967295} – UP</td> <td><LEVEL> – Up, Only PM data for the specified MONTYPE that is greater-than or equal-to (>) the value of <LEVEL> is reported.</td> </tr> <tr> <td>{0-4294967295} – UPORNCMPL</td> <td><LEVEL> – Up Or Not Complete, Only PM data for the specified MONTYPE that is > the value of <LEVEL> or that does not have a VLDTY flag of CMPL (i.e., the PM data is < the value of <LEVEL> and has a VLDTY flag of {ADJ, LONG, NA, OFF, PRTL}) is reported.</td> </tr> </table>	{0-4294967295} – DN	<LEVEL> – Down, Only PM data for the specified MONTYPE that is less-than or equal-to (<) the value of <LEVEL> is reported.	{0-4294967295} – DNORNCMPL	<LEVEL> – Down Or Not Complete, Only PM data for the specified MONTYPE that is < the value of <LEVEL> or that does not have a VLDTY flag of CMPL (i.e., the PM data is > the value of <LEVEL> and has a VLDTY flag of {ADJ, LONG, NA, OFF, PRTL}) is reported.	{0-4294967295} – UP	<LEVEL> – Up, Only PM data for the specified MONTYPE that is greater-than or equal-to (>) the value of <LEVEL> is reported.	{0-4294967295} – UPORNCMPL	<LEVEL> – Up Or Not Complete, Only PM data for the specified MONTYPE that is > the value of <LEVEL> or that does not have a VLDTY flag of CMPL (i.e., the PM data is < the value of <LEVEL> and has a VLDTY flag of {ADJ, LONG, NA, OFF, PRTL}) is reported.									
{0-4294967295} – DN	<LEVEL> – Down, Only PM data for the specified MONTYPE that is less-than or equal-to (<) the value of <LEVEL> is reported.																	
{0-4294967295} – DNORNCMPL	<LEVEL> – Down Or Not Complete, Only PM data for the specified MONTYPE that is < the value of <LEVEL> or that does not have a VLDTY flag of CMPL (i.e., the PM data is > the value of <LEVEL> and has a VLDTY flag of {ADJ, LONG, NA, OFF, PRTL}) is reported.																	
{0-4294967295} – UP	<LEVEL> – Up, Only PM data for the specified MONTYPE that is greater-than or equal-to (>) the value of <LEVEL> is reported.																	
{0-4294967295} – UPORNCMPL	<LEVEL> – Up Or Not Complete, Only PM data for the specified MONTYPE that is > the value of <LEVEL> or that does not have a VLDTY flag of CMPL (i.e., the PM data is < the value of <LEVEL> and has a VLDTY flag of {ADJ, LONG, NA, OFF, PRTL}) is reported.																	
LOCN	{FEND, NEND}																	
	Default: < All applicable locations for the selected monitored parameters > Addressing: None Description: Location, specifies whether PM registers for near-end or far-end PM monitoring are to be retrieved. Values are: <table> <tr><td>FEND</td><td>Far-End</td></tr> <tr><td>NEND</td><td>Near-End</td></tr> </table>	FEND	Far-End	NEND	Near-End													
FEND	Far-End																	
NEND	Near-End																	

DIRN	{NA, RCV, TRMT}
	Default: {NA}
	Addressing: None
	Description: Direction, specifies the direction of the signal being monitored. The value for DIRN is verified, but does not affect the function of the RTRV-PM-STS3C command.
	NA Not Applicable
	RCV Receive side
	TRMT Transmit direction
TMPER	{15-MIN, 1-DAY, BOTH}
	Default: {15-MIN}
	Addressing: None
	Description: Time Period, specifies whether PM data for the 15-minute and/or the daily (24 hour) PM collection register for the specified parameter is to be retrieved. Values are:
	15-MIN 15-Minute PM collection register
	1-DAY 1-Day (24 hour) PM collection register
	BOTH Both 15-Minute and 1-Day PM collection registers
	Restrictions: RTRV-PM-STS3C is denied if TMPER of 15-MIN is entered and the date and time specified by MONDAT and MONTM is not within the previous eight (8) hours of the current time. RTRV-PM-STS3C is denied if TMPER of {1-DAY, BOTH} is entered and the date specified by MONDAT is not within the previous seven (7) days of the current time. RTRV-PM-STS3C is denied if TMPER of 1-DAY and NUM15MIN of {1-32, ALL} (i.e., any value) is entered. RTRV-PM-STS3C is denied if TMPER of 15-MIN and NUM1DAY of {1-7, ALL} (i.e., any value) is entered.
MONDAT	{MONTH-DAY:{01-12} – {01-31} }
	Default: < Current date >
	Addressing: None
	Description: Monitor Date, specifies the (starting) date of the PM collection period for which PM data is to be retrieved. The format of MONDAT is <MONTH_OF_YEAR> – <DAY_OF_MONTH>.
	Restrictions: RTRV-PM-STS3C is denied if TMPER of 15-MIN is entered and the date and time specified by MONDAT and MONTM is not within the previous eight (8) hours of the current time. RTRV-PM-STS3C is denied if TMPER of {1-DAY, BOTH} is entered and the date specified by MONDAT is not within the previous seven (7) days of the current time.

MONTM	{ HO UR- MIN UTE:{00-23} – {00-59} }
	Default: < Current time > Addressing: None Description: Monitor Time, if TM PER of {15- MIN , BOTH } is entered, specifies the (starting) time of the PM collection period for which PM data is to be retrieved. If TM PER of 1- DAY is entered, the value of MONTM is ignored (i.e., an entered value is validated, but does not affect the command execution). The format of MONTM is < HO UR_ OF _ DAY > – < MIN UTE_ OF _ HO UR>, where: < HO UR_ OF _ DAY > is in 24 hour time. < MIN UTE_ OF _ HO UR> set to {0-14} specifies the first 15-minute period within the < HO UR_ OF _ DAY > value. < MIN UTE_ OF _ HO UR> set to {15-29} specifies the second 15-minute period within the < HO UR_ OF _ DAY > value. < MIN UTE_ OF _ HO UR> set to {30-44} specifies the third 15-minute period within the < HO UR_ OF _ DAY > value. < MIN UTE_ OF _ HO UR> set to {45-59} specifies the fourth 15-minute period within the < HO UR_ OF _ DAY > value.
	Restrictions: RTRV-PM-STS3C is denied if TM PER of 15- MIN is entered and the date and time specified by MONDAT and MONTM is not within the previous eight (8) hours of the current time.
NUM15MIN	{1-32, ALL , <NoVal>}
	Default: <NoVal> Addressing: None Description: Number of 15-Minute Historical Registers, specifies the number of 15-Minute historical PM data registers to retrieve in addition to that specified by MONDAT and MONTM . Values are: 1-32 1-32 additional historical 15-Minute PM data registers. ALL All additional historical 15-Minute PM data registers. <NoVal> No Value, no additional historical 15-Minute PM data registers.
	Restrictions: RTRV-PM-STS3C is denied if NUM15MIN of {1-32, ALL } (i.e., any value) and TM PER of 1- DAY is entered.
NUM1DAY	{1-7, ALL , <NoVal>}
	Default: <NoVal> Addressing: None Description: Number of 1-Day Historical Registers, specifies the number of 1-Day historical PM data registers to retrieve in addition to that specified by MONDAT and MONTM . Values are: 1-7 1-7 additional historical 1-Day PM data registers. ALL All additional historical 1-Day PM data registers. <NoVal> No Value, no additional historical 1-Day PM data registers.
	Restrictions: RTRV-PM-STS3C is denied if NUM1DAY of {1-7, ALL } (i.e., any value) and TM PER of 15- MIN is entered.

SUCCESSFUL RESPONSE FORMAT

```

    <SID> <YY-MM-DD> <HH:MM:SS>
M  <CTAG> COMPLD
[  "<AID>,STS3C:[<NENDALM>],[<FENDALM>],<PST>,<SST>" ]
    "<AID>,STS3C:<MONTYPE>,<MONVAL>,<VLDTY>,<LOCN>,<DIRN>,<TMPER>,<MONDAT>,<MONTM>"
    [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

Note: The first line of parsable output is provided only when a value for **NUM15MIN** is entered. The second line of parsable output is provided for each **PM** data register reported.

OUTPUT PARAMETERS

AID	<p>STS3C_AID:</p> <p>{OC3STS3C-{1-2240}} (OC3STS3C-OC3#/STS3C#)</p> <p>{OC12STS3C-{1-560}-{1-4}} (OC12STS3C-OC12#-STM1/STS3C#)</p> <p>STS3C AID, identifies the STS-3C port.</p>																		
FENDALM	<p>{RFI}</p> <p>Far End STS-3C Alarm Condition, identifies any far-end STS1 alarm conditions that exist on the STS-3C. A FENDALM value is only reported if a FENDALM condition exists.</p> <p>Value is:</p> <table> <tr> <td>RFI</td><td>Remote Failure Indication detected</td></tr> </table>	RFI	Remote Failure Indication detected																
RFI	Remote Failure Indication detected																		
NENDALM	<p>{AIS, IDLE, IDMISMATCH, LOP,SLMF}</p> <p>Near End STS-3C Alarm Condition, identifies any near-end STS-3C alarm conditions that exist on the STS-3C. A NENDALM value is reported only if a NENDALM condition exists. Values are:</p> <table> <tr> <td>AIS</td><td>Alarm Indication Signal, AIS detected</td></tr> <tr> <td>IDLE</td><td>Idle, incoming idle detected</td></tr> <tr> <td>IDMISMATCH</td><td>Path ID (PID) Mismatch detected</td></tr> <tr> <td>LOP</td><td>Loss Of Pointer detected</td></tr> <tr> <td>SLMF</td><td>Signal Label Match Failure detected</td></tr> </table>	AIS	Alarm Indication Signal, AIS detected	IDLE	Idle, incoming idle detected	IDMISMATCH	Path ID (PID) Mismatch detected	LOP	Loss Of Pointer detected	SLMF	Signal Label Match Failure detected								
AIS	Alarm Indication Signal, AIS detected																		
IDLE	Idle, incoming idle detected																		
IDMISMATCH	Path ID (PID) Mismatch detected																		
LOP	Loss Of Pointer detected																		
SLMF	Signal Label Match Failure detected																		
PST	<p>{IS, OOS-AU, OOS-AUMA, OOS-MA}</p> <p>Primary State, indicates the current primary state of the STS-3C. Refer to Appendix G, State Transitions for a definition of state names and description of state transitions. Values are:</p> <table> <tr> <td>IS</td><td>In Service</td></tr> <tr> <td>OOS-AU</td><td>Out Of Service-Autonomous</td></tr> <tr> <td>OOS-AUMA</td><td>Out Of Service-Autonomous and Management</td></tr> <tr> <td>OOS-MA</td><td>Out Of Service-Management</td></tr> </table>	IS	In Service	OOS-AU	Out Of Service-Autonomous	OOS-AUMA	Out Of Service-Autonomous and Management	OOS-MA	Out Of Service-Management										
IS	In Service																		
OOS-AU	Out Of Service-Autonomous																		
OOS-AUMA	Out Of Service-Autonomous and Management																		
OOS-MA	Out Of Service-Management																		
SST	<p>{ACT, BUSY, DSBLD, FAF, LPBK, MT, TRM, UAS}</p> <p>Secondary State, indicates any secondary states associated with the STS-3C. SST values may be shown in the output combined with an ampersand (&) if more than one value applies to the STS-3C at the time of the RTRV-PM-STS3C. Refer to Appendix G, State Transitions for a definition of state names and description of state transitions. Values are:</p> <table> <tr> <td>ACT</td><td>Active, i.e., Cross-connected.</td></tr> <tr> <td>BUSY</td><td>Busy, i.e., 2-way cross-connected.</td></tr> <tr> <td>DSBLD</td><td>Disabled</td></tr> <tr> <td>FAF</td><td>Facility failure</td></tr> <tr> <td>LPBK</td><td>Loopback</td></tr> <tr> <td>MT</td><td>Maintenance</td></tr> <tr> <td>PMI</td><td>Performance Monitoring Inhibited</td></tr> <tr> <td>TRM</td><td>Terminated.</td></tr> <tr> <td>UAS</td><td>Unassigned</td></tr> </table>	ACT	Active, i.e., Cross-connected.	BUSY	Busy, i.e., 2-way cross-connected.	DSBLD	Disabled	FAF	Facility failure	LPBK	Loopback	MT	Maintenance	PMI	Performance Monitoring Inhibited	TRM	Terminated.	UAS	Unassigned
ACT	Active, i.e., Cross-connected.																		
BUSY	Busy, i.e., 2-way cross-connected.																		
DSBLD	Disabled																		
FAF	Facility failure																		
LPBK	Loopback																		
MT	Maintenance																		
PMI	Performance Monitoring Inhibited																		
TRM	Terminated.																		
UAS	Unassigned																		

MONTYPE	<p>NEAR_END_PARAMETERS:{ALS-P, CVP, ESP, ESA-P, ESB-P, FC-P, SESP, UASP},</p> <p>FAR_END_PARAMETERS:{ALS-PFE, CV-PFE, ES-PFE, ESA-P, ESB-P, FC-PFE, SES-PFE, UAS-PFE}</p> <p>Monitored Parameter Type, identifies the monitored parameter. Refer to Appendix F, Monitored PM Parameters for a list of all monitored PM parameters. Values are:</p> <table> <tr> <td>ALS-P</td><td>Alarm Indication Signal/Loss of Pointer – Path, ALS-P register.</td></tr> <tr> <td>CVP</td><td>Coding Violations – Path, CV-P register.</td></tr> <tr> <td>ESP</td><td>Errored Seconds – Path, ES-P register.</td></tr> <tr> <td>ESA-P</td><td>Errored Seconds type A – Path, ESA-P register.</td></tr> <tr> <td>ESB-P</td><td>Errored Seconds type B – Path, ESB-P register.</td></tr> <tr> <td>FC-P</td><td>Failure Counts – Path, FC-P register.</td></tr> <tr> <td>SESP</td><td>Severely Errored Seconds – Path, SES-P register.</td></tr> <tr> <td>UASP</td><td>Unavailable Seconds – Path, UAS-P register.</td></tr> </table>	ALS-P	Alarm Indication Signal/Loss of Pointer – Path, ALS-P register.	CVP	Coding Violations – Path, CV-P register.	ESP	Errored Seconds – Path, ES-P register.	ESA-P	Errored Seconds type A – Path, ESA-P register.	ESB-P	Errored Seconds type B – Path, ESB-P register.	FC-P	Failure Counts – Path, FC-P register.	SESP	Severely Errored Seconds – Path, SES-P register.	UASP	Unavailable Seconds – Path, UAS-P register.
ALS-P	Alarm Indication Signal/Loss of Pointer – Path, ALS-P register.																
CVP	Coding Violations – Path, CV-P register.																
ESP	Errored Seconds – Path, ES-P register.																
ESA-P	Errored Seconds type A – Path, ESA-P register.																
ESB-P	Errored Seconds type B – Path, ESB-P register.																
FC-P	Failure Counts – Path, FC-P register.																
SESP	Severely Errored Seconds – Path, SES-P register.																
UASP	Unavailable Seconds – Path, UAS-P register.																
MONVAL	<p>{0-4294967295, NA}</p> <p>Monitored Parameter Value, indicates the measured value of the indicated MONTYPE being reported. Values are:</p> <table> <tr> <td>0-4294967295</td><td>Measured Value of the Monitored Parameter, value reported if VLDTY is not {NA}.</td></tr> <tr> <td>NA</td><td>Not Available, value reported if VLDTY is {NA}.</td></tr> </table>	0-4294967295	Measured Value of the Monitored Parameter, value reported if VLDTY is not {NA}.	NA	Not Available, value reported if VLDTY is {NA}.												
0-4294967295	Measured Value of the Monitored Parameter, value reported if VLDTY is not {NA}.																
NA	Not Available, value reported if VLDTY is {NA}.																
VLDTY	<p>{ADJ, COMPL, LONG, NA, OFF, PRTL}</p> <p>Validity, indicates whether the PM data being retrieved for the specified time period was accumulated over the entire time period or some portion thereof. Values are:</p> <table> <tr> <td>ADJ</td><td>Adjusted, the data was manually adjusted or initialized (via INIT-REG-STS3C).</td></tr> <tr> <td>COMPL</td><td>Complete, the data was accumulated over the entire time period.</td></tr> <tr> <td>LONG</td><td>Longer, the data was accumulated over a greater period of time than the indicated time period.</td></tr> <tr> <td>NA</td><td>Not Available, the data is not available.</td></tr> <tr> <td>OFF</td><td>Off, PM data collection for the entire time period was disabled (via SET-PMODE-STS3C).</td></tr> <tr> <td>PRTL</td><td>Partial, the data was accumulated over some portion of the time period, but not the entire time period.</td></tr> </table>	ADJ	Adjusted, the data was manually adjusted or initialized (via INIT-REG-STS3C).	COMPL	Complete, the data was accumulated over the entire time period.	LONG	Longer, the data was accumulated over a greater period of time than the indicated time period.	NA	Not Available, the data is not available.	OFF	Off, PM data collection for the entire time period was disabled (via SET-PMODE-STS3C).	PRTL	Partial, the data was accumulated over some portion of the time period, but not the entire time period.				
ADJ	Adjusted, the data was manually adjusted or initialized (via INIT-REG-STS3C).																
COMPL	Complete, the data was accumulated over the entire time period.																
LONG	Longer, the data was accumulated over a greater period of time than the indicated time period.																
NA	Not Available, the data is not available.																
OFF	Off, PM data collection for the entire time period was disabled (via SET-PMODE-STS3C).																
PRTL	Partial, the data was accumulated over some portion of the time period, but not the entire time period.																
LOCN	<p>{FEND, NEND}</p> <p>Location, indicates whether a near-end or far-end monitored parameter is being reported. Values are:</p> <table> <tr> <td>FEND</td><td>Far-End</td></tr> <tr> <td>NEND</td><td>Near-End</td></tr> </table>	FEND	Far-End	NEND	Near-End												
FEND	Far-End																
NEND	Near-End																
DIRN	<p>{NA, RCV}</p> <p>Direction, identifies the direction of the signal being monitored. Values are:</p> <table> <tr> <td>NA</td><td>Not Applicable, value reported for LOCN value of FEND.</td></tr> <tr> <td>RCV</td><td>Receive side, value reported for LOCN value of NEND.</td></tr> </table>	NA	Not Applicable, value reported for LOCN value of FEND.	RCV	Receive side, value reported for LOCN value of NEND.												
NA	Not Applicable, value reported for LOCN value of FEND.																
RCV	Receive side, value reported for LOCN value of NEND.																
TMPER	<p>{15-MIN, 1-DAY}</p> <p>Time Period, identifies the accumulation time period for the indicated monitored parameter. Values are:</p> <table> <tr> <td>15-MIN</td><td>15-Minute PM collection period</td></tr> <tr> <td>1-DAY</td><td>1-Day (24 hour) PM collection period</td></tr> </table>	15-MIN	15-Minute PM collection period	1-DAY	1-Day (24 hour) PM collection period												
15-MIN	15-Minute PM collection period																
1-DAY	1-Day (24 hour) PM collection period																
MONDAT	<p>{MONTH-DAY:{01-12} – {01-31} }</p> <p>Monitor Date, identifies the date when the PM collection period began. The format of MONDAT is <MONTH_OF_YEAR> – <DAY_OF_MONTH>.</p>																

MONTM {**HOUR-MINUTE**:{00-23} – {00-59} }
Monitor Time, identifies the time of day when the PM collection period began. The format of MONTM is <HOUR_OF_DAY> – <MINUTE_OF_HOUR>.

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent /* Value for num15min is not consistent with value for time period */ /* Value for num1day is not consistent with value for time period */
IDNV	Input, Data Not Valid /* Invalid location in request message. */ /* Invalid montype in request message. */ /* Invalid monlev in request message. */ /* Invalid direction in request message. */ /* Invalid time period in request message. */ /* Invalid date in request message. */ /* Invalid num15min value in request message. */ /* Invalid num1day value in request message. */ /* Invalid day for the requested month. */ /* Invalid time in request message. */ /* Input date/time is not within the valid range. */
IIAC	Input, Invalid ACcess identifier /* AID not in Partition. */ /* Invalid AID entered. */
IIPG	Input, Invalid Parameter Grouping /* Invalid location for requested montype. */
SDBE	Status, internal Data Base Error /* Error in reading TP database record. */

SROF Status, Requested Operation Failed

```
/* Timeout waiting for response from <AID>. */
/* Invalid time period is detected, TMPEr = <TIME PERIOD>. */
/* Unable to determine the global TP number, TPType=<TP TYPE>, TPNum=<TP
NUMBER>. */
/* Unable to allocate memory for user data. */
/* rpt_file error – <ERRNO>, status = <STATUS> */
/* Cannot open <FILENAME> */
/* nrl_rpt_print error – no transaction, msgtype = <MSGTYPE> */
/* rpt_print error – <ERRNO>, status = <STATUS> */
/* Unable to determine the history file name, TPType=<TP TYPE>, TMPEr=<TIME PE-
RIOD>, FileIdx=<FILE INDEX>. */
/* Failed to send rtrv pm msg to SPB/IPU=<SPB/IPU ADDRESS>. */
/* Failed to retrieve PM historical data. */
/* Unable to determine supporting facility entity. */
/* Error occurred while provisioning equipment. */
/* Unexpected response message received from <CARDNAME>. */
/* Failed to convert tp num to AID string. */
/* Unable to determine facility type. */
/* Unable to determine alarms. */
/* Failed to get PST and SST State. */
```

EXAMPLES

In the following example, the 1-Day historical PM data that was accumulated for STS3C port OC3STS3C-9 on January 15th for all monitored parameters with a value greater than or equal to a count of 12 is retrieved.

```
RTRV-PM-STS3C: :OC3STS3C-9: :ALL,12-UP, , , 1-DAY,1-15;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71042. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P71042 COMPLD
"OC3STS3C-9,STS3C:FC-P,14,CMPL,NEND,RCV,1-DAY,01-15,00-00"
"OC3STS3C-9,STS3C:UASP,15,CMPL,NEND,RCV,1-DAY,01-15,00-00"
/* RTRV-PM-STS3C: :OC3STS3C-9: :ALL,12-UP, , , 1-DAY,1-15 [P71042] (1) */
;
```

In the following example, the current 15-Minute AIS/LOP (ALS-P) PM data for STS3C port OC3STS3C-1 is retrieved.

```
RTRV-PM-STS3C: :OC3STS3C-1: :ALSP;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of P71048. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P71048 COMPLD
"OC3STS3C-1,STS3C:ALS-P,1,PRTL,NEND,RCV,15-MIN,01-18,10-30"
"OC3STS3C-1,STS3C:ALS-P,0,PRTL,FEND,RCV,15-MIN,01-18,10-30"
/* RTRV-PM-STS3C: :OC3STS3C-1: :ALSP [P71048] (2) */
;
```

In the following example, the 15-minute historical near-end errored seconds, path (ES-P) PM data that was accumulated for STS3C port OC3STS3C-47 on January 18th for the collection period beginning at 8:15 am is retrieved.

```
RTRV-PM-ST3C::OC3STS3C-47:::ESP,0-UP,NEND,,15-MIN,1-18,8-20;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of P71049. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M P71049 COMPLD  
"OC3STS3C-47,STS3C:ESP,0,CMPL,NEND,RCV,15-MIN,01-18,08-15"  
/* RTRV-PM-ST3C::OC3STS3C-47:::ESP,0-UP,NEND,,15-MIN,1-18,8-20 [P71049]  
(2) */  
;
```

RELATED COMMANDS

```
ENT-ST3C  
INIT-REG-ST3C  
RTRV-DFLTTH-ST3C  
RTRV-PMATTR-ALL  
RTRV-PMODE-ST3C  
RTRV-TH-ST3C  
SET-DFLTTH-ST3C  
SET-PMATTR-ALL  
SET-PMODE-ST3C  
SET-TH-ST3C
```

RELATED AUTONOMOUS RESPONSES

```
REPT^EVT^ST3C  
REPT^PM^ST3C
```


COMMAND CODE: **RTRV-PM-T1**
COMMAND NAME: **RETRIEVE PERFORMANCE
MONITORING T1**

PURPOSE

The RTRV-PM-T1 command retrieves the current and/or historical 15-Minute and/or 1-Day PM data corresponding to the specified PM data collection register(s) for the specified DS1 port(s).

For each monitored parameter, the current and/or up to thirty-two (32) 15-Minute historical (up to the most recent previous 8 hours of 15-Minute PM data) PM registers, or the current and/or up to seven (7) 1-Day historical PM registers, or a combination of both 15-Minute and 1-Day PM registers can be retrieved.

If the SET-PMMODE-T1 command is set to PMSTATE=OFF for an entire 15-minute period and no PM occurs on that port, and if the PMSTATE is set to ON within several minutes after the 15-minute period, then the retrieved VLDTY value (via RTRV-PM-T1) for the previous 15-minute period *may not* be displayed as OFF.

The successful response for a RTRV-PM-T1 command contains the following lines of parsable output data for each DS1 AID specified, in ascending order by DS1 AID:

- If a value for NUM15MIN is entered, one line of parsable output data identifying any existing alarms and the current state of the DS1,
- A line of parsable output data for each PM parameter for each PM collection period being reported, in ascending order by PM collection period. No output PM data is provided if the port is not provisioned. No output PM data is provided if the date and time specified exceed the available collection periods (i.e., exceeds 8 hours for 15-Minute PM registers or 7 days for 1-Day PM registers).
- No line of parsable output data is provided if the specified DS1 is embedded within a protection OC3 or OC12.

If the specified AID refers to an embedded DS1 supported by O4M/S3M, O1B, EP3, or ES1 modules and MON-TYPE=QRSSP, RTRV-PM-T1 completes successfully without producing any output.

A RTRV-PM-T1 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-PM-T1 : [TID] : AID : [CTAG] : : [MONTYPE] , [MONLEV] , [LOCN] , [DIRN] , [TMPER] ,
[MONDAT] , [MONTM] , [NUM15MIN] , [NUM1DAY] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >		
	Default:	<SID>	
	Addressing:	None	
	Description:	Target Identifier, specifies the network node TID for the command.	
AID	DS1_AID:		
	{T1-{1-59392}}	(T1-DS1#)	
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)	
	{EC1T1-{1-3840}-{1-28}}	(EC1T1-EC1/STS1/DS3#-DS1#)	
	{EC1T1-{1-3840}-{1-7}-{1-4}}	(EC1T1-EC1/STS1#-VTGrp#-VT1/DS1#)	
	{OC3T1-{1-2240}-{1-3}-{1-28}}	(OC3T1-OC3#-STS1/DS3#-DS1#)	
	{OC3T1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3T1-OC3#-STS1#-VTGrp#-VT1/DS1#)	
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}	(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)	
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	(OC12T1-OC12#-STM1#-STS1#-VTGrp#-VT1/DS1#)	
	Default:	Entry Required	
	Addressing:	&&-ranging and &-grouping	

	Description:	DS1 AID, identifies the DS1 port.
CTAG	<1–6 VALID CTAG CHARACTERS>	
	Default:	<System Assigned CTAG Value>
	Addressing:	None
	Description:	Correlation Tag, associates input command with its output responses.
MONTYPE	{ALL}, {GROUP1}, NEAR_END_PARAMETERS:{AISS, AISS–P, AISSP, CV–L, CVL, CV–P, CVP, ES–L, ESL, ES–NP, ESNP, ES–P, ESP, ESA–P, ESAP, ESB–P, ESBP, FC–P, FCP, LOSS, LOSS–L, LOSSL, QRSSS, QRSSS–P, QRSSSP, SAS–P, SASP, SES–L, SESL, SES–NP, SESNP, SES–P, SESP, UAS–P, UASP}, FAR_END_PARAMETERS:{CSS, CSS–P, CSSP, CV–P, CVP, ES–L, ESL, ES–P, ESP, ESA–P, ESAP, ESB–P, ESBP, FC–P, FCP, SEFS, SEFS–P, SEFSP, SES–P, SESP, UAS–NP, UASNP, UAS–P, UASP}	
	Default:	{ALL}
	Addressing:	None
	Description:	Monitored Parameter Type, identifies the type of monitored parameter whose PM data is being retrieved. A parameter may be specified by more than one value, e.g., parameter values may be entered with or without the dash (–). Refer to Appendix F, Monitored PM Parameters for a list of all monitored PM parameters. Values are:
	ALL	All monitored parameter PM registers.
	GROUP1	All applicable monitored PM registers from the group consisting of CSS–P, ES–P, ESB–P, FC–P, SES–P, UAS–P. (Note. Only parameters that apply are reported, e.g., ESF parameters are not reported for a SF DS1, FEND parameters are not reported if LOCN of NEND is specified.)
	AISS, AISS–P, AISSP	Alarm Indication Signal Seconds – Path, AISS register. (Near–end only.)
	CSS, CSS–P, CSSP	Controlled Slip Seconds – Path, CSS register. (Far–end only.)
	CV–L, CVL	Coding Violations – Line, CV–L register. (Near–end electrical T1 only.)
	CV–P, CVP	Coding Violations – Path, CV–P register.
	ES–L, ESL	Errored Seconds – Line, ES–L register. (Near–end electrical T1 or Far–end embedded T1.)
	ES–NP, ESNP	Errored Seconds – Network Path, ES–NP register. (Near–end or Far–end.)
	ES–P, ESP	Errored Seconds – Path, ES–P register.
	ESA–P, ESAP	Errored Seconds type A – Path, ESA–P register.
	ESB–P, ESBP	Errored Seconds type B – Path, ESB–P register.
	FC–P, FCP	Failure Count – Path, FC–P register.
	LOSS, LOSS–L, LOSSL	Loss of Signal Seconds – Line, LOSS register. (Near–end electrical T1 only.)
	QRSSS, QRSSS–P, QRSSSP	QRSS Seconds – Path, QRSSS–P register. (Near–end only.)
	SAS–P, SASP	Severe AIS Seconds – Path, SAS–P register. (Near–end only.)
	SEFS, SEFS–P, SEFSP	Severely Errored Frame Seconds, SEFS register. (Far–end only.)
	SES–L, SESL	Severely Errored Seconds – Line, SES–L register. (Near–end electrical T1 only.)
	SES–NP, SESNP	Severely Errored Seconds – Network Path, SES–NP register. (Near–end or Far–end.)

	SES–P, SESP UAS–P, UASP	Severely Errored Seconds – Path, SES–P register. Unavailable Seconds – Path, UAS–P register.
	Restrictions:	RTRV–PM–T1 is denied if the specified MONTYPE value is not supported for the specified LOCN value (e.g., MONTYPE of AISS and LOCN of FEND is entered). RTRV–PM–T1 is denied if the DS1 CI/NI Trouble Sectionalization Premium Feature Option (PFO) is not enabled and an input value of ES–NP, ESNP, SES–NP, SESNP, UAS–NP or UASNP is entered.
MONLEV	{LEVEL–DIRECTION:{0–4294967295} – {DN, DNORNCMPL, UP, UPORNCMPL} } Default: {1–UP} Addressing: None Description: Monitoring Level, specifies the discriminating level of PM parameter event counts to be reported for the specified monitored parameter (MONTYPE). The format of MONLEV is <LEVEL> – <DIRECTION>. Values are: {0–4294967295} – DN <LEVEL> – Down, Only PM data for the specified MONTYPE that is less–than or equal–to (<) the value of <LEVEL> is reported. {0–4294967295} – DNORNCMPL <LEVEL> – Down Or Not Complete, Only PM data for the specified MONTYPE that is < the value of <LEVEL> or that does not have a VLDTY flag of CMPL (i.e., the PM data is > the value of <LEVEL> and has a VLDTY flag of {ADJ, LONG, NA, OFF, PRTL}) is reported. {0–4294967295} – UP <LEVEL> – Up, Only PM data for the specified MONTYPE that is greater–than or equal–to (>) the value of <LEVEL> is reported. {0–4294967295} – UPORNCMPL <LEVEL> – Up Or Not Complete, Only PM data for the specified MONTYPE that is > the value of <LEVEL> or that does not have a VLDTY flag of CMPL (i.e., the PM data is < the value of <LEVEL> and has a VLDTY flag of {ADJ, LONG, NA, OFF, PRTL}) is reported.	
LOCN	{FEND, NEND} Default: < All applicable locations for the selected monitored parameters > Addressing: None Description: Location, specifies whether PM registers for near–end or far–end PM monitoring are to be retrieved. Values are: FEND Far–End NEND Near–End Restrictions: RTRV–PM–T1 is denied if the specified MONTYPE value is not supported for the specified LOCN value (e.g., MONTYPE of AISS and LOCN of FEND is entered).	
DIRN	{NA, RCV, TRMT} Default: < All applicable directions > Addressing: None Description: Direction, specifies the direction of the signal being monitored. The value for DIRN is verified, but does not affect the function of the RTRV–PM–T1 command. NA Not Applicable, value reported for LOCN value of FEND. RCV Receive side, value reported for LOCN value of NEND. TRMT Transmit direction, value reported for LOCN value of FEND.	

TMPER	{15-MIN, 1-DAY, BOTH}
	Default: {15-MIN}
	Addressing: None
	Description: Description: Time Period, specifies whether PM data for the 15-minute and/or the daily (24 hour) PM collection register for the specified parameter is to be retrieved. Values are:
	15-MIN 15-Minute PM collection register.
	1-DAY 1-Day (24 hour) PM collection register.
	BOTH Both 15-Minute and 1-Day PM collection registers
	Restrictions: RTRV-PM-T1 is denied if TMPER of 15-MIN is entered and the date and time specified by MONDAT and MONTM is not within the previous eight (8) hours of the current time. RTRV-PM-T1 is denied if TMPER of {1-DAY, BOTH} is entered and the date specified by MONDAT is not within the previous seven (7) days of the current time. RTRV-PM-T1 is denied if TMPER of 1-DAY and NUM15MIN of {1-32, ALL} (i.e., any value) is entered. RTRV-PM-T1 is denied if TMPER of 15-MIN and NUM1DAY of {1-7, ALL} (i.e., any value) is entered.
MONDAT	{MONTH-DAY:{01-12} – {01-31} }
	Default: < Current date >
	Addressing: None
	Description: Monitor Date, specifies the (starting) date of the PM collection period for which PM data is to be retrieved. The format of MONDAT is <MONTH_OF_YEAR> – <DAY_OF_MONTH>.
	Restrictions: RTRV-PM-T1 is denied if TMPER of 15-MIN is entered and the date and time specified by MONDAT and MONTM is not within the previous eight (8) hours of the current time. RTRV-PM-T1 is denied if TMPER of {1-DAY, BOTH} is entered and the date specified by MONDAT is not within the previous seven (7) days of the current time.
MONTM	{HOUR-MINUTE:{00-23} – {00-59} }
	Default: < Current time >
	Addressing: None
	Description: Monitor Time, if TMPER of {15-MIN, BOTH} is entered, specifies the (starting) time of the PM collection period for which PM data is to be retrieved. If TMPER of 1-DAY is entered, the value of MONTM is ignored (i.e., an entered value is validated, but does not affect the command execution). The format of MONTM is <HOUR_OF_DAY> – <MINUTE_OF_HOUR>, where: <HOUR_OF_DAY> is in 24 hour time. <MINUTE_OF_HOUR> set to {0-14} specifies the first 15-minute period within the <HOUR_OF_DAY> value. <MINUTE_OF_HOUR> set to {15-29} specifies the second 15-minute period within the <HOUR_OF_DAY> value. <MINUTE_OF_HOUR> set to {30-44} specifies the third 15-minute period within the <HOUR_OF_DAY> value. <MINUTE_OF_HOUR> set to {45-59} specifies the fourth 15-minute period within the <HOUR_OF_DAY> value.
	Restrictions: RTRV-PM-T1 is denied if TMPER of 15-MIN is entered and the date and time specified by MONDAT and MONTM is not within the previous eight (8) hours of the current time.

NUM15MIN	{1–32, ALL, <NoVal>}
Default:	<NoVal>
Addressing:	None
Description:	Number of 15–Minute Historical Registers, specifies the number of 15–Minute historical PM data registers to retrieve in addition to that specified by MONDAT and MONTM. Values are:
	1–32 1–32 additional historical 15–Minute PM data registers.
	ALL All additional historical 15–Minute PM data registers.
	<NoVal> No Value, no additional historical 15–Minute PM data registers.
Restrictions:	RTRV–PM–T1 is denied if NUM15MIN of {1–32, ALL} (i.e., any value) and TMPPER of 1–DAY is entered.
NUM1DAY	{1–7, ALL, <NoVal>}
Default:	<NoVal>
Addressing:	None
Description:	Number of 1–Day Historical Registers, specifies the number of 1–Day historical PM data registers to retrieve in addition to that specified by MONDAT and MONTM. Values are:
	1–7 1–7 additional historical 1–Day PM data registers.
	ALL All additional historical 1–Day PM data registers.
	<NoVal> No Value, no additional historical 1–Day PM data registers.
Restrictions:	RTRV–PM–T1 is denied if NUM1DAY of {1–7, ALL} (i.e., any value) and TMPPER of 15–MIN is entered.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  ["<AID>, T1: [<NENDALM>], [<FENDALM>], <PST>, <SST>"]
  "<AID>, T1: <MONTYPE>, <MONVAL>, <VLDTY>, <LOCN>, <DIRN>, <TMPPER>,
<MONDAT>, <MONTM>"
  [/ * <Command Echo> [<CTAG>] (<CID [-VCNUM] >) */]
;

```

Note: The first line of parsable output is provided only when a value for NUM15MIN is entered. The second line of parsable output is provided for each PM data register reported.

OUTPUT PARAMETERS

AID	DS1_AID:	
	{T1–{1–59392}}	(T1–DS1#)
	{T3T1–{1–4800}–{1–28}}	(T3T1–DS3#–DS1#)
	{EC1T1–{1–3840}–{1–28}}	(EC1T1–EC1/STS1/DS3#–DS1#)
	{EC1T1–{1–3840}–{1–7}–{1–4}}	(EC1T1–EC1/STS1#–VTGrp#–VT1/DS1#)
	{OC3T1–{1–2240}–{1–3}–{1–28}}	(OC3T1–OC3#–STS1/DS3#–DS1#)
	{OC3T1–{1–2240}–{1–3}–{1–7}–{1–4}}	(OC3T1–OC3#–STS1#–VTGrp#–VT1/DS1#)
	{OC12T1–{1–560}–{1–4}–{1–3}–{1–28}}	(OC12T1–OC12#–STM1#–STS1/DS3#–DS1#)
	{OC12T1–{1–560}–{1–4}–{1–3}–{1–7}–{1–4}}	(OC12T1–OC12#–STM1#–STS1#–VTGrp#–VT1/DS1#)
	DS1 AID, identifies the DS1 port.	
FENDALM	{RAI}	
	Far End DS1 Alarm Condition, identifies any far–end DS1 alarm conditions that exist on the DS1. A FENDALM value is only reported if a FENDALM condition exists. Value is:	
	RAI	Remote Alarm Indication detected

NENDALM	<p>{AIS, EOC, LOF, LOS}</p> <p>Near End DS1 Alarm Condition, identifies any near-end DS1 alarm conditions that exist on the DS1. A NENDALM value is reported only if a NENDALM condition exists. Values are:</p> <table> <tr> <td>AIS</td><td>Alarm Indication Signal, AIS detected</td></tr> <tr> <td>EOC</td><td>Embedded Operations Channel, EOC failure detected</td></tr> <tr> <td>LOF</td><td>Loss Of Frame detected</td></tr> <tr> <td>LOS</td><td>Loss Of Signal detected. Only applies to a terminated electrical DS1.</td></tr> </table>	AIS	Alarm Indication Signal, AIS detected	EOC	Embedded Operations Channel, EOC failure detected	LOF	Loss Of Frame detected	LOS	Loss Of Signal detected. Only applies to a terminated electrical DS1.																		
AIS	Alarm Indication Signal, AIS detected																										
EOC	Embedded Operations Channel, EOC failure detected																										
LOF	Loss Of Frame detected																										
LOS	Loss Of Signal detected. Only applies to a terminated electrical DS1.																										
PST	<p>{IS, OOS-AU, OOS-AUMA, OOS-MA}</p> <p>Primary State, indicates the current primary state of the DS1. Refer to Appendix G, State Transitions for a definition of state names and description of state transitions. Values are:</p> <table> <tr> <td>IS</td><td>In Service</td></tr> <tr> <td>OOS-AU</td><td>Out Of Service-Autonomous</td></tr> <tr> <td>OOS-AUMA</td><td>Out Of Service-Autonomous and Management</td></tr> <tr> <td>OOS-MA</td><td>Out Of Service-Management</td></tr> </table>	IS	In Service	OOS-AU	Out Of Service-Autonomous	OOS-AUMA	Out Of Service-Autonomous and Management	OOS-MA	Out Of Service-Management																		
IS	In Service																										
OOS-AU	Out Of Service-Autonomous																										
OOS-AUMA	Out Of Service-Autonomous and Management																										
OOS-MA	Out Of Service-Management																										
SST	<p>{ACT, AINS, BUSY, DSBLD, FAF, LPBK, MT, PMI, ROLL, SGEO, TS, UAS}</p> <p>Secondary State, indicates any secondary states associated with the DS1. SST values may be shown in the output combined with an ampersand (&) if more than one value applies to the DS1 at the time of the RTRV-PM-T1. Refer to Appendix G, State Transitions for a definition of state names and description of state transitions. Values are:</p> <table> <tr> <td>ACT</td><td>Active</td></tr> <tr> <td>AINS</td><td>The DS1 is under Automatic IN-Service state.</td></tr> <tr> <td>BUSY</td><td>Busy</td></tr> <tr> <td>DSBLD</td><td>Disabled</td></tr> <tr> <td>FAF</td><td>Facility failure</td></tr> <tr> <td>LPBK</td><td>Loopback</td></tr> <tr> <td>MT</td><td>Maintenance</td></tr> <tr> <td>PMI</td><td>Performance Monitoring Inhibited</td></tr> <tr> <td>ROLL</td><td>The DS1 is under roll operation.</td></tr> <tr> <td>SGEO</td><td>Supporting Entity Outage</td></tr> <tr> <td>TS</td><td>Test</td></tr> <tr> <td>UAS</td><td>Unassigned</td></tr> </table>	ACT	Active	AINS	The DS1 is under Automatic IN-Service state.	BUSY	Busy	DSBLD	Disabled	FAF	Facility failure	LPBK	Loopback	MT	Maintenance	PMI	Performance Monitoring Inhibited	ROLL	The DS1 is under roll operation.	SGEO	Supporting Entity Outage	TS	Test	UAS	Unassigned		
ACT	Active																										
AINS	The DS1 is under Automatic IN-Service state.																										
BUSY	Busy																										
DSBLD	Disabled																										
FAF	Facility failure																										
LPBK	Loopback																										
MT	Maintenance																										
PMI	Performance Monitoring Inhibited																										
ROLL	The DS1 is under roll operation.																										
SGEO	Supporting Entity Outage																										
TS	Test																										
UAS	Unassigned																										
MONTYPE	<p>NEAR_END_PARAMETERS:{AISS, CVL, CVP, ESA-P, ESB-P, ESL, ESP, ESNP, FC-P, LOSS, QRSSS-P, SAS-P, SESL, SESNP, SESP, UASP}, FAR_END_PARAMETERS:{CSS, CVP, ESA-P, ESB-P, ESL, ESP, FC-P, SEFS, SESP, UASNP, UASP}</p> <p>Monitored Parameter Type, identifies the monitored parameter. Refer to Appendix F, Monitored PM Parameters for a list of all monitored PM parameters. Values are:</p> <table> <tr> <td>AISS</td><td>AIS Seconds – Path, AISS register.</td></tr> <tr> <td>CSS</td><td>Controlled Slip Seconds – Path, CSS register.</td></tr> <tr> <td>CVL</td><td>Coding Violations – Line, CV-L register.</td></tr> <tr> <td>CVP</td><td>Coding Violations – Path, CV-P register.</td></tr> <tr> <td>ESA-P</td><td>Errored Seconds type A – Path, ESA-P register.</td></tr> <tr> <td>ESB-P</td><td>Errored Seconds type B – Path, ESB-P register.</td></tr> <tr> <td>ESL</td><td>Errored Seconds – Line, ES-L register.</td></tr> <tr> <td>ESNP</td><td>Errored Seconds – Network Path, ES-NP register.</td></tr> <tr> <td>ESP</td><td>Errored Seconds – Path, ES-P register.</td></tr> <tr> <td>FC-P</td><td>Failure Count – Path, FC-P register.</td></tr> <tr> <td>LOSS</td><td>Loss of Signal Seconds – Line, LOSS register.</td></tr> <tr> <td>QRSSS-P</td><td>QRSSS – Path, QRSSS-P register.</td></tr> <tr> <td>SAS-P</td><td>Severe AIS Seconds – Path, SAS-P register.</td></tr> </table>	AISS	AIS Seconds – Path, AISS register.	CSS	Controlled Slip Seconds – Path, CSS register.	CVL	Coding Violations – Line, CV-L register.	CVP	Coding Violations – Path, CV-P register.	ESA-P	Errored Seconds type A – Path, ESA-P register.	ESB-P	Errored Seconds type B – Path, ESB-P register.	ESL	Errored Seconds – Line, ES-L register.	ESNP	Errored Seconds – Network Path, ES-NP register.	ESP	Errored Seconds – Path, ES-P register.	FC-P	Failure Count – Path, FC-P register.	LOSS	Loss of Signal Seconds – Line, LOSS register.	QRSSS-P	QRSSS – Path, QRSSS-P register.	SAS-P	Severe AIS Seconds – Path, SAS-P register.
AISS	AIS Seconds – Path, AISS register.																										
CSS	Controlled Slip Seconds – Path, CSS register.																										
CVL	Coding Violations – Line, CV-L register.																										
CVP	Coding Violations – Path, CV-P register.																										
ESA-P	Errored Seconds type A – Path, ESA-P register.																										
ESB-P	Errored Seconds type B – Path, ESB-P register.																										
ESL	Errored Seconds – Line, ES-L register.																										
ESNP	Errored Seconds – Network Path, ES-NP register.																										
ESP	Errored Seconds – Path, ES-P register.																										
FC-P	Failure Count – Path, FC-P register.																										
LOSS	Loss of Signal Seconds – Line, LOSS register.																										
QRSSS-P	QRSSS – Path, QRSSS-P register.																										
SAS-P	Severe AIS Seconds – Path, SAS-P register.																										

	SEFS	Severely Errored Frame Seconds, SEFS register.
	SESL	Severely Errored Seconds – Line, SES–L register.
	SESNP	Severely Errored Seconds – Network Path, SES–NP register.
	SESP	Severely Errored Seconds – Path, SES–P register.
	UASNP	Unavailable Seconds – Path, UAS–NP register.
	UASP	Unavailable Seconds – Path, UAS–P register.
MONVAL	{0–4294967295, NA}	Monitored Parameter Value, indicates the measured value of the indicated MONTYPE being reported. Values are:
	0–4294967295	Measured Value of the Monitored Parameter, value reported if VLDTY is not {NA}.
	NA	Not Available, value reported if VLDTY is {NA}.
VLDTY	{ADJ, COMPL, LONG, NA, OFF, PRTL}	Validity, indicates whether the PM data being retrieved for the specified time period was accumulated over the entire time period or some portion thereof. Values are:
	ADJ	Adjusted, the data was manually adjusted or initialized (via INIT–REG–T1).
	COMPL	Complete, the data was accumulated over the entire time period.
	LONG	Longer, the data was accumulated over a greater period of time than the indicated time period.
	NA	Not Available, the data is not available.
	OFF	Off, PM data collection for the entire time period was disabled (via SET–PMMODE–T1).
	PRTL	Partial, the data was accumulated over some portion of the time period, but not the entire time period.
LOCN	{FEND, NEND}	Location, indicates whether a near–end or far–end monitored parameter is being reported. Values are:
	FEND	Far–End
	NEND	Near–End
DIRN	{NA, RCV}	Direction, identifies the direction of the signal being monitored. Values are:
	NA	Not Applicable, value reported for LOCN value of FEND.
	RCV	Receive side, value reported for LOCN value of NEND.
TMPER	{15–MIN, 1–DAY}	Time Period, identifies the accumulation time period for the indicated monitored parameter. Values are:
	15–MIN	15–Minute PM collection period
	1–DAY	1–Day (24 hour) PM collection period
MONDAT	{MONTH–DAY:{01–12} – {01–31} }	Monitor Date, identifies the date when the PM collection period began. The format of MONDAT is <MONTH_OF_YEAR> – <DAY_OF_MONTH>.
MONTM	{HOUR–MINUTE:{00–23} – {00–59} }	Monitor Time, identifies the time of day when the PM collection period began. The format of MONTM is <HOUR_OF_DAY> – <MINUTE_OF_HOUR>.

UNSUCCESSFUL RESPONSE FORMAT

```

    <SID> <YY-MM-DD> <HH:MM:SS>
M  <CTAG> DENY
    <ERROR CODE>
    [/* <Informational Error Description Text> */]
    [/* <Expanded Error Code Description> */]
    [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

EFON	Equipage, Feature Option Not provided
IDNC	Input, Data Not Consistent
	/* Value for num15min is not consistent with value for time period */
	/* Value for num1day is not consistent with value for time period */
IDNV	Input, Data Not Valid
	/* Invalid location in request message. */
	/* Invalid montype in request message. */
	/* Invalid monlev in request message. */
	/* Invalid direction in request message. */
	/* Invalid time period in request message. */
	/* Invalid date in request message. */
	/* Invalid num15min value in request message. */
	/* Invalid num1day value in request message. */
	/* Invalid day for the requested month. */
	/* Invalid time in request message. */
	/* Input date/time is not within the valid range. */
IIAC	Input, Invalid ACcess identifier
	/* AID not in Partition. */
	/* Invalid AID entered. */
IIPG	Input, Invalid Parameter Grouping
	/* Invalid location for requested montype. */
SDBE	Status, internal Data Base Error
	/* Error in reading TP database record. */

SROF Status, Requested Operation Failed

```
/* Timeout waiting for response from <AID>. */  
/* Invalid time period is detected, TMPEP = <TIME PERIOD>. */  
/* Unable to determine the global TP number, TPTYPE=<TP TYPE>, TPNum=<TP  
NUMBER>. */  
/* Unable to allocate memory for user data. */  
/* rpt_file error – <ERRNO>, status = <STATUS> */  
/* Cannot open <FILENAME> */  
/* nrl_rpt_print error – no transaction, msgtype = <MSGTYPE> */  
/* rpt_print error – <ERRNO>, status = <STATUS> */  
/* Unable to determine the history file name, TPType=<TP TYPE>, TMPEP=<TIME PE-  
RIOD>, FileIdx=<FILE INDEX>. */  
/* Failed to send rtrv pm msg to SPB/IPU=<SPB/IPU ADDRESS>. */  
/* Failed to retrieve PM historical data. */  
/* Unable to determine supporting facility entity. */  
/* Error occurred while provisioning equipment. */  
/* Unexpected response message received from <CARDNAME>. */  
/* Failed to convert tp num to AID string. */  
/* Unable to determine facility type. */  
/* Unable to determine alarms. */  
/* Failed to get PST and SST State. */
```

EXAMPLES

In the following example, the 1-Day historical PM data that was accumulated for DS1 port T3T1-1017-15 on January 15th for all monitored parameters with a value greater than or equal to a count of 12 is retrieved.

```
RTRV-PM-T1::T3T1-1017-15::ALL,12-UP,,1-DAY,1-15;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71042. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M P71042 COMPLD  
"T3T1-1017-15,T1:CVP,14,CMPL,NEND,RCV,1-DAY,01-15,00-00"  
"T3T1-1017-15,T1:FC-P,15,CMPL,NEND,RCV,1-DAY,01-15,00-00"  
/* RTRV-PM-T1::T3T1-1017-15::ALL,12-UP,,1-DAY,1-15 [P71042] (1) */  
;
```

In the following example, the current 15-Minute AIS seconds (AISS) PM data for DS1 port T1-8 is retrieved.

```
RTRV-PM-T1::T1-8::AISS;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of P71048. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M P71048 COMPLD  
"T1-8,T1:AISS,1,PRTL,NEND,RCV,15-MIN,01-18,10-30"  
/* RTRV-PM-T1::T1-8::AISS [P71048] (2) */  
;
```

In the following example, the 15-minute historical near-end and far-end errored seconds, path (ES-P) PM data that was accumulated for DS1 port T3T1-1343-20 on January 18th for the collection period beginning at 8:15 am is retrieved.

```
RTRV-PM-T1::T3T1-1343-20:::ES-P,0-UP,,15-MIN,1-18,8-20;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of P71049. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P71049 COMPLD
"T3T1-1343-20,T1:ESP,5,CMPL,NEND,RCV,15-MIN,01-18,08-15"
"T3T1-1343-20,T1:ESP,0,CMPL,FEND,NA,15-MIN,01-18,08-15"
/* RTRV-PM-T1::T3T1-1343-20:::ES-P,0-UP,,15-MIN,1-18,8-20
[P71049] (2) */
;
```

RELATED COMMANDS

```
ENT-T1
INIT-REG-T1
RTRV-PFO
RTRV-DFLTTH-T1
RTRV-PMATTR-ALL
RTRV-PMODE-T1
RTRV-TH-T1
SET-DFLTTH-T1
SET-PMATTR-ALL
SET-PMODE-T1
SET-TH-T1
```

RELATED AUTONOMOUS RESPONSES

```
REPT^EVT^T1
REPT^PM^T1
```

COMMAND CODE: RTRV-PM-T3
COMMAND NAME: RETRIEVE PERFORMANCE
MONITORING T3

PURPOSE

The RTRV-PM-T3 command retrieves the current and/or historical 15-Minute and/or 1-Day PM data corresponding to the specified PM data collection register(s) for the specified DS3 port(s).

For each monitored parameter, the current and/or up to thirty-two (32) 15-Minute historical (up to the most recent previous 8 hours of 15-Minute PM data) PM registers, or the current and/or up to seven (7) 1-Day historical PM registers, or a combination of both 15-Minute and 1-Day PM registers can be retrieved.

If the SET-PMMODE-T3 command is set to PMSTATE=OFF for an entire 15-minute period and no PM occurs on that port, and if the PMSTATE is set to ON within several minutes after the 15-minute period, then the retrieved VLDTY value (via RTRV-PM-T3) for the previous 15-minute period *may not* be displayed as OFF.

The successful response for a RTRV-PM-T3 command contains the following lines of parsable output data for each DS3 AID specified, in ascending order by DS3 AID:

- If a value for NUM15MIN is entered, one line of parsable output data identifying any existing alarms and the current state of the DS3,
- A line of parsable output data for each PM parameter for each PM collection period being reported, in ascending order by PM collection period. No output PM data is provided if the port is not provisioned. No output PM data is provided if the date and time specified exceed the available collection periods (i.e., exceeds 8 hours for 15-Minute PM registers or 7 days for 1-Day PM registers).
- No line of parsable output data is provided if the specified DS3 is embedded within a protection OC3 or OC12.

A RTRV-PM-T3 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-PM-T3 : [TID] : AID : [CTAG] : : [MONTYPE] , [MONLEV] , [LOCN] , [DIRN] , [TMPER] ,
[MONDAT] , [MONTM] , [NUM15MIN] , [NUM1DAY] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >		
	Default:	<SID>	
	Addressing:	None	
	Description:	Target Identifier, specifies the network node TID for the command.	
AID	DS3_AID:		
	{T3-{1-4800}}	(T3-DS3#)	
	{EC1T3-{1-3840}}	(EC1T3-EC1/STS1/DS3#)	
	{OC3T3-{1-2240}-{1-3}}	(OC3T3-OC3#-STS1/DS3#)	
	{OC12T3-{1-560}-{1-4}-{1-3}}	(OC12T3-OC12#-STM1#-STS1/DS3#)	
	Default:	Entry Required	
	Addressing:	&&-ranging and &-grouping	
	Description:	DS3 AID, identifies the DS3 port.	
CTAG	< 1-6 VALID CTAG CHARACTERS >		
	Default:	< System assigned CTAG value >	
	Addressing:	None	
	Description:	Correlation Tag, associates input command with its output responses.	

MONTYPE	{ALL}, NEAR_END_PARAMETERS:{AISS, AISS-P, AISSP, CV-L, CVL, CV-P, CVP, CVCP-P, CVCPP, ES-L, ESL, ES-P, ESP, ESA-L, ESAL, ESA-P, ESAP, ESACP-P, ESACPP, ESB-L, ESBL, ESB-P, ESBP, ESBCP-P, ESBCPP, ESCP-P, ESCPP, FC-P, FCP, LOSS, LOSS-L, LOSSL, SAS-P, SASP, SES-L, SESL, SES-P, SESP, SESCO-P, SESCO, UAS-P, UASP, UASCP-P, UASCPP}, FAR_END_PARAMETERS:{CVCP-P, CVCPP, ESACP-P, ESACPP, ESBCP-P, ESBCPP, ESCP-P, ESCPP, FCCP-P, FCCPP, SASCP-P, SASCPP, SESCO-P, SESCPP, UASCP-P, UASCPP}
Default:	{ALL}
Addressing:	None
Description:	Monitored Parameter Type, identifies the type of monitored parameter whose PM data is being retrieved. A parameter may be specified by more than one value, e.g., parameter values may be entered with or without the dash (-). Refer to Appendix F, Monitored PM Parameters for a list of all monitored PM parameters. Values are:
ALL	All monitored parameter PM registers.
AISS, AISS-P, AISSP	Alarm Indication Signal Seconds – Path, AISS register. (Near-end only.)
CV-L, CVL	Coding Violations – Line, CV-L register. (Near-end electrical T3 only.)
CV-P, CVP	Coding Violations – Path, CV-P register. (Near-end only.)
CVCP-P, CVCPP	Code Violations, CP-bit parity – Path, CVCP-P register.
ES-L, ESL	Errored Seconds – Line, ES-L register. (Near-end electrical T3 only.)
ES-P, ESP	Errored Seconds – Path, ES-P register. (Near-end only.)
ESA-L, ESAL	Errored Seconds type A – Line, ESA-L register. (Near-end electrical T3 only.)
ESA-P, ESAP	Errored Seconds type A – Path, ESA-P register. (Near-end only.)
ESACP-P, ESACPP	Errored Seconds type A, CP-bit parity – Path, ESACP-P register.
ESB-L, ESBL	Errored Seconds type B – Line, ESB-L register. (Near-end electrical T3 only.)
ESB-P, ESBP	Errored Seconds type B – Path, ESB-P register. (Near-end only.)
ESBCP-P, ESBCPP	Errored Seconds type B, CP-bit parity – Path, ESBCP-P register.
ESCP-P, ESCPP	Errored Seconds, CP-bit parity – Path, ESCP-P register.
FC-P, FCP	Failure Counts – Path, FC-P register. (Near-end only.)
FCCP-P, FCCPP	Failure Counts, CP-bit parity – Path, FC-P register. (Far-end only.)
LOSS, LOSS-L, LOSSL	Loss Of Signal Seconds – Line, LOSS register. (Near-end electrical T3 only.)
SAS-P, SASP	Severe AIS Seconds – Path, SAS-P register. (Near-end only.)
SASCP-P, SASCPP	Severe AIS Seconds, CP-bit parity – Path, SASCP-P register. (Far-end only.)
SES-L, SESL	Severely Errored Seconds – Line, SES-L register. (Near-end electrical T3 only.)
SES-P, SESP	Severely Errored Seconds – Path, SES-P register.

	<p>(Near-end only.)</p> <p>SESCP-P, SESCPCP Severely Errored Seconds, CP-bit parity – Path, SESCO-P register.</p> <p>UAS-P, UASPCP Unavailable Seconds – Path, UAS-P register. (Near-end only.)</p> <p>UASCP-P, UASCPP Unavailable Seconds, CP-bit parity – Path, UASCP-P register.</p> <p>Restrictions: RTRV-PM-T3 is denied if the specified MONTYPE value is not supported for the specified LOCN value (e.g., MONTYPE of AISS and LOCN of FEND is entered).</p>
MONLEV	<p>{LEVEL-DIRECTION:{0-4294967295} – {DN, DNORNCMPL, UP, UPORNCMPL} }</p> <p>Default: {1-UP}</p> <p>Addressing: None</p> <p>Description: Monitoring Level, specifies the discriminating level of PM parameter event counts to be reported for the specified monitored parameter (MONTYPE). The format of MONLEV is <LEVEL> – <DIRECTION>. Values are:</p> <p>{0-4294967295} – DN <LEVEL> – Down, Only PM data for the specified MONTYPE that is less-than or equal-to (<) the value of <LEVEL> is reported.</p> <p>{0-4294967295} – DNORNCMPL <LEVEL> – Down Or Not Complete, Only PM data for the specified MONTYPE that is < the value of <LEVEL> or that does not have a VLDTY flag of CMPL (i.e., the PM data is > the value of <LEVEL> and has a VLDTY flag of {ADJ, LONG, NA, OFF, PRTL}) is reported.</p> <p>{0-4294967295} – UP <LEVEL> – Up, Only PM data for the specified MONTYPE that is greater-than or equal-to (>) the value of <LEVEL> is reported.</p> <p>{0-4294967295} – UPORNCMPL <LEVEL> – Up Or Not Complete, Only PM data for the specified MONTYPE that is > the value of <LEVEL> or that does not have a VLDTY flag of CMPL (i.e., the PM data is < the value of <LEVEL> and has a VLDTY flag of {ADJ, LONG, NA, OFF, PRTL}) is reported.</p>
LOCN	<p>{FEND, NEND}</p> <p>Default: < All applicable locations for the selected monitored parameters ></p> <p>Addressing: None</p> <p>Description: Location, specifies whether PM registers for near-end or far-end PM monitoring are to be retrieved. Values are:</p> <p>FEND Far-End</p> <p>NEND Near-End</p> <p>Restrictions: RTRV-PM-T3 is denied if the specified MONTYPE value is not supported for the specified LOCN value (e.g., MONTYPE of AISS and LOCN of FEND is entered).</p>
DIRN	<p>{NA, RCV, TRMT}</p> <p>Default: < All applicable directions ></p> <p>Addressing: None</p> <p>Description: Direction, specifies the direction of the signal being monitored. The value for DIRN is verified, but does not affect the function of the RTRV-PM-T3 command.</p> <p>NA Not Applicable</p> <p>RCV Receive side</p> <p>TRMT Transmit direction</p>

TMPER	{15-MIN, 1-DAY, BOTH}
	Default: {15-MIN}
	Addressing: None
	Description: Time Period, specifies whether PM data for the 15-minute and/or the daily (24 hour) PM collection register for the specified parameter is to be retrieved. Values are:
	<div> <div>15-MIN</div> <div>15-Minute PM collection register</div> </div> <div> <div>1-DAY</div> <div>1-Day (24 hour) PM collection register</div> </div> <div> <div>BOTH</div> <div>Both 15-Minute and 1-Day PM collection registers</div> </div>
	Restrictions: RTRV-PM-T3 is denied if TMPER of 15-MIN is entered and the date and time specified by MONDAT and MONTM is not within the previous eight (8) hours of the current time. RTRV-PM-T3 is denied if TMPER of {1-DAY, BOTH} is entered and the date specified by MONDAT is not within the previous seven (7) days of the current time.
MONDAT	{MONTH-DAY:{01-12} - {01-31} }
	Default: < Current date >
	Addressing: None
	Description: Monitor Date, specifies the (starting) date of the PM collection period for which PM data is to be retrieved. The format of MONDAT is <MONTH_OF_YEAR> - <DAY_OF_MONTH>.
	Restrictions: RTRV-PM-T3 is denied if TMPER of 15-MIN is entered and the date and time specified by MONDAT and MONTM is not within the previous eight (8) hours of the current time. RTRV-PM-T3 is denied if TMPER of {1-DAY, BOTH} is entered and the date specified by MONDAT is not within the previous seven (7) days of the current time.
MONTM	{HOUR-MINUTE:{00-23} - {00-59} }
	Default: < Current time >
	Addressing: None
	Description: Monitor Time, if TMPER of {15-MIN, BOTH} is entered, specifies the (starting) time of the PM collection period for which PM data is to be retrieved. If TMPER of 1-DAY is entered, the value of MONTM is ignored (i.e., an entered value is validated, but does not affect the command execution). The format of MONTM is <HOUR_OF_DAY> - <MINUTE_OF_HOUR>, where: <div> <div><HOUR_OF_DAY> is in 24 hour time.</div> <div><MINUTE_OF_HOUR> set to {0-14} specifies the first 15-minute period within the <HOUR_OF_DAY> value.</div> <div><MINUTE_OF_HOUR> set to {15-29} specifies the second 15-minute period within the <HOUR_OF_DAY> value.</div> <div><MINUTE_OF_HOUR> set to {30-44} specifies the third 15-minute period within the <HOUR_OF_DAY> value.</div> <div><MINUTE_OF_HOUR> set to {45-59} specifies the fourth 15-minute period within the <HOUR_OF_DAY> value.</div> </div>
	Restrictions: RTRV-PM-T3 is denied if TMPER of 15-MIN is entered and the date and time specified by MONDAT and MONTM is not within the previous eight (8) hours of the current time.

NUM15MIN	{1–32, ALL, <NoVal>}
Default:	<NoVal>
Addressing:	None
Description:	Number of 15–Minute Historical Registers, specifies the number of 15–Minute historical PM data registers to retrieve in addition to that specified by MONDAT and MONTM. Values are:
1–32	1–32 additional historical 15–Minute PM data registers.
ALL	All additional historical 15–Minute PM data registers.
<NoVal>	No Value, no additional historical 15–Minute PM data registers.
Restrictions:	RTRV–PM–T3 is denied if NUM15MIN of {1–32, ALL} (i.e., any value) and TMPPER of 1–DAY is entered.
NUM1DAY	{1–7, ALL, <NoVal>}
Default:	<NoVal>
Addressing:	None
Description:	Number of 1–Day Historical Registers, specifies the number of 1–Day historical PM data registers to retrieve in addition to that specified by MONDAT and MONTM. Values are:
1–7	1–7 additional historical 1–Day PM data registers.
ALL	All additional historical 1–Day PM data registers.
<NoVal>	No Value, no additional historical 1–Day PM data registers.
Restrictions:	RTRV–PM–T3 is denied if NUM1DAY of {1–7, ALL} (i.e., any value) and TMPPER of 15–MIN is entered.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
[ "<AID>, T3 : [<NENDALM>] , [<FENDALM>] , <PST> , <SST>" ]
  "<AID>, T3 : <MONTYPE> , <MONVAL> , <VLDTY> , <LOCN> , <DIRN> , <TMPPER> ,
<MONDAT> , <MONTM>"
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

Note: The first line of parsable output is provided only when a value for NUM15MIN is entered. The second line of parsable output is provided for each PM data register reported.

OUTPUT PARAMETERS

AID	DS3_AID:	
	{T3–{1–4800}}	(T3–DS3#)
	{EC1T3–{1–3840}}	(EC1T3–EC1/STS1/DS3#)
	{OC3T3–{1–2240}–{1–3}}	(OC3T3–OC3#–STS1/DS3#)
	{OC12T3–{1–560}–{1–4}–{1–3}}	(OC12T3–OC12#–STM1#–STS1/DS3#)
	DS3 AID, identifies the DS3 port.	
FENDALM	{AIS, FEACEQPT, ISD, LOF, LOS, RAI}	
	Far End Alarm. Identifies any far–end DS3 alarm conditions that exist on the DS3. A FENDALM value is reported only if a FENDALM condition exists. Values are:	
	AIS	Alarm Indication Signal, AIS detected
	FEACEQPT	Far–End Alarm & Control (FEAC) Equipment detected
	ISD	Idle Signal Detected
	LOF	Loss Of Frame detected
	LOS	Loss Of Signal detected
	RAI	Remote Alarm Indicated detected

NENDALM	{7LOF, AICMIS, AIS, ISD, LOF, LOS}
	Near End Alarm. Identifies any near-end DS3 alarm conditions that exist on the DS3. A NENDALM value is reported only if a NENDALM condition exists. Values are:
	7LOF Seven Loss Of Frame, Incoming LOF detected on all 7 DS2s embedded in the DS3
	AICMIS Application Identification Channel Mismatch, AIC mismatch detected
	AIS Alarm Indication Signal, AIS detected
	ISD Idle Signal Detected
	LOF Loss Of Frame detected
	LOS Loss Of Signal detected
PST	{IS, OOS-AU, OOS-AUMA, OOS-MA}
	Primary State. Indicates the current primary state of the DS3. Refer to Appendix G, State Transitions for a definition of state names and description of state transitions. Values are:
	IS In-Service
	OOS-AU Out Of Service-Autonomous
	OOS-AUMA Out Of Service-Autonomous and Management
	OOS-MA Out Of Service-Management
SST	{ACT, AINS, BUSY, DSBLD, FAF, LPBK, MT, PMI, SDEE, SGEO, TRM, TS, UAS}
	Secondary State. Indicates any secondary states associated with the DS3. SST values may be shown in the output combined with an ampersand (&) if more than one value applies to the DS3 at the time of the RTRV-PM-T3. Values are:
	ACT Active
	AINS Automatic In-Service
	BUSY Busy
	DSBLD Disabled
	FAF Facility failure
	LPBK Loopback
	MT Maintenance
	PMI Performance Monitoring Inhibited
	SDEE Supported Entity Exists
	SGEO Supporting Entity Outage
	TRM Terminated, supported entity is cross-connected
	TS Test
	UAS Unassigned

MONTYPE	NEAR_END_PARAMETERS:{AISS, CVCP-P, CVL, CVP, ESA-L, ESA-P, ESACP-P, ESB-L, ESB-P, ESBCP-P, ESCP-P, ESL, ESP, FC-P, LOSS, SAS-P, SESP, SESL, SESP, UASCP-P, UASP},	
	FAR_END_PARAMETERS:{CVCP-P, ESACP-P, ESBCP-P, ESCP-P, FCCP-P, SASCP-P, SESP-P, UASCP-P}	
	Monitored Parameter Type, identifies the monitored parameter. Refer to Appendix F, Monitored PM Parameters for a list of all monitored PM parameters. Values are:	
	AISS	AIS Seconds – Path, AISS register.
	CVCP-P	Coding Violations, CP-bit parity – Path, CVCP-P register.
	CVL	Coding Violations – Line, CV-L register.
	CVP	Coding Violations – Path, CV-P register.
	ESA-L	Errored Seconds type A – Line, ESA-L register.
	ESA-P	Errored Seconds type A – Path, ESA-P register.
	ESACP-P	Errored Seconds type A, CP-bit parity – Path, ESACP-P register.
	ESB-L	Errored Seconds type B – Line, ESB-L register.
	ESB-P	Errored Seconds type B – Path, ESB-P register.
	ESBCP-P	Errored Seconds type B, CP-bit parity – Path, ESBCP-P register.
	ESCP-P	Errored Seconds, CP-bit parity – Path, ESCP-P register.
	ESL	Errored Seconds – Line, ES-L register.
	ESP	Errored Seconds – Path, ES-P register.
	FC-P	Failure Counts – Path, FC-P register.
	FCCP-P	Failure Counts, CP-bit parity – Path, FC-P register.
	LOSS	Loss Of Signal Seconds – Line, LOSS register.
	SAS-P	Severe AIS Seconds – Path, SAS-P register.
	SASCP-P	Severe AIS Seconds, CP-bit parity – Path, SASCP-P register.
	SESCP-P	Severely Errored Seconds, CP-bit parity – Path, SESP-P register.
	SESL	Severely Errored Seconds – Line, SES-L register.
	SESP	Severely Errored Seconds – Path, SES-P register.
	UASCP-P	Unavailable Seconds, CP-bit parity – Path, UASCP-P register.
	UASP	Unavailable Seconds – Path, UAS-P register.
MONVAL	{0-4294967295, NA}	
	Monitored Parameter Value, indicates the measured value of the indicated MONTYPE being reported. Values are:	
	0-4294967295	Measured Value of the Monitored Parameter, value reported if VLDTY is not {NA}.
	NA	Not Available, value reported if VLDTY is {NA}.
VLDTY	{ADJ, COMPL, LONG, NA, OFF, PRTL}	
	Validity, indicates whether the PM data being retrieved for the specified time period was accumulated over the entire time period or some portion thereof. Values are:	
	ADJ	Adjusted, the data was manually adjusted or initialized (via INIT-REG-T3).
	COMPL	Complete, the data was accumulated over the entire time period.
	LONG	Longer, the data was accumulated over a greater period of time than the indicated time period.
	NA	Not Available, the data is not available.
	OFF	Off, PM data collection for the entire time period was disabled (via SET-PMODE-T3).
	PRTL	Partial, the data was accumulated over some portion of the time period, but not the entire time period.

LOCN	{FEND, NEND} Location, indicates whether a near-end or far-end monitored parameter is being reported. Values are: FEND Far-End NEND Near-End
DIRN	{NA, RCV} Direction, identifies the direction of the signal being monitored. Values are: NA Not Applicable, value reported for LOCN value of FEND. RCV Receive side, value reported for LOCN value of NEND.
TMPER	{15-MIN, 1-DAY} Time Period, identifies the accumulation time period for the indicated monitored parameter. Values are: 15-MIN 15-Minute PM collection period 1-DAY 1-Day (24 hour) PM collection period
MONDAT	{MONTH-DAY:{01-12} – {01-31} } Monitor Date, identifies the date when the PM collection period began. The format of MONDAT is <MONTH_OF_YEAR> – <DAY_OF_MONTH>.
MONTM	{HOUR-MINUTE:{00-23} – {00-59} } Monitor Time, identifies the time of day when the PM collection period began. The format of MONTM is <HOUR_OF_DAY> – <MINUTE_OF_HOUR>.

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent /* Value for num15min is not consistent with value for time period */ /* Value for num1day is not consistent with value for time period */
IDNV	Input, Data Not Valid /* Invalid location in request message. */ /* Invalid montype in request message. */ /* Invalid monlev in request message. */ /* Invalid direction in request message. */ /* Invalid time period in request message. */ /* Invalid date in request message. */ /* Invalid num15min value in request message. */ /* Invalid num1day value in request message. */ /* Invalid day for the requested month. */ /* Invalid time in request message. */ /* Input date/time is not within the valid range. */
IIAC	Input, Invalid ACcess identifier /* AID not in Partition. */ /* Invalid AID entered. */

IIPG Input, Invalid Parameter Grouping
 /* Invalid location for requested montype. */

SDBE Status, internal Data Base Error
 /* Error in reading TP database record. */

SROF Status, Requested Operation Failed
 /* Timeout waiting for response from <AID>. */
 /* Invalid time period is detected, TMPEP = <TIME PERIOD>. */
 /* Unable to determine the global TP number, TPTYPE=<TP TYPE>, TPNum=<TP
 NUMBER>. */
 /* Unable to allocate memory for user data. */
 /* rpt_file error – <ERRNO>, status = <STATUS> */
 /* Cannot open <FILENAME> */
 /* nrl_rpt_print error – no transaction, msgtype = <MSGTYPE> */
 /* rpt_print error – <ERRNO>, status = <STATUS> */
 /* Unable to determine the history file name, TPTYPE=<TP TYPE>, TMPEP=<TIME PE-
 RIOD>, FileIdx=<FILE INDEX>. */
 /* Failed to send rtrv pm msg to SPB/IPU=<SPB/IPU ADDRESS>. */
 /* Failed to retrieve PM historical data. */
 /* Unable to determine supporting facility entity. */
 /* Error occurred while provisioning equipment. */
 /* Unexpected response message received from <CARDNAME>. */
 /* Failed to convert tp num to AID string. */
 /* Unable to determine facility type. */
 /* Unable to determine alarms. */
 /* Failed to get PST and SST State. */

EXAMPLES

In the following example, the 1–Day historical PM data that was accumulated for DS3 port T3–1017 on January 15th for all monitored parameters with a value greater than or equal to a count of 12 is retrieved.

```
RTRV-PM-T3::T3-1017::ALL,12-UP,,1-DAY,1-15;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71042. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P71042 COMPLD
"T3-1017,T3:FC-P,14,CMPL,NEND,RCV,1-DAY,01-15,00-00"
"T3-1017,T3:UASP,15,CMPL,NEND,RCV,1-DAY,01-15,00-00"
/* RTRV-PM-T3::T3-1017::ALL,12-UP,,1-DAY,1-15 [P71042] (1) */
;
```

In the following example, the current 15–Minute AIS seconds (AISS) PM data for DS3 port T3–1057 is retrieved.

```
RTRV-PM-T3::T3-1057::AISS;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of P71048. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P71048 COMPLD
"T3-1057,T3:AISS,1,PRTL,NEND,RCV,15-MIN,01-18,10-30"
/* RTRV-PM-T3::T3-1057::AISS [P71048] (2) */
;
```

In the following example, the 15–minute historical near–end errored seconds, path (ES–P) PM data that was accumulated for DS3 port T3–1333 on January 18th for the collection period beginning at 8:15 am is retrieved.

```
RTRV-PM-T3::T3-1333::ESP,0-UP,,15-MIN,1-18,8-20;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of P71049. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P71049 COMPLD
"T3-1333,T3:ESP,0,CMPL,NEND,RCV,15-MIN,01-18,08-15"
/* RTRV-PM-T3::T3-1333:::ESP,0-UP,,,15-MIN,1-18,8-20 [P71049] (2) */
;
```

RELATED COMMANDS

```
ENT-T3
INIT-REG-T3
RTRV-DFLTTH-T3
RTRV-PMATTR-ALL
RTRV-PMODE-T3
RTRV-TH-T3
SET-DFLTTH-T3
SET-PMATTR-ALL
SET-PMODE-T3
SET-TH-T3
```

RELATED AUTONOMOUS RESPONSES

```
REPT^EVT^T3
REPT^PM^T3
```


COMMAND CODE: RTRV-PM-VT1
COMMAND NAME: RETRIEVE PERFORMANCE
MONITORING VT1

PURPOSE

The RTRV-PM-VT1 command retrieves the current and/or historical 15-Minute and/or 1-Day PM data corresponding to the specified PM data collection register(s) for the specified VT1.5 port(s).

For each monitored parameter, the current and/or up to thirty-two (32) 15-Minute historical (up to the most recent previous 8 hours of 15-Minute PM data) PM registers, or the current and/or up to seven (7) 1-Day historical PM registers, or a combination of both 15-Minute and 1-Day PM registers can be retrieved.

If the SET-PMMODE-VT1 command is set to PMSTATE=OFF for an entire 15-minute period and no PM occurs on that port, and if the PMSTATE is set to ON within several minutes after the 15-minute period, then the retrieved VLDTY value (via RTRV-PM-VT1) for the previous 15-minute period *may not* be displayed as OFF.

The successful response for a RTRV-PM-VT1 command contains the following lines of parsable output data for each VT1.5 AID specified, in ascending order by VT1.5 AID:

- If a value for NUM15MIN is entered, one line of parsable output data identifying any existing alarms and the current state of the VT1.5,
- A line of parsable output data for each PM parameter for each PM collection period being reported, in ascending order by PM collection period. No output PM data is provided if the port is not provisioned. No output PM data is provided if the date and time specified exceed the available collection periods (i.e., exceeds 8 hours for 15-Minute PM registers or 7 days for 1-Day PM registers).
- No line of parsable output data is provided if the specified VT1.5 is embedded within a protection OC3 or OC12.

A RTRV-PM-VT1 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-PM-VT1 : [TID] : AID : [CTAG] : : [MONTYPE] , [MONLEV] , [LOCN] , [DIRN] , [TMPER] ,
[MONDAT] , [MONTM] , [NUM15MIN] , [NUM1DAY] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >		
	Default:	<SID>	
	Addressing:	None	
	Description:	Target Identifier, specifies the network node TID for the command.	
AID	VT1_AID:		
	{EC1VT1-{1-3840}-{1-7}-{1-4}}	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)	
	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)	
	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}		
	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)		
	Default:	Entry Required	
	Addressing:	&&-ranging and &-grouping	
	Description:	VT1 AID, identifies the VT1.5 port.	
CTAG	< 1-6 VALID CTAG CHARACTERS >		
	Default:	< System assigned CTAG value >	
	Addressing:	None	
	Description:	Correlation Tag, associates input command with its output responses.	

MONTYPE	{ALL}, NEAR_END_PARAMETERS:{ALS-V, ALSV, CV-V, CVV, ES-V, ESV, ESA-V, ESAV, ESB-V, ESBV, FC-V, FCV, SES-V, SESV, UAS-V, UASV}, FAR_END_PARAMETERS:{ALS-V, ALSV, CV-V, CVV, ES-V, ESV, ESA-V, ESAV, ESB-V, ESBV, FC-V, FCV, SES-V, SESV, UAS-V, UASV}																		
	Default: {ALL} Addressing: None Description: Monitored Parameter Type, identifies the type of monitored parameter whose PM data is being retrieved. A parameter may be specified by more than one value, e.g., parameter values may be entered with or without the dash (-). Refer to Appendix F, Monitored PM Parameters for a list of all monitored PM parameters. Values are:																		
	<table> <tr> <td>ALL</td><td>All monitored parameter PM registers.</td></tr> <tr> <td>ALS-V, ALSV</td><td>Alarm Indication Signal/Loss of Pointer – VT Path, ALS-V register.</td></tr> <tr> <td>CV-V, CVV</td><td>Coding Violations – VT Path, CV-V register.</td></tr> <tr> <td>ES-V, ESV</td><td>Errored Seconds – VT Path, ES-V register.</td></tr> <tr> <td>ESA-V, ESAV</td><td>Errored Seconds type A – VT Path, ESA-V register.</td></tr> <tr> <td>ESB-V, ESBV</td><td>Errored Seconds type B – VT Path, ESB-V register.</td></tr> <tr> <td>FC-V, FCV</td><td>Failure Counts – VT Path, FC-V register.</td></tr> <tr> <td>SES-V, SESV</td><td>Severely Errored Seconds – VT Path, SES-V register.</td></tr> <tr> <td>UAS-V, UASV</td><td>Unavailable Seconds – VT Path, UAS-V register.</td></tr> </table>	ALL	All monitored parameter PM registers.	ALS-V, ALSV	Alarm Indication Signal/Loss of Pointer – VT Path, ALS-V register.	CV-V, CVV	Coding Violations – VT Path, CV-V register.	ES-V, ESV	Errored Seconds – VT Path, ES-V register.	ESA-V, ESAV	Errored Seconds type A – VT Path, ESA-V register.	ESB-V, ESBV	Errored Seconds type B – VT Path, ESB-V register.	FC-V, FCV	Failure Counts – VT Path, FC-V register.	SES-V, SESV	Severely Errored Seconds – VT Path, SES-V register.	UAS-V, UASV	Unavailable Seconds – VT Path, UAS-V register.
ALL	All monitored parameter PM registers.																		
ALS-V, ALSV	Alarm Indication Signal/Loss of Pointer – VT Path, ALS-V register.																		
CV-V, CVV	Coding Violations – VT Path, CV-V register.																		
ES-V, ESV	Errored Seconds – VT Path, ES-V register.																		
ESA-V, ESAV	Errored Seconds type A – VT Path, ESA-V register.																		
ESB-V, ESBV	Errored Seconds type B – VT Path, ESB-V register.																		
FC-V, FCV	Failure Counts – VT Path, FC-V register.																		
SES-V, SESV	Severely Errored Seconds – VT Path, SES-V register.																		
UAS-V, UASV	Unavailable Seconds – VT Path, UAS-V register.																		
MONLEV	{LEVEL-DIRECTION:{0-4294967295} – {DN, DNORNCMPL, UP, UPORNCMPL} }																		
	Default: {1-UP} Addressing: None Description: Monitoring Level, specifies the discriminating level of PM parameter event counts to be reported for the specified monitored parameter (MONTYPE). The format of MONLEV is <LEVEL> – <DIRECTION>. Values are:																		
	<table> <tr> <td>{0-4294967295} – DN</td><td><LEVEL> – Down, Only PM data for the specified MONTYPE that is less-than or equal-to (<) the value of <LEVEL> is reported.</td></tr> <tr> <td>{0-4294967295} – DNORNCMPL</td><td><LEVEL> – Down Or Not Complete, Only PM data for the specified MONTYPE that is < the value of <LEVEL> or that does not have a VLDTY flag of CMPL (i.e., the PM data is > the value of <LEVEL> and has a VLDTY flag of {ADJ, LONG, NA, OFF, PRTL}) is reported.</td></tr> <tr> <td>{0-4294967295} – UP</td><td><LEVEL> – Up, Only PM data for the specified MONTYPE that is greater-than or equal-to (>) the value of <LEVEL> is reported.</td></tr> <tr> <td>{0-4294967295} – UPORNCMPL</td><td><LEVEL> – Up Or Not Complete, Only PM data for the specified MONTYPE that is > the value of <LEVEL> or that does not have a VLDTY flag of CMPL (i.e., the PM data is < the value of <LEVEL> and has a VLDTY flag of {ADJ, LONG, NA, OFF, PRTL}) is reported.</td></tr> </table>	{0-4294967295} – DN	<LEVEL> – Down, Only PM data for the specified MONTYPE that is less-than or equal-to (<) the value of <LEVEL> is reported.	{0-4294967295} – DNORNCMPL	<LEVEL> – Down Or Not Complete, Only PM data for the specified MONTYPE that is < the value of <LEVEL> or that does not have a VLDTY flag of CMPL (i.e., the PM data is > the value of <LEVEL> and has a VLDTY flag of {ADJ, LONG, NA, OFF, PRTL}) is reported.	{0-4294967295} – UP	<LEVEL> – Up, Only PM data for the specified MONTYPE that is greater-than or equal-to (>) the value of <LEVEL> is reported.	{0-4294967295} – UPORNCMPL	<LEVEL> – Up Or Not Complete, Only PM data for the specified MONTYPE that is > the value of <LEVEL> or that does not have a VLDTY flag of CMPL (i.e., the PM data is < the value of <LEVEL> and has a VLDTY flag of {ADJ, LONG, NA, OFF, PRTL}) is reported.										
{0-4294967295} – DN	<LEVEL> – Down, Only PM data for the specified MONTYPE that is less-than or equal-to (<) the value of <LEVEL> is reported.																		
{0-4294967295} – DNORNCMPL	<LEVEL> – Down Or Not Complete, Only PM data for the specified MONTYPE that is < the value of <LEVEL> or that does not have a VLDTY flag of CMPL (i.e., the PM data is > the value of <LEVEL> and has a VLDTY flag of {ADJ, LONG, NA, OFF, PRTL}) is reported.																		
{0-4294967295} – UP	<LEVEL> – Up, Only PM data for the specified MONTYPE that is greater-than or equal-to (>) the value of <LEVEL> is reported.																		
{0-4294967295} – UPORNCMPL	<LEVEL> – Up Or Not Complete, Only PM data for the specified MONTYPE that is > the value of <LEVEL> or that does not have a VLDTY flag of CMPL (i.e., the PM data is < the value of <LEVEL> and has a VLDTY flag of {ADJ, LONG, NA, OFF, PRTL}) is reported.																		
LOCN	{FEND, NEND}																		
	Default: < All applicable locations for the selected monitored parameters > Addressing: None Description: Location, specifies whether PM registers for near-end or far-end PM monitoring are to be retrieved. Values are:																		
	<table> <tr> <td>FEND</td><td>Far-End</td></tr> <tr> <td>NEND</td><td>Near-End</td></tr> </table>	FEND	Far-End	NEND	Near-End														
FEND	Far-End																		
NEND	Near-End																		

DIRN	{NA, RCV, TRMT}	
	Default:	< All applicable directions >
	Addressing:	None
	Description:	Direction, specifies the direction of the signal being monitored. The value for DIRN is verified, but does not affect the function of the RTRV-PM-VT1 command.
	NA	Not Applicable
TMPER	RCV	Receive side
	TRMT	Transmit direction
	{15-MIN, 1-DAY, BOTH}	
	Default:	{15-MIN}
	Addressing:	None
	Description:	Time Period, specifies whether PM data for the 15-minute and/or the daily (24 hour) PM collection register for the specified parameter is to be retrieved. Values are:
	15-MIN	15-Minute PM collection register
	1-DAY	1-Day (24 hour) PM collection register
	BOTH	Both 15-Minute and 1-Day PM collection registers
	Restrictions:	RTRV-PM-VT1 is denied if TMPER of 15-MIN is entered and the date and time specified by MONDAT and MONTM is not within the previous eight (8) hours of the current time. RTRV-PM-VT1 is denied if TMPER of {1-DAY, BOTH} is entered and the date specified by MONDAT is not within the previous seven (7) days of the current time.
MONDAT	{MONTH-DAY:{01-12} – {01-31} }	
	Default:	< Current date >
	Addressing:	None
	Description:	Monitor Date, specifies the (starting) date of the PM collection period for which PM data is to be retrieved. The format of MONDAT is <MONTH_OF_YEAR> – <DAY_OF_MONTH>.
	Restrictions:	RTRV-PM-VT1 is denied if TMPER of 15-MIN is entered and the date and time specified by MONDAT and MONTM is not within the previous eight (8) hours of the current time. RTRV-PM-VT1 is denied if TMPER of {1-DAY, BOTH} is entered and the date specified by MONDAT is not within the previous seven (7) days of the current time.

MONTM	{ HOUR – MINUTE :{00–23} – {00–59} }
	Default: < Current time > Addressing: None Description: Monitor Time, if TMPER of {15–MIN, BOTH} is entered, specifies the (starting) time of the PM collection period for which PM data is to be retrieved. If TMPER of 1–DAY is entered, the value of MONTM is ignored (i.e., an entered value is validated, but does not affect the command execution). The format of MONTM is < HOUR_OF_DAY > – < MINUTE_OF_HOUR >, where: < HOUR_OF_DAY > is in 24 hour time. < MINUTE_OF_HOUR > set to {0–14} specifies the first 15–minute period within the < HOUR_OF_DAY > value. < MINUTE_OF_HOUR > set to {15–29} specifies the second 15–minute period within the < HOUR_OF_DAY > value. < MINUTE_OF_HOUR > set to {30–44} specifies the third 15–minute period within the < HOUR_OF_DAY > value. < MINUTE_OF_HOUR > set to {45–59} specifies the fourth 15–minute period within the < HOUR_OF_DAY > value. Restrictions: RTRV–PM–VT1 is denied if TMPER of 15–MIN is entered and the date and time specified by MONDAT and MONTM is not within the previous eight (8) hours of the current time.
NUM15MIN	{1–32, ALL, <NoVal>}
	Default: <NoVal> Addressing: None Description: Number of 15–Minute Historical Registers, specifies the number of 15–Minute historical PM data registers to retrieve in addition to that specified by MONDAT and MONTM. Values are: 1–32 1–32 additional historical 15–Minute PM data registers. ALL All additional historical 15–Minute PM data registers. <NoVal> No Value, no additional historical 15–Minute PM data registers. Restrictions: RTRV–PM–VT1 is denied if NUM15MIN of {1–32, ALL} (i.e., any value) and TMPER of 1–DAY is entered.
NUM1DAY	{1–7, ALL, <NoVal>}
	Default: <NoVal> Addressing: None Description: Number of 1–Day Historical Registers, specifies the number of 1–Day historical PM data registers to retrieve in addition to that specified by MONDAT and MONTM. Values are: 1–7 1–7 additional historical 1–Day PM data registers. ALL All additional historical 1–Day PM data registers. <NoVal> No Value, no additional historical 1–Day PM data registers. Restrictions: RTRV–PM–VT1 is denied if NUM1DAY of {1–7, ALL} (i.e., any value) and TMPER of 15–MIN is entered.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
[ "<AID>, VT1 : [<NENDALM>] , [<FENDALM>] , <PST>, <SST>" ]
  "<AID>, VT1 : <MONTYPE>, <MONVAL>, <VLDTY>, <LOCN>, <DIRN>, <TMPER>,
<MONDAT>, <MONTM>"
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

Note: The first line of parsable output is provided only when a value for NUM15MIN is entered. The second line of parsable output is provided for each PM data register reported.

OUTPUT PARAMETERS

AID	<p>VT1_AID:</p> <p>{EC1VT1-{1-3840}-{1-7}-{1-4}} (EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)</p> <p>{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}} (OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)</p> <p>{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}} (OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)</p> <p>VT1 AID, identifies the VT1.5 port.</p>																		
FENDALM	<p>{RFI}</p> <p>Far End VT1 Alarm Condition, identifies any far-end VT1 alarm conditions that exist on the VT1.5. A FENDALM value is only reported if a FENDALM condition exists. Value is:</p> <table> <tr> <td>RFI</td><td>Remote Failure Indication detected</td></tr> </table>	RFI	Remote Failure Indication detected																
RFI	Remote Failure Indication detected																		
NENDALM	<p>{AIS, IDLE, LOP, SLMF}</p> <p>Near End VT1 Alarm Condition, identifies any near-end VT1 alarm conditions that exist on the VT1.5. A NENDALM value is reported only if a NENDALM condition exists. Values are:</p> <table> <tr> <td>AIS</td><td>Alarm Indication Signal, AIS detected</td></tr> <tr> <td>IDLE</td><td>Idle, incoming idle detected</td></tr> <tr> <td>LOP</td><td>Loss Of Pointer detected</td></tr> <tr> <td>SLMF</td><td>Signal Label Match Failure detected</td></tr> </table>	AIS	Alarm Indication Signal, AIS detected	IDLE	Idle, incoming idle detected	LOP	Loss Of Pointer detected	SLMF	Signal Label Match Failure detected										
AIS	Alarm Indication Signal, AIS detected																		
IDLE	Idle, incoming idle detected																		
LOP	Loss Of Pointer detected																		
SLMF	Signal Label Match Failure detected																		
PST	<p>{IS, OOS-AU, OOS-AUMA, OOS-MA}</p> <p>Primary State, indicates the current primary state of the VT1. Refer to Appendix G, State Transitions for a definition of state names and description of state transitions. Values are:</p> <table> <tr> <td>IS</td><td>In Service</td></tr> <tr> <td>OOS-AU</td><td>Out Of Service-Autonomous</td></tr> <tr> <td>OOS-AUMA</td><td>Out Of Service-Autonomous and Management</td></tr> <tr> <td>OOS-MA</td><td>Out Of Service-Management</td></tr> </table>	IS	In Service	OOS-AU	Out Of Service-Autonomous	OOS-AUMA	Out Of Service-Autonomous and Management	OOS-MA	Out Of Service-Management										
IS	In Service																		
OOS-AU	Out Of Service-Autonomous																		
OOS-AUMA	Out Of Service-Autonomous and Management																		
OOS-MA	Out Of Service-Management																		
SST	<p>{ACT, BUSY, DSBLD, FAF, LPBK, MT, TRM, UAS}</p> <p>Secondary State, indicates any secondary states associated with the VT1. SST values may be shown in the output combined with an ampersand (&) if more than one value applies to the VT1 at the time of the RTRV-PM-VT1. Refer to Appendix G, State Transitions for a definition of state names and description of state transitions. Values are:</p> <table> <tr> <td>ACT</td><td>Active</td></tr> <tr> <td>BUSY</td><td>Busy</td></tr> <tr> <td>DSBLD</td><td>Disabled</td></tr> <tr> <td>FAF</td><td>Facility failure</td></tr> <tr> <td>LPBK</td><td>Loopback</td></tr> <tr> <td>MT</td><td>Maintenance</td></tr> <tr> <td>PMI</td><td>Performance Monitoring Inhibited</td></tr> <tr> <td>TRM</td><td>Terminated</td></tr> <tr> <td>UAS</td><td>Unassigned</td></tr> </table>	ACT	Active	BUSY	Busy	DSBLD	Disabled	FAF	Facility failure	LPBK	Loopback	MT	Maintenance	PMI	Performance Monitoring Inhibited	TRM	Terminated	UAS	Unassigned
ACT	Active																		
BUSY	Busy																		
DSBLD	Disabled																		
FAF	Facility failure																		
LPBK	Loopback																		
MT	Maintenance																		
PMI	Performance Monitoring Inhibited																		
TRM	Terminated																		
UAS	Unassigned																		

MONTYPE	<p>FAR_END_PARAMETERS:{ALS-V, CVV, ESV, ESA-V, ESB-V, FC-V, SESV, UASV} NEAR_END_PARAMETERS:{ALS-V, CVV, ESV, ESA-V, ESB-V, FC-V, SESV, UASV},</p> <p>Monitored Parameter Type, identifies the monitored parameter. Refer to Appendix F, Monitored PM Parameters for a list of all monitored PM parameters. Values are:</p> <table> <tr> <td>ALS-V</td><td>Alarm Indication Signal/Loss of Pointer – VT Path, ALS-P register.</td></tr> <tr> <td>CVV</td><td>Coding Violations VT Path, CV-V register.</td></tr> <tr> <td>ESV</td><td>Errored Seconds VT Path, ES-V register.</td></tr> <tr> <td>ESA-V</td><td>Errored Seconds type A – VT Path, ESA-V register.</td></tr> <tr> <td>ESB-V</td><td>Errored Seconds type B – VT Path, ESB-V register.</td></tr> <tr> <td>FC-V</td><td>Failure Counts – VT Path, FC-V register.</td></tr> <tr> <td>SESV</td><td>Severely Errored Seconds VT Path, SES-V register.</td></tr> <tr> <td>UASV</td><td>Unavailable Seconds VT Path, UAS-V register.</td></tr> </table>	ALS-V	Alarm Indication Signal/Loss of Pointer – VT Path, ALS-P register.	CVV	Coding Violations VT Path, CV-V register.	ESV	Errored Seconds VT Path, ES-V register.	ESA-V	Errored Seconds type A – VT Path, ESA-V register.	ESB-V	Errored Seconds type B – VT Path, ESB-V register.	FC-V	Failure Counts – VT Path, FC-V register.	SESV	Severely Errored Seconds VT Path, SES-V register.	UASV	Unavailable Seconds VT Path, UAS-V register.
ALS-V	Alarm Indication Signal/Loss of Pointer – VT Path, ALS-P register.																
CVV	Coding Violations VT Path, CV-V register.																
ESV	Errored Seconds VT Path, ES-V register.																
ESA-V	Errored Seconds type A – VT Path, ESA-V register.																
ESB-V	Errored Seconds type B – VT Path, ESB-V register.																
FC-V	Failure Counts – VT Path, FC-V register.																
SESV	Severely Errored Seconds VT Path, SES-V register.																
UASV	Unavailable Seconds VT Path, UAS-V register.																
MONVAL	<p>{0-4294967295, NA}</p> <p>Monitored Parameter Value, indicates the measured value of the indicated MONTYPE being reported. Values are:</p> <table> <tr> <td>0-4294967295</td><td>Measured Value of the Monitored Parameter, value reported if VLDTY is not {NA}.</td></tr> <tr> <td>NA</td><td>Not Available, value reported if VLDTY is {NA}.</td></tr> </table>	0-4294967295	Measured Value of the Monitored Parameter, value reported if VLDTY is not {NA}.	NA	Not Available, value reported if VLDTY is {NA}.												
0-4294967295	Measured Value of the Monitored Parameter, value reported if VLDTY is not {NA}.																
NA	Not Available, value reported if VLDTY is {NA}.																
VLDTY	<p>{ADJ, COMPL, LONG, NA, OFF, PRTL}</p> <p>Validity, indicates whether the PM data being retrieved for the specified time period was accumulated over the entire time period or some portion thereof. Values are:</p> <table> <tr> <td>ADJ</td><td>Adjusted, the data was manually adjusted or initialized (via INIT-REG-VT1).</td></tr> <tr> <td>COMPL</td><td>Complete, the data was accumulated over the entire time period.</td></tr> <tr> <td>LONG</td><td>Longer, the data was accumulated over a greater period of time than the indicated time period.</td></tr> <tr> <td>NA</td><td>Not Available, the data is not available.</td></tr> <tr> <td>OFF</td><td>Off, PM data collection for the entire time period was disabled (via SET-PMODE-VT1).</td></tr> <tr> <td>PRTL</td><td>Partial, the data was accumulated over some portion of the time period, but not the entire time period.</td></tr> </table>	ADJ	Adjusted, the data was manually adjusted or initialized (via INIT-REG-VT1).	COMPL	Complete, the data was accumulated over the entire time period.	LONG	Longer, the data was accumulated over a greater period of time than the indicated time period.	NA	Not Available, the data is not available.	OFF	Off, PM data collection for the entire time period was disabled (via SET-PMODE-VT1).	PRTL	Partial, the data was accumulated over some portion of the time period, but not the entire time period.				
ADJ	Adjusted, the data was manually adjusted or initialized (via INIT-REG-VT1).																
COMPL	Complete, the data was accumulated over the entire time period.																
LONG	Longer, the data was accumulated over a greater period of time than the indicated time period.																
NA	Not Available, the data is not available.																
OFF	Off, PM data collection for the entire time period was disabled (via SET-PMODE-VT1).																
PRTL	Partial, the data was accumulated over some portion of the time period, but not the entire time period.																
LOCN	<p>{FEND, NEND}</p> <p>Location, indicates whether a near-end or far-end monitored parameter is being reported. Values are:</p> <table> <tr> <td>FEND</td><td>Far-End</td></tr> <tr> <td>NEND</td><td>Near-End</td></tr> </table>	FEND	Far-End	NEND	Near-End												
FEND	Far-End																
NEND	Near-End																
DIRN	<p>{NA, RCV}</p> <p>Direction, identifies the direction of the signal being monitored. Values are:</p> <table> <tr> <td>NA</td><td>Not Applicable, value reported for LOCN value of FEND.</td></tr> <tr> <td>RCV</td><td>Receive side, value reported for LOCN value of NEND.</td></tr> </table>	NA	Not Applicable, value reported for LOCN value of FEND.	RCV	Receive side, value reported for LOCN value of NEND.												
NA	Not Applicable, value reported for LOCN value of FEND.																
RCV	Receive side, value reported for LOCN value of NEND.																
TMPER	<p>{15-MIN, 1-DAY}</p> <p>Time Period, identifies the accumulation time period for the indicated monitored parameter. Values are:</p> <table> <tr> <td>15-MIN</td><td>15-Minute PM collection period</td></tr> <tr> <td>1-DAY</td><td>1-Day (24 hour) PM collection period</td></tr> </table>	15-MIN	15-Minute PM collection period	1-DAY	1-Day (24 hour) PM collection period												
15-MIN	15-Minute PM collection period																
1-DAY	1-Day (24 hour) PM collection period																
MONDAT	<p>{MONTH-DAY:{01-12} – {01-31} }</p> <p>Monitor Date, identifies the date when the PM collection period began. The format of MONDAT is <MONTH_OF_YEAR> – <DAY_OF_MONTH>.</p>																

MONTM {HOUR-MINUTE:{00-23} – {00-59} }
Monitor Time, identifies the time of day when the PM collection period began. The format of MONTM is <HOUR_OF_DAY> – <MINUTE_OF_HOUR>.

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent /* Value for num15min is not consistent with value for time period */ /* Value for num1day is not consistent with value for time period */
IDNV	Input, Data Not Valid /* Invalid location in request message. */ /* Invalid montype in request message. */ /* Invalid monlev in request message. */ /* Invalid direction in request message. */ /* Invalid time period in request message. */ /* Invalid date in request message. */ /* Invalid num15min value in request message. */ /* Invalid num1day value in request message. */ /* Invalid day for the requested month. */ /* Invalid time in request message. */ /* Input date/time is not within the valid range. */
IIAC	Input, Invalid ACcess identifier /* AID not in Partition. */ /* Invalid AID entered. */
IIPG	Input, Invalid Parameter Grouping /* Invalid location for requested montype. */
SDBE	Status, internal Data Base Error /* Error in reading TP database record. */

SROF Status, Requested Operation Failed

- /* Timeout waiting for response from <AID>. */
- /* Invalid time period is detected, TMPER = <TIME PERIOD>. */
- /* Unable to determine the global TP number, TPTYPE=<TP TYPE>, TPNum=<TP NUMBER>. */
- /* Unable to allocate memory for user data. */
- /* rpt_file error – <ERRNO>, status = <STATUS> */
- /* Cannot open <FILENAME> */
- /* nrl_rpt_print error – no transaction, msgtype = <MSGTYPE> */
- /* rpt_print error – <ERRNO>, status = <STATUS> */
- /* Unable to determine the history file name, TPType=<TP TYPE>, TMPER=<TIME PERIOD>, FileIdx=<FILE INDEX>. */
- /* Failed to send rtrv pm msg to SPB/IPU=<SPB/IPU ADDRESS>. */
- /* Failed to retrieve PM historical data. */
- /* Unable to determine supporting facility entity. */
- /* Error occurred while provisioning equipment. */
- /* Unexpected response message received from <CARDNAME>. */
- /* Failed to convert tp num to AID string. */
- /* Unable to determine facility type. */
- /* Unable to determine alarms. */
- /* Failed to get PST and SST State. */

EXAMPLES

In the following example, the 1-Day historical PM data that was accumulated for VT1.5 port EC1VT1-57-2-1 on January 15th for all monitored parameters with a value greater than or equal to a count of 12 is retrieved.

```
RTRV-PM-VT1::EC1VT1-57-2-1::ALL,12-UP,,1-DAY,1-15;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71042. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P71042 COMPLD
"EC1VT1-57-2-1,VT1:FC-V,14,CMPL,NEND,RCV,1-DAY,01-15,00-00"
"EC1VT1-57-2-1,VT1:UASV,15,CMPL,NEND,RCV,1-DAY,01-15,00-00"
/* RTRV-PM-VT1::EC1VT1-57-2-1::ALL,12-UP,,1-DAY,1-15 [P71042] (1) */
;
```

In the following example, the current 15-Minute AIS/LOP (ALS-V) PM data for VT1.5 port EC1VT1-97-7-4 is retrieved.

```
RTRV-PM-VT1::EC1VT1-97-7-4::ALSV;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of P71048. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P71048 COMPLD
"EC1VT1-97-7-4,VT1:ALS-V,1,PRTL,NEND,RCV,15-MIN,01-18,10-30"
"EC1VT1-97-7-4,VT1:ALS-V,0,PRTL,FEND,RCV,15-MIN,01-18,10-30"
/* RTRV-PM-VT1::EC1VT1-97-7-4::ALSV [P71048] (2) */
;
```

In the following example, the 15-minute historical near-end errored seconds, VT path (ES-V) PM data that was accumulated for VT1.5 port EC1VT1-383-5-3 on January 18th for the collection period beginning at 8:15 am is retrieved.

```
RTRV-PM-VT1::EC1VT1-383-5-3::ESV,0-UP,NEND,,15-MIN,1-18,8-20;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of P71049. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P71049 COMPLD
"EC1VT1-383-5-3,VT1:ESV,0,CMPL,NEND,RCV,15-MIN,01-18,08-15"
/* RTRV-PM-VT1::EC1VT1-383-5-3::ESV,0-UP,NEND,,15-MIN,1-18,8-20
[P71049] (2) */
;
```

RELATED COMMANDS

```
ENT-VT1
INIT-REG-VT1
RTRV-DFLTTH-VT1
RTRV-PMATTR-ALL
RTRV-PMMODE-VT1
RTRV-TH-VT1
SET-DFLTTH-VT1
SET-PMATTR-ALL
SET-PMMODE-VT1
SET-TH-VT1
```

3AL45392AJ

Issue 01, February 2005

RELATED AUTONOMOUS RESPONSES

REPT^EVT^VT1

REPT^PM^VT1

COMMAND CODE: **RTRV-PMATTR-ALL**
COMMAND NAME: **RETRIEVE PERFORMANCE
MONITORING ATTRIBUTES ALL**

PURPOSE

The RTRV-PMATTR-ALL command retrieves the system-wide PM attributes. Threshold Crossing Alert (TCA) attributes and the REPTPMFILERDY attribute are supported. (Also refer to SET-PMATTR-ALL.)

A RTRV-PMATTR-ALL command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-PMATTR-ALL: [TID] : : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M <CTAG> COMPLD  
"TCA=<value>,REPTPMFILERDY=<value>"  
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]  
;
```

OUTPUT PARAMETERS

TCA=	{A, R} Threshold Crossing Alert, indicates whether autonomous messages for the indicated threshold crossing alerts (TCA) are allowed or restricted during the remainder of a 15-minute monitor period for which a corresponding facility failure is detected. The following TCAs are affected:
------	---

Facility Type	Facility Failure	Threshold Crossing Alerts (TCAs) Affected
OC12	LOS or LOF	T-CVS, T-ESS, T-ESA-S, T-ESB-S, T-LOSS, T-SEFS, T-SESS
	AIS-L	T-CVL, T-ESL, T-ESA-L, T-ESB-L, T-FC-L, T-SESL, T-UASL
	RFI-L	(Far-End):T-CVL, T-ESL, T-ESA-L, T-ESB-L, T-FC-L, T-SESL, T-UASL
OC3	LOS or LOF	T-CVS, T-ESS, T-ESA-S, T-ESB-S, T-LOSS, T-SEFS, T-SESS
	AIS-L	T-CVL, T-ESL, T-ESA-L, T-ESB-L, T-FC-L, T-SESL, T-UASL
	RFI-L	(Far-End):T-CVL, T-ESL, T-ESA-L, T-ESB-L, T-FC-L, T-SESL, T-UASL
EC1	LOS or LOF	T-LOSS, T-SEFS
	AIS-L	T-CVL, T-ESL, T-ESA-L, T-ESB-L, T-SESL, T-UASL
	RFI-L	(Far-End):T-ESL, T-FC-L, T-SESL, T-UASL
STS-1	AIS-P or LOP-P	T-ALS-P, T-CVP T-ESP, T-ESA-P, T-ESB-P, T-FC-P, T-SESP, T-UASP
	RFI-P	(Far-End):T-ALS-P, T-CVP, T-ESP, T-ESA-P, T-ESB-P, T-FC-P, T-SESP, T-UASP
STS-3C	AIS-P or LOP-P	T-ALS-P, T-CVP T-ESP, T-ESA-P, T-ESB-P, T-FC-P, T-SESP, T-UASP
	RFI-P	(Far-End):T-ALS-P, T-CVP, T-ESP, T-ESA-P, T-ESB-P, T-FC-P, T-SESP, T-UASP
VT1.5	AIS-V or LOP-V	T-ALS-V, T-CVV T-ESV, T-ESA-V, T-ESB-V, T-FC-V, T-SESV, T-UASV
	RFI-V	(Far-End):T-ALS-V, T-CVV, T-ESV, T-ESA-V, T-ESB-V, T-FC-V, T-SESV, T-UASV
DS3	LOS	T-CVL, T-ESL, T-ESA-L, T-ESB-L, T-LOSS, T-SESL
	LOF or AIS	T-AISS, T-CVP, T-ESP, T-ESA-P, T-ESB-P, T-FC-P, T-SAS-P, T-SESP, T-UASP, T-CVCP-P, T-ESCP-P, T-ESACP-P, T-ESBCP-P, T-SESCP-P, T-UASCP-P
	RAI	(Far-End):T-CVCP-P, T-ESCP-P, T-ESACP-P, T-ESBCP-P, T-FCCP-P, T-SASCP-P, T-SESCP-P, T-UASCP-P

Facility Type	Facility Failure	Threshold Crossing Alerts (TCAs) Affected
DS1	LOS	T-CVL, T-ESL, T-LOSS, T-SESL
	LOF, AIS, or AIS-CI	T-AISS, T-CVP, T-ESP, T-ESA-P, T-ESB-P, T-FC-P, T-SAS-P, T-SESP, T-UASP, T-ESNP, T-SESNP, T-UASNP
	RAI or RAI-CI	(Far-End):T-CSS, T-CVP, T-ESP, T-ESA-P, T-ESB-P, T-FC-P, T-SEFS, T-SESP, T-UASP, T-ESNP, T-SESNP, T-UASNP

Other TCAs for other PM parameters are not affected. Refer to Appendix F, Monitored PM Parameters for a list of all monitored PM parameters. Values are:

- A Allowed, indicates that threshold crossing alerts are generated regardless of whether the associated facility has failed.
- R Restricted, indicates that threshold crossing alerts for the affected PM parameters (see above) are not generated for the remainder of any 15-minute monitor period for which the associated facility has failed.

REPTPMFILERDY REPORT PM FILE READY

{Y, N}

Report PM File Ready is a flag that indicates if the event message of PMFILERDY needs to be generated and displayed to the customer. Values are:

- Y Yes, the transient event PMFILERDY message needs to be generated and displayed.
- N No, the transient event PMFILERDY message does not need to be generated and displayed.

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/ * <Informational Error Description Text> */]
[/ * <Expanded Error Code Description> */]
[/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

SDBE Status, internal Data Base Error
/* Error reading pm attribute database file. */

EXAMPLES

In the following example, the system-wide PM attribute settings are retrieved.

```
RTRV-PMATTR-ALL;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of P18005. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M P18005 COMPLD  
"TCA=A,REPTPMFILERDY=Y"  
/* RTRV-PMATTR-ALL [P18005] (2) */  
;
```

RELATED COMMANDS

INIT-REG-EC1
INIT-REG-OC3
INIT-REG-OC12
INIT-REG-STS1
INIT-REG-STS3C
INIT-REG-T1
INIT-REG-T3
INIT-REG-VT1
RTRV-PM-EC1
RTRV-PM-OC3
RTRV-PM-OC12
RTRV-PM-STS1
RTRV-PM-STS3C
RTRV-PM-T1
RTRV-PM-T3
RTRV-PM-VT1
RTRV-PMODE-EC1
RTRV-PMODE-OC3
RTRV-PMODE-OC12
RTRV-PMODE-STS1
RTRV-PMODE-STS3C
RTRV-PMODE-T1
RTRV-PMODE-T3
RTRV-PMODE-VT1
RTRV-TH-EC1
RTRV-TH-OC3
RTRV-TH-OC12
RTRV-TH-STS1
RTRV-TH-STS3C
RTRV-TH-T1
RTRV-TH-T3
RTRV-TH-VT1
SET-PMATTR-ALL
SET-PMODE-EC1
SET-PMODE-OC3
SET-PMODE-OC12
SET-PMODE-STS1
SET-PMODE-STS3C
SET-PMODE-T1
SET-PMODE-T3
SET-PMODE-VT1
SET-TH-EC1
SET-TH-OC3
SET-TH-OC12
SET-TH-STS1
SET-TH-STS3C
SET-TH-T1
SET-TH-T3
SET-TH-VT1

RELATED AUTONOMOUS RESPONSES

REPT^EVT^EC1

REPT^EVT^OC3
REPT^EVT^OC12
REPT^EVT^STS1
REPT^EVT^STS3C
REPT^EVT^T1
REPT^EVT^T3
REPT^EVT^VT1

COMMAND CODE: **RTRV-PMODE-EC1**
COMMAND NAME: **RETRIEVE PERFORMANCE
MONITORING MODE EC1**

PURPOSE

The RTRV-PMODE-EC1 command retrieves the PM mode type setting (whether near-end section or line PM data collection or far-end line PM data collection is enabled) for the specified EC1 port. (Refer to the SET-PMODE-EC1 command for additional information.)

The successful response for a RTRV-PMODE-EC1 command contains one line of parsable output data for each near-end or far-end PM mode type setting being reported, in ascending order (from the lowest specified EC1 AID to the highest specified EC1 AID) for each EC1 AID specified. A line of parsable output data is only displayed if the specified AID is provisioned (via ENT-EC1).

A RTRV-PMODE-EC1 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-PMODE-EC1 : [TID] : AID : [CTAG] : : [LOCN] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	EC1_AID: {EC1-{1-3840} } (EC1-EC1/STS1#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: EC1 AID, identifies the EC1 port.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
LOCN	{FEND, NEND} Default: < All applicable locations > Addressing: None Description: Location. specifies whether the PM mode for near-end or far-end PM monitoring is to be retrieved. Values are: FEND Far-End NEND Near-End

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M <CTAG> COMPLD  
"<AID> : <LOCN> , <MODETYPE>"  
[/ * <Command Echo> [<CTAG>] (<CID [-VCNUM] >) */]  
;
```

OUTPUT PARAMETERS

AID	EC1_AID: {EC1-{1-3840} } (EC1-EC1/STS1#) EC1 AID, identifies the EC1 port.
-----	--

LOCN	{FEND, NEND}	Location, indicates whether the report line pertains to near-end or far-end monitored parameters. Values are:
	FEND	Far-End
	NEND	Near-End
MODETYPE	{L, L&S, NONE, S}	Mode Type, indicates the type of PM parameters that are being monitored. Values are:
	L	Line PM parameters are being monitored.
	L&S	Line and Section PM parameters are being monitored.
	NONE	None, no PM parameters are being monitored.
	S	Section PM parameters are being monitored.

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid /* Invalid location in request message. */
IIAC	Input, Invalid ACcess identifier /* Invalid AID entered. */ /* AID not in partition. */
SDBE	Status, internal Data Base Error /* Failed to set pointer to FM EC1 record. */ /* Failed to set file ptr to EC1 pmmode database. */
SROF	Status, Requested Operation Failed /* Unable to determine supporting facility entity. */ /* Unable to determine facility type. */ /* rpt_file error - <ERRNO>, status = <STATUS> */ /* Cannot open <FILENAME> */ /* nrl_rpt_print error - no transaction, msgtype = <MSGTYPE> */ /* rpt_print error - <ERRNO>, status = <STATUS> */ /* Failed to convert TPid to an AID string. */

EXAMPLES

In the following example, the PM mode setting for near-end and far-end PM parameters for EC1 port EC1-105 is retrieved.

```
RTRV-PMODE-EC1::EC1-105;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of P71048. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

The response shown assumes PM monitoring of all near-end and far-end parameters is enabled for EC1 port EC1-105.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P71048 COMPLD
  "EC1-105:NEND,L&S"
  "EC1-105:FEND,L"
/* RTRV-PMODE-EC1::EC1-105 [P71048] (2) */
;
```

In the following example, the PM mode setting for near-end PM parameters for EC1 port EC1-2 is retrieved.

```
RTRV-PMODE-EC1::EC1-2::NEND;
```

The output response, shown below, assumes CID 3 was used to enter the command and a system generated CTAG value of P71049. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

The response shown assumes PM monitoring of near-end parameters is disabled for EC1 port EC1-2.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P71049 COMPLD
  "EC1-2:NEND,NONE"
/* RTRV-PMODE-EC1::EC1-2::NEND [P71049] (3) */
;
```

RELATED COMMANDS

```
INIT-REG-EC1
RTRV-DFLTTH-EC1
RTRV-PM-EC1
RTRV-PMATTR-ALL
RTRV-TH-EC1
SET-DFLTTH-EC1
SET-PMATTR-ALL
SET-PMODE-EC1
SET-TH-EC1
```

RELATED AUTONOMOUS RESPONSES

```
REPT^EVT^EC1
```


COMMAND CODE: RTRV-PMMODE-F3
COMMAND NAME: RETRIEVE PERFORMANCE
MONITORING MODE F3

PURPOSE

The RTRV-PMMODE-F3 command retrieves the PM mode type setting (whether path PM data collection is enabled) for the specified Fractional-T3. (Refer to the SET-PMMODE-F3 command for additional information.)

The successful response for a RTRV-PMMODE-F3 command contains one line of parsable output data for each PM mode type setting being reported, in ascending order (from the lowest specified F3 AID to the highest specified F3 AID) for each F3 AID specified. A line of parsable output data is only displayed if the specified AID is provisioned (via ENT-F3).

A RTRV-PMMODE-F3 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-PMMODE-F3 : [TID] : AID : [CTAG] : : [LOCN] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	F3_AID: {T3F3-{1-4800}-{1-14}} (T3F3-DS3#-Fractional_DS3#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: F3 AID, identifies the Fractional-T3.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
LOCN	{NEND} Default: <All applicable locations> Addressing: None Description: Location. specifies whether the PM mode for near-end or far-end PM monitoring is to be retrieved. Value is: NEND Near-End.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
"<AID>: <LOCN>, <MODETYPE>"
[/* <Command Echo> [<CTAG>] (<CID [-VCNUM] >) */]
;
```

OUTPUT PARAMETERS

AID	F3_AID: {T3F3-{1-4800}-{1-14}} (T3F3-DS3#-Fractional_DS3#) F3 AID, identifies the Fractional-T3.
-----	--

LOCN	{NEND}	Location, indicates whether the report line pertains to near-end or far-end monitored parameters. Value is:
	NEND	Near-End
MODETYPE	{N, NONE}	Mode Type, indicates the type of PM parameters that are being monitored. Values are:
	N	N T1 Path, Path PM parameters are to be monitored and summarized for all DS1s assigned to the F3.
	NONE	None, no PM parameters are being monitored.

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid /* Invalid location in request message. */
IIAC	Input, Invalid ACcess identifier /* Invalid AID entered. */ /* AID not in partition. */
SDBE	Status, internal Data Base Error /* Failed to set pointer to FM F3 record. */ /* Failed to set file ptr to F3 pmmode database. */
SROF	Status, Requested Operation Failed /* Unable to determine supporting facility entity. */ /* Unable to determine facility type. */ /* rpt_file error – <ERRNO>, status = <STATUS> */ /* Cannot open <FILENAME> */ /* nrl_rpt_print error – no transaction, msgtype = <MSGTYPE> */ /* rpt_print error – <ERRNO>, status = <STATUS> */ /* Failed to convert TPid to an AID string. */

EXAMPLES

In the following example, the PM mode setting for the PM parameters for Fractional-T3 T3F3-1057-8 is retrieved.

```
RTRV-PMODE-F3::T3F3-1057-8;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of P71048. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M P71048 COMPLD  
"T3F3-1057-8:NEND,N"  
/* RTRV-PMODE-F3::T3F3-1057-8 [P71048] (2) */  
;
```

RELATED COMMANDS

```
INIT-REG-F3  
RTRV-PM-F3  
SET-PMODE-F3
```


COMMAND CODE: **RTRV-PMODE-OC12**
COMMAND NAME: **RETRIEVE PERFORMANCE
MONITORING MODE OC-12**

PURPOSE

The RTRV-PMODE-OC12 command retrieves the PM mode type setting (whether near-end section or line PM data collection or far-end line PM data collection is enabled) for the specified OC12 port. (Refer to the SET-PMODE-OC12 command for additional information.)

The successful response for a RTRV-PMODE-OC12 command contains one line of parsable output data for each near-end or far-end PM mode type setting being reported, in ascending order (from the lowest specified OC12 AID to the highest specified OC12 AID) for each OC12 AID specified. A line of parsable output data is only displayed if the specified AID is provisioned (via ENT-OC12).

A RTRV-PMODE-OC12 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-PMODE-OC12 : [TID] : AID : [CTAG] : : [LOCN] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	OC12_AID: {OC12-{1-560}} (OC12-OC12#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: OC12 AID, identifies the OC-12 port.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
LOCN	{FEND, NEND} Default: < All applicable locations > Addressing: None Description: Location. specifies whether the PM mode for near-end or far-end PM monitoring is to be retrieved. Values are: FEND Far-End NEND Near-End

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M <CTAG> COMPLD  
"<AID>:<LOCN>,<MODETYPE>"  
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]  
;
```

OUTPUT PARAMETERS

AID	OC12_AID: {OC12-{1-560}} (OC12-OC12#) OC12 AID, identifies the OC-12 port.
-----	--

LOCN	{FEND, NEND}	Location, indicates whether the report line pertains to near-end or far-end monitored parameters. Values are:
	FEND	Far-End
	NEND	Near-End
MODETYPE	{L, L&S, NONE, S}	Mode Type, indicates the type of PM parameters that are being monitored. Values are:
	L	Line PM parameters are being monitored.
	L&S	Line and Section PM parameters are being monitored.
	NONE	None, no PM parameters are being monitored.
	S	Section PM parameters are being monitored.

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid /* Invalid location in request message. */
IIAC	Input, Invalid ACcess identifier /* Invalid AID entered. */ /* AID not in partition. */
SDBE	Status, internal Data Base Error /* Failed to set pointer to FM OC12 record. */ /* Failed to set file ptr to OC12 pmmode database. */
SROF	Status, Requested Operation Failed /* Unable to determine supporting facility entity. */ /* Unable to determine facility type. */ /* rpt_file error - <ERRNO>, status = <STATUS> */ /* Cannot open <FILENAME> */ /* nrl_rpt_print error - no transaction, msgtype = <MSGTYPE> */ /* rpt_print error - <ERRNO>, status = <STATUS> */ /* Failed to convert TPid to an AID string. */

EXAMPLES

In the following example, the PM mode setting for near-end and far-end PM parameters for OC12 port OC12-115 is retrieved.

```
RTRV-PMODE-OC12::OC12-115;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of P71048. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

The response shown assumes PM monitoring of all near-end and far-end parameters is enabled for OC12 port OC12-115.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M  P71048  COMPLD
   "OC12-115:NEND,L&S"
   "OC12-115:FEND,L"
/*  RTRV-PMODE-OC12::OC12-115  [P71048]  (2)  */
;
```

In the following example, the PM mode setting for near-end PM parameters for OC12 port OC12-118 is retrieved.

```
RTRV-PMODE-OC12::OC12-118::NEND;
```

The output response, shown below, assumes CID 3 was used to enter the command and a system generated CTAG value of P71049. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

The response shown assumes PM monitoring of near-end parameters is disabled for OC12 port OC12-118.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M  P71049  COMPLD
   "OC12-118:NEND,NONE"
/*  RTRV-PMODE-OC12::OC12-118::NEND  [P71049]  (3)  */
;
```

RELATED COMMANDS

```
INIT-REG-OC12
RTRV-DFLTTH-OC12
RTRV-PM-OC12
RTRV-PMATTR-ALL
RTRV-TH-OC12
SET-DFLTTH-OC12
SET-PMATTR-ALL
SET-PMODE-OC12
SET-TH-OC12
```

RELATED AUTONOMOUS RESPONSES

```
REPT^EVT^OC12
```


COMMAND CODE: RTRV-PMODE-OC3
COMMAND NAME: RETRIEVE PERFORMANCE
MONITORING MODE OC-3

PURPOSE

The RTRV-PMODE-OC3 command retrieves the PM mode type setting (whether near-end section or line PM data collection or far-end line PM data collection is enabled) for the specified OC3 port. (Refer to the SET-PMODE-OC3 command for additional information.)

The successful response for a RTRV-PMODE-OC3 command contains one line of parsable output data for each near-end or far-end PM mode type setting being reported, in ascending order (from the lowest specified OC3 AID to the highest specified OC3 AID) for each OC3 AID specified. A line of parsable output data is only displayed if the specified AID is provisioned (via ENT-OC3).

A RTRV-PMODE-OC3 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-PMODE-OC3 : [TID] : AID : [CTAG] : : [LOCN] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	OC3_AID: {OC3-{1-2240}} (OC3-OC3#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: OC3 AID, identifies the OC-3 port.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
LOCN	{FEND, NEND} Default: < All applicable locations > Addressing: None Description: Location. specifies whether the PM mode for near-end or far-end PM monitoring is to be retrieved. Values are: FEND Far-End NEND Near-End

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M <CTAG> COMPLD  
"<AID>:<LOCN>,<MODETYPE>"  
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]  
;
```

OUTPUT PARAMETERS

AID	OC3_AID: {OC3-{1-2240}} (OC3-OC3#) OC3 AID, identifies the OC-3 port.
-----	---

LOCN	{FEND, NEND}	Location, indicates whether the report line pertains to near-end or far-end monitored parameters. Values are:
	FEND	Far-End
	NEND	Near-End
MODETYPE	{L, L&S, NONE, S}	Mode Type, indicates the type of PM parameters that are being monitored. Values are:
	L	Line PM parameters are being monitored.
	L&S	Line and Section PM parameters are being monitored.
	NONE	None, no PM parameters are being monitored.
	S	Section PM parameters are being monitored.

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid /* Invalid location in request message. */
IIAC	Input, Invalid ACcess identifier /* Invalid AID entered. */ /* AID not in partition. */
SDBE	Status, internal Data Base Error /* Failed to set pointer to FM OC3 record. */ /* Failed to set file ptr to OC3 pmmode database. */
SROF	Status, Requested Operation Failed /* Unable to determine supporting facility entity. */ /* Unable to determine facility type. */ /* rpt_file error - <ERRNO>, status = <STATUS> */ /* Cannot open <FILENAME> */ /* nrl_rpt_print error - no transaction, msgtype = <MSGTYPE> */ /* rpt_print error - <ERRNO>, status = <STATUS> */ /* Failed to convert TPid to an AID string. */

EXAMPLES

In the following example, the PM mode setting for near-end and far-end PM parameters for OC3 port OC3-115 is retrieved.

```
RTRV-PMODE-OC3::OC3-115;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of P71048. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

The response shown assumes PM monitoring of all near-end and far-end parameters is enabled for OC3 port OC3-115.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P71048 COMPLD
  "OC3-115:NEND,L&S"
  "OC3-115:FEND,L"
/* RTRV-PMODE-OC3::OC3-115 [P71048] (2) */
;
```

In the following example, the PM mode setting for near-end PM parameters for OC3 port OC3-118 is retrieved.

```
RTRV-PMODE-OC3::OC3-118::NEND;
```

The output response, shown below, assumes CID 3 was used to enter the command and a system generated CTAG value of P71049. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

The response shown assumes PM monitoring of near-end parameters is disabled for OC3 port OC3-118.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P71049 COMPLD
  "OC3-118:NEND,NONE"
/* RTRV-PMODE-OC3::OC3-118::NEND [P71049] (3) */
;
```

RELATED COMMANDS

```
INIT-REG-OC3
RTRV-DFLTTH-OC3
RTRV-PM-OC3
RTRV-PMATTR-ALL
RTRV-TH-OC3
SET-DFLTTH-OC3
SET-PMATTR-ALL
SET-PMODE-OC3
SET-TH-OC3
```

RELATED AUTONOMOUS RESPONSES

```
REPT^EVT^OC3
```


COMMAND CODE: **RTRV-PMODE-STS1**
COMMAND NAME: **RETRIEVE PERFORMANCE
MONITORING MODE STS-1**

PURPOSE

The RTRV-PMODE-STS1 command retrieves the PM mode type setting (whether near-end or far-end path PM data collection is enabled) for the specified STS-1 port. (Refer to the SET-PMODE-STS1 command for additional information.)

The successful response for a RTRV-PMODE-STS1 command contains one line of parsable output data for each near-end or far-end PM mode type setting being reported, in ascending order (from the lowest specified STS-1 AID to the highest specified STS-1 AID) for each STS-1 AID specified. A line of parsable output data is only displayed if the specified AID is provisioned (via ENT-STS1). In addition, no line of parsable output data is displayed if the specified STS-1 is embedded within a protection OC-3 or OC-12.

A RTRV-PMODE-STS1 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-PMODE-STS1: [TID] :AID: [CTAG] :: [LOCN] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >		
	Default:	<SID>	
	Addressing:	None	
	Description:	Target Identifier, specifies the network node TID for the command.	
AID	STS1_AID:		
	{EC1STS1-{1-3840}}	(EC1STS1-EC1/STS1#)	
	{OC3STS1-{1-2240}-{1-3}}	(OC3STS1-OC3#-STS1#)	
	{OC12STS1-{1-560}-{1-4}-{1-3}}	(OC12STS1-OC12#-STM1#-STS1#)	
	Default:	Entry Required	
	Addressing:	&&-ranging and &-grouping	
	Description:	STS1 AID, identifies the STS-1 port.	
CTAG	< 1-6 VALID CTAG CHARACTERS >		
	Default:	< System assigned CTAG value >	
	Addressing:	None	
	Description:	Correlation Tag, associates input command with its output responses.	
LOCN	{FEND, NEND}		
	Default:	< All applicable locations >	
	Addressing:	None	
	Description:	Location. specifies whether the PM mode for near-end or far-end PM monitoring is to be retrieved. Values are:	
	FEND	Far-End	
	NEND	Near-End	

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
"<AID>:<LOCN>,<MODETYPE>"
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

AID	STS1_AID: {EC1STS1-{1-3840}} {OC3STS1-{1-2240}-{1-3}} {OC12STS1-{1-560}-{1-4}-{1-3}} STS1 AID, identifies the STS-1 port.	(EC1STS1-EC1/STS1#) (OC3STS1-OC3#-STS1#) (OC12STS1-OC12#-STM1#-STS1#)
LOCN	{FEND, NEND} Location, indicates whether the report line pertains to near-end or far-end monitored parameters. Values are: FEND Far-End NEND Near-End	
MODETYPE	{NONE, P} Mode Type, indicates the type of PM parameters that are being monitored. Values are: NONE None, no PM parameters are being monitored. P Path PM parameters are being monitored.	

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid /* Invalid location in request message. */
IIAC	Input, Invalid ACcess identifier /* Invalid AID entered. */ /* AID not in partition. */
SDBE	Status, internal Data Base Error /* Failed to set pointer to FM STS1 record. */ /* Failed to set file ptr to STS1 pmmode database. */
SROF	Status, Requested Operation Failed /*Unable to determine supporting facility entity. */ /* Unable to determine facility type. */ /* rpt_file error - <ERRNO>, status = <STATUS> */ /* Cannot open <FILENAME> */ /* nrl_rpt_print error - no transaction, msgtype = <MSGTYPE> */ /* rpt_print error - <ERRNO>, status = <STATUS> */ /* Failed to convert TPid to an AID string. */

EXAMPLES

In the following example, the PM mode setting for near-end and far-end PM parameters for STS-1 port EC1STS1-115 is retrieved.

```
RTRV-PMODE-STS1::EC1STS1-115;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of P71048. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

The response shown assumes PM monitoring of near-end path and far-end path parameters is enabled for STS-1 port EC1STS1-115.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M  P71048  COMPLD
    "EC1STS1-115:NEND,P"
    "EC1STS1-115:FEND,P"
/*  RTRV-PMODE-STS1::EC1STS1-115  [P71048]  (2)  */
;
```

In the following example, the PM mode setting for near-end PM parameters for STS-1 port EC1STS1-2 is retrieved.

```
RTRV-PMODE-STS1::EC1STS1-2::NEND;
```

The output response, shown below, assumes CID 3 was used to enter the command and a system generated CTAG value of P71049. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

The response shown assumes PM monitoring of near-end parameters is disabled for STS-1 port EC1STS1-2.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M  P71049  COMPLD
    "EC1STS1-2:NEND,NONE"
/*  RTRV-PMODE-STS1::EC1STS1-2::NEND  [P71049]  (3)  */
;
```

RELATED COMMANDS

```
INIT-REG-STS1
RTRV-DFLTTH-STS1
RTRV-PM-STS1
RTRV-PMATTR-ALL
RTRV-TH-STS1
SET-DFLTTH-STS1
SET-PMATTR-ALL
SET-PMODE-STS1
SET-TH-STS1
```

RELATED AUTONOMOUS RESPONSES

```
REPT^EVT^STS1
```


COMMAND CODE: **RTRV-PMMODE-STS3C**
COMMAND NAME: **RETRIEVE PERFORMANCE
MONITORING MODE STS-3C**

PURPOSE

The RTRV-PMMODE-STS3C command retrieves the PM mode type setting (whether near-end or far-end path PM data collection is enabled) for the specified STS-3C port. (Refer to the SET-PMMODE-STS3C command for additional information.)

The successful response for a RTRV-PMMODE-STS3C command contains one line of parsable output data for each near-end or far-end PM mode type setting being reported, in ascending order (from the lowest specified STS-3C AID to the highest specified STS-3C AID) for each STS-3C AID specified. A line of parsable output data is only displayed if the specified AID is provisioned (via ENT-STS3C). In addition, no line of parsable output data is displayed if the specified STS-3C is embedded within a protection OC-3 or OC-12.

A RTRV-PMMODE-STS3C command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-PMMODE-STS3C: [TID] :AID: [CTAG] : : [LOCN] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	STS3C_AID: {OC3STS3C-{1-2240}} (OC3STS3C-OC3#/STS3C#) {OC12STS3C-{1-560}-{1-4}} (OC12STS3C-OC12#-STM1/STS3C#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: STS3C AID, identifies the STS-3C port.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
LOCN	{FEND, NEND} Default: < All applicable locations > Addressing: None Description: Location. specifies whether the PM mode for near-end or far-end PM monitoring is to be retrieved. Values are: FEND Far-End NEND Near-End

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  "<AID>:<LOCN>,<MODETYPE>"
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

AID	STS3C_AID: {OC3STS3C-{1-2240}} {OC12STS3C-{1-560}}-{1-4}} STS3C AID, identifies the STS-3C port.	(OC3STS3C-OC3#/STS3C#) (OC12STS3C-OC12#-STM1/STS3C#)
LOCN	{FEND, NEND} Location, indicates whether the report line pertains to near-end or far-end monitored parameters. Values are: FEND Far-End NEND Near-End	
MODETYPE	{NONE, P} Mode Type, indicates the type of PM parameters that are being monitored. Values are: NONE None, no PM parameters are being monitored. P Path PM parameters are being monitored.	

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid /* Invalid location in request message. */
IIAC	Input, Invalid ACcess identifier /* Invalid AID entered. */ /* AID not in partition. */
SDBE	Status, internal Data Base Error /* Failed to set pointer to FM STS3C record. */ /* Failed to set file ptr to STS3C pmmode database. */
SROF	Status, Requested Operation Failed /* Unable to determine supporting facility entity. */ /* Unable to determine facility type. */ /* rpt_file error - <ERRNO>, status = <STATUS> */ /* Cannot open <FILENAME> */ /* nrl_rpt_print error - no transaction, msgtype = <MSGTYPE> */ /* rpt_print error - <ERRNO>, status = <STATUS> */ /* Failed to convert TPid to an AID string. */

EXAMPLES

In the following example, the PM mode setting for near-end and far-end PM parameters for STS-3C port OC3STS3C-8 is retrieved.

```
RTRV-PMODE-STS3C : OC3STS3C-8 ;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of P71048. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

The response shown assumes PM monitoring of near-end path and far-end path parameters is enabled for STS-3C port OC3STS3C-8.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M <CTAG> COMPLD  
  "OC3STS3C-8:NEND,P"  
  "OC3STS3C-8:FEND,P"  
/* RTRV-PMODE-STS3C:OC3STS3C-8 [P71048] (2) */  
;
```

In the following example, the PM mode setting for near-end PM parameters for STS-3C port OC3STS3C-2 is retrieved.

```
RTRV-PMODE-STS3C : OC3STS3C-2::NEND ;
```

The output response, shown below, assumes CID 3 was used to enter the command and a system generated CTAG value of P71049. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

The response shown assumes PM monitoring of near-end parameters is disabled for STS-3C port OC3STS3C-2.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M <CTAG> COMPLD  
  "OC3STS3C-2:NEND,NONE"  
/* RTRV-PMODE-STS3C:OC3STS3C-2::NEND [P71049] (3) */  
;
```

RELATED COMMANDS

```
INIT-REG-STS3C  
RTRV-DFLTH-STS3C  
RTRV-PM-STS3C  
RTRV-PMATTR-ALL  
RTRV-TH-STS3C  
SET-DFLTH-STS3C  
SET-PMATTR-ALL  
SET-PMODE-STS3C  
SET-TH-STS3C
```

RELATED AUTONOMOUS RESPONSES

```
REPT^EVT^STS3C
```


COMMAND CODE: RTRV-PMMODE-T1
COMMAND NAME: RETRIEVE PERFORMANCE
MONITORING MODE T1

PURPOSE

The RTRV-PMMODE-T1 command retrieves the PM mode type setting (whether near-end line or path PM data collection or far-end line or path PM data collection is enabled) for the specified DS1 port. (Refer to the SET-PMMODE-T1 command for additional information.)

The successful response for a RTRV-PMMODE-T1 command contains one line of parsable output data for each near-end or far-end PM mode type setting being reported, in ascending order (from the lowest specified DS1 AID to the highest specified DS1 AID) for each DS1 AID specified. A line of parsable output data is only displayed if the specified AID is provisioned (via ENT-T1). In addition, no line of parsable output data is displayed if the specified DS1 is embedded within a protection OC-3 or OC-12.

A RTRV-PMMODE-T1 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-PMMODE-T1 : [TID] : AID : [CTAG] : : [LOCN] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	DS1_AID: { T1-{1-59392} } (T1-DS1#) { T3T1-{1-4800}-{1-28} } (T3T1-DS3#-DS1#) { EC1T1-{1-3840}-{1-28} } (EC1T1-EC1/STS1/DS3#-DS1#) { EC1T1-{1-3840}-{1-7}-{1-4} } (EC1T1-EC1/STS1#-VTGrp#-VT1/DS1#) { OC3T1-{1-2240}-{1-3}-{1-28} } (OC3T1-OC3#-STS1/DS3#-DS1#) { OC3T1-{1-2240}-{1-3}-{1-7}-{1-4} } (OC3T1-OC3#-STS1#-VTGrp#-VT1/DS1#) { OC12T1-{1-560}-{1-4}-{1-3}-{1-28} } (OC12T1-OC12#-STM1#-STS1/DS3#-DS1#) { OC12T1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4} } (OC12T1-OC12#-STM1#-STS1#-VTGrp#-VT1/DS1#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: DS1 AID, identifies the DS1 port.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
LOCN	{FEND, NEND} Default: < All applicable locations > Addressing: None Description: Location. specifies whether the PM mode for near-end or far-end PM monitoring is to be retrieved. Values are: FEND Far-End NEND Near-End Restrictions: RTRV-PMMODE-T1 is denied if a value of LOCN=FEND is used and the "FDL based Far End Performance Monitoring" PFO is not enabled.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  "<AID>:<LOCN>,<MODETYPE>"
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

OUTPUT PARAMETERS

AID	DS1_AID: {T1-{1-59392}} (T1-DS1#) {T3T1-{1-4800}-{1-28}} (T3T1-DS3#-DS1#) {EC1T1-{1-3840}-{1-28}} (EC1T1-EC1/STS1/DS3#-DS1#) {EC1T1-{1-3840}-{1-7}-{1-4}} (EC1T1-EC1/STS1#-VTGrp#-VT1/DS1#) {OC3T1-{1-2240}-{1-3}-{1-28}} (OC3T1-OC3#-STS1/DS3#-DS1#) {OC3T1-{1-2240}-{1-3}-{1-7}-{1-4}} (OC3T1-OC3#-STS1#-VTGrp#-VT1/DS1#) {OC12T1-{1-560}-{1-4}-{1-3}-{1-28}} (OC12T1-OC12#-STM1#-STS1/DS3#-DS1#) {OC12T1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}} (OC12T1-OC12#-STM1#-STS1#-VTGrp#-VT1/DS1#) DS1 AID, identifies the DS1 port.
LOCN	{FEND, NEND} Location, indicates whether the report line pertains to near-end or far-end monitored parameters. Values are: FEND Far-End NEND Near-End
MODETYPE	{L, L&P, NONE, P} Mode Type, indicates the type of PM parameters that are being monitored. Values are: L Line PM parameters are being monitored. L&P Line and Path PM parameters are being monitored. NONE None, no PM parameters are being monitored. P Path PM parameters are being monitored.

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid /* Invalid location in request message. */
IIAC	Input, Invalid ACcess identifier /* Invalid AID entered. */ /* AID not in partition. */
SDBE	Status, internal Data Base Error /* Failed to set pointer to FM T1 record. */ /* Failed to set file ptr to T1 pmmode database. */

SROF Status, Requested Operation Failed
 /* Unable to determine supporting facility entity. */
 /* Unable to determine facility type. */
 /* rpt_file error – <ERRNO>, status = <STATUS> */
 /* Cannot open <FILENAME> */
 /* nrl_rpt_print error – no transaction, msgtype = <MSGTYPE> */
 /* rpt_print error – <ERRNO>, status = <STATUS> */
 /* Failed to convert TPid to an AID string. */

EXAMPLES

In the following example, the PM mode setting for near-end and far-end PM parameters for DS1 port T3T1-1057-8 is retrieved.

```
RTRV-PMODE-T1::T3T1-1057-8;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of P71048. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

The response shown assumes PM monitoring of near-end path and far-end line and path parameters is enabled for DS1 port T3T1-1057-8.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M <CTAG> COMPLD  
  "T3T1-1057-8:NEND,P"  
  "T3T1-1057-8:FEND,L&P"  
/* RTRV-PMODE-T1::T3T1-1057-8 [P71048] (2) */  
;
```

In the following example, the PM mode setting for near-end PM parameters for DS1 port T3T1-961-2 is retrieved.

```
RTRV-PMODE-T1::T3T1-961-2::NEND;
```

The output response, shown below, assumes CID 3 was used to enter the command and a system generated CTAG value of P71049. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

The response shown assumes PM monitoring of near-end parameters is disabled for DS1 port T3T1-961-2.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M <CTAG> COMPLD  
  "T3T1-961-2:NEND,NONE"  
/* RTRV-PMODE-T1::T3T1-961-2::NEND [P71049] (3) */  
;
```

RELATED COMMANDS

```
INIT-REG-T1  
RTRV-DFLTTH-T1  
RTRV-PM-T1  
RTRV-PMATTR-ALL  
RTRV-TH-T1  
SET-DFLTTH-T1  
SET-PMATTR-ALL  
SET-PMODE-T1  
SET-TH-T1
```

RELATED AUTONOMOUS RESPONSES

```
REPT^EVT^T1
```


COMMAND CODE: **RTRV-PMMODE-T3**
COMMAND NAME: **RETRIEVE PERFORMANCE
MONITORING MODE T3**

PURPOSE

The RTRV-PMMODE-T3 command retrieves the PM mode type setting (whether near-end line or path PM data collection or far-end path PM data collection is enabled) for the specified DS3 port. (Refer to the SET-PMMODE-T3 command for additional information.)

The successful response for a RTRV-PMMODE-T3 command contains one line of parsable output data for each near-end or far-end PM mode type setting being reported, in ascending order (from the lowest specified DS3 AID to the highest specified DS3 AID) for each DS3 AID specified. A line of parsable output data is only displayed if the specified AID is provisioned (via ENT-T3). In addition, no line of parsable output data is displayed if the specified DS3 is embedded within a protection OC3.

A RTRV-PMMODE-T3 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-PMMODE-T3 : [TID] : AID : [CTAG] : : [LOCN] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >	
	Default:	<SID>
	Addressing:	None
	Description:	Target Identifier, specifies the network node TID for the command.
AID	DS3_AID:	
	{T3-{1-4800}}	(T3-DS3#)
	{EC1T3-{1-3840}}	(EC1T3-EC1/STS1/DS3#)
	{OC3T3-{1-2240}-{1-3}}	(OC3T3-OC3#-STS1/DS3#)
	{OC12T3-{1-560}-{1-4}-{1-3}}	(OC12T3-OC12#-STM1#-STS1/DS3#)
	Default:	Entry Required
	Addressing:	&&-ranging and &-grouping
	Description:	DS3 AID, identifies the DS3 port.
CTAG	< 1-6 VALID CTAG CHARACTERS >	
	Default:	< System assigned CTAG value >
	Addressing:	None
	Description:	Correlation Tag, associates input command with its output responses.
LOCN	{FEND, NEND}	
	Default:	< All applicable locations >
	Addressing:	None
	Description:	Location. specifies whether the PM mode for near-end or far-end PM monitoring is to be retrieved. Values are:
	FEND	Far-End
	NEND	Near-End

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
"<AID>:<LOCN>,<MODETYPE>"
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

AID	DS3_AID: {T3-{1-4800}} {EC1T3-{1-3840}} {OC3T3-{1-2240}-{1-3}} {OC12T3-{1-560}-{1-4}-{1-3}} DS3 AID, identifies the DS3 port.	(T3-DS3#) (EC1T3-EC1/STS1/DS3#) (OC3T3-OC3#-STS1/DS3#) (OC12T3-OC12#-STM1#-STS1/DS3#)
LOCN	{FEND, NEND} Location, indicates whether the report line pertains to near-end or far-end monitored parameters. Values are: FEND Far-End NEND Near-End	
MODETYPE	{L, L&P, NONE, P} Mode Type, indicates the type of PM parameters that are being monitored. Values are: L Line PM parameters are being monitored. L&P Line and Path PM parameters are being monitored. NONE None, no PM parameters are being monitored. P Path PM parameters are being monitored.	

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid /* Invalid location in request message. */
IIAC	Input, Invalid ACcess identifier /* Invalid AID entered. */ /* AID not in partition. */
SDBE	Status, internal Data Base Error /* Failed to set pointer to FM T3 record. */ /* Failed to set file ptr to T3 pmmode database. */
SROF	Status, Requested Operation Failed /* Unable to determine supporting facility entity. */ /* Unable to determine facility type. */ /* rpt_file error - <ERRNO>, status = <STATUS> */ /* Cannot open <FILENAME> */ /* nrl_rpt_print error - no transaction, msgtype = <MSGTYPE> */ /* rpt_print error - <ERRNO>, status = <STATUS> */ /* Failed to convert TPid to an AID string. */

EXAMPLES

In the following example, the PM mode setting for near-end and far-end PM parameters for DS3 port T3-1057 is retrieved.

```
RTRV-PMODE-T3::T3-1057;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of P71048. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

The response shown assumes PM monitoring of near-end line and path and far-end path parameters is enabled for DS3 port T3-1057.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P71048 COMPLD
  "T3-1057:NEND,L&P"
  "T3-1057:FEND,P"
/* RTRV-PMODE-T3::T3-1057 [P71048] (2) */
;
```

In the following example, the PM mode setting for near-end PM parameters for DS3 port T3-961 is retrieved.

```
RTRV-PMODE-T3::T3-961::NEND;
```

The output response, shown below, assumes CID 3 was used to enter the command and a system generated CTAG value of P71049. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

The response shown assumes PM monitoring of near-end parameters is disabled for DS3 port T3-961.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P71049 COMPLD
  "T3-961:NEND,NONE"
/* RTRV-PMODE-T3::T3-961::NEND [P71049] (3) */
;
```

RELATED COMMANDS

```
INIT-REG-T3
RTRV-DFLTTH-T3
RTRV-PM-T3
RTRV-PMATTR-ALL
RTRV-TH-T3
SET-DFLTTH-T3
SET-PMATTR-ALL
SET-PMODE-T3
SET-TH-T3
```

RELATED AUTONOMOUS RESPONSES

```
REPT^EVT^T3
```


COMMAND CODE: RTRV-PMMODE-VT1
COMMAND NAME: RETRIEVE PERFORMANCE
MONITORING MODE VT1

PURPOSE

The RTRV-PMMODE-VT1 command retrieves the PM mode type setting (whether near-end or far-end path PM data collection is enabled) for the specified VT1.5 port. (Refer to the SET-PMMODE-VT1 command for additional information.)

The successful response for a RTRV-PMMODE-VT1 command contains one line of parsable output data for each near-end or far-end PM mode type setting being reported, in ascending order (from the lowest specified VT1.5 AID to the highest specified VT1.5 AID) for each VT1.5 AID specified. A line of parsable output data is only displayed if the specified AID is provisioned (via ENT-VT1). In addition, no line of parsable output data is displayed if the specified VT1.5 is embedded within a protection OC3.

A RTRV-PMMODE-VT1 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-PMMODE-VT1 : [TID] : AID : [CTAG] : : [LOCN] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >		
	Default:	<SID>	
	Addressing:	None	
	Description:	Target Identifier, specifies the network node TID for the command.	
AID	VT1_AID:		
	{EC1VT1-{1-3840}-{1-7}-{1-4}}	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)	
	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)	
	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}		
	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)		
	Default:	Entry Required	
	Addressing:	&&-ranging and &-grouping	
	Description:	VT1 AID, identifies the VT1.5 port.	
CTAG	< 1-6 VALID CTAG CHARACTERS >		
	Default:	< System assigned CTAG value >	
	Addressing:	None	
	Description:	Correlation Tag, associates input command with its output responses.	
LOCN	{FEND, NEND}		
	Default:	< All applicable locations >	
	Addressing:	None	
	Description:	Location. specifies whether the PM mode for near-end or far-end PM monitoring is to be retrieved. Values are:	
	FEND	Far-End	
	NEND	Near-End	

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
"<AID>:<LOCN>,<MODETYPE>"
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

AID	VT1_AID: {EC1VT1-{1-3840}-{1-7}-{1-4}} (EC1VT1-EC1/STS1#-VTGrp#-VT1.5#) {OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}} (OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#) {OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}} (OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#) VT1 AID, identifies the VT1.5 port.
LOCN	{FEND, NEND} Location, indicates whether the report line pertains to near-end or far-end monitored parameters. Values are: FEND Far-End NEND Near-End
MODETYPE	{NONE, P} Mode Type, indicates the type of PM parameters that are being monitored. Values are: NONE None, no PM parameters are being monitored. P Path PM parameters are being monitored.

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid /* Invalid location in request message. */
IIAC	Input, Invalid ACcess identifier /* Invalid AID entered. */ /* AID not in partition. */
SDBE	Status, internal Data Base Error /* Failed to set pointer to FM VT1 record. */ /* Failed to set file ptr to VT1 pmmode database. */
SROF	Status, Requested Operation Failed /* Unable to determine supporting facility entity. */ /* Unable to determine facility type. */ /* rpt_file error - <ERRNO>, status = <STATUS> */ /* Cannot open <FILENAME> */ /* nrl_rpt_print error - no transaction, msgtype = <MSGTYPE> */ /* rpt_print error - <ERRNO>, status = <STATUS> */ /* Failed to convert TPid to an AID string. */

EXAMPLES

In the following example, the PM mode setting for near-end and far-end PM parameters for VT1.5 port EC1VT1-105-7-3 is retrieved.

```
RTRV-PMODE-VT1::EC1VT1-105-7-3;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of P71048. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

The response shown assumes PM monitoring of near-end path and far-end path parameters is enabled for VT1.5 port EC1VT1-105-7-3.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P71048 COMPLD
  "EC1VT1-105-7-3:NEND,P"
  "EC1VT1-105-7-3:FEND,P"
/* RTRV-PMODE-VT1::EC1VT1-105-7-3 [P71048] (2) */
;
```

In the following example, the PM mode setting for near-end PM parameters for VT1.5 port EC1VT1-2-2-6 is retrieved.

```
RTRV-PMODE-VT1::EC1VT1-2-2-6::NEND;
```

The output response, shown below, assumes CID 3 was used to enter the command and a system generated CTAG value of P71049. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

The response shown assumes PM monitoring of near-end parameters is disabled for VT1.5 port EC1VT1-2-2-6.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P71049 COMPLD
  "EC1VT1-2-2-6:NEND,NONE"
/* RTRV-PMODE-VT1::EC1VT1-2-2-6::NEND [P71049] (3) */
;
```

RELATED COMMANDS

```
INIT-REG-VT1
RTRV-DFLTTH-VT1
RTRV-PM-VT1
RTRV-PMATTR-ALL
RTRV-TH-VT1
SET-DFLTTH-VT1
SET-PMATTR-ALL
SET-PMODE-VT1
SET-TH-VT1
```

RELATED AUTONOMOUS RESPONSES

```
REPT^EVT^VT1
```


COMMAND CODE: **RTRV-PMSCHED-ALL**
COMMAND NAME: **RETRIEVE PERFORMANCE
MONITORING SCHEDULE ALL**

PURPOSE

The RTRV-PMSCHED-ALL command retrieves

- whether 1-DAY PM reporting is enabled,
- the scheduled time-of-day of the autonomous REPT^PM^rr messages containing the 1-DAY PM report (if enabled),

A RTRV-PMSCHED-ALL command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-PMSCHED-ALL: [TID] : : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
/* <PMMODE>, <RPTIME> */
[/* <Command Echo> [<CTAG>] (<CID [-VCNUM] >) */]
;
```

OUTPUT PARAMETERS

PMMODE	{OFF, ON} PM Mode, identifies whether a 1-DAY PM report is created and reported in a REPT^PM^rr autonomous message. Values are: OFF Off, indicates that the 1-DAY PM report is not generated. ON On, indicates that a 1-DAY PM report is to be created and reported in a REPT^PM^rr autonomous message at the time specified by the RPTIME parameter.
RPTIME	{HOUR-MINUTE:{00-23} - {00-59} } Report Time, identifies the time of day the autonomous REPT^PM^rr messages containing the scheduled PM report is generated. The format of RPTIME is <HOUR_OF_DAY> - <MINUTE_OF_HOUR> where {00-00} represents midnight.

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID [-VCNUM] >) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

SROF Status, Requested Operation Failed
 /* Cannot read crontab, status = <STATUS> */

EXAMPLES

In the following example, the on/off status and scheduled time of the daily report is retrieved.

```
RTRV-PMSCHED-ALL;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71042. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M P71042 COMPLD  
/* ON,18-30 */  
/* RTRV-PMSCHED-ALL [P71042] (1) */  
;
```

RELATED COMMANDS

```
ALW-PMREPT-EC1  
ALW-PMREPT-F3  
ALW-PMREPT-OC3  
ALW-PMREPT-STS1  
ALW-PMREPT-STS3C  
ALW-PMREPT-T1  
ALW-PMREPT-T3  
ALW-PMREPT-VT1  
INH-PMREPT-EC1  
INH-PMREPT-F3  
INH-PMREPT-OC3  
INH-PMREPT-STS1  
INH-PMREPT-STS3C  
INH-PMREPT-T1  
INH-PMREPT-T3  
INH-PMREPT-VT1  
RTRV-DFLTPMREPT-EC1  
RTRV-DFLTPMREPT-F3  
RTRV-DFLTPMREPT-OC3  
RTRV-DFLTPMREPT-STS1  
RTRV-DFLTPMREPT-STS3C  
RTRV-DFLTPMREPT-T1  
RTRV-DFLTPMREPT-T3  
RTRV-DFLTPMREPT-VT1  
RTRV-PMSCHED-ALL  
RTRV-DFLTPMREPT-F3  
RTRV-DFLTPMREPT-OC3  
RTRV-DFLTPMREPT-STS1  
RTRV-DFLTPMREPT-STS3C  
RTRV-DFLTPMREPT-T1  
RTRV-DFLTPMREPT-T3  
RTRV-DFLTPMREPT-VT1
```

SCHED-PMREPT-ALL
SET-DFLTPMREPT-EC1
SET-DFLTPMREPT-F3
SET-DFLTPMREPT-OC3
SET-DFLTPMREPT-STS1
SET-DFLTPMREPT-STS3C
SET-DFLTPMREPT-T1
SET-DFLTPMREPT-T3
SET-DFLTPMREPT-VT1

RELATED AUTONOMOUS RESPONSES

REPT^PM^EC1
REPT^PM^F3
REPT^PM^OC3
REPT^PM^STS1
REPT^PM^STS3C
REPT^PM^T1
REPT^PM^T3
REPT^PM^VT1

COMMAND CODE: **RTRV-PMSCHED-EC1**
COMMAND NAME: **RETRIEVE PERFORMANCE
MONITORING SCHEDULE EC1**

PURPOSE

The RTRV-PMSCHED-EC1 command retrieves the current provisioning pertaining to scheduled Performance Monitoring (PM) reporting (e.g., reporting enabled, the discriminating threshold level of reported PM parameters, etc.) of EC1 PM parameters.

A RTRV-PMSCHED-EC1 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-PMSCHED-EC1 : [TID] : AID : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	EC1_AID: {EC1-{1-3840} } (EC1-EC1/STS1#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: EC1 AID, identifies the EC1 port.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  ["<AID>,<AIDTYPE>:<REPTINVL>,,, [<NUMINVL>] ,,<MONLEV>,,,<TMPER>,,
<INHMODE>"]
....
  ["<AID>,<AIDTYPE>:<REPTINVL>,,, [<NUMINVL>] ,,<MONLEV>,,,<TMPER>,,
<INHMODE>"]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

AID	EC1_AID {EC1-{1-3840} } (EC1-EC1/STS1#) EC1 AID, identifies the EC1 port.
AIDTYPE	{EC1} AID Type, identifies the type of AID for the PM schedule being retrieved.
REPTINVL	{15-MIN, 1-DAY} Report Interval, identifies the reporting interval of the PM report messages. Values are: 15-MIN 15 Minute Intervals, indicates EC1 PM reports are generated every 15 minutes. 1-DAY 1-Day (24 hour) Intervals, indicates EC1 PM reports are generated daily.

NUMINVL	{0–254, <NoVal>}	Number of Intervals, identifies the number of PM reporting intervals remaining to be generated. Values are:
	0	Zero, scheduled PM reporting is disabled.
	1–254	1 to 254 reports are to be generated. When the CPU is in an IS state and the system has successfully completed a restart, NUMINVL is decremented even if the schedule has been inhibited by the INH–PMREPT–EC1 command.
	<NoVal>	No Value (Null), PM report messages continue to be generated every REPTINVL until disabled (via SCHED–PMREPT–EC1).
MONLEV	{LEVEL–DIRECTION:{0–4294967295} – {DN, UP} }	Monitoring Level, identifies the discriminating level of PM parameter event counts that are reported in PM messages for monitored PM parameters. The format of MONLEV is <LEVEL> – <DIRECTION>. Values are:
	{0–4294967295}–DN	Only PM data for monitored PM parameters that are less–than or equal–to (<) the value of <LEVEL> are reported.
	{0–4294967295}–UP	Only PM data for monitored PM parameters that are greater–than or equal–to (>) the value of <LEVEL> are reported.
TMPER	{15–MIN, 1–DAY}	Time Period, identifies the accumulation time period of the PM parameters reported in the PM report messages. Values are:
	15–MIN	15–Minute PM collection registers are reported.
	1–DAY	1–Day (24 hour) PM collection registers are reported.
INHMODE	{ALW, INH}	Inhibit Mode, identifies if the reporting of the PM data is inhibited (via INH–PMREPT–EC1 command). Values are:
	ALW	Allowed, the reporting of the PM data is allowed.
	INH	Inhibited, the reporting of the PM data is inhibited.

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID [-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non–Parser Error Codes used with this command are:

```

SROF      Status, Requested Operation Failed
          /* Unable to determine facility type. */

```

EXAMPLES

In the following example, the current provisioning pertaining to scheduled Performance Monitoring (PM) reporting of EC1 PM parameters is retrieved.

```
RTRV-PMSCHED-EC1 : : EC1-5 ;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71042. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M  P71042  COMPLD
    "EC1-5,EC1:15-MIN,,,5,,16-UP,,,15-MIN,,ALW"
    "EC1-5,EC1:1-DAY,,,5,,1-UP,,,1-DAY,,ALW"
    /* RTRV-PMSCHED-EC1::EC1-5 [P71042] (1) */
;
```

RELATED COMMANDS

```
ALW-PMREPT-EC1
INH-PMREPT-EC1
RTRV-DFLTPMREPT-EC1
RTRV-PMSCHED-ALL
SCHED-PMREPT-ALL
SCHED-PMREPT-EC1
SET-DFLTPMREPT-EC1
```


COMMAND CODE: **RTRV-PMSCHED-F3**
COMMAND NAME: **RETRIEVE PERFORMANCE
MONITORING SCHEDULE F3**

PURPOSE

The RTRV-PMSCHED-F3 command retrieves the current provisioning pertaining to scheduled Performance Monitoring (PM) reporting (e.g., reporting enabled, the discriminating threshold level of reported PM parameters, etc.) of F3 PM parameters.

A RTRV-PMSCHED-F3 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-PMSCHED-F3 : [TID] : AID : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	F3_AID {T3F3-{1-4800}-{1-14}} (T3F3-DS3#-Fractional_DS3#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: F3 AID, identifies the F3 port.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  ["<AID>,<AIDTYPE>:<REPTINVL>,,, [<NUMINVL>] ,,<MONLEV>,,,<TMPER>,,,
<INHMODE>"]
....
  ["<AID>,<AIDTYPE>:<REPTINVL>,,, [<NUMINVL>] ,,<MONLEV>,,,<TMPER>,,,
<INHMODE>"]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

AID	F3_AID {T3F3-{1-4800}-{1-14}} (T3F3-DS3#-Fractional_DS3#) F3 AID, identifies the F3 port.
AIDTYPE	{F3} AID Type, identifies the type of AID for the PM schedule being retrieved.
REPTINVL	{15-MIN, 1-DAY} Report Interval, identifies the reporting interval of the PM report messages. Values are: 15-MIN 15 Minute Intervals, indicates F3 PM reports are generated every 15 minutes. 1-DAY 1-Day (24 hour) Intervals, indicates F3 PM reports are generated daily.

NUMINVL	{0–254, <NoVal>}	Number of Intervals, identifies the number of PM reporting intervals remaining to be generated. Values are:
	0	Zero, scheduled PM reporting is disabled.
	1–254	1 to 254 reports are to be generated. When the CPU is in an IS state and the system has successfully completed a restart, NUMINVL is decremented even if the schedule has been inhibited by the INH–PMREPT–F3 command.
	<NoVal>	No Value (Null), PM report messages continue to be generated every REPTINVL until disabled (via SCHED–PMREPT–F3).
MONLEV	{LEVEL–DIRECTION:{0–4294967295} – {DN, UP} }	Monitoring Level, identifies the discriminating level of PM parameter event counts that are reported in PM messages for monitored PM parameters. The format of MONLEV is <LEVEL> – <DIRECTION>. Values are:
	{0–4294967295}–DN	Only PM data for monitored PM parameters that are less–than or equal–to (<) the value of <LEVEL> are reported.
	{0–4294967295}–UP	Only PM data for monitored PM parameters that are greater–than or equal–to (>) the value of <LEVEL> are reported.
TMPER	{15–MIN, 1–DAY}	Time Period, identifies the accumulation time period of the PM parameters reported in the PM report messages. Values are:
	15–MIN	15–Minute PM collection registers are reported.
	1–DAY	1–Day (24 hour) PM collection registers are reported.
INHMODE	{ALW, INH}	Inhibit Mode, identifies if the reporting of the PM data is inhibited (via INH–PMREPT–F3 command). Values are:
	ALW	Allowed, the reporting of the PM data is allowed.
	INH	Inhibited, the reporting of the PM data is inhibited.

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID [-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non–Parser Error Codes used with this command are:

```

SROF      Status, Requested Operation Failed
          /* Unable to determine facility type. */

```

EXAMPLES

In the following example, the current provisioning pertaining to scheduled Performance Monitoring (PM) reporting of F3 PM parameters is retrieved.

```
RTRV-PMSCHED-F3 : : T3F3-1-1 ;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71042. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M  P71042  COMPLD
    "T3F3-1-1,F3:15-MIN,,,5,,16-UP,,,15-MIN,,ALW"
    "T3F3-1-1,F3:1-DAY,,,5,,1-UP,,,1-DAY,,ALW"
    /* RTRV-PMSCHED-F3::T3F3-1-1 [P71042] (1) */
;
```

RELATED COMMANDS

ALW-PMREPT-F3
INH-PMREPT-F3
RTRV-DFLT-PMREPT-F3
RTRV-PMSCHED-ALL
SCHED-PMREPT-ALL
SCHED-PMREPT-F3
SET-DFLT-PMREPT-F3

COMMAND CODE: **RTRV-PMSCHED-OC12**
COMMAND NAME: **RETRIEVE PERFORMANCE
MONITORING SCHEDULE OC12**

PURPOSE

The RTRV-PMSCHED-OC12 command retrieves the current provisioning pertaining to scheduled Performance Monitoring (PM) reporting (e.g., reporting enabled, the discriminating threshold level of reported PM parameters, etc.) of OC12 PM parameters.

A RTRV-PMSCHED-OC12 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-PMSCHED-OC12 : [TID] :AID: [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	OC12_AID {OC12-{1-560}} (OC12-OC12#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: OC12 AID, identifies the OC-12 port.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  ["<AID>,<AIDTYPE>:<REPTINVL>,,, [<NUMINVL>] ,,<MONLEV>,,,<TMPER>,,
<INHMODE>"]
  ....
  ["<AID>,<AIDTYPE>:<REPTINVL>,,, [<NUMINVL>] ,,<MONLEV>,,,<TMPER>,,
<INHMODE>"]
  [/ * <Command Echo> [<CTAG>] (<CID [-VCNUM] >) */]
;
```

OUTPUT PARAMETERS

AID	OC12_AID {OC12-{1-560}} (OC12-OC12#) OC12 AID, identifies the OC-12 port.
AIDTYPE	{OC12} AID Type, identifies the type of AID for the PM schedule being retrieved.
REPTINVL	{15-MIN, 1-DAY} Report Interval, identifies the reporting interval of the PM report messages. Values are: 15-MIN 15 Minute Intervals, indicates OC12 PM reports are generated every 15 minutes. 1-DAY 1-Day (24 hour) Intervals, indicates OC12 PM reports are generated daily.

NUMINV	{0–254, <NoVal>}	Number of Intervals, identifies the number of PM reporting intervals remaining to be generated. Values are:
	0	Zero, scheduled PM reporting is disabled.
	1–254	1 to 254 reports are to be generated. When the CPU is in an IS state and the system has successfully completed a restart, NUMINV is decremented even if the schedule has been inhibited by the INH–PMREPT–OC12 command.
	<NoVal>	No Value (Null), PM report messages continue to be generated every REPTINV until disabled (via SCHED–PMREPT–OC12).
MONLEV	{LEVEL–DIRECTION:{0–4294967295} – {DN, UP} }	Monitoring Level, identifies the discriminating level of PM parameter event counts that are reported in PM messages for monitored PM parameters. The format of MONLEV is <LEVEL> – <DIRECTION>. Values are:
	{0–4294967295}–DN	Only PM data for monitored PM parameters that are less–than or equal–to (<) the value of <LEVEL> are reported.
	{0–4294967295}–UP	Only PM data for monitored PM parameters that are greater–than or equal–to (>) the value of <LEVEL> are reported.
TMPER	{15–MIN, 1–DAY}	Time Period, identifies the accumulation time period of the PM parameters reported in the PM report messages. Values are:
	15–MIN	15–Minute PM collection registers are reported.
	1–DAY	1–Day (24 hour) PM collection registers are reported.
INHMODE	{ALW, INH}	Inhibit Mode, identifies if the reporting of the PM data is inhibited (via INH–PMREPT–OC12 command). Values are:
	ALW	Allowed, the reporting of the PM data is allowed.
	INH	Inhibited, the reporting of the PM data is inhibited.

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID [-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non–Parser Error Codes used with this command are:

```

SROF      Status, Requested Operation Failed
          /* Unable to determine facility type. */

```

EXAMPLES

In the following example, the current provisioning pertaining to scheduled Performance Monitoring (PM) reporting of OC12 PM parameters is retrieved.

```
RTRV-PMSCHED-OC12::OC12-8;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71042. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M  P71042  COMPLD
    "OC12-8,OC12:15-MIN,,,5,,16-UP,,,15-MIN,,ALW"
    "OC12-8,OC12:1-DAY,,,5,,1-UP,,,1-DAY,,ALW"
    /* RTRV-PMSCHED-OC12::OC12-8 [P71042] (1) */
;
```

RELATED COMMANDS

ALW-PMREPT-OC12
INH-PMREPT-OC12
RTRV-DFLTPMREPT-OC12
RTRV-PMSCHED-ALL
SCHED-PMREPT-ALL
SCHED-PMREPT-OC12
SET-DFLTPMREPT-OC12

COMMAND CODE: **RTRV-PMSCHED-OC3**
COMMAND NAME: **RETRIEVE PERFORMANCE
MONITORING SCHEDULE OC3**

PURPOSE

The RTRV-PMSCHED-OC3 command retrieves the current provisioning pertaining to scheduled Performance Monitoring (PM) reporting (e.g., reporting enabled, the discriminating threshold level of reported PM parameters, etc.) of OC3 PM parameters.

A RTRV-PMSCHED-OC3 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-PMSCHED-OC3 : [TID] :AID: [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	OC3_AID {OC3-{1-2240}} (OC3-OC3#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: OC3 AID, identifies the OC-3 port.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  ["<AID>,<AIDTYPE>:<REPTINVL>,,, [<NUMINVL>] ,,<MONLEV>,,,<TMPER>,,
<INHMODE>"]
....
  ["<AID>,<AIDTYPE>:<REPTINVL>,,, [<NUMINVL>] ,,<MONLEV>,,,<TMPER>,,
<INHMODE>"]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

AID	OC3_AID {OC3-{1-2240}} (OC3-OC3#) OC3 AID, identifies the OC-3 port.
AIDTYPE	{OC3} AID Type, identifies the type of AID for the PM schedule being retrieved.
REPTINVL	{15-MIN, 1-DAY} Report Interval, identifies the reporting interval of the PM report messages. Values are: 15-MIN 15 Minute Intervals, indicates OC3 PM reports are generated every 15 minutes. 1-DAY 1-Day (24 hour) Intervals, indicates OC3 PM reports are generated daily.

NUMINVL	{0–254, <NoVal>}	Number of Intervals, identifies the number of PM reporting intervals remaining to be generated. Values are:
	0	Zero, scheduled PM reporting is disabled.
	1–254	1 to 254 reports are to be generated. When the CPU is in an IS state and the system has successfully completed a restart, NUMINVL is decremented even if the schedule has been inhibited by the INH–PMREPT–OC3 command.
	<NoVal>	No Value (Null), PM report messages continue to be generated every REPTINVL until disabled (via SCHED–PMREPT–OC3).
MONLEV	{LEVEL–DIRECTION:{0–4294967295} – {DN, UP} }	Monitoring Level, identifies the discriminating level of PM parameter event counts that are reported in PM messages for monitored PM parameters. The format of MONLEV is <LEVEL> – <DIRECTION>. Values are:
	{0–4294967295}–DN	Only PM data for monitored PM parameters that are less–than or equal–to (<) the value of <LEVEL> are reported.
	{0–4294967295}–UP	Only PM data for monitored PM parameters that are greater–than or equal–to (>) the value of <LEVEL> are reported.
TMPER	{15–MIN, 1–DAY}	Time Period, identifies the accumulation time period of the PM parameters reported in the PM report messages. Values are:
	15–MIN	15–Minute PM collection registers are reported.
	1–DAY	1–Day (24 hour) PM collection registers are reported.
INHMODE	{ALW, INH}	Inhibit Mode, identifies if the reporting of the PM data is inhibited (via INH–PMREPT–OC3 command). Values are:
	ALW	Allowed, the reporting of the PM data is allowed.
	INH	Inhibited, the reporting of the PM data is inhibited.

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID [-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non–Parser Error Codes used with this command are:

```

SROF      Status, Requested Operation Failed
          /* Unable to determine facility type. */

```

EXAMPLES

In the following example, the current provisioning pertaining to scheduled Performance Monitoring (PM) reporting of OC3 PM parameters is retrieved.

```
RTRV-PMSCHED-OC3 : : OC3-8 ;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71042. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P71042 COMPLD
"OC3-8,OC3:15-MIN,,,5,,16-UP,,,15-MIN,,ALW"
"OC3-8,OC3:1-DAY,,,5,,1-UP,,,1-DAY,,ALW"
/* RTRV-PMSCHED-OC3::OC3-8 [P71042] (1) */
;
```

RELATED COMMANDS

ALW-PMREPT-OC3
INH-PMREPT-OC3
RTRV-DFLTPMREPT-OC3
RTRV-PMSCHED-ALL
SCHED-PMREPT-ALL
SCHED-PMREPT-OC3
SET-DFLTPMREPT-OC3

COMMAND CODE: RTRV-PMSCHED-STS1
COMMAND NAME: RETRIEVE PERFORMANCE
MONITORING SCHEDULE STS-1

PURPOSE

The RTRV-PMSCHED-STS1 command retrieves the current provisioning pertaining to scheduled Performance Monitoring (PM) reporting (e.g., reporting enabled, the discriminating threshold level of reported PM parameters, etc.) of STS-1 PM parameters.

A RTRV-PMSCHED-STS1 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-PMSCHED-STS1 : [TID] :AID: [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	STS1_AID {EC1STS1-{1-3840}} (EC1STS1-EC1/STS1#) {OC3STS1-{1-2240}-{1-3}} (OC3STS1-OC3#-STS1#) {OC12STS1-{1-560}-{1-4}-{1-3}} (OC12STS1-OC12#-STM1#-STS1#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: STS1 AID, identifies the STS-1 port.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  ["<AID>,<AIDTYPE>:<REPTINVL>,,, [<NUMINVL>] ,,<MONLEV>,,,<TMPER>,,
<INHMODE>"]
....
  ["<AID>,<AIDTYPE>:<REPTINVL>,,, [<NUMINVL>] ,,<MONLEV>,,,<TMPER>,,
<INHMODE>"]
  [/ * <Command Echo> [<CTAG>] (<CID [-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

AID	STS1_AID {EC1STS1-{1-3840}} (EC1STS1-EC1/STS1#) {OC3STS1-{1-2240}-{1-3}} (OC3STS1-OC3#-STS1#) {OC12STS1-{1-560}-{1-4}-{1-3}} (OC12STS1-OC12#-STM1#-STS1#) STS1 AID, identifies the STS-1 port.
AIDTYPE	{STS1} AID Type, identifies the type of AID for the PM schedule being retrieved.

REPTINVL	{15-MIN, 1-DAY}	Report Interval, identifies the reporting interval of the PM report messages. Values are: 15-MIN 15 Minute Intervals, indicates STS-1 PM reports are generated every 15 minutes. 1-DAY 1-Day (24 hour) Intervals, indicates STS-1 PM reports are generated daily.
NUMINVL	{0-254, <NoVal>}	Number of Intervals, identifies the number of PM reporting intervals remaining to be generated. Values are: 0 Zero, scheduled PM reporting is disabled. 1-254 1 to 254 reports are to be generated. When the CPU is in an IS state and the system has successfully completed a restart, NUMINVL is decremented even if the schedule has been inhibited by the INH-PMREPT-STs1 command. <NoVal> No Value (Null), PM report messages continue to be generated every REPTINVL until disabled (via SCHED-PMREPT-STs1).
MONLEV	{LEVEL-DIRECTION:{0-4294967295} - {DN, UP} }	Monitoring Level, identifies the discriminating level of PM parameter event counts that are reported in PM messages for monitored PM parameters. The format of MONLEV is <LEVEL> - <DIRECTION>. Values are: {0-4294967295}-DN Only PM data for monitored PM parameters that are less-than or equal-to (<) the value of <LEVEL> are reported. {0-4294967295}-UP Only PM data for monitored PM parameters that are greater-than or equal-to (>) the value of <LEVEL> are reported.
TMPER	{15-MIN, 1-DAY}	Time Period, identifies the accumulation time period of the PM parameters reported in the PM report messages. Values are: 15-MIN 15-Minute PM collection registers are reported. 1-DAY 1-Day (24 hour) PM collection registers are reported.

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

```

SROF    Status, Requested Operation Failed
        /* Unable to determine facility type. */

```

EXAMPLES

In the following example, the current provisioning pertaining to scheduled Performance Monitoring (PM) reporting of STS-1 PM parameters is retrieved.

```
RTRV-PMSCHED-STST1::OC3STST1-15-3;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71042. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M P71042 COMPLD  
"OC3STST1-15-3,STST1:15-MIN,,,5,,16-UP,,,15-MIN,,ALW"  
"OC3STST1-15-3,STST1:1-DAY,,,5,,1-UP,,,1-DAY,,ALW"  
/* RTRV-PMSCHED-STST1::OC3STST1-15-3 [P71042] (1) */  
;
```

RELATED COMMANDS

```
ALW-PMREPT-STST1  
INH-PMREPT-STST1  
RTRV-DFLTPMREPT-STST1  
RTRV-PMSCHED-ALL  
SCHED-PMREPT-ALL  
SCHED-PMREPT-STST1  
SET-DFLTPMREPT-STST1
```


COMMAND CODE: **RTRV-PMSCHED-STS3C**
COMMAND NAME: **RETRIEVE PERFORMANCE
MONITORING SCHEDULE STS-3C**

PURPOSE

The RTRV-PMSCHED-STS3C command retrieves the current provisioning pertaining to scheduled Performance Monitoring (PM) reporting (e.g., reporting enabled, the discriminating threshold level of reported PM parameters, etc.) of STS-3C PM parameters.

A RTRV-PMSCHED-STS3C command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-PMSCHED-STS3C: [TID] :AID: [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	STS3C_AID {OC3STS3C-{1-2240}} (OC3STS3C-OC3#/STS3C#) {OC12STS3C-{1-560}-{1-4}} (OC12STS3C-OC12#-STM1/STS3C#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: STS3C AID, identifies the STS-3C port.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  ["<AID>,<AIDTYPE>:<REPTINVL>,,, [<NUMINVL>] ,,<MONLEV>,,, <TMPER>,,,
<INHMODE>"]
  ....
  ["<AID>,<AIDTYPE>:<REPTINVL>,,, [<NUMINVL>] ,,<MONLEV>,,, <TMPER>,,,
<INHMODE>"]
  [/ * <Command Echo> [<CTAG>] (<CID [-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

AID	STS3C_AID {OC3STS3C-{1-2240}} (OC3STS3C-OC3#/STS3C#) {OC12STS3C-{1-560}-{1-4}} (OC12STS3C-OC12#-STM1/STS3C#) STS3C AID, identifies the STS-3C port.
AIDTYPE	{STS3C} AID Type, identifies the type of AID for the PM schedule being retrieved.

REPTINVL	{15-MIN, 1-DAY}	Report Interval, identifies the reporting interval of the PM report messages. Values are: 15-MIN 15 Minute Intervals, indicates STS-3C PM reports are generated every 15 minutes. 1-DAY 1-Day (24 hour) Intervals, indicates STS-3C PM reports are generated daily.
NUMINVL	{0-254, <NoVal>}	Number of Intervals, identifies the number of PM reporting intervals remaining to be generated. Values are: 0 Zero, scheduled PM reporting is disabled. 1-254 1 to 254 reports are to be generated. When the CPU is in an IS state and the system has successfully completed a restart, NUMINVL is decremented even if the schedule has been inhibited by the INH-PMREPT-ST33C command. <NoVal> No Value (Null), PM report messages continue to be generated every REPTINVL until disabled (via SCHED-PMREPT-ST33C).
MONLEV	{LEVEL-DIRECTION:{0-4294967295} - {DN, UP} }	Monitoring Level, identifies the discriminating level of PM parameter event counts that are reported in PM messages for monitored PM parameters. The format of MONLEV is <LEVEL> - <DIRECTION>. Values are: {0-4294967295}-DN Only PM data for monitored PM parameters that are less-than or equal-to (<) the value of <LEVEL> are reported. {0-4294967295}-UP Only PM data for monitored PM parameters that are greater-than or equal-to (>) the value of <LEVEL> are reported.
TMPER	{15-MIN, 1-DAY}	Time Period, identifies the accumulation time period of the PM parameters reported in the PM report messages. Values are: 15-MIN 15-Minute PM collection registers are reported. 1-DAY 1-Day (24 hour) PM collection registers are reported.
INHMODE	{ALW, INH}	Inhibit Mode, identifies if the reporting of the PM data is inhibited (via INH-PMREPT-ST33C command). Values are: ALW Allowed, the reporting of the PM data is allowed. INH Inhibited, the reporting of the PM data is inhibited.

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

```

SROF      Status, Requested Operation Failed
          /* Unable to determine facility type. */

```

EXAMPLES

In the following example, the current provisioning pertaining to scheduled Performance Monitoring (PM) reporting of STS-3C PM parameters is retrieved.

```
RTRV-PMSCHED-STS3C: :OC3STS3C-3 ;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71042. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M <CTAG> COMPLD  
  "<Parsable Output Data>"  
  /* <Free_Form_Informational_Text> */  
  /* <Echo of Command Entered> [<CTAG>] (<CID[-VCNUM]>) */  
;
```

RELATED COMMANDS

```
ALW-PMREPT-STS3C  
INH-PMREPT-STS3C  
RTRV-DFLTPMREPT-STS3C  
RTRV-PMSCHED-ALL  
SCHED-PMREPT-ALL  
SCHED-PMREPT-STS3C  
SET-DFLTPMREPT-STS3C
```


COMMAND CODE: RTRV-PMSCHED-T1
COMMAND NAME: RETRIEVE PERFORMANCE
MONITORING SCHEDULE T1

PURPOSE

The RTRV-PMSCHED-T1 command retrieves the current provisioning pertaining to scheduled Performance Monitoring (PM) reporting (e.g., reporting enabled, the discriminating threshold level of reported PM parameters, etc.) of DS1 PM parameters.

A RTRV-PMSCHED-T1 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-PMSCHED-T1 : [TID] : AID : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	DS1_AID {T1-{1-59392}} (T1-DS1#) {T3T1-{1-4800}-{1-28}} (T3T1-DS3#-DS1#) {EC1T1-{1-3840}-{1-28}} (EC1T1-EC1/STS1/DS3#-DS1#) {EC1T1-{1-3840}-{1-7}-{1-4}} (EC1T1-EC1/STS1#-VTGrp#-VT1/DS1#) {OC3T1-{1-2240}-{1-3}-{1-28}} (OC3T1-OC3#-STS1/DS3#-DS1#) {OC3T1-{1-2240}-{1-3}-{1-7}-{1-4}} (OC3T1-OC3#-STS1#-VTGrp#-VT1/DS1#) {OC12T1-{1-560}-{1-4}-{1-3}-{1-28}} (OC12T1-OC12#-STM1#-STS1/DS3#-DS1#) {OC12T1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}} (OC12T1-OC12#-STM1#-STS1#-VTGrp#-VT1/DS1#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: DS1 AID, identifies the DS1 port.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  ["<AID>,<AIDTYPE>:<REPTINVL>,,, [<NUMINVL>] ,,<MONLEV>,,, <TMPER>,,
<INHMODE>"]
  . . . .
  ["<AID>,<AIDTYPE>:<REPTINVL>,,, [<NUMINVL>] ,,<MONLEV>,,, <TMPER>,,
<INHMODE>"]
  [/ * <Command Echo> [<CTAG>] (<CID [-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

AID	<p>DS1_AID</p> <p>{T1-{1-59392}} (T1-DS1#)</p> <p>{T3T1-{1-4800}-{1-28}} (T3T1-DS3#-DS1#)</p> <p>{EC1T1-{1-3840}-{1-28}} (EC1T1-EC1/STS1/DS3#-DS1#)</p> <p>{EC1T1-{1-3840}-{1-7}-{1-4}} (EC1T1-EC1/STS1#-VTGrp#-VT1/DS1#)</p> <p>{OC3T1-{1-2240}-{1-3}-{1-28}} (OC3T1-OC3#-STS1/DS3#-DS1#)</p> <p>{OC3T1-{1-2240}-{1-3}-{1-7}-{1-4}} (OC3T1-OC3#-STS1#-VTGrp#-VT1/DS1#)</p> <p>{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}} (OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)</p> <p>{OC12T1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}} (OC12T1-OC12#-STM1#-STS1#-VTGrp#-VT1/DS1#)</p> <p>DS1 AID, identifies the DS1 port.</p>						
AIDTYPE	<p>{T1}</p> <p>AID Type, identifies the type of AID for the PM schedule being retrieved.</p>						
REPTINVL	<p>{15-MIN, 1-DAY}</p> <p>Report Interval, identifies the reporting interval of the PM report messages. Values are:</p> <table> <tr> <td>15-MIN</td><td>15 Minute Intervals, indicates DS1 PM reports are generated every 15 minutes.</td></tr> <tr> <td>1-DAY</td><td>1-Day (24 hour) Intervals, indicates DS1 PM reports are generated daily.</td></tr> </table>	15-MIN	15 Minute Intervals, indicates DS1 PM reports are generated every 15 minutes.	1-DAY	1-Day (24 hour) Intervals, indicates DS1 PM reports are generated daily.		
15-MIN	15 Minute Intervals, indicates DS1 PM reports are generated every 15 minutes.						
1-DAY	1-Day (24 hour) Intervals, indicates DS1 PM reports are generated daily.						
NUMINVL	<p>{0-254, <NoVal>}</p> <p>Number of Intervals, identifies the number of PM reporting intervals remaining to be generated. Values are:</p> <table> <tr> <td>0</td><td>Zero, scheduled PM reporting is disabled.</td></tr> <tr> <td>1-254</td><td>1 to 254 reports are to be generated. When the CPU is in an IS state and the system has successfully completed a restart, NUMINVL is decremented even if the schedule has been inhibited by the INH-PMREPT-T1 command.</td></tr> <tr> <td><NoVal></td><td>No Value (Null), PM report messages continue to be generated every REPTINVL until disabled (via SCHED-PMREPT-T1).</td></tr> </table>	0	Zero, scheduled PM reporting is disabled.	1-254	1 to 254 reports are to be generated. When the CPU is in an IS state and the system has successfully completed a restart, NUMINVL is decremented even if the schedule has been inhibited by the INH-PMREPT-T1 command.	<NoVal>	No Value (Null), PM report messages continue to be generated every REPTINVL until disabled (via SCHED-PMREPT-T1).
0	Zero, scheduled PM reporting is disabled.						
1-254	1 to 254 reports are to be generated. When the CPU is in an IS state and the system has successfully completed a restart, NUMINVL is decremented even if the schedule has been inhibited by the INH-PMREPT-T1 command.						
<NoVal>	No Value (Null), PM report messages continue to be generated every REPTINVL until disabled (via SCHED-PMREPT-T1).						
MONLEV	<p>{LEVEL-DIRECTION:{0-4294967295} - {DN, UP} }</p> <p>Monitoring Level, identifies the discriminating level of PM parameter event counts that are reported in PM messages for monitored PM parameters. The format of MONLEV is <LEVEL> - <DIRECTION>. Values are:</p> <table> <tr> <td>{0-4294967295}-DN</td><td>Only PM data for monitored PM parameters that are less-than or equal-to (<) the value of <LEVEL> are reported.</td></tr> <tr> <td>{0-4294967295}-UP</td><td>Only PM data for monitored PM parameters that are greater-than or equal-to (>) the value of <LEVEL> are reported.</td></tr> </table>	{0-4294967295}-DN	Only PM data for monitored PM parameters that are less-than or equal-to (<) the value of <LEVEL> are reported.	{0-4294967295}-UP	Only PM data for monitored PM parameters that are greater-than or equal-to (>) the value of <LEVEL> are reported.		
{0-4294967295}-DN	Only PM data for monitored PM parameters that are less-than or equal-to (<) the value of <LEVEL> are reported.						
{0-4294967295}-UP	Only PM data for monitored PM parameters that are greater-than or equal-to (>) the value of <LEVEL> are reported.						
TMPER	<p>{15-MIN, 1-DAY}</p> <p>Time Period, identifies the accumulation time period of the PM parameters reported in the PM report messages. Values are:</p> <table> <tr> <td>15-MIN</td><td>15-Minute PM collection registers are reported.</td></tr> <tr> <td>1-DAY</td><td>1-Day (24 hour) PM collection registers are reported.</td></tr> </table>	15-MIN	15-Minute PM collection registers are reported.	1-DAY	1-Day (24 hour) PM collection registers are reported.		
15-MIN	15-Minute PM collection registers are reported.						
1-DAY	1-Day (24 hour) PM collection registers are reported.						
INHMODE	<p>{ALW, INH}</p> <p>Inhibit Mode, identifies if the reporting of the PM data is inhibited (via INH-PMREPT-T1 command). Values are:</p> <table> <tr> <td>ALW</td><td>Allowed, the reporting of the PM data is allowed.</td></tr> <tr> <td>INH</td><td>Inhibited, the reporting of the PM data is inhibited.</td></tr> </table>	ALW	Allowed, the reporting of the PM data is allowed.	INH	Inhibited, the reporting of the PM data is inhibited.		
ALW	Allowed, the reporting of the PM data is allowed.						
INH	Inhibited, the reporting of the PM data is inhibited.						

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

SROF Status, Requested Operation Failed
 /* Unable to determine facility type. */

EXAMPLES

In the following example, the current provisioning pertaining to scheduled Performance Monitoring (PM) reporting of DS1 PM parameters is retrieved.

```
RTRV-PMSCHED-T1::T1-1;

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71042. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

<SID> <YY-MM-DD> <HH:MM:SS>
M P71042 COMPLD
"T1-1,T1:15-MIN,,,5,,16-UP,,,15-MIN,,ALW"
"T1-1,T1:1-DAY,,,5,,1-UP,,,1-DAY,,ALW"
/* RTRV-PMSCHED-T1::T1-1 [P71042] (1) */
;
```

RELATED COMMANDS

ALW-PMREPT-T1
INH-PMREPT-T1
RTRV-DFLTPMREPT-T1
RTRV-PMSCHED-ALL
SCHED-PMREPT-ALL
SCHED-PMREPT-T1
SET-DFLTPMREPT-T1

COMMAND CODE: **RTRV-PMSCHED-T3**
COMMAND NAME: **RETRIEVE PERFORMANCE
MONITORING SCHEDULE T3**

PURPOSE

The RTRV-PMSCHED-T3 command retrieves the current provisioning pertaining to scheduled Performance Monitoring (PM) reporting (e.g., reporting enabled, the discriminating threshold level of reported PM parameters, etc.) of DS3 PM parameters.

A RTRV-PMSCHED-T3 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-PMSCHED-T3 : [TID] : AID : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >		
	Default:	<SID>	
	Addressing:	None	
	Description:	Target Identifier, specifies the network node TID for the command.	
AID	DS3_AID		
	{T3-{1-4800}}		(T3-DS3#)
	{EC1T3-{1-3840}}		(EC1T3-EC1/STS1/DS3#)
	{OC3T3-{1-2240}-{1-3}}		(OC3T3-OC3#-STS1/DS3#)
	{OC12T3-{1-560}-{1-4}-{1-3}}		(OC12T3-OC12#-STM1#-STS1/DS3#)
	Default:	Entry Required	
	Addressing:	&&-ranging and &-grouping	
	Description:	DS3 AID, identifies the DS3 port.	
CTAG	< 1-6 VALID CTAG CHARACTERS >		
	Default:	< System assigned CTAG value >	
	Addressing:	None	
	Description:	Correlation Tag, associates input command with its output responses.	

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  ["<AID>,<AIDTYPE>:<REPTINVL>,,,[<NUMINVL>],,<MONLEV>,,,<TMPER>,,
<INHMODE>"]
  . . . .
  ["<AID>,<AIDTYPE>:<REPTINVL>,,,[<NUMINVL>],,<MONLEV>,,,<TMPER>,,
<INHMODE>"]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

AID	DS3_AID		
	{T3-{1-4800}}		(T3-DS3#)
	{EC1T3-{1-3840}}		(EC1T3-EC1/STS1/DS3#)
	{OC3T3-{1-2240}-{1-3}}		(OC3T3-OC3#-STS1/DS3#)
	{OC12T3-{1-560}-{1-4}-{1-3}}		(OC12T3-OC12#-STM1#-STS1/DS3#)
	DS3 AID, identifies the DS3 port.		

AIDTYPE	{T3}	AID Type, identifies the type of AID for the PM schedule being retrieved.
REPTINVL	{15-MIN, 1-DAY}	Report Interval, identifies the reporting interval of the PM report messages. Values are: 15-MIN 15 Minute Intervals, indicates DS3 PM reports are generated every 15 minutes. 1-DAY 1-Day (24 hour) Intervals, indicates DS3 PM reports are generated daily.
NUMINVL	{0-254, <NoVal>}	Number of Intervals, identifies the number of PM reporting intervals remaining to be generated. Values are: 0 Zero, scheduled PM reporting is disabled. 1-254 1 to 254 reports are to be generated. When the CPU is in an IS state and the system has successfully completed a restart, NUMINVL is decremented even if the schedule has been inhibited by the INH-PMREPT-T3 command. <NoVal> No Value (Null), PM report messages continue to be generated every REPTINVL until disabled (via SCHED-PMREPT-T3).
MONLEV	{LEVEL-DIRECTION:{0-4294967295} - {DN, UP} }	Monitoring Level, identifies the discriminating level of PM parameter event counts that are reported in PM messages for monitored PM parameters. The format of MONLEV is <LEVEL> - <DIRECTION>. Values are: {0-4294967295}-DN Only PM data for monitored PM parameters that are less-than or equal-to (<) the value of <LEVEL> are reported. {0-4294967295}-UP Only PM data for monitored PM parameters that are greater-than or equal-to (>) the value of <LEVEL> are reported.
TMPER	{15-MIN, 1-DAY}	Time Period, identifies the accumulation time period of the PM parameters reported in the PM report messages. Values are: 15-MIN 15-Minute PM collection registers are reported. 1-DAY 1-Day (24 hour) PM collection registers are reported.
INHMODE	{ALW, INH}	Inhibit Mode, identifies if the reporting of the PM data is inhibited (via INH-PMREPT-T3 command). Values are: ALW Allowed, the reporting of the PM data is allowed. INH Inhibited, the reporting of the PM data is inhibited.

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

SROF Status, Requested Operation Failed
 /* Unable to determine facility type. */

EXAMPLES

In the following example, the current provisioning pertaining to scheduled Performance Monitoring (PM) reporting of DS3 PM parameters is retrieved.

```
RTRV-PMSCHED-T3 : : T3-48 ;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71042. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M P71042 COMPLD  
  "T3-48,T3:15-MIN,,,5,,16-UP,,,15-MIN,,ALW"  
  "T3-48,T3:1-DAY,,,5,,1-UP,,,1-DAY,,ALW"  
/* RTRV-PMSCHED-T3::T3-48 [P71042] (1) */  
;
```

RELATED COMMANDS

```
ALW-PMREPT-T3  
INH-PMREPT-T3  
RTRV-DFLTPMREPT-T3  
RTRV-PMSCHED-ALL  
SCHED-PMREPT-ALL  
SCHED-PMREPT-T3  
SET-DFLTPMREPT-T3
```


COMMAND CODE: **RTRV-PMSCHED-VT1**
COMMAND NAME: **RETRIEVE PERFORMANCE
MONITORING SCHEDULE VT1**

PURPOSE

The RTRV-PMSCHED-VT1 command retrieves the current provisioning pertaining to scheduled Performance Monitoring (PM) reporting (e.g., reporting enabled, the discriminating threshold level of reported PM parameters, etc.) of VT1.5 PM parameters.

A RTRV-PMSCHED-VT1 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-PMSCHED-VT1 : [TID] : AID : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >		
	Default:	<SID>	
	Addressing:	None	
	Description:	Target Identifier, specifies the network node TID for the command.	
AID	VT1_AID		
	{EC1VT1-{1-3840}-{1-7}-{1-4}}	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)	
	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)	
	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}		
	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)		
	Default:	Entry Required	
	Addressing:	&&-ranging and &-grouping	
	Description:	VT1 AID, identifies the VT1.5 port.	
CTAG	< 1-6 VALID CTAG CHARACTERS >		
	Default:	< System assigned CTAG value >	
	Addressing:	None	
	Description:	Correlation Tag, associates input command with its output responses.	

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  ["<AID>,<AIDTYPE>:<REPTINVL>,,,[<NUMINVL>],,<MONLEV>,,,<TMPER>,,
<INHMODE>"]
  . . . .
  ["<AID>,<AIDTYPE>:<REPTINVL>,,,[<NUMINVL>],,<MONLEV>,,,<TMPER>,,
<INHMODE>"]
  [/ * <Command Echo> [<CTAG>] (<CID [-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

AID	VT1_AID	
	{EC1VT1-{1-3840}-{1-7}-{1-4}}	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)
	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)
	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	
	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)	
	VT1 AID, identifies the VT1.5 port.	

AIDTYPE	{VT1}	AID Type, identifies the type of AID for the PM schedule being retrieved.
REPTINVL	{15-MIN, 1-DAY}	Report Interval, identifies the reporting interval of the PM report messages. Values are: 15-MIN 15 Minute Intervals, indicates VT1.5 PM reports are generated every 15 minutes. 1-DAY 1-Day (24 hour) Intervals, indicates VT1.5 PM reports are generated daily.
NUMINVL	{0-254, <NoVal>}	Number of Intervals, identifies the number of PM reporting intervals remaining to be generated. Values are: 0 Zero, scheduled PM reporting is disabled. 1-254 1 to 254 reports are to be generated. When the CPU is in an IS state and the system has successfully completed a restart, NUMINVL is decremented even if the schedule has been inhibited by the INH-PMREPT-VT1 command. <NoVal> No Value (Null), PM report messages continue to be generated every REPTINVL until disabled (via SCHED-PMREPT-VT1).
MONLEV	{LEVEL-DIRECTION:{0-4294967295} - {DN, UP} }	Monitoring Level, identifies the discriminating level of PM parameter event counts that are reported in PM messages for monitored PM parameters. The format of MONLEV is <LEVEL> - <DIRECTION>. Values are: {0-4294967295}-DN Only PM data for monitored PM parameters that are less-than or equal-to (<) the value of <LEVEL> are reported. {0-4294967295}-UP Only PM data for monitored PM parameters that are greater-than or equal-to (>) the value of <LEVEL> are reported.
TMPER	{15-MIN, 1-DAY}	Time Period, identifies the accumulation time period of the PM parameters reported in the PM report messages. Values are: 15-MIN 15-Minute PM collection registers are reported. 1-DAY 1-Day (24 hour) PM collection registers are reported.
INHMODE	{ALW, INH}	Inhibit Mode, identifies if the reporting of the PM data is inhibited (via INH-PMREPT-VT1 command). Values are: ALW Allowed, the reporting of the PM data is allowed. INH Inhibited, the reporting of the PM data is inhibited.

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

SROF Status, Requested Operation Failed
 /* Unable to determine facility type. */

EXAMPLES

In the following example, the current provisioning pertaining to scheduled Performance Monitoring (PM) reporting of VT1.5 PM parameters is retrieved.

```
RTRV-PMSCHED-VT1: :EC1VT1-1-1-4;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71042. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M P71042 COMPLD  
  "EC1VT1-1-1-4,VT1:15-MIN,,,5,,16-UP,,,15-MIN,,ALW"  
  "EC1VT1-1-1-4,VT1:1-DAY,,,5,,1-UP,,,1-DAY,,ALW"  
  /* RTRV-PMSCHED-VT1: :EC1VT1-1-1-4 [P71042] (1) */  
;
```

RELATED COMMANDS

```
ALW-PMREPT-VT1  
INH-PMREPT-VT1  
RTRV-DFLTPMREPT-VT1  
RTRV-PMSCHED-ALL  
SCHED-PMREPT-ALL  
SCHED-PMREPT-VT1  
SET-DFLTPMREPT-VT1
```


COMMAND CODE: **RTRV-POOL**
COMMAND NAME: **RETRIEVE POOL**

PURPOSE

The RTRV-POOL command retrieves the number of VT1.5 matrix time slots available for DS1/VT1.5 cross-connections requiring a broadcast connection in the indicated first-stage of the matrix. Types of cross-connections that may require a broadcast connection in a first-stage matrix unit are a one-way bridge connection, a conference connection, and a test access connection.

The broadcast cross-connection for any DS1/VT1.5 port that is (one-way) cross-connected to more than one other DS1/VT1.5 port is made in either the first-stage or the third-stage of the matrix. Since first-stage matrix bandwidth can be exhausted by broadcast connections, the system reserves either 112 or 280 first-stage matrix time slots depending upon the configured system size (i.e., 112 for 672/1344 port systems and 280 for 240/2688/3360 port systems) for broadcast connections to guarantee bandwidth is available when required for non-broadcast connections.

The third-stage matrix is used for any broadcast cross-connection between two ports connected to the same third-stage matrix unit. One of the available first-stage matrix time slots is only used for a broadcast cross-connection when the connection can not be made in a third-stage matrix unit.

The successful response for a RTRV-POOL contains separate lines of parsable output data for each possible (first-stage) end-stage matrix unit in the system (one for each end-stage being reported) if the ESNUM parameter is ALL or one line if the ESNUM specifies a specific (first-stage) end-stage matrix unit.

A RTRV-POOL command is denied if:

- An ESNUM of {17-40} is entered and the system is not configured as a 1340, 2688 or 3360 port system (i.e., the system is configured as a 672 port system).
- An ESNUM greater than 3 is entered and the system is configured as a 240 port system.
- An invalid parameter value is entered.

INPUT FORMAT

RTRV-POOL: [TID] :: [CTAG] :: [ESNUM] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

ESNUM	{1–40, ALL}	
	Default:	<ALL>
	Addressing:	None
	Description:	End Stage Number, specifies the (first–stage) end–stage matrix unit whose available pool is displayed. Values are:
	1 to 3	Displays the available pool of the specified (first–stage) end–stage matrix unit. An ESNUM of {1–3} is valid if the system is configured as a 240 port system.
	1 to 16	Displays the available pool of the specified (first–stage) end–stage matrix unit. An ESNUM of {1–16} is valid if the system is configured as a 672 port system.
	1 to 32	Displays the available pool of the specified (first–stage) end–stage matrix unit. An ESNUM of {1–32} is valid if the system is configured as a 1344 or 2688 port system.
	1 to 40	Displays the available pool of the specified (first–stage) end–stage matrix unit. An ESNUM of {1–40} is valid if the system is configured as a 3360 port system.
	ALL	All, display the available pool of all (first–stage) end–stage matrix units (e.g., only three lines of output shall be displayed for a 240 port system).

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  "ES=<value>,AVAILPOOL=<value>"
  ["ES=<value>,AVAILPOOL=<value>"]
  ["ES=<value>,AVAILPOOL=<value>"]
  [/ * <Command Echo> [<CTAG>] (<CID [-VCNUM] >) */]
;

```

OUTPUT PARAMETERS

ES=	{1–40}	
		End–Stage Number, identifies the first–stage end–stage matrix associated with the lines of output data being displayed. Separate lines of output data are provided for each first–stage end–stage in the system (one for each end–stage being reported). Values are:
	1 to 3	Displays an ES of {1–3} if the system is configured as a 240 port system.
	1 to 16	Displays an ES of {1–16} if the system is configured as a 672 port system.
	1 to 32	Displays an ES of {1–32} if the system is configured as a 1344 or 2688 port system.
	1 to 40	Displays an ES of {1–40} if the system is configured as a 3360 port system.
AVAILPOOL=	{0–280}	
		Available VT1.5 Pool, indicates the number of VT1.5 matrix time slots available in each first–stage end–stage matrix for DS1/VT1.5 broadcast connections. Values are:
	0 to 112	Displays an AVAILPOOL of {0–112} if the system is configured as a 672 or 1344 port system.
	0 to 280	Displays an AVAILPOOL of {0–280} if the system is configured as a 240, 2688 or 3360 port system.

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IPNV	Input, Parameter Not Valid
SDBE	Status, internal Data Base Error /* Error printing report file */
SROF	Status, Requested Operation Failed /* Error getting ptr to report file */ /* Error opening report file */

EXAMPLES

In the following example, the available pool of VT1.5 time slots for each first–stage end–stage matrix is retrieved. Note that the output is shown for a case where the I/O shelves using only the first 16 end stages are provisioned.

```
RTRV-POOL;
```

The output response, shown below, assumes CID port 3 was used to enter the command and a system generated CTAG value of Pad568. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pad567 COMPLD
"ES=1,AVAILPOOL=280"
"ES=2,AVAILPOOL=280"
"ES=3,AVAILPOOL=280"
"ES=4,AVAILPOOL=280"
"ES=5,AVAILPOOL=280"
"ES=6,AVAILPOOL=280"
"ES=7,AVAILPOOL=280"
"ES=8,AVAILPOOL=280"
"ES=9,AVAILPOOL=280"
"ES=10,AVAILPOOL=280"
"ES=11,AVAILPOOL=280"
"ES=12,AVAILPOOL=280"
"ES=13,AVAILPOOL=280"
"ES=14,AVAILPOOL=280"
"ES=15,AVAILPOOL=280"
"ES=16,AVAILPOOL=280"
"ES=17,AVAILPOOL=280"
"ES=18,AVAILPOOL=280"
"ES=19,AVAILPOOL=280"
"ES=20,AVAILPOOL=280"
"ES=21,AVAILPOOL=280"
"ES=22,AVAILPOOL=280"
"ES=23,AVAILPOOL=280"
"ES=24,AVAILPOOL=280"
"ES=25,AVAILPOOL=280"
"ES=26,AVAILPOOL=280"
"ES=27,AVAILPOOL=280"
"ES=28,AVAILPOOL=280"
"ES=29,AVAILPOOL=280"
"ES=30,AVAILPOOL=280"
"ES=31,AVAILPOOL=280"
"ES=32,AVAILPOOL=280"
/* RTRV-POOL [Pad567] (9-4) "ES=1,AVAILPOOL=112"
*/
;
```

RELATED COMMANDS

```
CONN-TACC-T1
ENT-CONF-T1
ENT-CONF-VT1
ENT-CRS-T1
ENT-CRS-VT1
```


COMMAND CODE: **RTRV-PRMTR-NE**
COMMAND NAME: **RETRIEVE PARAMETER NETWORK
ELEMENT**

PURPOSE

The RTRV-PRMTR-NE command retrieves general system level configuration information consisting of

- the system type, software release number, and software release date,
- the provisioned center stage matrix type,
- the system restart status.

A RTRV-PRMTR-NE command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-PRMTR-NE: [TID] : : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  ":<SYSTYPE>,<STREAM>,<RLSTYPE><RLSNUM>.<IREV>.<MREV>,<RLSDATE>,,
<MTXTYPE>::<STATUS>"
  [/ * <Command Echo> [<CTAG>] (<CID [-VCNUM] >) */]
;
```

OUTPUT PARAMETERS

SYSTYPE	{1631SX} System Type.
STREAM	{LMC-APS} Release Stream. Value is: LMC-APS Large Matrix Configuration – Administration Processing System.
RLSTYPE	{F, P, R} Software Release Type. Refer to the Software Support Agreement for applicable terms and conditions. Values are: F First Office Application, the software load is intended for FOA evaluation and testing and is qualified to carry traffic under specified conditions or constraints. P Preliminary, the software load is only intended for evaluation and testing under controlled, non-traffic bearing conditions. R Released, the software load is fully qualified to carry traffic per applicable Alcatel specifications.

RLSNUM	{05, 06, 07, 08, 09, 10} Software Release Number.										
IREV	{00–99} Intermediate Release Revision. Refer to the Software Support Agreement.										
MREV	{00–99} Maintenance Release Revision. Refer to the Software Support Agreement.										
RLSDATE	{YY–MM–DD:{00–99} – {1–12} – {1–31} } Release Date, indicates the date of the system software release. The format of RLSDATE is <YEAR> – <MONTH_OF_YEAR> – <DAY_OF_MONTH>.										
MTXTYPE	{240, 672, 1344, 2688, 3360} Matrix Type, indicates the maximum matrix size in DS3 equivalent ports. Values are: <table> <tr> <td>240</td><td>Maximum matrix size is 240 DS3 equivalent ports.</td></tr> <tr> <td>672</td><td>Maximum matrix size is 672 DS3 equivalent ports.</td></tr> <tr> <td>1344</td><td>Maximum matrix size is 1344 DS3 equivalent ports.</td></tr> <tr> <td>2688</td><td>Maximum matrix size is 2688 DS3 equivalent ports.</td></tr> <tr> <td>3360</td><td>Maximum matrix size is 3360 DS3 equivalent ports.</td></tr> </table>	240	Maximum matrix size is 240 DS3 equivalent ports.	672	Maximum matrix size is 672 DS3 equivalent ports.	1344	Maximum matrix size is 1344 DS3 equivalent ports.	2688	Maximum matrix size is 2688 DS3 equivalent ports.	3360	Maximum matrix size is 3360 DS3 equivalent ports.
240	Maximum matrix size is 240 DS3 equivalent ports.										
672	Maximum matrix size is 672 DS3 equivalent ports.										
1344	Maximum matrix size is 1344 DS3 equivalent ports.										
2688	Maximum matrix size is 2688 DS3 equivalent ports.										
3360	Maximum matrix size is 3360 DS3 equivalent ports.										
STATUS	{COMPLETE, IN–PROGRESS} Status, indicates the status of any system restart process.										

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Optional Suggested Action Text> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

SROF Status, Requested Operation Failed
 /* Database access failure. */

EXAMPLES

In the following example, RTRV-PRMTR-NE is used to retrieve general system information:

```
RTRV-PRMTR-NE;
```

The output responses, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P27031. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```

<SID> <YY-MM-DD> <HH:MM:SS>
M P27031 COMPLD
  ":1631SX,LMC-APS,R08.00.00,02-05-99,,672::COMPLETE"
  /* RTRV-PRMTR-NE [P27031] (1) */
;

```

RELATED COMMANDS

ED-PRMTR-NE
INIT-SYS

COMMAND CODE: **RTRV-PRMTR-SITE**
COMMAND NAME: **RETRIEVE PARAMETER SITE**

PURPOSE

The RTRV-PRMTR-SITE command retrieves the provisioned values for the global system parameters pertaining to:

- unsuccessful login attempts (ATTCNT, LKOT parameters),
- global X.25 provisioning parameters (T1, T4, N2 parameters),
- validation of X.25 SVC calling address (VALIDATE parameter),
- disk synchronization (SYNCTIME, SYNCCNT parameters),
- the Event Log File provisioning parameters (MAXFSIZE, MAXFNBR, RSML parameters),
- reporting of the software release number in the ACT-USER response (ENRELNUM parameter),
- the "alcatel" user login access (ALCATEL parameter).

The RTRV-PRMTR-SITE command can be executed while in the Limited Command Execution mode (i.e., after execution of a STOP-OPS command) or the Normal Command Execution mode.

A RTRV-PRMTR-SITE command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-PRMTR-SITE: [TID] : : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  ":<ATTCNT>,<LKOT>,<ALCATEL>:ENRELNUM=<value>,FTP=<value>,
  MAXFNBR=<value>,MAXFSIZE=<value>,N2=<value>,RSML=<value>,
  T1=<value>,T4=<value>,SYNCCNT=<value>,SYNCTIME=<value>,
  VALIDATE=<value>,TIMEOUT=<value>,<TCPSESS=<value>"
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

ATTCNT	{0-15} Invalid Login Attempt Count, indicates the number of invalid login attempts allowed before login is disabled on a CPORT for the duration of LKOT. A value of 0 (zero) indicates this function is disabled. The ATTCNT value applies to all CPORTs and X.25 virtual channels on the system.
LKOT	{0-15} Login Lockout Time, indicates the number of minutes CPORT login access is disabled following the specified ATTCNT. A value of 0 (zero) indicates this function is disabled. The LKOT value applies to all CPORTs and X.25 virtual channels on the system.

ALCATEL	{OFF, ON} Alcatel, indicates whether the “alcatel” user is allowed login access. Values are: OFF Login by the “alcatel” UID is disabled. ON Login by the “alcatel” UID is enabled.
FTP=	{DISABLE, ENABLE} File Transfer Protocol, specifies if FTP file transfers will be supported by the system. DISABLE FTP login and any file transfers are disabled and not allowed by the system. This affects any further FTP logins but does not affect the FTP user already logged in. ENABLE FTP login and any file transfers are enabled and are allowed by the system.
ENRELNUM=	{N, Y} Enable Release Number, indicates whether the software release number is returned as parsable data in the successful response message of the ACT–USER command. N No, the software release number is not returned as parsable data in the successful response message of the ACT–USER command. Y Yes, the software release number is returned as parsable data in the successful response message of the ACT–USER command.
MAXFNBR=	{5–100} Event Log File Maximum File Number, indicates the number of disk buffer files to be used for the Event Log File.
MAXFSIZE=	{16–1024} Event Log File Maximum Size, indicates the size, in 1024 byte blocks, of each Event Log File disk buffer. (e.g., If MAXFSIZE is set to 1024, 1 megabyte of disk space is allocated for each disk buffer file.)
N2=	{2–16} X.25 N2 Number of Retries, indicates the maximum number of retries for the X.25 N2 Number of Retries parameter.
RSML=	{1–25000} Event Log File maximum Response Message Length, indicates the maximum size, in 1024 byte blocks, of the output response message for a RTRV–ELF command. Any output response message for a RTRV–ELF command greater–than the RSML value is truncated.
SYNCCNT=	{0–100} Disk Sync Count, indicates the maximum number of disk write cycles before a disk synchronization is performed. A value of 0 (zero) indicates no disk syncs are performed based on disk write counts.
SYNCTIME=	{0–60} Disk Sync Time, indicates the maximum number of seconds between disk memory synchronization. A value of 0 (zero) indicates no disk syncs are performed based on time.
T1=	{1–200} X.25 T1 Retry Timer, indicates the amount of time, in tenths of seconds for the X.25 T1 Retry Timer parameter.
T4=	{1–1200} X.25 T4 No–Activity Timer, indicates the amount of time, in tenths of seconds, for the X.25 T4 No–Activity Timer parameter.

VALIDATE=	{ALL, NONE} Validate X.25 SVC Calling Addresses, indicates whether X.25 SVC calling addresses received in an X.25 call request packet are validated against the X.25 Calling Address database. Validation of X.25 SVC calling addresses applies to all provisioned SVC channels in the system. (Refer to ENT-OSADDR-SITE.) Values are: ALL Validate All, the system only accepts X.25 SVC calling addresses that have been provisioned in its X.25 Calling Address database. NONE Validate None, the system accepts any incoming X.25 SVC calling address.
TIMEOUT	{5-7200} Telnet activity time out in seconds. This is the maximum time that a telnet session can be inactive (without any input or output on the connection).
TCPSESS	{1-24} Maximum number of Telnet sessions allowed per physical LAN port. Applies to all LAN ports in system.

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Optional Suggested Action Text> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

```

SDBE        Status, internal Data Base Error
             /* Unable to read platparm db record – status = <status number> */
             /* Unable to read security db record – status = <status number> */

```

EXAMPLES

In the following example, RTRV-PRMTR-SITE is used to retrieve the parameter values provisioned with the ED-PRMTR-SITE command.

```

RTRV-PRMTR-SITE;

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P11012. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

<SID> <YY-MM-DD> <HH:MM:SS>
M P11012 COMPLD
  " :3,2,ON:T1=30,T4=200,N2=7,SYNCTIME=0,SYNCCNT=0,
MAXFSIZE=128,MAXFNBR=20,RSML=1000,ENRELNUM=N,VALIDATE=ALL,FTP=ENABLE"
  /* RTRV-PRMTR-SITE [P11012] (1) */
;

```

RELATED COMMANDS

```

ACT-USER
DLT-CID

```

DLT-CID-VC
DLT-OSADDR-SITE
ED-CID
ED-CID-VC
ED-PRMTR-SITE
ENT-CID
ENT-CID-VC
ENT-OSADDR-SITE
RMV-CID
RST-CID
RTRV-CID
RTRV-ELF
RTRV-OSADDR-SITE

COMMAND CODE: **RTRV-PROCSTAT-EQPT**
COMMAND NAME: **RETRIEVE PROCESS STATUS
EQUIPMENT**

PURPOSE

The RTRV-PROCSTAT-EQPT retrieves the current process status specified ACL link or the process status of the active CPU's task and/or queues. The process status available consists of the ACL link re-transmissions (per unit interval) or active CPU task utilization level and/or queue-fill level. The AID of either copy of the CPU can be specified to retrieve the status of the active CPU copy.

The successful response for a RTRV-PROCSTAT-EQPT if the AID is specified as CPU, contains a separate line of output data for the aggregate CPU utilization level and a separate line of output data for each of the five most full queues. No line of output data is displayed for empty queues (e.g., if all queues are empty, no lines of output data are reported).

The successful response for a RTRV-PROCSTAT-EQPT if the AID of the active CIM or ACM is specified, contains a separate line of output data reporting the number of ACL retransmissions that have occurred since the last CIM or ACM restart for each ACL supported by the CIM. If the AID specifies the inactive CIM or ACM, the command completes successfully with no line of output data displayed.

The successful response for a RTRV-PROCSTAT-EQPT if the AID of the active ACL is specified, contains a separate line of output data reporting the number of ACL retransmissions that have occurred since the last CIM restart for each Level 2 Processor (SPB, IPU) that is supported by the ACL. If the AID specifies the inactive ACL, the command completes successfully with no line of output data displayed.

A RTRV-PROCSTAT-EQPT command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-PROCSTAT-EQPT: [TID] :AID: [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	EQUIPMENT_AID: {ACL-1-2-{9-28, 37-56, 65-84, 93-112}} {ACM-1-2-{3-7, 10-14}} {CIM-1-2-{3-7, 10-14}} {CPU-1-2-{1-2}} Default: Entry Required Addressing: None Description: Equipment AID, identifies the equipment entity. Refer to Appendix B, Access Identifiers (AIDs) for a definition of equipment mnemonics.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```

    <SID> <YY-MM-DD> <HH:MM:SS>
M  <CTAG> COMPLD
    /* <AID1>[, <AID2>] : [<PROCID>] , , , <PROCSTAT> */
    . . . .
    /* <AID1>[, <AID2>] : [<PROCID>] , , , <PROCSTAT> */
    [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

OUTPUT PARAMETERS

AID1	<p>EQUIPMENT_AID1:</p> <p>{ACL-1-2-{9-28, 37-56, 65-84, 93-112}}</p> <p>{ACM-1-2-{3-7, 10-14}}</p> <p>{CIM-1-2-{3-7, 10-14}}</p> <p>{CPU-1-2-{1-2}}</p> <p>Equipment AID1, identifies the AID of the CPU, CIM, ACM or ACL as applicable from the specified input parameter AID.</p>
AID2	<p>EQUIPMENT_AID2:</p> <p>{ACL-1-2-{9-28, 37-56, 65-84, 93-112}}</p> <p>{IPU-{44-63}-{1-4}-{1-8}}</p> <p>{SPB-{2-43, 102-111, 112-135, 136-141}-{1, 3}-{1-2}}</p> <p>Equipment AID2, identifies the AID of the ACL when a CIM or ACM AID is entered and ACL retransmissions are reported for the ACL, or identifies the AID of the L2P (SPB, IPU) when an ACL AID is entered and ACL retransmissions are reported for a L2P.</p>
PROCID	<p>{ ACLRETRAN, Q-<Q_Key>-<Q_ID>, UTIL }</p> <p>Process Identifier keyword, identifies the type of information being reported. Values are:</p> <p>ACLRETRAN ACL Retransmission, indicates that the line of output is reporting the ACL Retransmissions counter corresponding to the identified AID2. This keyword is reported with ACL, IPU, or SPB AID2s.</p> <p>Q-<Q_Key>-<Q_ID> Q-Queue_Key-Queue_Identifier, identifies the CPU's Queue Key and Queue Identifier to which the line of output pertains and reports the percentage queue-fill level for each of the five most-full CPU queues. The Q_Key and Q_ID each consist of up to 8 hex characters preceded by "0x", i.e., the value set is {Q-{0x0-0xFFFFFFFF}-{0x0-0xFFFFFFFF}. This keyword is reported with CPU AID1.</p> <p>UTIL Utilization, indicates the line of output is reporting the aggregate processor utilization level. This keyword is reported with CPU AID1.</p>
PROCSTAT	<p>{ {0x0-0xFFFFFFFF}, {1-100} }</p> <p>Process Status, identifies the status of the link retransmissions or process levels. Values are:</p> <p>{0x0-0xFFFFFFFF} Link Retransmissions corresponding to the identified AID. Reports the number of ACL Retransmissions that have occurred on the identified ACL AID2 or to the L2P (IPU, SPB) AID2 since the last associated CIM restart. The value consists of up to 8 Hex characters preceded by "0x". A CIM restart resets the associated ACL Retransmissions count to zero.</p> <p>{1-100} Numeric Percent (rounded to nearest integer value). Reported with CPU AID1 when the aggregate processor utilization level or when a queue-fill level is being reported.</p>

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC Input, Invalid ACcess identifier

EXAMPLES

In the following example, the aggregate processor utilization level and queue-fill level are retrieved for the active CPU copy, CPU-1-2-1.

```
RTRV-PROCSTAT-EQPT: :CPU-1-2-1;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of Pad567. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pad567 COMPLD
  /* CPU-1-2-1, :UTIL,,,55 */]
  /* CPU-1-2-1, :Q-0xAAAAFFFF-0xFFFFFFFF,,,55 */]
  /* CPU-1-2-1, :Q-0xAAAAAAAA-0xAAAAAAAA,,,55 */]
  /* CPU-1-2-1, :Q-0x8-0x8,,,55 */]
  /* RTRV-PROCSTAT-EQPT: :CPU-1-2-1 [Pad567] (2) */]
;
```

RELATED COMMANDS

DGN-EQPT
RTRV-DGN-STATUS

COMMAND CODE: **RTRV-PRVG-CMD**
COMMAND NAME: **RETRIEVE PRIVILEGE COMMAND**

PURPOSE

The RTRV-PRVG-CMD command retrieves the existing command access CCAL (Command Code Authorization Level) security level and CCFC (Command Code Functional Category) security group(s) for the specified command code (either for a specific command code or all command codes) or the specified CCFC security group.

The successful response for a RTRV-PRVG-CMD contains one or more lines of parsable output data for each command code satisfying the specified CMD and CCFC search filters. If a command code satisfying the specified CMD and CCFC search filters is not found, then no parsable output data is provided and a line of non-parsable informational text is provided.

A RTRV-PRVG-CMD command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-PRVG-CMD: [TID] :: [CTAG] :: [CMD] , [CCFC] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.				
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.				
CMD	{<TL1 Command Code>, ALL, all} Default: {ALL} Addressing: None Description: TL1 Command Code, specifies the TL1 command code for which the security group and security level is retrieved. The value for the CMD parameter can be any one of the TL1 command codes, in upper or lower case. Values are: <table><tr><td><TL1 Command Code></td><td>Any of the TL1 command codes, in upper or lower case.</td></tr><tr><td>ALL, all</td><td>All TL1 command codes.</td></tr></table>	<TL1 Command Code>	Any of the TL1 command codes, in upper or lower case.	ALL, all	All TL1 command codes.
<TL1 Command Code>	Any of the TL1 command codes, in upper or lower case.				
ALL, all	All TL1 command codes.				
CCFC	<1 -26 VALID CCFC CHARACTERS> Default: {ABCDEFGHIJKLMNOPQRSTUVWXYZ} Addressing: None Description: Command Code Functional Category, specifies the security group(s) to be retrieved. CCFC is specified as a string of 1 to 26 non-case sensitive, order independent, alphabetic characters. Refer to Appendix H, User Command Privilege Defaults (CCAL & CCFC).				

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  ["<CMD>:<CCFC>,<CCAL>"]
  [/* No Command Subscribed To Specified Group */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

CMD	<TL1 COMMAND CODE> Command, identifies the TL1 command code.
CCFC	<1 –26 VALID (A–Z) CCFC CHARACTERS> Command Community Functional Category, indicates the security groups the command is assigned to.
CCAL	{1–32} Command Community Authorization Level, indicates the security level for the command. Commands that can only be executed by the system administrator (UID of “system” or “SYSTEM”) have the security level of 31. Commands that can only be executed by the Alcatel account user have the security level of 32.

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Optional Suggested Action Text> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IPNV	Input, Parameter Not Valid
	/* Invalid Command */
	/* Entry in CCFC group not valid, <group> */
	/* Illegal Input: CCFC */
	/* Illegal Input: COMMAND, CCFC */
	/* Illegal Input: COMMAND */
	/* Illegal Input: CCFC length */

EXAMPLES

In the following example, the CCFC and CCAL settings for the STOP-CID command are retrieved.

```
RTRV-PRVG-CMD:::::STOP-CID;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P0d033. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M P0d033 COMPLD  
"STOP-CID:ABCZ,12"  
/* RTRV-PRVG-CMD:::::STOP-CID [P0d033] (1) */  
;
```

In the following example, the CCFC and CCAL settings for all commands with a CCFC of F are retrieved.

```
RTRV-PRVG-CMD:::::,F;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P0d039. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M P0d039 COMPLD  
"ACT-USER:ABCDEFGHIJKLMNPOQRSTUVWXYZ,1"  
"CANC-USER:ABCDEFGHIJKLMNPOQRSTUVWXYZ,1"  
"RTRV-HDR:AFHYZ,15"  
"RTRV-ALM-ALL:DFZ,15"  
"RTRV-COND-ALL:DFZ,15"  
"RTRV-PM-T3:EFZ,15"  
"SCHED-PMREPT-ALL:FZ,15"  
/* RTRV-PRVG-CMD:::::,F [P0d039] (1) */  
;
```

RELATED COMMANDS

```
ED-GROUP-CMD  
ED-PRVG-CMD  
ED-PRVG-USER  
ENT-USER  
RTRV-PRVG-USER
```


COMMAND CODE: **RTRV-PRVG-USER**
COMMAND NAME: **RETRIEVE PRIVILEGE USER**

PURPOSE

The RTRV-PRVG-USER command retrieves the user profile entry, identified by the specified UID, UCFCI, and UCFCO “search keys”, in the User Security Database.

The system administrator (UID of “system” or “SYSTEM”) or Alcatel account user can retrieve any or all user profile entries. Any other user can only retrieve their own user profile entry.

The successful response for a RTRV-PRVG-USER command contains one line of parsable output data for each user security database entry retrieved. If a database entry matching the specified UID, UCFCI, and UCFCO values is not found, then no parsable output data is provided and a line of non-parsable output informational text is provided.

The RTRV-PRVG-USER command is denied if:

- The specified UID is not the UID of the user executing the command, unless the UID is “system” or “SYSTEM”.
- An invalid parameter value is entered.

INPUT FORMAT

RTRV-PRVG-USER: [TID] : : [CTAG] : : [UID] , [UCFCI] , [UCFCO] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
UID	{<5-12 VALID UID CHARACTERS>, ALL, all} Default: <UID of the user entering the command> (If the user entering the command is not the system administrator or the Alcatel account user) {ALL} (If the user entering the command is the system administrator or the Alcatel account user) Addressing: None Description: User Identifier, specifies the user ID whose user security database entry is to be retrieved. (Refer to the UID parameter in ENT-USER for a description of valid UID values.) Values are: <Valid UID> User security database entry for the specified UID is retrieved. ALL, all User security database entry for all UIDs are retrieved. Restrictions: RTRV-PRVG-USER is denied if UID of {ALL, all} is entered and the user entering the command is not the system administrator or the Alcatel account user.

UCFCI	<p><1–26 VALID (A–Z) UCFCI CHARACTERS> Default: {ABCDEFGHIJKLMNOPQRSTUVWXYZ} Addressing: None Description: User Command Functional Category, Input, specifies the command access input security CCFC group(s) for the user (defines the set of TL1 commands the user can execute). Each input security group contains one or more TL1 command. Up to 26 input security groups A–Z can be specified for the user. To execute a command, a user must belong to at least one input security group assigned to the TL1 command to be executed. UCFCI is specified as a string of up to 26 order-independent, non-case sensitive characters A–Z. If a character is entered more than once in the string the system accepts the string as if the character was only entered once. Refer to Appendix H, User Command Privilege Defaults (CCAL & CCFC), for the default security groups.</p>
UCFCO	<p><1–26 VALID (A–Z) UCFCO CHARACTERS> Default: {ABCDEFGHIJKLMNOPQRSTUVWXYZ} Addressing: None Description: User Command Functional Category, Output, specifies the command access output security group(s) for the user (defines the TL1 command output responses a user receives because of commands executed by another user). UCFCO does not filter output responses for commands executed by the user, UCFCO only filters output responses for commands executed by another user. Each output security group contains one or more TL1 commands. Up to 26 output security groups A–Z can be specified for the user. To receive output responses from a command executed by another user, a user must belong to at least one output security group assigned to the TL1 command. If a user is assigned UCFCO of Z, the user receives output results from all TL1 commands executed by another user. UCFCO is specified as a string of up to 26 order-independent, non-case sensitive characters A–Z. If a character is entered more than once in the string the system accepts the string as if the character was only entered once. Refer to Appendix H, User Command Privilege Defaults (CCAL & CCFC), for the default security groups.</p>

SUCCESSFUL RESPONSE FORMAT

The following successful response format is used if a database entry satisfying the specified search key values for UID, UCFCI, and UCFCO is found.

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  "<UID>:<UCFCI>,<UCFCO>,<UCAL>,<OMODE>,[<OSL>],[<UNAM>],<RUSURE>,<DSKBFIND>,<TYPE>,<DM>,[<PARTNAM>],<OSTYPE>,<LNKTMR>,<LOTO>,<KAMINTVL>,<MIPINTVL>"
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

The following successful response format is used if a database entry satisfying the specified search key values for UID, UCFCI, and UCFCO is not found.

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* No match found for user input group, <UCFCI> */]
  [/* No match found for user output group, <UCFCO> */]
  [/* No user(s) found within specified group */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

OUTPUT PARAMETERS

UID	<5–12 VALID UID CHARACTERS> User Identifier, identifies the UID for the database entry being retrieved.																				
UCFCI	<1–26 VALID UCFCI CHARACTERS> User Command Functional Category, Input, identifies the provisioned UCFCI value assigned to the user. (Also refer to the Introduction for a description of User Security and to Appendix H, User Command Privilege Defaults (CCAL & CCFC).)																				
UCFCO	<1–26 VALID UCFCI CHARACTERS> User Command Functional Category, Output, identifies the provisioned UCFCO value assigned to the user. (Also refer to the Introduction for a description of User Security and to Appendix H, User Command Privilege Defaults (CCAL & CCFC).)																				
UCAL	{1–32} User Command Authorization Level, identifies the provisioned UCAL value assigned to the user. UCAL values of 31 and 32 are reserved for the system administrator and Alcatel account, respectively. (Also refer to the Introduction for a description of User Security and to Appendix H, User Command Privilege Defaults (CCAL & CCFC).)																				
OMODE	{C} Command Input Operational Mode, indicates the system initializes to the Direct Command Input mode.																				
OSL	{<String of characters composed of {B, C, D, E, H, I, M, m, O, P, R, S, W}>, <NoVal>} Output Subscription Level, identifies the unsolicited output response messages a user receives. The OSL value reported is a case-sensitive, order-independent character string composed of any or all of the characters in the OSL value set of {B, C, D, E, H, I, M, m, O, P, R, S, W} (e.g., CMmEDPSOWR) or no value. If an OSL value of A was provisioned, the reported OSL value is BCDEHIMmOSW. If an OSL value of Z was provisioned, no value is reported for OSL. Values are: <table> <tr> <td>B</td><td>Report Data(B)ase Change messages (via REPT^DBCHG).</td></tr> <tr> <td>C</td><td>Report setting/clearing of (C)ritical alarms (via REPT^ALM) for equipment alarms and facility alarms.</td></tr> <tr> <td>D</td><td>Report Con(D)ition messages. (Note. The REPT^COND autonomous message type is not currently implemented in the system.)</td></tr> <tr> <td>E</td><td>Report (E)vent messages (via REPT^EVT^EQPT, REPT^EVT^T1, or REPT^EVT^T3). The E option does not disable the warning message generated at user login (via REPT^EVT^SESSION).</td></tr> <tr> <td>H</td><td>Reserved for future use. This OSL value (currently) has no affect.</td></tr> <tr> <td>I</td><td>Report (I)nitilization messages (via REPT^INITZN).</td></tr> <tr> <td>M</td><td>Report setting/clearing of (M)ajor alarms (via REPT^ALM) for equipment alarms and facility alarms.</td></tr> <tr> <td>m</td><td>Report setting/clearing of (m)inor alarms (via REPT^ALM) for equipment alarms and facility alarms.</td></tr> <tr> <td>O</td><td>Provide Command ech(O) output response line for all responses. Refer to the Introduction for a description of other non-parsable text lines in successful, unsuccessful, and acknowledgement response messages controlled by the O option.</td></tr> <tr> <td>P</td><td>Report scheduled daily (P)erformance monitoring (PM) (via REPT^PM). (Note. The P filter does not affect PM threshold crossing alert messages. These are REPT^EVT messages.)</td></tr> </table>	B	Report Data(B)ase Change messages (via REPT^DBCHG).	C	Report setting/clearing of (C)ritical alarms (via REPT^ALM) for equipment alarms and facility alarms.	D	Report Con(D)ition messages. (Note. The REPT^COND autonomous message type is not currently implemented in the system.)	E	Report (E)vent messages (via REPT^EVT^EQPT, REPT^EVT^T1, or REPT^EVT^T3). The E option does not disable the warning message generated at user login (via REPT^EVT^SESSION).	H	Reserved for future use. This OSL value (currently) has no affect.	I	Report (I)nitilization messages (via REPT^INITZN).	M	Report setting/clearing of (M)ajor alarms (via REPT^ALM) for equipment alarms and facility alarms.	m	Report setting/clearing of (m)inor alarms (via REPT^ALM) for equipment alarms and facility alarms.	O	Provide Command ech(O) output response line for all responses. Refer to the Introduction for a description of other non-parsable text lines in successful, unsuccessful, and acknowledgement response messages controlled by the O option.	P	Report scheduled daily (P)erformance monitoring (PM) (via REPT^PM). (Note. The P filter does not affect PM threshold crossing alert messages. These are REPT^EVT messages.)
B	Report Data(B)ase Change messages (via REPT^DBCHG).																				
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R	Report erro(R) messages (via REPT^HWSW). (These are Alcatel autonomous informational messages.)
S	Report (S)tatus messages (via REPT^INFORMATION or REPT^STAT). (These are Alcatel autonomous informational messages.)
W	Report (W)orld responses from all TL1 commands executed by any other user. A user subscribing to the W option receives all autonomous responses and the output responses for commands executed by another user according to the user's UCFCO value.
<NoVal>	No value is reported if no OSL values were provisioned (all OSL filters are off and the user will not receive unsolicited messages).
UNAM	<p>{1–18 VALID UNAM CHARACTERS, <NoVal>}</p> <p>User Name, identifies the provisioned UNAM value. Values are:</p> <p><Provisioned UNAM value></p> <p><NoVal> No value is reported if a UNAM value was not provisioned via ENT–USER or ED–PRVG–USER.</p>
RUSURE	<p>{NO, YES}</p> <p>Are You Sure Prompt, indicates whether the user is to receive an additional RUSURE prompt for the RESTORE–DB and DLT–PARTITN commands. The RUSURE prompt allows the user to cancel the execution of the command before any changes in the system are made. Values are:</p> <p>NO No, the user will not receive an RUSURE prompt.</p> <p>YES Yes, the user will receive an RUSURE prompt when the user enters a RESTORE–DB or DLT–PARTITN command.</p>
DSKBFIND	<p>{ALWAYS, NEVER}</p> <p>Disk Buffer Find Indicator, indicates whether a user receives all output messages the user is subscribed to receive (via the user's OSL and UCFCO values), that were generated while the user was logged off the system, when the user re–logs in to the system. Values are:</p> <p>ALWAYS Always, when the user logs in, the user receives all output messages the user is subscribed to receive that were generated while the user was logged off the system.</p> <p>NEVER Never, when the user logs in, the user does not receive disk buffered response messages. The user only receives current response messages.</p>
TYPE	<p>{PRN, TTY, VDT}</p> <p>Terminal Type, indicates the terminal CPORT configuration for the user. Values are:</p> <p>PRN Printer (output only) CPORT.</p> <p>TTY Teletype Terminal, non–cursor addressable input/output terminal.</p> <p>VDT Video Display Terminal, cursor addressable video display terminal.</p>
DM	<p>{ECHO, NA, NOECHO}</p> <p>TTY Display Mode, indicates the display mode for a TTY terminal. Values are:</p> <p>ECHO Character Echo, input characters are echoed.</p> <p>NA Not Applicable, value used for DM when TYPE is not TTY.</p> <p>NOECHO Character Not Echo, input characters are not echoed.</p>
PARTNAM	<p>{<1–20 VALID PARTITION NAME CHARACTERS>, <NoVal>}</p> <p>Partition Name, indicates the provisioned value for PARTNAM.</p> <p><Provisioned PARTNAM value></p> <p><NoVal> No value is reported if a PARTNAM value was not provisioned.</p>

OSTYPE	<p>{ITS, NMA, OPSINE, OTHER, TSC}</p> <p>Operations System Type, identifies the provisioned OSTYPE value. Values are:</p> <table> <tr> <td>ITS</td><td>Integrated Test Systems. Allows the user to enter non-universal AIDs for commands while the system is in universal AID mode. Inputs that are not in the universal AID format will have the universal AID structures appended on the input and extracted on the output.</td></tr> <tr> <td>NMA</td><td>Network Monitoring and Analysis OS.</td></tr> <tr> <td>OPSINE</td><td>Operations System for Intelligent Network Elements OS.</td></tr> <tr> <td>OTHER</td><td>Any OS type other than NMA, OPSINE, and TSC.</td></tr> <tr> <td>TSC</td><td>Test Session Controller OS.</td></tr> </table>	ITS	Integrated Test Systems. Allows the user to enter non-universal AIDs for commands while the system is in universal AID mode. Inputs that are not in the universal AID format will have the universal AID structures appended on the input and extracted on the output.	NMA	Network Monitoring and Analysis OS.	OPSINE	Operations System for Intelligent Network Elements OS.	OTHER	Any OS type other than NMA, OPSINE, and TSC.	TSC	Test Session Controller OS.
ITS	Integrated Test Systems. Allows the user to enter non-universal AIDs for commands while the system is in universal AID mode. Inputs that are not in the universal AID format will have the universal AID structures appended on the input and extracted on the output.										
NMA	Network Monitoring and Analysis OS.										
OPSINE	Operations System for Intelligent Network Elements OS.										
OTHER	Any OS type other than NMA, OPSINE, and TSC.										
TSC	Test Session Controller OS.										
LNKTMR	<p>{0–3600}</p> <p>CPORT Activity Link Timer, identifies the amount of time (in seconds) that the CPORT link is inactive before a link time-out event occurs. LNKTMR is not triggered by a user login, but by CPORT link communication activity after the login occurs. The LOTO parameter determines whether the user is automatically logged out if a link time-out occurs. Values are:</p> <table> <tr> <td>0</td><td>Disabled, no link time-out will occur.</td></tr> <tr> <td>1–3600</td><td>Time in seconds, indicates the LNKTMR time interval. A link time-out occurs if the link is inactive for the time, in seconds, indicated.</td></tr> </table>	0	Disabled, no link time-out will occur.	1–3600	Time in seconds, indicates the LNKTMR time interval. A link time-out occurs if the link is inactive for the time, in seconds, indicated.						
0	Disabled, no link time-out will occur.										
1–3600	Time in seconds, indicates the LNKTMR time interval. A link time-out occurs if the link is inactive for the time, in seconds, indicated.										
LOTO	<p>{LOGOUT, NOLOGOUT}</p> <p>Logout On Link Timer Time-out, indicates whether the user is logged off when the CPORT activity link timer (LNKTMR) times out.</p> <table> <tr> <td>LOGOUT</td><td>The user is logged off when the link timer expires.</td></tr> <tr> <td>NOLOGOUT</td><td>The user is not logged off when the link timer expires.</td></tr> </table>	LOGOUT	The user is logged off when the link timer expires.	NOLOGOUT	The user is not logged off when the link timer expires.						
LOGOUT	The user is logged off when the link timer expires.										
NOLOGOUT	The user is not logged off when the link timer expires.										
KAMINTVL	<p>{0, 20–300}</p> <p>Keep Alive Message Interval, indicates the amount of time (in seconds) that the user must be inactive before a Keep Alive Message (KAM) is automatically sent to the user. The user is inactive if there is no TL1 input or output (command responses, acknowledgement responses, or autonomous responses) between the user and the system. When a user logs in, the user's KAM timer is started and increments until CPORT link activity occurs. The KAM timer is reset when link activity is detected. KAM timers are not incremented when the system is in Limited Command Entry mode. Values are:</p> <table> <tr> <td>0</td><td>Disabled, a KAM timer is not active and the user does not automatically receive any KAM autonomous messages.</td></tr> <tr> <td>20–300</td><td>Time in seconds, specifies the KAM time interval. A KAM message is generated if the user's CPORT link is inactive for the time, in seconds, specified.</td></tr> </table>	0	Disabled, a KAM timer is not active and the user does not automatically receive any KAM autonomous messages.	20–300	Time in seconds, specifies the KAM time interval. A KAM message is generated if the user's CPORT link is inactive for the time, in seconds, specified.						
0	Disabled, a KAM timer is not active and the user does not automatically receive any KAM autonomous messages.										
20–300	Time in seconds, specifies the KAM time interval. A KAM message is generated if the user's CPORT link is inactive for the time, in seconds, specified.										
MIPINTVL	<p>{0, 20–3500}</p> <p>Multiple In Progress Message Interval, indicates the amount of time (in seconds) before an additional In Progress (IP) messages is generated. Any additional IP messages occur after the initial two second IP message is generated. An additional IP message for the ACT-USER, CANC-USER, ED-PID, STOP-OPS, START-OPS, or INIT-SYS commands is not generated, regardless of the MIPINTVL value. MIPINTVL timers are deactivated when the system is in Limited Command Entry mode. Values are:</p> <table> <tr> <td>0</td><td>Disabled, the user will not receive any additional IP messages after the initial two-second IP message.</td></tr> <tr> <td>20–3500</td><td>Time in seconds, indicates that an additional IP message is generated every n seconds (n=20 to 300) until the entered command completes execution.</td></tr> </table>	0	Disabled, the user will not receive any additional IP messages after the initial two-second IP message.	20–3500	Time in seconds, indicates that an additional IP message is generated every n seconds (n=20 to 300) until the entered command completes execution.						
0	Disabled, the user will not receive any additional IP messages after the initial two-second IP message.										
20–3500	Time in seconds, indicates that an additional IP message is generated every n seconds (n=20 to 300) until the entered command completes execution.										

UNSUCCESSFUL RESPONSE FORMAT

```

    <SID> <YY-MM-DD> <HH:MM:SS>
M  <CTAG> DENY
    <ERROR CODE>
    [/* <Informational Error Description Text> */]
    [/* <Expanded Error Code Description> */]
    [/* <Optional Suggested Action Text> */]
    [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid /* Privilege: UNAUTHORIZED TO REQUEST THIS COMMAND */
IPNV	Input, Parameter Not Valid /* Illegal Input: UID length */ /* Illegal Input: UID */ /* Illegal Input: UCFCI length */ /* Illegal Input: UCFCI */ /* Illegal Input: UCFCO length */ /* Illegal Input: UCFCO */ /* Entry in UCFCI group not valid, <UCFCI> */ /* Entry in UCFCO group not valid, <UCFCO> */ /* UID not found */
SDBE	Status, internal Data Base Error /* Unable to read USDB – status = <status number> */ /* User not found in USDB */
SROF	Status, Requested Operation Failed /* User not found in USDB, status= <status number> */

EXAMPLES

In the following example, RTRV-PRVG-USER is used by the system administrator to retrieve all user database entries with a UCFCI and UCFCO of F.

```
RTRV-PRVG-USER: : : : ALL, F, F;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of P0b052. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed. was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M P0b052 COMPLD  
"vdt02:F,F,30,C,CMmEDPOSW,,YES,ALWAYS,VDT,NA,,OTHER,0,NOLOGOUT,0,0"  
/* RTRV-PRVG-USER: : : : ALL, , F [P0b052] (2) */  
;
```

In the following example, RTRV-PRVG-USER is used by the the system administrator to retrieve all user database entries with a UCFCO of E.

```
RTRV-PRVG-USER: : : : ALL, , E;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P0b043. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed. was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M P0b043 COMPLD  
/* No User(s) Found Within Specified Group */  
/* RTRV-PRVG-USER: : : : ALL, , E [P0b043] (1) */  
;
```

RELATED COMMANDS

DLT-USER
ED-PID
ED-PRVG-USER
ENT-USER
ENT-PARTITN

COMMAND CODE: **RTRV-PTHTRC-STS1**
COMMAND NAME: **RETRIEVE PATH TRACE STS-1**

PURPOSE

The RTRV-PTHTRC-STS1 command retrieves the contents of the STS-1 path trace message, a 64-character ASCII message. This command may be used to retrieve the “incoming” path trace message, “expected” path trace message or the “outgoing” path trace message (which is inserted into the Path overhead of the outgoing STS-1. The “expected” and “outgoing” path trace message can be entered with ENT/ED-STS1 command.

In ring mode (refer to ENT-RNG-OC3), the RTRV-PTHTRC-STS1 command displays the path trace message(s) for STS-1s that are part of an odd-numbered or even-numbered ring OC-3 or OC-12.

A RTRV-PTHTRC-STS1 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-PTHTRC-STS1 : [TID] : AID : [CTAG] : : [MSGTYPE] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >	
	Default:	<SID>
	Addressing:	None
	Description:	Target Identifier, specifies the network node TID for the command.
AID	STS1_AID:	
	{EC1STS1-{1-3840}}	(EC1STS1-EC1/STS1#)
	{OC3STS1-{1-2240}-{1-3}}	(OC3STS1-OC3#-STS1#)
	{OC12STS1-{1-560}-{1-4}-{1-3}}	(OC12STS1-OC12#-STM1#-STS1#)
	Default:	Entry Required
	Addressing:	None
	Description:	Identifies STS-1 port whose path trace is to be retrieved.
CTAG	< 1-6 VALID CTAG CHARACTERS >	
	Default:	< System assigned CTAG value >
	Addressing:	None
	Description:	Correlation Tag, associates input command with its output responses.
MSGTYPE	{ALL, EXPTRC, INCTRC, TRC}	
	Default:	{INCTRC}
	Addressing:	None
	Description:	Message type. Identifies the type of message to be retrieved. The valid values are:
	ALL	All the types of the path trace to be retrieved.
	EXPTRC	Expected path trace message to be retrieved.
	INCTRC	Incoming path trace message to be retrieved.
	TRC	Transmitted path trace message to be retrieved.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  "\"<TRC1>\\" [
  "\"<TRC2>\\"
  "\"<TRC3>\\" ]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
i

```

OUTPUT PARAMETERS

- <TRC1> What is displayed in this field depends on the MSGTYPE parameter. If the MSGTYPE is ALL, then INCTRC is displayed and if the MSGTYPE is not ALL, then the selected path trace message is displayed. This consists of 0–62 ASCII printable characters followed by a CR and LF. If the path trace to be displayed is all ASCII NULLs (00 Hex), then only “.” will be displayed. If the path trace to be displayed is all other non–printable ASCII type characters, then only “?” will be displayed.
- <TRC2> This field is displayed only if the MSGTYPE is ALL and it displays the “outgoing” (transmitted) path trace (TRC). This consists of 0–62 ASCII printable characters followed by a CR and LF. If the path trace to be displayed is all ASCII NULLs (00 Hex), then only “.” will be displayed. If the path trace to be displayed is all other non–printable ASCII type characters, then only “?” will be displayed.
- <TRC3> This field is displayed only if the MSGTYPE is ALL and it displays the “expected” path trace (EXPTRC). This consists of 0–62 ASCII printable characters followed by a CR and LF. If the path trace to be displayed is all ASCII NULLs (00 Hex), then only “.” will be displayed. If the path trace to be displayed is all other non–printable ASCII type characters, then only “?” will be displayed.

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non–Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid
IIAC	Input, Invalid ACcess identifier
SDBE	Status, internal Data Base Error
	/* TP Database Error: <ERROR-STRING> for <AID-STRING> */
SROF	Status, Requested Operation Failed
	/* Could not communicate with the SPB.*/
	/* Bad response code returned from SPB (<RESPONSE_CODE>) */
SSRE	Status, System Resources Exceeded

EXAMPLES

The following example illustrates the command and associated response output.

```
RTRV-PTHTRC-STs1: :EC1STs1-42;
```

The output response, shown below, assumes CID 4 was used to enter the command and a system generated CTAG value of Pac579. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pac579 COMPLD
  "\INCOMING PATH TRACE GOES HERE\"
  /* RTRV-PTHTRC-STs1: :EC1STs1-42 [Pac579] (4) */
;
```

The following example illustrates the command and associated response output.

```
RTRV-PTHTRC-STs1::EC1STs1-41:::ALL;
```

The output response, shown below, assumes CID 4 was used to enter the command and a system generated CTAG value of Pac579. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M Pac579 COMPLD  
  "\"INCOMING PATH TRACE GOES HERE\""  
  "\"TRANSMITTED PATH TRACE GOES HERE\""  
  "\"EXPECTED PATH TRACE GOES HERE\""  
/* RTRV-PTHTRC-STs1::EC1STs1-41:::ALL [Pac579] (4) */  
;
```

RELATED COMMANDS

```
ED-STs1  
ENT-STs1  
RTRV-STs1  
SET-DFLT-STs1
```


COMMAND CODE: **RTRV-PTHTRC-STS3C**
COMMAND NAME: **RETRIEVE PATH TRACE STS-3C**

PURPOSE

The RTRV-PTHTRC-STS3C command retrieves the contents of the STS3C path trace message, a 64-character ASCII message. This command may be used to retrieve the "incoming" path trace message or "expected" path trace message. The "expected" path trace message can be entered with ENT/ED-STS3C command. If RTRV-PTHTRC-STS3C is issued successfully and the incoming path trace message does not contain CR, LF characters, then the system displays the incoming path trace message without the CR, LF characters.

If RTRV-PTHTRC-STS3C is issued with MSGTYPE of ALL or INCTRC and either the STS-3C is in a LOP condition or its containing OC-3/OC-12 is in LOS/LOF/AIS-L condition(s), then the command is completed and a null string (i.e., "\") for the incoming path trace is displayed. If RTRV-PTHTRC-STS3C is issued on an STS-3C which is not provisioned, then the command is completed with no line of parsable output data provided.

A RTRV-PTHTRC-STS3C command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-PTHTRC-STS3C: [TID] :AID: [CTAG] :: [MSGTYPE] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	STS3C_AID: {OC3STS3C-{1-2240}} (OC3STS3C-OC3#/STS3C#) {OC12STS3C-{1-560}-{1-4}} (OC12STS3C-OC12#-STM1/STS3C#) Default: Entry Required Addressing: None Description: Identifies STS-3C port whose path trace is to be retrieved.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
MSGTYPE	{ALL, EXPTRC, INCTRC, TRC} Default: {INCTRC} Addressing: None Description: Message type. Identifies the type of path trace message to be retrieved. The valid values are: ALL All the types of the path trace messages, whichever exist, to be retrieved. EXPTRC Expected incoming path trace message to be retrieved. INCTRC Incoming path trace message to be retrieved. TRC Transmitted path trace message to be retrieved.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  "\"<TRC1>\\" [
  "\"<TRC2>\\"
  "\"<TRC3>\\" ]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

OUTPUT PARAMETERS

- <TRC1> What is displayed in this field depends on the MSGTYPE parameter. If the MSGTYPE is ALL, then INCTRC is displayed and if the MSGTYPE is not ALL, then the selected path trace message is displayed. This consists of 0–62 ASCII printable characters followed by a CR and LF. If the path trace to be displayed is all ASCII NULLs (00 Hex), then only “.” will be displayed. If the path trace to be displayed is all other non–printable ASCII type characters, then only “?” will be displayed.
- <TRC2> This field is displayed only if the MSGTYPE is ALL and it displays the “outgoing” (transmitted) path trace (TRC). This consists of 0–62 ASCII printable characters followed by a CR and LF. If the path trace to be displayed is all ASCII NULLs (00 Hex), then only “.” will be displayed. If the path trace to be displayed is all other non–printable ASCII type characters, then only “?” will be displayed.
- <TRC3> This field is displayed only if the MSGTYPE is ALL and it displays the “expected” path trace (EXPTRC). This consists of 0–62 ASCII printable characters followed by a CR and LF. If the path trace to be displayed is all ASCII NULLs (00 Hex), then only “.” will be displayed. If the path trace to be displayed is all other non–printable ASCII type characters, then only “?” will be displayed.

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non–Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid
IIAC	Input, Invalid ACcess identifier
SDBE	Status, internal Data Base Error
	/* TP Database Error: <ERROR-STRING> for <AID-STRING> */
SROF	Status, Requested Operation Failed
	/* Could not communicate with the SPB.*/
	/* Bad response code returned from SPB (<RESPONSE_CODE>) */
SSRE	Status, System Resources Exceeded

EXAMPLES

The following example illustrates the command and associated response output.

```
RTRV-PTHTRC-STS3C: :OC3STS3C-12;
```

The output response, shown below, assumes CID 4 was used to enter the command and a system generated CTAG value of Pac579. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M Pac579 COMPLD  
  "\"INCOMING PATH TRACE GOES HERE\""  
/* RTRV-PTHTRC-STS3C: :OC3STS3C-12 [Pac579] (4) */  
;
```

The following example illustrates the command and associated response output.

```
RTRV-PTHTRC-STS3C: :OC3STS3C-11:::ALL;
```

The output response, shown below, assumes CID 4 was used to enter the command and a system generated CTAG value of Pac579. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M Pac579 COMPLD  
  "\"INCOMING PATH TRACE GOES HERE\""  
  "\"TRANSMITTED PATH TRACE GOES HERE\""  
  "\"EXPECTED PATH TRACE GOES HERE\""  
/* RTRV-PTHTRC-STS3C: :OC3STS3C-11:::ALL [Pac579] (4) */  
;
```

RELATED COMMANDS

```
ED-STS3C  
ENT-STS3C  
RTRV-STS3C  
SET-DFLT-STS3C
```


COMMAND CODE: **RTRV-RDL-ALL**
COMMAND NAME: **RETRIEVE RED LINED ALL**

PURPOSE

The RTRV-RDL-ALL command retrieves a listing of cross-connections which have previously been designated as Red Lined. The command is executed regardless of the state of the cross-connections.

The successful response for a RTRV-RDL-ALL contains one line of parsable output data for each red lined cross-connection. An SST value is only displayed when a secondary state is currently applied to the cross-connection.

A separate line of parsable output data is provided for each of the following red lined cross-connect situations:

- 1WAY: One line of data for each one-way cross-connection, including the case of a one-way bridge connection, or a connection from a conference tail connected back to the conference head.
- 2WAY: One line of data for each two-way cross-connection, whether the two-way cross-connection was established as a single two-way cross-connect or as two one-way cross-connects.
- 2WAYPR: One line of data for each two-way path ring cross-connection. (Only preferred side is shown.)
- 2WAYDC: One line of data for each two-way drop and continue cross-connection. (Only preferred side is shown.)
- BCST: One line of data for each one-way cross-connection from the conference head to each conference tail.

A RTRV-RDL-ALL command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-RDL-ALL: [TID] : [AID] : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	<ALL> Default: <ALL> cross-connections (No entry necessary) Addressing: None Description: ALL may be entered or omitted. No other entry will be accepted.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
" <FROM>, <TO>: <CTYPE>, <LEVEL>: [RDL=] [ , CKTID=] [ , CKTIDTF=] : <PST> [ , <SST> ] "
[ /* <Command Echo> [<CTAG>] (<CID [-VCNUM]>) */ ]
;
```

OUTPUT PARAMETERS

FROM	DS1_AID:	
	{T1-{1-59392}}	(T1-DS1#)
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)
	{EC1T1-{1-3840}-{1-28}}	(EC1T1-EC1/STS1/DS3#-DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-28}}	(OC3T1-OC3#-STS1/DS3#-DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}	(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)
	VT1_AID:	
	{EC1VT1-{1-3840}-{1-7}-{1-4}}	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)
	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)
	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	
	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)	
	DS3_AID:	
	{T3-{1-4800}}	(T3-DS3#)
	STS1_AID:	
	{EC1STS1-{1-3840}}	(EC1STS1-EC1/STS1#)
	{OC3STS1-{1-2240}-{1-3}}	(OC3STS1-OC3#-STS1#)
	{OC12STS1-{1-560}-{1-4}-{1-3}}	(OC12STS1-OC12#-STM1#-STS1#)
	STS3C_AID:	
	{OC3STS3C-{1-2240}}	(OC3STS3C-OC3#/STS3C#)
	{OC12STS3C-{1-560}-{1-4}}	(OC12STS3C-OC12#-STM1/STS3C#)
	DS1, VT1, DS3, STS1, or STS3C AID, indicates the FROM (receive side from the network) port of the cross-connection.	
TO	DS1_AID:	
	{T1-{1-59392}}	(T1-DS1#)
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)
	{EC1T1-{1-3840}-{1-28}}	(EC1T1-EC1/STS1/DS3#-DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-28}}	(OC3T1-OC3#-STS1/DS3#-DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}	(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)
	VT1_AID:	
	{EC1VT1-{1-3840}-{1-7}-{1-4}}	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)
	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)
	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	
	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)	
	DS3_AID:	
	{T3-{1-4800}}	(T3-DS3#)
	STS1_AID:	
	{EC1STS1-{1-3840}}	(EC1STS1-EC1/STS1#)
	{OC3STS1-{1-2240}-{1-3}}	(OC3STS1-OC3#-STS1#)
	{OC12STS1-{1-560}-{1-4}-{1-3}}	(OC12STS1-OC12#-STM1#-STS1#)
	STS3C_AID:	
	{OC3STS3C-{1-2240}}	(OC3STS3C-OC3#/STS3C#)
	{OC12STS3C-{1-560}-{1-4}}	(OC12STS3C-OC12#-STM1/STS3C#)
	DS1, VT1, DS3, STS1, or STS3C AID, indicates the TO (transmit side to the network) port of the cross-connection.	
CTYPE	{1WAY, 2WAY, 2WAYPR, 2WAYDC, BCST}	
	Cross-connection Type. Values are:	
	1WAY	One-way cross-connection
	2WAY	Two-way cross-connection
	2WAYPR	Two-Way Path Protected connection
	2WAYDC	Two-Way Drop and Continue connection
	BCST	Broadcast conference cross-connection.

LEVEL	{STS1, STS3C, T1, T3, VT1} Rate of the cross-connected channel. Valid values are: <table> <tr> <td>STS1</td><td>STS-1 cross connection, only displayed for an STS-1 to STS-1 cross connection.</td></tr> <tr> <td>STS3C</td><td>STS-3C cross connection, only displayed for an STS-3C to STS-3C cross connection.</td></tr> <tr> <td>T1</td><td>DS1 cross connection, displayed for a DS1 to DS1 and DS1 to VT1.5 cross connection.</td></tr> <tr> <td>T3</td><td>DS3 cross connection, displayed for a DS3 to DS3 and DS3 to STS-1 cross connection.</td></tr> <tr> <td>VT1</td><td>VT1.5 cross connection, only displayed for a VT1.5 to VT1.5 cross connection.</td></tr> </table>	STS1	STS-1 cross connection, only displayed for an STS-1 to STS-1 cross connection.	STS3C	STS-3C cross connection, only displayed for an STS-3C to STS-3C cross connection.	T1	DS1 cross connection, displayed for a DS1 to DS1 and DS1 to VT1.5 cross connection.	T3	DS3 cross connection, displayed for a DS3 to DS3 and DS3 to STS-1 cross connection.	VT1	VT1.5 cross connection, only displayed for a VT1.5 to VT1.5 cross connection.
STS1	STS-1 cross connection, only displayed for an STS-1 to STS-1 cross connection.										
STS3C	STS-3C cross connection, only displayed for an STS-3C to STS-3C cross connection.										
T1	DS1 cross connection, displayed for a DS1 to DS1 and DS1 to VT1.5 cross connection.										
T3	DS3 cross connection, displayed for a DS3 to DS3 and DS3 to STS-1 cross connection.										
VT1	VT1.5 cross connection, only displayed for a VT1.5 to VT1.5 cross connection.										
RDL	{Y} Red Line Status of Cross-Connection. Value: <table> <tr> <td>Y</td><td>Connection is Redlined.</td></tr> </table>	Y	Connection is Redlined.								
Y	Connection is Redlined.										
CKTID	{<0-45 VALID CKTID CHARACTERS>} FROM-TO circuit ID previously assigned to cross-connection (only displayed for non-NULL values)										
CKTIDTF	{<0-45 VALID CKTIDTF CHARACTERS>} TO-FROM circuit ID previously assigned to cross-connection (only displayed for non-NULL values)										
PST	{IS, OOS-AU} Primary State, indicates the current primary state of the cross-connection. Refer to Appendix G, State Transitions for a definition of state names and description of state transitions. Values are: <table> <tr> <td>IS</td><td>In-Service</td></tr> <tr> <td>OOS-AU</td><td>Out-Of-Service-Autonomous</td></tr> </table>	IS	In-Service	OOS-AU	Out-Of-Service-Autonomous						
IS	In-Service										
OOS-AU	Out-Of-Service-Autonomous										
SST	{SGEO, STBYH, TS, WRK} Secondary State, indicates any secondary states associated with the cross-connection. SST values may be shown in the output combined with an ampersand (&) if more than one value applies to the cross-connection at the time of the RTRV-RDL-ALL. Refer to Appendix G, State Transitions for a definition of state names and description of state transitions. Values are: <table> <tr> <td>SGEO</td><td>Supporting Entity Outage</td></tr> <tr> <td>STBYH</td><td>Stand-by Hot. Applies when CTYPE = 2WAYPR and 2WAYDC. STBYH indicates all the entities required for the cross connection are in-service. But the path is not selected in the RPB module and is ready to be selected if a failure is detected in the working connection.</td></tr> <tr> <td>TS</td><td>Test, indicates the port is connected to a Test Access port.</td></tr> <tr> <td>WRK</td><td>Working. Applies when CTYPE = 2WAYPR and 2WAYDC. WRK indicates all entities required for the cross connection are in-service and the path is selected in the RPB module.</td></tr> </table>	SGEO	Supporting Entity Outage	STBYH	Stand-by Hot. Applies when CTYPE = 2WAYPR and 2WAYDC. STBYH indicates all the entities required for the cross connection are in-service. But the path is not selected in the RPB module and is ready to be selected if a failure is detected in the working connection.	TS	Test, indicates the port is connected to a Test Access port.	WRK	Working. Applies when CTYPE = 2WAYPR and 2WAYDC. WRK indicates all entities required for the cross connection are in-service and the path is selected in the RPB module.		
SGEO	Supporting Entity Outage										
STBYH	Stand-by Hot. Applies when CTYPE = 2WAYPR and 2WAYDC. STBYH indicates all the entities required for the cross connection are in-service. But the path is not selected in the RPB module and is ready to be selected if a failure is detected in the working connection.										
TS	Test, indicates the port is connected to a Test Access port.										
WRK	Working. Applies when CTYPE = 2WAYPR and 2WAYDC. WRK indicates all entities required for the cross connection are in-service and the path is selected in the RPB module.										

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
i

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
SDBE	Status, internal Data Base Error /* TP Database Error: <ERROR-STRING> for <AID-STRING> */ /* CONN Database Error: <ERROR-STRING> for <AID-STRING> */ /* CONF Database Error: <ERROR-STRING> for record number <RECORD-NUMBER> */ /* RIP Database Error: <ERROR-STRING> for record number <RECORD-NUMBER> */
SROF	Status, Requested Operation Failed

EXAMPLES

The following example illustrates the RTRV-RDL-ALL command and associated output.

```
RTRV-RDL-ALL;
```

The output response below shows a system-generated CTAG value of Pad568 and all red lined connections in the system.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pad568 COMPLD
  "T3T1-1-6,T3T1-5-3:2WAY,T1:,RDL=Y,CKTID=\"TESTCKT\",CKTIDTF=\"CKTFROM\"
:IS"
  "T3T1-1-7,T3T1-5-4:1WAY,T1:,RDL=Y,CKTID=\"TESTCKT\":IS"
  "T3T1-600-13,T3T1-5-5:1WAY,T1:,RDL=Y,CKTID=\"TESTCKT02\":IS"
/* RTRV-RDL-ALL [Pad568] (2) */
;
```

RELATED COMMANDS

DLT-CONF-T1
DLT-CONF-VT1
DLT-CRS-STs1
DLT-CRS-STs3C
DLT-CRS-T1
DLT-CRS-T3
DLT-CRS-VT1
ED-CONF-T1
ED-CONF-VT1
ED-CRS-STs1
ED-CRS-STs3C
ED-CRS-T1
ED-CRS-T3
ED-CRS-VT1
ENT-CONF-T1
ENT-CONF-VT1
ENT-CRS-STs1
ENT-CRS-STs3C
ENT-CRS-T1
ENT-CRS-T3
ENT-CRS-VT1
RTRV-CKTID
RTRV-CONF-T1
RTRV-CONF-VT1
RTRV-CRS
RTRV-CRS-ALL
RTRV-CRS-STs1
RTRV-CRS-STs3C
RTRV-CRS-T1
RTRV-CRS-T3
RTRV-CRS-VT1

COMMAND CODE: **RTRV-RIP-PRMTR**
COMMAND NAME: **RETRIEVE RIP PARAMETERS**

PURPOSE

The RTRV-RIP-PRMTR command retrieves the Routing Information Protocol (RIP) parameters of the Local Area Network (LAN) interface on the Intelligent Communication Module (ICM). This command retrieves the network layer (Layer 3) parameters for RIP.

The successful response for a RTRV-RIP-PRMTR contains one line of parsable output data for each specified CPORT that is provisioned as a LAN port.

The RTRV-RIP-PRMTR command can be executed while in the Limited Command Execution mode (i.e., after execution of a STOP-OPS command) or the Normal Command Execution mode.

An RTRV-RIP-PRMTR command is denied if:

- The specified CID is not configured as the LAN on the ICM.
- The specified CID is not configured with the RIP parameters being retrieved.
- An invalid parameter value is entered.

INPUT FORMAT

RTRV-RIP-PRMTR : [TID] : CPORT : [CTAG] ;

INPUT PARAMETERS

TID	< 1–20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CPORT	{3, 5, 7, 9, 11} Default: Entry Required Addressing: None Description: Control Port, identifies the CID which is configured as the LAN on the ICM module.
CTAG	< 1–6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M <CTAG> COMPLD  
  ["<CPORT>.:RIPMODE=<value>,RIPSTAT=<value>"]  
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]  
;
```

OUTPUT PARAMETERS

RIPMODE=	{V1, V2, V1V2} Routing Information Protocol (RIP) Mode, determines which RIP version the router supports in the receive direction. Values are: V1 Version 1, specifies only Version 1 of the RIP is supported in the receive direction. V2 Version 2, specifies only Version 2 of the RIP is supported in the receive direction. V1V2 Version 1 and Version 2, specifies both Version 1 and Version 2 of the RIP are supported in the received direction.
----------	--

RIPSTAT= {DISABLE, ENABLE}
Routing Information Protocol (RIP) Status, determines whether or not the RIP protocol is enabled on the router. Values are:
DISABLE Specifies the RIP protocol is not enabled on the router.
ENABLE Specifies the RIP protocol is enabled on the router.

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC Input, Invalid ACcess identifier

EXAMPLES

In the following example, the RIP parameters pertaining to the LAN on the ICM are being retrieved.

```
RTRV-RIP-PRMTR::5;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of Pad567. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pad567 COMPLD
"5::RIPMODE=V1V2,RIPSTAT=DISABLE"
/* RTRV-RIP-PRMTR::5 [Pad567] (2) */
;
```

RELATED COMMANDS

ED-RIP-PRMTR

COMMAND CODE: **RTRV-RNG-OC12**
COMMAND NAME: **RETRIEVE RING OC-12**

PURPOSE

The RTRV-RNG-OC12 command retrieves ring protection group pairs for OC-12 facilities (that were established with the ENT-RNG-OC-12 command). It retrieves the preferred (protected) OC-12 and its associated alternate (protecting) OC-12 (i.e., odd-numbered and even-numbered OC-12s, respectively).

The successful response for a RTRV-RNG-OC12 command contains one line of parsable output data, in ascending order (from lowest FROM AID to largest FROM AID), for each ring protection group pair of OC-12 facilities. Regardless of which OC-12 is specified by AID (i.e., preferred or alternate), AID1 displays the preferred facility and the AID2 displays the alternate facility. If no OC-12 ring is found, the command completes successfully with no line of parsable output data displayed. In addition, no line of parsable output data is displayed if the specified port is unassigned (an SST of UAS).

A RTRV-RNG-OC12 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-RNG-OC12: [TID] :AID: [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	OC12_AID: {OC12-{1-560}} (OC12-OC12#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: OC12 AID, identifies either the preferred (protected) or the alternate (protecting) OC-12 port) which together constitutes the ring node.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
["<AID1>,<AID2>::WTSDEL=<value>"]
[/* <Command Echo> [<CTAG>] (<CID [-VCNUM] >) */]
;
```

OUTPUT PARAMETERS

AID1	OC12_AID: {OC12-{1-560}} (OC12-OC12#) OC12 AID, identifies the preferred (protected) OC-12 port.
AID2	OC12_AID: {OC12-{1-560}} (OC12-OC12#) OC12 AID, identifies the alternate (protecting) OC-12 port.

WTSDEL= {DELAY, IMMED}
Wait to Switch Delay. Determines if the path switching on the paths within the OC-12 is being delayed by a set amount determined by the hardware or if it is immediate. Values are:

DELAY	The path switching is being delayed by approximately 25 milliseconds after the fault is detected.
IMMED	The path switching is occurring immediately upon detection of the fault.

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
SDBE	Status, internal Data Base Error /*TP Database Error: <ERROR-STRING> for <AID-STRING>*/ /*RNG Database Error: <ERROR-STRING> for record number <RECORD-NUMBER>*/ /*TPidToAidStr() Error: <ERROR-STRING>*/
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, the ring protection pair is retrieved for OC-12 port OC12-13 (preferred line).

```
RTRV-RNG-OC12::OC12-13;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of Pad567. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pad567 COMPLD
"OC12-13,OC12-14::WTDSEL=DELAY"
/* RTRV-RNG-OC12::OC12-14 [Pad567] (2) */
;
```

RELATED COMMANDS

```
DLT-RNG-OC12
ED-RNG-OC12
ENT-RNG-OC12
```

COMMAND CODE: **RTRV-RNG-OC3**
COMMAND NAME: **RETRIEVE RING OC-3**

PURPOSE

The RTRV-RNG-OC3 command retrieves ring protection group pairs for OC-3 facilities (that were established with the ENT-RNG-OC-3 command). It retrieves the preferred (protected) OC-3 and its associated alternate (protecting) OC-3 (i.e., odd-numbered and even-numbered OC-3s, respectively).

The successful response for a RTRV-RNG-OC3 command contains one line of parsable output data, in ascending order (from lowest FROM AID to largest FROM AID), for each ring protection group pair of OC-3 facilities. Regardless of which OC-3 is specified by AID (i.e., preferred or alternate), AID1 displays the preferred facility and the AID2 displays the alternate facility. If no OC-3 ring is found, the command completes successfully with no line of parsable output data displayed. In addition, no line of parsable output data is displayed if the specified port is unassigned (an SST of UAS).

A RTRV-RNG-OC3 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-RNG-OC3 : [TID] : AID : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	OC3_AID: {OC3-{1-2240}} (OC3-OC3#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: OC3 AID, identifies either the preferred (protected) or the alternate (protecting) OC-3 port) which together constitutes the ring node.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  ["<AID1>,<AID2>: :WTSDEL=<value>"]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

AID1	OC3_AID: {OC3-{1-2240}} (OC3-OC3#) OC3 AID, identifies the preferred (protected) OC-3 port.
AID2	OC3_AID: {OC3-{1-2240}} (OC3-OC3#) OC3 AID, identifies the alternate (protecting) OC-3 port.

WTDSEL= {DELAY, IMMED}
Wait to Switch Delay. Determines if the path switching on the paths within the OC-3 is being delayed by a set amount determined by the hardware or if it is immediate. Values are:

DELAY	The path switching is being delayed by approximately 25 milliseconds after the fault is detected.
IMMED	The path switching is occurring immediately upon detection of the fault.

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
SDBE	Status, internal Data Base Error /*TP Database Error: <ERROR-STRING> for <AID-STRING>*/ /*RNG Database Error: <ERROR-STRING> for record number <RECORD-NUMBER>*/ /*TPidToAidStr() Error: <ERROR-STRING>*/
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, the ring protection pair is retrieved for OC-3 port OC3-13 (preferred line).

```
RTRV-RNG-OC3::OC3-13;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of Pad567. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pad567 COMPLD
"OC3-13,OC3-14::WTDSEL=DELAY"
/* RTRV-RNG-OC3::OC3-14 [Pad567] (2) */
;
```

RELATED COMMANDS

```
DLT-RNG-OC3
ED-RNG-OC3
ENT-RNG-OC3
```

COMMAND CODE: **RTRV-ROLL-ALL**
COMMAND NAME: **RETRIEVE ROLL ALL**

PURPOSE

The RTRV-ROLL-ALL command displays one line of information for each Roll provisioned in the 1631 SX LMC system. This command is executed regardless of the state of the ports, but the command will return an output only for ports in a ROLL secondary state.

A RTRV-ROLL-ALL command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-ROLL-ALL:[TID]:[AID]:[CTAG]:[CLEVEL];

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	{ALL} Default: ALL Addressing: None Description: Retrieves ALL active Rolls existing in the database.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
CLEVEL	{T1} Default: T1 Addressing: None Description: Connection Level. Specifies the type of Roll connections that are to be retrieved. Currently, the only CLEVEL value is T1. When this T1 value is entered for this parameter, it will extract all the Rolls of T1 and VT1 connections.

SUCCESSFUL RESPONSE FORMAT

The output response will be as follows:

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  ["RFROM=<VALUE>, RTO=<VALUE>, OTHER=<VALUE>, TYPE=<VALUE>,
STATUS=<VALUE>"]
  [/ * <Command Echo> [<CTAG>] (<CID [-VCNUM] >) */]
;
```

OUTPUT PARAMETERS

RFROM	DS1_AID:	
	{T1-{1-59392}}	(T1-DS1#)
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)
	{EC1T1-{1-3840}-{1-28}}	(EC1T1-EC1/STS1/DS3#-DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-28}}	(OC3T1-OC3#-STS1/DS3#-DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}	(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)
	VT1_AID:	
	{EC1VT1-{1-3840}-{1-7}-{1-4}}	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)
	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)
	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	
	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)	
	DS1 or VT1 AID; indicates the roll "FROM" port id associated with the rolling operation that remains fixed through the roll.	
RTO	DS1_AID:	
	{T1-{1-59392}}	(T1-DS1#)
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)
	{EC1T1-{1-3840}-{1-28}}	(EC1T1-EC1/STS1/DS3#-DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-28}}	(OC3T1-OC3#-STS1/DS3#-DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}	(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)
	VT1_AID:	
	{EC1VT1-{1-3840}-{1-7}-{1-4}}	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)
	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)
	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	
	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)	
	DS1 or VT1 AID; indicates the roll "TO" port id associated with the rolling operation which is the new end of the connection after the rolling.	
OTHER	DS1_AID	
	{T1-{1-59392}}	(T1-DS1#)
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)
	{EC1T1-{1-3840}-{1-28}}	(EC1T1-EC1/STS1/DS3#-DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-28}}	(OC3T1-OC3#-STS1/DS3#-DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}	(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)
	VT1_AID:	
	{EC1VT1-{1-3840}-{1-7}-{1-4}}	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)
	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)
	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	
	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)	
	DS1 or VT1 AID; indicates the roll "OTHER" port id associated with the rolling operation which is the old connection from which the traffic is being rolled.	
TYPE	{AUTO, FMAN1, FMAN2, MAN}	
	Identifies the mode of rolling operation being performed. The valid values are:	
	AUTO	Automatic mode; old broadcast tail shall be automatically dropped on detection of a valid signal on the new path.
	FMAN1	Fully Manual mode part 1; broadcast tail is set up and monitoring for valid signal begins. No action taken on valid signal detection.
	FMAN2	Fully manual mode part 2; Connection established from RTO to RFROM ports.
	MAN	Manual mode; old broadcast tail to be retained on detection of a valid signal on the new path.

STATUS	{BROADCASTING, MONITORING, BROADCASTING&MONITORING, WAITING, BROADCASTING&WAITING, ROLLED&BROADCASTING}
	Identifies the current status of the rolling operation. The valid values are:
BROADCASTING	The RFROM port is connected to both OTHER and RTO ports.
MONITORING	The receive end of the RTO port is being monitored for a valid signal.
BROADCASTING&MONITORING	Both of the above.
WAITING	The receive side of the RTO port is no longer being monitored for a valid signal and the system is waiting for ENT-ROLL-T1 command with RMODE set to FMAN2.
BROADCASTING&WAITING	Broadcasting and Waiting.
ROLLED&BROADCASTING	The system is in Rolled/broadcasting state where in it is waiting for a final DLT-ROLL-T1 command to be issued.

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

```

IIAC      Input, Invalid ACcess identifier
SDBE      Status, internal Data Base Error
          /* RIP Database Error: <ERROR-STRING> for record number <RECORD-
          NUMBER> */
SROF      Status, Requested Operation Failed

```

EXAMPLES

The following command is entered to display all rollbacks:

```
RTRV-ROLL-ALL::ALL:::T1;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of Pad567. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```

<SID> <YY-MM-DD> <HH:MM:SS>
M Pad567 COMPLD
  "RFROM=T3T1-3-3,RTO=T3T1-4-4,OTHER=T3T1-3-3,TYPE=FMAN1,STATUS=MONITOR-
  ING"
  /* RTRV-ROLL-ALL::ALL:::T1 [Pad567] (2) */
;

```

RELATED COMMANDS

DLT-ROLL-T1

DLT-ROLL-VT1

ENT-CRS-T1

ENT-CRS-VT1

ENT-ROLL-T1

ENT-ROLL-VT1

RTRV-CRS

RTRV-ROLL-T1

RTRV-ROLL-VT1

COMMAND CODE: **RTRV-ROLL-T1**
COMMAND NAME: **RETRIEVE ROLL T1**

PURPOSE

The RTRV-ROLL-T1 command retrieves the information regarding the roll status between the port specified by the AID parameter that is a DS1 and any other port which may be either a DS1 or a VT1.5. This command is executed regardless of the state of the DS1 port, but the command will return an output only if the port specified by the AID is in a ROLL secondary state. In addition, the command is executed with no line of parsable output data provided if the specified DS1 is embedded within a protection OC3.

A RTRV-ROLL-T1 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-ROLL-T1 : [TID] : AID : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	DS1_AID: {T1-{1-59392}} (T1-DS1#) {T3T1-{1-4800}-{1-28}} (T3T1-DS3#-DS1#) {EC1T1-{1-3840}-{1-28}} (EC1T1-EC1/STS1/DS3#-DS1#) {OC3T1-{1-2240}-{1-3}-{1-28}} (OC3T1-OC3#-STS1/DS3#-DS1#) {OC12T1-{1-560}-{1-4}-{1-3}-{1-28}} (OC12T1-OC12#-STM1#-STS1/DS3#-DS1#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: Identifies the DS1 port or a range of ports.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

The output response will be as follows:

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  "RFROM=<VALUE>,RTO=<VALUE>,OTHER=<VALUE>,TYPE=<VALUE>,STATUS=<VALUE>"
  [/* <Command Echo> [<CTAG>] (<CID [-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

RFROM	DS1_AID:	
	{T1-{1-59392}}	(T1-DS1#)
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)
	{EC1T1-{1-3840}-{1-28}}	(EC1T1-EC1/STS1/DS3#-DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-28}}	(OC3T1-OC3#-STS1/DS3#-DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}	(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)
	VT1_AID:	
	{EC1VT1-{1-3840}-{1-7}-{1-4}}	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)
	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)
	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	
	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)	
	DS1 or VT1 AID; indicates the roll "FROM" port id associated with the rolling operation that remains fixed through the roll.	
RTO	DS1_AID:	
	{T1-{1-59392}}	(T1-DS1#)
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)
	{EC1T1-{1-3840}-{1-28}}	(EC1T1-EC1/STS1/DS3#-DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-28}}	(OC3T1-OC3#-STS1/DS3#-DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}	(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)
	VT1_AID:	
	{EC1VT1-{1-3840}-{1-7}-{1-4}}	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)
	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)
	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	
	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)	
	DS1 or VT1 AID; indicates the roll "TO" port id associated with the rolling operation which is the new end of the connection after the rolling.	
OTHER	DS1_AID	
	{T1-{1-59392}}	(T1-DS1#)
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)
	{EC1T1-{1-3840}-{1-28}}	(EC1T1-EC1/STS1/DS3#-DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-28}}	(OC3T1-OC3#-STS1/DS3#-DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}	(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)
	VT1_AID:	
	{EC1VT1-{1-3840}-{1-7}-{1-4}}	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)
	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)
	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	
	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)	
	DS1 or VT1 AID; indicates the roll "OTHER" port id associated with the rolling operation which is the old connection from which the traffic is being rolled.	
TYPE	{AUTO, FMAN1, FMAN2, MAN}	
	Identifies the mode of rolling operation being performed. The valid values are:	
	AUTO	Automatic mode; old broadcast tail shall be automatically dropped on detection of a valid signal on the new path.
	FMAN1	Fully Manual mode part 1; broadcast tail is set up and monitoring for valid signal begins. No action taken on valid signal detection.
	FMAN2	Fully manual mode part 2; Connection established from RTO to RFROM ports.
	MAN	Manual mode; old broadcast tail to be retained on detection of a valid signal on the new path.

STATUS {BROADCASTING, MONITORING, BROADCASTING&MONITORING, WAITING, BROADCASTING&WAITING, ROLLED&BROADCASTING}
Identifies the current status of the rolling operation. The valid values are:

BROADCASTING	The RFROM port is connected to both OTHER and RTO ports.
MONITORING	The receive end of the RTO port is being monitored for a valid signal.
BROADCASTING&MONITORING	Both of the above.
WAITING	The receive side of the RTO port is no longer being monitored for a valid signal and the system is waiting for ENT-ROLL-T1 command with RMODE set to FMAN2.
BROADCASTING&WAITING	Broadcasting and Waiting.
ROLLED&BROADCASTING	The system is in Rolled/broadcasting state where in it is waiting for a final DLT-ROLL-T1 command to be issued.

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
SDBE	Status, internal Data Base Error /* TP Database Error: <ERROR-STRING> for <AID-STRING> */ /* RIP Database Error: <ERROR-STRING> for record number <RECORD-NUMBER> */
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, a one-way DS1 cross-connection is being rolled from an existing connection from port T3T1-2-2 (FROM) to port T3T1-3-3 (TO) to a new connection from port T3T1-4-4 (RTO) to port T3T1-3-3 (RFROM) and the system is waiting for a good signal at the RTO port T3T1-4-4.

```
RTRV-ROLL-T1::T3T1-2-2;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of Pad567. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```

<SID> <YY-MM-DD> <HH:MM:SS>
M Pad567 COMPLD
  "RFROM=T3T1-3-3,RTO=T3T1-4-4,OTHER=T3T1-3-3,TYPE=FMAN1,STATUS=MONITOR-
  ING"
  /* RTRV-ROLL-T1::T3T1-2-2 [Pad567] (2) */
;

```

RELATED COMMANDS

DLT-ROLL-T1

DLT-ROLL-VT1

ENT-CRS-T1

ENT-ROLL-VT1

RTRV-CRS

RTRV-ROLL-ALL

RTRV-ROLL-VT1

COMMAND CODE: **RTRV-ROLL-VT1**
COMMAND NAME: **RETRIEVE ROLL VT1**

PURPOSE

The RTRV-ROLL-VT1 command retrieves the information regarding the roll status between the port specified by the AID parameter that is a VT1.5 and any other port which may be either a DS1 or a VT1.5. This command is executed regardless of the state of VT1.5 port, but the command will return an output only if the port specified by the AID is in a ROLL secondary state. In addition, the command is executed with no line of parsable output data provided if the specified VT1.5 is embedded within a protection OC3.

A RTRV-ROLL-VT1 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-ROLL-VT1 : [TID] : AID : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	VT1_AID: {EC1VT1-{1-3840}-{1-7}-{1-4}} (EC1VT1-EC1/STS1#-VTGrp#-VT1.5#) {OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}} (OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#) {OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}} (OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: Identifies the VT1.5 port or a range of ports.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

The output response will be as follows:

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  "RFROM=<VALUE>,RTO=<VALUE>,OTHER=<VALUE>,TYPE=<VALUE>,STATUS=<VALUE>"
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

RFROM	DS1_AID:	
	{T1-{1-59392}}	(T1-DS1#)
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)
	{EC1T1-{1-3840}-{1-28}}	(EC1T1-EC1/STS1/DS3#-DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-28}}	(OC3T1-OC3#-STS1/DS3#-DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}	(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)
	VT1_AID:	
	{EC1VT1-{1-3840}-{1-7}-{1-4}}	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)
	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)
	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	
	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)	
	DS1 or VT1 AID; indicates the roll "FROM" port id associated with the rolling operation that remains fixed through the roll.	
RTO	DS1_AID:	
	{T1-{1-59392}}	(T1-DS1#)
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)
	{EC1T1-{1-3840}-{1-28}}	(EC1T1-EC1/STS1/DS3#-DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-28}}	(OC3T1-OC3#-STS1/DS3#-DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}	(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)
	VT1_AID:	
	{EC1VT1-{1-3840}-{1-7}-{1-4}}	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)
	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)
	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	
	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)	
	DS1 or VT1 AID; indicates the roll "TO" port id associated with the rolling operation which is the new end of the connection after the rolling.	
OTHER	DS1_AID:	
	{T1-{1-59392}}	(T1-DS1#)
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)
	{EC1T1-{1-3840}-{1-28}}	(EC1T1-EC1/STS1/DS3#-DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-28}}	(OC3T1-OC3#-STS1/DS3#-DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}	(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)
	VT1_AID:	
	{EC1VT1-{1-3840}-{1-7}-{1-4}}	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)
	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)
	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	
	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)	
	DS1 or VT1 AID; indicates the roll "OTHER" port id associated with the rolling operation which is the old connection from which the traffic is being rolled.	
TYPE	{AUTO, FMAN1, FMAN2, MAN}	
	Identifies the mode of rolling operation being performed. The valid values are:	
	AUTO	Automatic mode; old broadcast tail shall be automatically dropped on detection of a valid signal on the new path.
	FMAN1	Fully Manual mode part 1; broadcast tail is set up and monitoring for valid signal begins. No action taken on valid signal detection.
	FMAN2	Fully manual mode part 2; Connection established from RTO to RFROM ports.
	MAN	Manual mode; old broadcast tail to be retained on detection of a valid signal on the new path.

STATUS {BROADCASTING, MONITORING, BROADCASTING&MONITORING, WAITING, BROADCASTING&WAITING, ROLLED&BROADCASTING}
Identifies the current status of the rolling operation. The valid values are:

BROADCASTING	The RFROM port is connected to both OTHER and RTO ports.
MONITORING	The receive end of the RTO port is being monitored for a valid signal.
BROADCASTING&MONITORING	Both of the above.
WAITING	The receive side of the RTO port is no longer being monitored for a valid signal and the system is waiting for ENT-ROLL-VT1 command with RMODE set to FMAN2.
BROADCASTING&WAITING	Broadcasting and Waiting.
ROLLED&BROADCASTING	The system is in Rolled/broadcasting state where in it is waiting for a final DLT-ROLL-VT1 command to be issued.

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
SDBE	Status, internal Data Base Error /* TP Database Error: <ERROR-STRING> for <AID-STRING> */ /* RIP Database Error: <ERROR-STRING> for record number <RECORD-NUMBER> */
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, a one-way VT1 cross-connection is being rolled from an existing connection from port T3T1-2-2 (FROM) to port T3T1-3-3 (TO) to a new connection from port EC1VT1-4-4-1 (RTO) to port T3T1-3-3 (RFROM) and the system is waiting for a good signal at the RTO port EC1VT1-4-4-1.

```
RTRV-ROLL-VT1::EC1VT1-4-4-1;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of Pad567. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```

<SID> <YY-MM-DD> <HH:MM:SS>
M Pad567 COMPLD
  "RFROM=T3T1-3-3,RTO=EC1VT1-4-4-1,OTHER=T3T1-3-3,TYPE=AUTO,STATUS=MON-
  ITORING"
  /* RTRV-ROLL-VT1::EC1VT1-4-4-1 [Pad567] (2) */
;

```

RELATED COMMANDS

DLT-ROLL-T1

DLT-ROLL-VT1

ENT-CRS-T1

ENT-CRS-VT1

ENT-ROLL-VT1

RTRV-CRS

RTRV-CRS-VT1

RTRV-ROLL-ALL

RTRV-ROLL-T1

COMMAND CODE: **RTRV-STATE-EQPT**
COMMAND NAME: **RETRIEVE STATE EQUIPMENT**

PURPOSE

The RTRV-STATE-EQPT command retrieves the current primary state, and any associated secondary state, of the specified equipment entity.

A RTRV-STATE-EQPT command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-STATE-EQPT: [TID] :AID: [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	EQUIPMENT_AID: {ACL-1-2-{9-28, 37-56, 65-84, 93-112}} {ACM-1-2-{3-7, 10-14}} {CDA-{4, 5, 10, 11, 16, 17, 22, 23, 102, 103 }-3-1} {CDB-{5}-{1, 3}-{1, 2}} CDB-{2-43, 104-111 ,112-135, 136-141 }-{1, 3}-{1, 2} {SI36: CDB-{6-9, 12-15, 18-21, 24-43}-{1, 3}-{1-2}, SI48: CDB-{2-43, 104-111 ,112-135, 136-141 }-{1, 3}-{1, 2} {CIM-1-2-{3-7, 10-14}} {CKB-{1-63, 101, 102-111 , 112-135, 136-141 }-{0}-{1-2}} {CPU-1-2-{1-2}} {DSB-{6-9, 12-15, 18-21, 24-43, 104-111 , 112-135, 136-141 }-{1, 3}-{1-2}} {DSI-{44-63}-{1-4}-{1-32}} {DSK-1-3-1, DSK-1-4-2} {EOB-{5}-{1, 3}-{1-5}} {SI48: EOB-{6-9, 12-15, 18-21, 24-43, 104-111 , 112-135, 136-141 }-{1, 3}-{1-2}, EOC: EOB-{4-5, 10-11, 16-17, 22-23, 102, 103 }-1-{1-7, 9-15}} {SI48: EP3-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42, 104-106,108-110, 136-141 }-{1, 3}-{1-18}, EP3-{9, 21, 35, 43, 107 }-3-{1-18}, EP3-{15, 27, 31, 39, 111 }-1-{1-18}} {SI36: EP3-{6-8, 12-14}-{1, 3}-{1-14}, EP3-9-3-{1-14}, EP3-15-1-{1-14}} {SI48: ES1-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42, 104-106,108-110,136-141 }-{1, 3}-{1-18}, ES1-{9, 21, 35, 43, 107 }-3-{1-18}, ES1-{15, 27, 31, 39, 111 }-1-{1-18}} {SI36: ES1-{6-8, 12-14}-{1, 3}-{1-14}, ES1-9-3-{1-14}, ES1-15-1-{1-14}} {ESA-{44-63}-{1-4}-{1-2}}

{FAN-{1, 101}-0-1},
 FAN-{2-63, **102-111**, 112-135, **136-141**}-{1-3}-1}
 {FUSE-{2-43, **102-111**, 112-135, **136-141**}-0-{1-2}}
 {HMU-{44-53}-{1-4}-{1-8}}
 {ICM-1-2-{1, 2, 8, 9}}
 {IOB-{6-8, 12-14}-{1, 3}-{1, 3, 5, 7},
 IOB-9-3-{1, 3, 5, 7},
 IOB-15-1-{1, 3, 5, 7}}
 {IPB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2}}
 {IPU-{44-63}-{1-4}-{1-8}}
 {LMU-{44-53}-{1-4}-{1-32}}
 {LT1-1-1-{1-6}}
 {LT2-1-1-{1-6}}
 {LT4-1-1-{7-16}}
 {LT5-1-1-{2-6}}
 {LT8-1-1-{7-16}}
 {M16-{2-5, 10-11, 16-17, 22-23}-3-{1-16}}
 {M32-{4-5, 10-11, 16-17, 22-23, **102**, **103**}-3-{1-16},
 M32-{5}-{1, 3}-{1-3, 6-8}}
 {M40-{2-3}-{1, 3}-{1-16}}
 {M40-{5}-{1, 3}-{4, 5, 9, 10}}
 {MCB-{2,3}-3-1}
 {MCB-{5}-{1, 3}-{1}}
 {O1B-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{2-9, 11-18}}
 {O4M-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{2-3, 11-12}}
 {OPD-1-3-1,
 OPD-1-4-2}
 {OXB-{44-63}-{1-4}-{1-2}}
 {P39-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-3},
 P39-{4, 5, 10, 11, 16, 17, 22, 23, **102**, **103**}-1-{1-3},
 P39-{4, 5, 10, 11, 16, 17, 22, 23, **102**, **103**}-3-{1-4},
 P39-{5}-{1, 3}-{1-4}}
 {P56-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-5},
 P56-{2-3}-{1, 3}-{1-4},
 P56-{4, 5, 10, 11, 16, 17, 22, 23, **102**, **103**}-1,3-{1-5},
 P56-{5}-{1, 3}-{1-4}}
 {PDU-{2-43, **102-111**, 112-135, **136-141**}-0-1}
 {PRT-{44-63}-{1-4}-{8, 16, 24, 32}}
 {PSF-1-{3, 4}-{1, 2},
 PSF-{44-63}-{1-4}-{1-2}}
 {PST-1-{3, 4}-{1-2}}
 {QUAD-{44-63}-{1-4}-{1-4}}
 {RDU-{44-63}-0-1}
 {RPB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2}}
 {RSP-{1, 101}-0-1}
 {S3M-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{4-9, 13-18}}
 {SBT-1-2-{1-4}}
 {SHELF-{4-43, 102-141}-{1, 3}-1}
 {SHELF-{5}-{1, 3}-{1}}
 {SIO-1-2-{1-2, 8-9}}
 {SPB-{2-43, **102-111**, 112-135, **136-141**}-{1, 3}-{1-2}}
 {SPB-{5}-{1, 3}-{1, 2}}
 {SWI-{44-63}-{1-4}-{1-7, 9-15, 17-23, 25-31}}

{ALL, ACL, ACM, CDA, CDB, CIM, CKB, CPU, DSI, DSK, EOB, EP3, ESA, ES1, FAN, FUSE, HMU, ICM, IPB, IPU, LMU, LT1, LT2, LT4, LT5, LT8, M16, M32, M40, MCB, O1B, O4M, OPD, OXB, P39, P56, PDU, PRT, PSF, PST, QUAD, RDU, RSP, S3M, SBT, SHELF, SIO, SPB, SWI}

Default:	Entry Required
Addressing:	None
Description:	Equipment AID, identifies the equipment entity. Refer to Appendix B, Access Identifiers (AIDs) for a definition of equipment mnemonics. Name-defined values are:
ALL	All equipment entities.
ACL	All Administration Communication Links.
CDA	All Clock Distribution A circuit packs.
ACM	All Administrative Communications Modules.
CDB	All Clock Distribution B circuit packs.
CIM	All Communications Interface Module circuit packs.
CKB	All Circuit Breakers, bay/rack circuit breakers in the PDU/RSP.
CPU	All Central Processing Unit circuit packs.
DSB	All DCC Server Board circuit packs.
DSI	All DS1 I/O circuit packs.
DSK	All Disk Drives.
EOB	All Electrical to Optical conversion Board circuit packs.
EP3	All Electrical Plesiochronous DS3/STS1 Interface circuit packs.
ES1	All Electrical STS1 Interface circuit packs.
ESA	All External DS1 Signal Adapter circuit packs.
FAN	All Fan/Blower assemblies.
FUSE	All Fuses, PDU fuses.
HMU	All LMU I/O circuit packs.
ICM	All Intelligent Communications Module circuit packs.
IOB	All Inter-rack Optics Board circuit packs.
IPB	All Internal Protection Board circuit packs.
IPU	All Interface Processing Unit circuit packs.
LMU	All LMU I/O circuit packs.
LT1	All Level 1 Translator (RS-232) circuit packs.
LT2	All Level 2 Translator (RS-449) circuit packs.
LT4	All Level 4 Translator (ACL) circuit packs.
LT5	All Level 5 Translator (RS-449/LAN) circuit packs.
LT8	All Level 8 Translator (ACL) circuit packs.
M16	All Matrix End Stage 16 circuit packs.
M32	All Matrix End State 32 circuit packs.
M40	All Matrix End/Center Stage 40 circuit packs.
MCB	All Master Clock Board circuit packs.
O1B	All Optical Interface Level 1 (OC-3) Board circuit packs.
O4M	All Optical Interface Level 1 (OC-12) Board circuit packs.
OPD	All Optical Disk Drives.
AXB	All Optical Transceiver Board circuit packs.
P39	All Power Supply, 3.9V circuit packs.
P56	All Power Supply, 5.6V circuit packs.
PDU	All Power Distribution Units.
PRT	All DSI Protect circuit packs.
PSF	All Power Supply, 5V circuit packs.
PST	All Power Supply, 12V circuit packs.
QUAD	All DS1 Shelf Quadrants.
RDU	All Rack Distribution Units.
RPB	All Rack Status Panels.
RSP	All Ring Protection Board circuit packs.
S3M	All STS-3C circuit packs.

SBT	All System Bus Termination circuit packs.
SHELF	All (non-APS) Shelves.
SIO	All Serial Input/Output circuit packs.
SPB	All Satellite Processor Board circuit packs.
SWI	All DSI Switch circuit packs.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  "<AID>:::<PST>[,<SST>]"
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

AID	<p>EQUIPMENT_AID:</p> <p>{ACL-1-2-{9-28, 37-56, 65-84, 93-112}}</p> <p>{ACM-1-2-{3-7, 10-14}}</p> <p>{CDA-{4, 5, 10, 11, 16, 17, 22, 23, 102, 103}-3-1}</p> <p>{CDB-{5}-{1, 3}-{1, 2}}</p> <p style="padding-left: 20px;">CDB-{2-43,104-111,112-135,136-141}-{1, 3}-{1, 2}</p> <p>{SI36: CDB-{6-9, 12-15, 18-21, 24-43}-{1, 3}-{1-2},</p> <p style="padding-left: 20px;">{SI48: CDB-{2-43,104-111,112-135,136-141}-{1, 3}-{1, 2}</p> <p>{CIM-1-2-{3-7, 10-14}}</p> <p>{CKB-{1-63, 101, 102-111, 112-135, 136-141}-{0}-{1-2}}</p> <p>{CPU-1-2-{1-2}}</p> <p>{DSB-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{1-2}}</p> <p>{DSI-{44-63}-{1-4}-{1-32}}</p> <p>{DSK-1-3-1,</p> <p style="padding-left: 20px;">DSK-1-4-2}</p> <p>{EOB-{5}-{1, 3}-{1-5}}</p> <p>{SI48: EOB-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{1-2},</p> <p style="padding-left: 20px;">EOC: EOB-{4-5, 10-11, 16-17, 22-23, 102, 103}-1-{1-7, 9-15}}</p> <p>{SI48: EP3-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42,</p> <p style="padding-left: 20px;">104-106,108-110, 136-141}-{1, 3}-{1-18},</p> <p style="padding-left: 20px;">EP3-{9, 21, 35, 43, 107}-3-{1-18},</p> <p style="padding-left: 20px;">EP3-{15, 27, 31, 39, 111}-1-{1-18}}</p> <p>{SI36: EP3-{6-8, 12-14}-{1, 3}-{1-14},</p> <p style="padding-left: 20px;">EP3-9-3-{1-14},</p> <p style="padding-left: 20px;">EP3-15-1-{1-14}}</p> <p>{SI48: ES1-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42,</p> <p style="padding-left: 20px;">104-106,108-110,136-141}-{1, 3}-{1-18},</p> <p style="padding-left: 20px;">ES1-{9, 21, 35, 43,107}-3-{1-18},</p> <p style="padding-left: 20px;">ES1-{15, 27, 31, 39,111}-1-{1-18}}</p> <p>{SI36: ES1-{6-8, 12-14}-{1, 3}-{1-14},</p> <p style="padding-left: 20px;">ES1-9-3-{1-14},</p> <p style="padding-left: 20px;">ES1-15-1-{1-14}}</p> <p>{ESA-{44-63}-{1-4}-{1-2}}</p> <p>{FAN-{1, 101}-0-1},</p> <p style="padding-left: 20px;">FAN-{2-63, 102-111, 112-135, 136-141}-{1-3}-1}</p> <p>{FUSE-{2-43, 102-111, 112-135, 136-141}-0-{1-2}}</p> <p>{HMU-{44-53}-{1-4}-{1-8}}</p> <p>{ICM-1-2-{1, 2, 8, 9}}</p>
-----	--

{IOB-{6-8, 12-14}-{1, 3}-{1, 3, 5, 7},
 IOB-9-3-{1, 3, 5, 7},
 IOB-15-1-{1, 3, 5, 7}}
 {IPB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2}}
 {IPU-{44-63}-{1-4}-{1-8}}
 {LMU-{44-53}-{1-4}-{1-32}}
 {LT1-1-1-{1-6}}
 {LT2-1-1-{1-6}}
 {LT4-1-1-{7-16}}
 {LT5-1-1-{2-6}}
 {LT8-1-1-{7-16}}
 {M16-{2-5, 10-11, 16-17, 22-23}-3-{1-16}}
 {M32-{4-5, 10-11, 16-17, 22-23, **102**, **103**}-3-{1-16},
 M32-{5}-{1, 3}-{1-3, 6-8}}
 {M40-{2-3}-{1, 3}-{1-16}}
 {M40-{5}-{1, 3}-{4, 5, 9, 10}}
 {MCB-{2,3}-3-1}
 {MCB-{5}-{1, 3}-{1}}
 {O1B-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{2-9, 11-18}}
 {OPD-1-3-1,
 OPD-1-4-2}
 {OXB-{44-63}-{1-4}-{1-2}}
 {P39-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-3},
 P39-{4, 5, 10, 11, 16, 17, 22, 23, **102**, **103**}-1-{1-3},
 P39-{4, 5, 10, 11, 16, 17, 22, 23, **102**, **103**}-3-{1-4},
 P39-{5}-{1, 3}-{1-4}}
 {P56-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-5},
 P56-{2-3}-{1, 3}-{1-4},
 P56-{4, 5, 10, 11, 16, 17, 22, 23, **102**, **103**}-1,3-{1-5},
 P56-{5}-{1, 3}-{1-4}}
 {PDU-{2-43, **102-111**, 112-135, **136-141**}-0-1}
 {PRT-{44-63}-{1-4}-{8, 16, 24, 32}}
 {PSF-1-{3, 4}-{1, 2},
 PSF-{44-63}-{1-4}-{1-2}}
 {PST-1-{3, 4}-{1-2}}
 {QUAD-{44-63}-{1-4}-{1-4}}
 {RDU-{44-63}-0-1}
 {RPB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2}}
 {RSP-{1, 101}-0-1}
 {SBT-1-2-{1-4}}
 {SHELF-{4-43, 102-141}-{1, 3}-1}
 {SHELF-{5}-{1, 3}-{1}}
 {SIO-1-2-{1-2, 8-9}}
 {SPB-{2-43, **102-111**, 112-135, **136-141**}-{1, 3}-{1-2}}
 {SPB-{5}-{1, 3}-{1, 2}}
 {SWI-{44-63}-{1-4}-{1-7, 9-15, 17-23, 25-31}}
 Equipment AID, identifies the equipment entity.

PST	{IS, IS-ANR, OOS-AU, OOS-AUMA, OOS-MA} Primary State, indicates the current primary state of the specified equipment entity. Refer to Appendix G, State Transitions for a definition of state names and description of state transitions. Values are:
	IS In Service
	IS-ANR In Service-Abnormal
	OOS-AU Out Of Service-Autonomous
	OOS-AUMA Out Of Service-Autonomous and Management
	OOS-MA Out Of Service-Management
SST	{ASI, MEA, MT, PRI, PSI, PWR, SDEE, STBYC, STBYH, UAS, UEQ} Secondary State, indicates any secondary states associated with the equipment entity. Multiple SST values may be shown combined with an ampersand (&) if more than one value applies. Refer to Appendix G, State Transitions for a definition of state names and description of state transitions. Values are:
	ASI Automatic Switch Inhibited
	MEA Mismatch of Equipment and Attributes
	MT Maintenance
	PRI Protection Release Inhibited
	PSI Protection Switching Inhibited
	PWR Power
	SDEE Supported Entity Exists
	STBYC Standby-Cold
	STBYH Standby-Hot
	UAS Unassigned
	UEQ Unequipped

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```


ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier /* Specified bay does not exist in present system configuration */ /* There are no IO_QUADS in this <BAY SHELF> */ /* There are no <CARD TYPE> cards in this <BAY SHELF> */ /* There are no <CARD TYPES or CARD_TYPE cards> cards in this system. */ /* The specified bay is an APS bay. */ /* The specified bay is an MDF bay. */ /* Error printing report file. */
SDBE	Status, internal Data Base Error /* I/O quad data base access error. */ /* Platform equipment configuration data base access failure. */ /* Error obtaining report file name. */ /* Error opening report file. */

EXAMPLES

In the following example, the state of the power supply P56-7-1-5 is retrieved.

```
RTRV-STATE-EQPT: : P56-7-1-5 ;  
  <SID> <YY-MM-DD> <HH:MM:SS>  
M  Pad567 COMPLD  
  "P56-7-1-5:::IS-ANR"  
  /* RTRV-STATE-EQPT: : P56-7-1-5 [Pad567] (2) */  
;
```

RELATED COMMANDS

DLT-EQPT
ED-EQPT
ENT-EQPT
RMV-EQPT
RST-EQPT
RTRV-EQPT

COMMAND CODE: **RTRV-STs1**
COMMAND NAME: **RETRIEVE STS1**

PURPOSE

The RTRV-STs1 command retrieves the provisioned parameter values, supporting I/O circuit pack AID, near end and far end facility alarm conditions, and current PST,SST state for the specified STS1 port. The STS1 port's current provisioned values and conditions (if provisioned), and state are retrieved from the system database. The command is executed regardless of the state of the STS1.

The successful response for a RTRV-STs1 command contains one line of parsable output data, in ascending order (from lowest specified STS1 AID to largest specified STS1 AID), for each STS1 AID specified. Values for NENDALM and FENDALM are only displayed if a condition exists. Only <AID> and <PST,SST> are displayed for a retrieve of an unprovisioned STS1 or if the entered AID specifies an STS1 embedded within a protection OC-3 which is in normal linear mode. In ring mode (refer to ENT-RNG-OC3), the RTRV-STs1 command displays all of the output data for STS1s that are part of an odd-numbered or even-numbered ring OC-3 or OC-12.

A RTRV-STs1 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-STs1 : [TID] : AID : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >		
	Default:	<SID>	
	Addressing:	None	
	Description:	Target Identifier, specifies the network node TID for the command.	
AID	STS1_AID:		
	{EC1STS1-{1-3840}}	(EC1STS1-EC1/STS1#)	
	{OC3STS1-{1-2240}-{1-3}}	(OC3STS1-OC3#-STS1#)	
	{OC12STS1-{1-560}-{1-4}-{1-3}}	(OC12STS1-OC12#-STM1#-STS1#)	
	Default:	Entry Required	
	Addressing:	&&-ranging and &-grouping	
	Description:	Identifies the STS1 port or a range of ports.	
CTAG	< 1-6 VALID CTAG CHARACTERS >		
	Default:	< System assigned CTAG value >	
	Addressing:	None	
	Description:	Correlation Tag, associates input command with its output responses.	

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  "<AID>:: [AUTOVTRINGAIS=<value>,CARDID=<value>,EXPTRC=\"<value>\"
  [, FENDALM=<value>] [, FESCP=<value>] [, NENDALM=<value>] ,PDIINS=<value>,
  STSMAP=<value>, STSPTYEL=<value> [, TACC=<value>] [, TAPPOOL=<value>] ,
  TRC=\"<value>\" ] :<PST> [, <SST>] ]"
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

AID	<p>STS1_AID:</p> <p>{EC1STS1-{1-3840}} (EC1STS1-EC1/STS1#)</p> <p>{OC3STS1-{1-2240}-{1-3}} (OC3STS1-OC3#-STS1#)</p> <p>{OC12STS1-{1-560}-{1-4}-{1-3}} (OC12STS1-OC12#-STM1#-STS1#)</p> <p>STS1 AID, indicates the STS1 port to which this line of output data pertains. If TACC=Y, the AID of an STS1 entity embedded in an OC12, OC3, or EC1, except the 3rd STS1 within an OC3 and the {4-3}th STS1 within an OC12.</p>
AUTOVTRINGAIS=	<p>{3, 4, DISABLE}</p> <p>Automatic transmit VT path AIS, specifies the level of EBER on the addressed STS1 (that is terminated) which causes Automatic transmit VT path AIS to be sent. Values are:</p> <p>3 On reaching a 10-3 BER threshold, send AIS on all of its constituent VT1.5s.</p> <p>4 On reaching a 10-4 BER threshold, send AIS on all of its constituent VT1.5s.</p> <p>DISABLE Path AIS on all of the VT1.5s within the addressed STS1 is not to be sent on EBER on STS1.</p>
CARDID=	<p>EQUIPMENT_AID:</p> <p>{SI48: EP3-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42}-{1, 3}-{1-18}, EP3-{9, 21, 35, 43}-3-{1-18}, EP3-{15, 27, 31, 39}-1-{1-18}, SI36: EP3-{6-8, 12-14}-{1, 3}-{1-14}, EP3-9-3-{1-14}, EP3-15-1-{1-14}}</p> <p>{SI48: ES1-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42}-{1, 3}-{1-18}, ES1-{9, 21, 35, 43}-3-{1-18}, ES1-{15, 27, 31, 39}-1-{1-18}, SI36: ES1-{6-8, 12-14}-{1, 3}-{1-14}, ES1-9-3-{1-14}, ES1-15-1-{1-14}}</p> <p>{O1B-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{2-9, 11-18}}</p> <p>{O4M-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{2-3, 11-12}}</p> <p>{S3M-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{4-9, 13-18}}</p> <p>I/O Equipment Card ID, identifies the STS1 port's supporting I/O equipment AID using the equipment AID format.</p>
EXPTRC=	<p><0-62 ASCII printable characters LF ></p> <p>Expected path trace message. This consists of 1-62 ASCII printable characters. If this field is a null string then only "" is displayed.</p>
FENDALM=	<p>{RFI}</p> <p>Far End STS1 Alarm Condition, identifies any far end STS1 alarm conditions that exist on the STS1. A FENDALM value is only reported if a FENDALM condition exists. Value is:</p> <p>RFI Far End Remote Failure Indication detected</p>

FESCP=	OC12_AID:	
	{OC12-{1-560}}	(OC12-OC12#)
	OC3_AID:	
	{OC3-{1-2240}}	(OC3-OC3#)
	EC1_AID:	
	{EC1-{1-3840} }	(EC1-EC1/STS1#)
	STS1_AID:	
	{EC1STS1-{1-3840}}	(EC1STS1-EC1/STS1#)
	{OC3STS1-{1-2240}-{1-3}}	(OC3STS1-OC3#-STS1#)
	{OC12STS1-{1-560}-{1-4}-{1-3}}	(OC12STS1-OC12#-STM1#-STS1#)
T3_AID:		
	{T3-{1-4800}}	(T3-DS3#)
	T1_AID:	
	{T1-{1-59392}}	(T1-DS1#)
	Fault Escalating Port, identifies the facility AID of the receive-side port that is causing a FLTESC alarm to be reported. A FESCP value is only reported when a NEND value of FLTESC exists. Only the AID corresponding to first FLTESC alarm found by the system is reported (i.e., if more than one port is causing a FLTESC, then only the first port found in the system's search is reported).	
NENDALM=	{AIS, FLTESC, IDLE, IDMISMATCH, LOP, SLMF, PDI}	
	Near End STS1 Alarm Condition, identifies any near end STS1 alarm conditions that exist on the STS1. A NENDALM value is only reported when a NENDALM condition exists. Values may be shown combined with an ampersand (&) if more than one value applies to the STS1 at the time of the RTRV-STs1 (i.e., if a RCV and TRMT alarm both exist). Values are:	
	AIS	Alarm Indication Signal detected.
	FLTESC	Facility Fault Escalation activated.
	IDLE	Idle Signal (Unequipped payload) detected.
	IDMISMATCH	Path trace Mismatch exists.
	LOP	Loss of Pointer detected.
	SLMF	Signal Label Mismatch detected.
	PDI	Incoming PDI signal detected on STS1
PDIINS=	{Y, N}	
	Payload Defect Indication INsersion (Transmit/outgoing direction only). Indicates whether or not PDI values are inserted into the outgoing signal label (C2) bytes. If Fault Escalation is disabled on the STS1 (default of FLTPRO=N via the ED-FLTPRO-STs1 command), PDI insertion is per GR-253. If Fault Escalation is enabled (FLTPRO=Y), PDI insertion is based on Alcatel's Fault Escalation type payload defects. Values are:	
	Y	Yes, insertion of appropriate PDI into the outgoing signal label occurs when payload defects exist.
	N	No, PDI values are not inserted into the outgoing signal label when payload defects exist.
STSMAP=	{ALL, ASYNC, VTFLOAT}	
	STS1 Payload Type. Determines the expected STS1 payload type and the value of the expected path signal label (C2). Used for comparison for the Signal Label Mismatch function. This value also determines the transmitted signal label. Values are:	
	ALL	Match ALL incoming signal labels, without creating a SLMF condition, and disallow mappings (i.e., terminating) at this STS1.
	ASYNC	Asynchronous mapping for DS3 (i.e. C2=04 hex)
	VTFLOAT	Floating mode VTs (i.e. C2=02 hex).

STSPTYEL=	{N} STS path yellow behavior. Identifies whether STS path yellow or RDI is sent/received. Values are: N No. RDI is sent/received on appropriate defect states.
TACC	{N, Y} Test Access port, indicates that this STS1 port (specified by AID) and the AID+1 STS1 port are to be used as a Test Access Port Pairs (TAPP). The port specified by AID becomes FAD A and the port specified by AID+1 becomes FAD B. Values are: N No, the specified STS1 port is not a Test Access port. Y Yes, STS1 ports specified by AID and AID+1 are Test Access ports.
TAPPOOL	{PRIVATE-<USER NAME>, PUBLIC} TAP port Pool, defines whether the TAP port that has been created (by means of TACC=Y) belongs to the pool that is private to the creator of the pool or belongs to a public pool. Values are: PRIVATE-<USERNAME> Private-User name. The TAP port pair that has been created is private to the user who created the TAP pair-Name of the user who owns the pool. PUBLIC Public. The TAP pair belongs to the public pool of the system. It can be accessed by any user who has access to the Test Access commands.
TRC=	<0-62 ASCII printable characters > Path trace message to be transmitted (Provisioned via ENT-STs1). This consists of 0-62 ASCII printable characters. If this field is a null string then only "" is displayed.
PST	{IS, OOS-AU, OOS-AUMA, OOS-MA} Primary State, indicates the current primary state of the STS1. Refer to Appendix G, State Transitions for a definition of state names and description of state transitions. Values are: IS In-Service OOS-AU Out-Of-Service-Autonomous OOS-AUMA Out-Of-Service-Autonomous and Management OOS-MA Out-Of-Service-Management
SST	{ACT, BUSY, DSBLD, FAF, LPBK, MT, PMI, SDEE, SGEO, STBY, TRM, TS, UAS, WRK} Secondary State, indicates any secondary states associated with the STS1. SST values may be shown in the output combined with an ampersand (&) if more than one value applies to the STS1 at the time of the RTRV-STs1. Refer to Appendix G, State Transitions for a definition of state names and description of state transitions. Values are: ACT Active BUSY Busy DSBLD Disabled FAF Facility Failure LPBK Loopback MT Maintenance PMI Performance Monitoring Inhibited SDEE Supported Entity Exists SGEO Supporting Entity Outage STBY Standby TRM Terminated TS Test Access UAS Unassigned WRK Working

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
SDBE	Status, internal Data Base Error
	/* GetAidEntry() Error: <ERROR-STRING> */
	/* TP Database Error: <ERROR-STRING> for <AID-STRING> */
	/* TPidToAidStr() Error: <ERROR-STRING> */
	/* TPidToTbss() Error: <ERROR-STRING> */
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, the provisioning data for STS1 port EC1STS1-1 is retrieved.

```
RTRV-STs1::EC1STS1-1;

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of Pad567. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

<SID> <YY-MM-DD> <HH:MM:SS>
M Pad567 COMPLD
"EC1STS1-1::CARDID=ES1-13-1-9, STSPTYEL=N, STSMAP=ASYNc,
AUTOVTRINGAIS=DISABLE, PDIINS=N, TACC=N, EXPTRC="\\", TRC="\":IS, TRM&BUSY"
/* RTRV-STs1::EC1STS1-1 [Pad567] (2) */
;
```

In the following example, the provisioning data for STS1 ports EC1STS1-10 through EC1STS1-14 is retrieved.

```
RTRV-STs1::EC1STS1-10&&-14;

The output response, shown below, assumes CID 6 was used to enter the command and a system generated CTAG value of Pab124. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

<SID> <YY-MM-DD> <HH:MM:SS>
M Pab124 COMPLD
"EC1STS1-10::CARDID=EP3-8-3-5, PDIINS=Y, STSPTYEL=N, STSMAP=ASYNc, TACC=N,
EXPTRC="\\", TRC="\":IS"
"EC1STS1-11::CARDID=EP3-8-3-5, PDIINS=N, STSPTYEL=N, STSMAP=ASYNc, TACC=N,
EXPTRC="\\", TRC="\", NENDALM=LOF:OOS-AU, FAF"
"EC1STS1-12::OOS-MA, UAS"
"EC1STS1-13::CARDID=EP3-8-3-6, PDIINS=Y, STSPTYEL=N, STSMAP=ASYNc, TACC=N,
EXPTRC="\\", TRC="\", NENDALM=LOS:IS, AINS"
"EC1STS1-14::CARDID=EP3-8-3-6, PDIINS=N, STSPTYEL=N, STSMAP=ASYNc, TACC=N,
EXPTRC="\\", TRC="\":IS"
/* RTRV-STs1::EC1STS1-10&&-14 [Pab124] (6) */
;
```

RELATED COMMANDS

DLT-STs1

ED-STs1

ENT-STs1

RMV-STs1

RST-STs1

RTRV-DFLT-STs1

SET-DFLT-STs1

COMMAND CODE: **RTRV-ST3C**
COMMAND NAME: **RETRIEVE ST3C**

PURPOSE

The RTRV-ST3C command retrieves the provisioned parameter values, supporting I/O circuit pack AID, near end and far end facility alarm conditions, and current PST,SST state for the specified ST3C port. The ST3C port's current provisioned values and conditions (if provisioned), and state are retrieved from the system database. The command is executed regardless of the state of the ST3C.

The successful response for a RTRV-ST3C command contains one line of parsable output data, in ascending order (from lowest specified ST3C AID to largest specified ST3C AID), for each ST3C AID specified. Values for NENDALM and FENDALM are only displayed if a condition exists. Only <AID> and <PST,SST> are displayed for a retrieve of an unprovisioned ST3C or if the entered AID specifies an ST3C embedded within a protection OC-3 or OC-12.

A RTRV-ST3C command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-ST3C: [TID] :AID: [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	STS3C_AID: {OC3STS3C-{1-2240}} (OC3STS3C-OC3#/STS3C#) {OC12STS3C-{1-560}-{1-4}} (OC12STS3C-OC12#-STM1/STS3C#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: Identifies the ST3C port or a range of ports.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  "<AID>.: [CARDID=<value>, EXPTRC=\"<value>\" [, NENDALM=<value>]
  [, FENDALM=<value>], STSMAP=<value>, TRC=\"<value>\" ] :<PST>, [<SST>] "
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

AID	STS3C_AID: {OC3STS3C-{1-2240}} (OC3STS3C-OC3#/STS3C#) {OC12STS3C-{1-560}-{1-4}} (OC12STS3C-OC12#-STM1/STS3C#) STS3C AID indicates the ST3C port to which this line of output data pertains.
-----	--

CARDID=	<p>EQUIPMENT_AID:</p> <p>{O1B-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{2-9, 11-18}}</p> <p>{O4M-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{2-3, 11-12}}</p> <p>{S3M-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{4-9, 13-18}}</p> <p>I/O Equipment Card ID, identifies the STS3C port's supporting I/O equipment AID using the equipment AID format.</p>										
EXPTRC=	<p>< 0-62 ASCII printable characters enclosed by \" ></p> <p>Expected path trace message. This consists of 1-62 ASCII printable characters. If this field is a null string then only \"\" is displayed.</p>										
FENDALM=	<p>{RFI}</p> <p>Far End STS3C Alarm Condition, identifies any far end STS3C alarm conditions that exist on the STS3C. A FENDALM value is only reported if a FENDALM condition exists. Value is:</p> <table> <tr> <td>RFI</td><td>Far End Remote Failure Indication detected</td></tr> </table>	RFI	Far End Remote Failure Indication detected								
RFI	Far End Remote Failure Indication detected										
NENDALM=	<p>{AIS, IDLE, IDMismatch, LOP, SLMF}</p> <p>Near End STS3C Alarm Condition, identifies any near end STS3C alarm conditions that exist on the STS3C. A NENDALM value is only reported when a NENDALM condition exists. Values may be shown combined with an ampersand (&) if more than one value applies to the STS3C at the time of the RTRV-STs3C (i.e., if a RCV and TRMT alarm both exist). Values are:</p> <table> <tr> <td>AIS</td><td>Alarm Indication Signal detected.</td></tr> <tr> <td>IDLE</td><td>Idle Signal (Unequipped payload) detected.</td></tr> <tr> <td>IDMismatch</td><td>Path trace Mismatch exists.</td></tr> <tr> <td>LOP</td><td>Loss of Pointer detected.</td></tr> <tr> <td>SLMF</td><td>Signal Label Mismatch detected.</td></tr> </table>	AIS	Alarm Indication Signal detected.	IDLE	Idle Signal (Unequipped payload) detected.	IDMismatch	Path trace Mismatch exists.	LOP	Loss of Pointer detected.	SLMF	Signal Label Mismatch detected.
AIS	Alarm Indication Signal detected.										
IDLE	Idle Signal (Unequipped payload) detected.										
IDMismatch	Path trace Mismatch exists.										
LOP	Loss of Pointer detected.										
SLMF	Signal Label Mismatch detected.										
STSMAP=	<p>{ALL, ATM, DQDB, DS4NA, FDDI}</p> <p>STS3C payload type, determines the expected STS3C payload type and the value of the expected path signal label (C2). Used for comparison for the Signal Label Mismatch function. This value also determines the transmitted signal label. Values are:</p> <table> <tr> <td>ALL</td><td>Generic STS3C format. Contains payload of any mapping format (C2≠000 bin). Since this value will match ALL signal label values, mismatch alarms are never generated.</td></tr> <tr> <td>ATM</td><td>STS3C contains ATM payload (provisioned (C2=13)).</td></tr> <tr> <td>DQDB</td><td>STS3C contains DQDB payload (provisioned (C2=14)).</td></tr> <tr> <td>DS4NA</td><td>STS3C contains DS4NA payload (provisioned (C2=12)).</td></tr> <tr> <td>FDDI</td><td>STS3C contains FDDI payload (provisioned (C2=15)).</td></tr> </table>	ALL	Generic STS3C format. Contains payload of any mapping format (C2≠000 bin). Since this value will match ALL signal label values, mismatch alarms are never generated.	ATM	STS3C contains ATM payload (provisioned (C2=13)).	DQDB	STS3C contains DQDB payload (provisioned (C2=14)).	DS4NA	STS3C contains DS4NA payload (provisioned (C2=12)).	FDDI	STS3C contains FDDI payload (provisioned (C2=15)).
ALL	Generic STS3C format. Contains payload of any mapping format (C2≠000 bin). Since this value will match ALL signal label values, mismatch alarms are never generated.										
ATM	STS3C contains ATM payload (provisioned (C2=13)).										
DQDB	STS3C contains DQDB payload (provisioned (C2=14)).										
DS4NA	STS3C contains DS4NA payload (provisioned (C2=12)).										
FDDI	STS3C contains FDDI payload (provisioned (C2=15)).										
TRC=	<p><0-62 ASCII printable characters ></p> <p>Path trace message to be transmitted (provisioned via ENT-STs3C). This consists of 0-62 ASCII printable characters. If this field is a null string then only \"\" is displayed.</p>										
PST	<p>{IS, OOS-AU, OOS-AUMA, OOS-MA}</p> <p>Primary State, indicates the current primary state of the STS3C. Refer to Appendix G, State Transitions for a definition of state names and description of state transitions. Values are:</p> <table> <tr> <td>IS</td><td>In-Service</td></tr> <tr> <td>OOS-AU</td><td>Out-Of-Service-Autonomous</td></tr> <tr> <td>OOS-AUMA</td><td>Out-Of-Service-Autonomous and Management</td></tr> <tr> <td>OOS-MA</td><td>Out-Of-Service-Management</td></tr> </table>	IS	In-Service	OOS-AU	Out-Of-Service-Autonomous	OOS-AUMA	Out-Of-Service-Autonomous and Management	OOS-MA	Out-Of-Service-Management		
IS	In-Service										
OOS-AU	Out-Of-Service-Autonomous										
OOS-AUMA	Out-Of-Service-Autonomous and Management										
OOS-MA	Out-Of-Service-Management										

SST {ACT, BUSY, DSBLD, FAF, PMI, SGEO,UAS}
Secondary State, indicates any secondary states associated with the STS3C. SST values may be shown in the output combined with an ampersand (&) if more than one value applies to the STS3C at the time of the RTRV–STS3C. Refer to Appendix G, State Transitions for a definition of state names and description of state transitions. Values are:

ACT	Active
BUSY	Busy
DSBLD	Disabled
FAF	Facility Failure
PMI	Performance Monitoring Inhibited
SGEO	Supporting Entity Outage
UAS	Unassigned

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non–Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
SDBE	Status, internal Data Base Error
	/* GetAidEntry() Error: <ERROR–STRING> */
	/* TP Database Error: <ERROR–STRING> for <AID–STRING> */
	/* TPidToAidStr() Error: <ERROR–STRING> */
	/* TPidToTbss() Error: <ERROR–STRING> */
	/*TPidToShlflInfo(STS3C, <RECORD_NUMBER>): <ERROR–STRING>*/
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, the provisioning data for STS3C port OC3STS3C–1 is retrieved.

```

RTRV–STS3C: :OC3STS3C–1;

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of Pad567. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

<SID> <YY-MM-DD> <HH:MM:SS>
M Pad567 COMPLD
  "OC3STS3C–1: :CARDID=01B–6–1–2, STSMAP=ALL, EXPTRC=\ " \ " , TRC=\ " \ " : IS"
  /* RTRV–STS3C: :OC3STS3C–1 [Pad567] (2) */
;

```

In the following example, the provisioning data for STS3C ports OC3STS3C-10 through OC3STS3C-14 is retrieved.

```
RTRV-STSC: :OC3STS3C-10&&-14;
```

The output response, shown below, assumes CID 6 was used to enter the command and a system generated CTAG value of Pab124. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pab124 COMPLD
"OC3STS3C-10::CARDID=01B-6-1-12,STSMAP=DQDB,EXPTRC="\",TRC="\":IS"
"OC3STS3C-11::CARDID=01B-6-1-13,STSMAP=DQDB,EXPTRC="\",TRC="\",
NENDALM=LOP,FENDALM=RFI:OOS-AU,FAF"
"OC3STS3C-12::OOS-MA,UAS"
"OC3STS3C-13::CARDID=01B-6-1-15,STSMAP=DQDB,EXPTRC="\",TRC="\",
NENDALM=LOP:IS,AINS"
"OC3STS3C-14::CARDID=01B-6-1-16,STSMAP=DQDB,EXPTRC="\",TRC="\":IS"
/* RTRV-STSC: :OC3STS3C-10&&-14 [Pab124] (6) */
;
```

RELATED COMMANDS

```
DLT-STSC
ED-STSC
ENT-STSC
RMV-STSC
RST-STSC
RTRV-DFLT-STSC
SET-DFLT-STSC
```

COMMAND CODE: **RTRV-STWR-VSN**
COMMAND NAME: **RETRIEVE SOFTWARE VERSION**

PURPOSE

The RTRV-STWR-VSN command retrieves the version number and associated date and time stamp of the software executable files stored on the system disk.

Two software file directories (Current and New) are used by Alcatel as an aid during system integration and test. Alcatel uses the New directory to test a new software executable file without rebuilding the entire software load.

The software load delivered from the factory has all software executable files in the Current directory; the New directory is empty. Only an Alcatel account user is able to load a file from optical disk to the New directory.

A RTRV-STWR-VSN command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-STWR-VSN: [TID] :: [CTAG] :: [DID] , [PNAM] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
DID	{CPUOS, CURRENT, L2P, L3P, NEW, RUN} Default: {RUN} Addressing: None Description: Directory Identifier, specifies the software file directory. Values are: CPUOS CPU Operating System File Name, specifies the file name of the CPU Operating System (OS) from the system's Root directory is to be retrieved. CURRENT Current Directory File Names, specifies the file names from the system's Current directory are to be retrieved. L2P Level 2 Processor File Names, specifies the file names pertaining to the IPU and SPB circuit packs from the system's Current and New directories are to be retrieved. L3P Level 3 Processor File Names, specifies the file names pertaining to the DSB, EP3, ES1, IPB, M16, M32, M40, MCB, O1B, OXB and RPB circuit packs from the system's Current and New directories are to be retrieved. NEW New Directory File Names, specifies the file names from the system's New directory are to be retrieved. RUN Running File Names, specifies the file names that are running from the system's Current or New directories are to be retrieved.
PNAM	< 1-12 Character Valid Software File Name > Default: <All software file names within the specified directory> Addressing: None Description: Process File Name, specifies the software file name from the specified directory.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
/* <FILENAME> <VERSION> <DATE> <TIME> */
/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;
```

OUTPUT PARAMETERS

FILENAME	< 25 Character Directory Path and File Name > Directory Path and File Name, identifies the software file name.
VERSION	{<5 Character Version Number>, NONE} File Version Number, identifies the version number of the software file name.
DATE	{MM/DD/YY:{ {01-12}/{01-31}/{00-99} }, NONE} Date, identifies the date stamp on the software file name. The format of DATE is <MM> – <DD> – <YY> where <MM> is the month, <DD> is the day, and <YY> is the year.
TIME	{HH:MM:SS:{ {0-23}:{0-59}:{0-59} }, NONE} Time, identifies the time stamp on the software file name. The format of TIME is <HH>:<MM>:<SS> where <HH> is the hour, <MM> is the minute, and <SS> is the second.

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
/* <Informational Error Description Text> */
/* <Expanded Error Code Description> */
/* <Optional Suggested Action Text> */
/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IPNV	Input, Parameter Not Valid
	/* Illegal DID */
	/* PNAME nonexistent */

EXAMPLES

In the following example, the version number and the date and time stamps for the running software file names are retrieved.

```
RTRV-STWR-VSN;
```

The output response, shown below, assumes CID 3 was used to enter the command and a system generated CTAG value of P80278. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P80278 COMPLD
/* /rdx/current/acl3 1.127 08/19/94 06:24:37 */
/* /rdx/current/timer_task 1.11 08/19/94 10:24:57 */
/* /rdx/current/dbxeq 1.13 08/19/94 10:07:56 */
/* /rdx/current/cidinit 1.123 08/19/94 10:20:42 */
/* /rdx/current/dskmgr 1.26 08/19/94 10:08:24 */
/* /rdx/current/cron 1.7 08/19/94 10:06:29 */
/* /rdx/current/x25init NONE NONE NONE */
/* /rdx/current/platmra 0.00 08/23/94 09:54:17 */
/* /rdx/current/timer 1.4 08/19/94 10:06:48 */
/* /rdx/current/em 5.00 08/27/94 04:51:57 */
/* /rdx/current/axm 5.00 08/27/94 04:48:09 */
/* /rdx/current/alarms 5.00 08/27/94 04:40:56 */
/* /rdx/current/pm 5.00 08/27/94 04:41:08 */
/* /rdx/current/fi 5.00 08/27/94 04:44:16 */
/* /rdx/current/diag 5.00 08/27/94 04:40:15 */
/* /rdx/current/platcpi 1.30 08/19/94 10:06:05 */
/* /rdx/current/tabalm 5.00 08/29/94 17:35:17 */
/* /rdx/current/tabpm 5.00 08/27/94 04:40:32 */
/* /rdx/current/report 1.6 08/19/94 10:24:48 */
/* /rdx/current/drs 5.00 08/27/94 04:44:25 */
/* /rdx/current/cid_audit 1.10 08/19/94 10:21:29 */
/* RTRV-STWR-VSN::::: [P80278] (3) */
;
```

RELATED COMMANDS

```
INIT-SYS
RPGM-EQPT
RST-EQPT
```


COMMAND CODE: **RTRV-SYSTMSG-OC12**
COMMAND NAME: **RETRIEVE SYNCHRONIZATION STATUS
MESSAGE FROM OC-12**

PURPOSE

The RTRV-SYSTMSG-OC12 command retrieves the synchronization status message that is being transmitted on the S1 byte of the specified OC-12 port. The synchronization status message is defined as a nibble (bits 5 through 8) in the S1 byte of the SONET line overhead and is used for synchronization purposes. The command is executed regardless of the state of the OC-12.

The successful response for a RTRV-SYSTMSG-OC12 command contains the S1 byte being sent out on the specified OC-12 port. The S1 byte is displayed as a three letter mnemonic converted from bits 5 through 8 of the received S1 byte. If the S1 byte does not convert to any of the valid mnemonics, the hex value of bits 5 through 8 of the S1 byte is displayed instead.

If the system times out (defined by SIGTO) before a valid S1 byte can be read, an "S1UNREADABLE" error message is displayed in place of the synchronization status message in the successful response. If DIRN is specified as OUTGOING and AIS is being transmitted on the addressed OC-12, an "AIS" message is displayed in place of the synchronization status message in the successful response.

A RTRV-SYSTMSG-OC12 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-SYSTMSG-OC12 : [TID] : AID : [CTAG] : : [DIRN] [, SIGTO] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	OC12_AID: {OC12-{1-560}} (OC12-OC12#) Default: Entry Required Addressing: None Description: Identifies the OC-12 of which the S1 byte is to be retrieved. Either working or protection OC-12 is valid.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
DIRN	{ OUTGOING } Default: { OUTGOING } Addressing: None Description: Direction, determines whether the incoming or outgoing S1 byte is to read. Values are: OUTGOING Reads the synchronization status message being sent out on the S1 byte of the addressed OC-12. If AIS is being sent out on the addressed OC-12, the system declares an "AIS" message (in the parsable field).

SIGTO	{ 2–20 }
Default:	{ 2 }
Addressing:	None
Description:	Signal TimeOut, specifies the time, in seconds, for which the system looks for a valid S1 byte before the system declares an “S1UNREAD-ABLE” error message (in the parsable field). A value of 2 seconds is the default.

SUCCESSFUL RESPONSE FORMAT

The output response will be as follows:

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  "<AID>: [SYSTMSG=<value>] "
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

OUTPUT PARAMETERS

AID	OC12_AID: {OC12-{1–560}} (OC12–OC12#) OC12 AID, indicates the OC–12 port to which the S1 byte output data pertains.
AIS	{AIS} Alarm Indication Signal, identifies AIS is being sent out on the specified OC–12 port. If DIRN is specified as OUTGOING and AIS is being transmitted on the specified OC–12 port, an “AIS” message is displayed in place of the synchronization status message in the successful response. Values is: AIS Alarm Indication Signal
SYSTMSG=	{ DUS, PRS, RES, SMC, ST2, ST3, ST4, STU } Synchronization Status Message, identifies the three letter mnemonic (acronym) converted from the S1 byte of the specified OC–12. If the S1 byte does not convert to any of the valid mnemonics, the system displays the Hex value of bits 5 through 8 of the S1 byte. Values are: DUS DON'T USE for Synchronization (S1 bits 5–8=1111). Quality level 7. PRS Stratum 1 Traceable (S1 bits 5–8=0001). Quality level 1. RES Reserved for Network Synchronization use (S1 bits 5–8=1110). Quality level: User assignable. SMC SONET minimum clock traceable (S1 bits 5–8=1100). Quality level 5. ST2 Stratum 2 Traceable (S1 bits 5–8=0111). Quality level 3. ST3 Stratum 3 Traceable (S1 bits 5–8=1010). Quality level 4. STU Synchronized – Traceability unknown (S1 bits 5–8=0000). Quality level 2.

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
SDBE	Status, internal Data Base Error /* TP Database Error: <ERROR-STRING> for <AID-STRING> */
SNVS	Status, Not in Valid State
SROF	Status, Requested Operation Failed
SRT0	Status, Reply Timeout Occurred
SSRE	Status, System Resources Exceeded

EXAMPLES

In the following example, the S1 byte data for OC-12 port OC12-1 is retrieved.

```
RTRV-SYSTMSG-OC12::::OC12-1;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of Pad567. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M Pad567 COMPLD  
"OC12-1:SYSTMSG=ST2"  
/* RTRV-SYSTMSG-OC12::::OC12-1 [Pad567] (2) */  
;
```

RELATED COMMANDS

None

COMMAND CODE: **RTRV-SYSTMSG-OC3**
COMMAND NAME: **RETRIEVE SYNCHRONIZATION STATUS MESSAGE FROM OC-3**

PURPOSE

The RTRV-SYSTMSG-OC3 command retrieves the synchronization status message that is being transmitted on the S1 byte of the specified OC-3 port. The synchronization status message is defined as a nibble (bits 5 through 8) in the S1 byte of the SONET line overhead and is used for synchronization purposes.

The successful response for a RTRV-SYSTMSG-OC3 command contains the S1 byte being sent out on the specified OC-3 port. The S1 byte is displayed as a three letter mnemonic converted from bits 5 through 8 of the received S1 byte. If the S1 byte does not convert to any of the valid mnemonics, the hex value of bits 5 through 8 of the S1 byte is displayed instead.

If the system times out (defined by SIGTO) before a valid S1 byte can be read, an "S1UNREADABLE" error message is displayed in place of the synchronization status message in the successful response. If DIRN is specified as OUTGOING and AIS is being transmitted on the addressed OC-3, an "AIS" message is displayed in place of the synchronization status message in the successful response.

A RTRV-SYSTMSG-OC3 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-SYSTMSG-OC3 : [TID] : AID : [CTAG] : : [DIRN] [, SIGTO] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	OC3_AID: {OC3-{1-2240}} (OC3-OC3#) Default: Entry Required Addressing: None Description: Identifies the OC-3 of which the S1 byte is to be retrieved. Either working or protection OC-3 is valid.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
DIRN	{ OUTGOING } Default: { OUTGOING } Addressing: None Description: Direction, determines whether the incoming or outgoing S1 byte is to read. Values are: OUTGOING Reads the synchronization status message being sent out on the S1 byte of the addressed OC-3. If AIS is being sent out on the addressed OC-3, the system declares an "AIS" message (in the parsable field).

SIGTO	{ 2–20 }
Default:	{ 2 }
Addressing:	None
Description:	Signal TimeOut, specifies the time, in seconds, for which the system looks for a valid S1 byte before the system declares an “S1UNREAD-ABLE” error message (in the parsable field). A value of 2 seconds is the default.

SUCCESSFUL RESPONSE FORMAT

The output response will be as follows:

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  "<AID>: [SYSTMSG=<value>]"
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

AID	OC3_AID: {OC3–{1–2240}} (OC3–OC3#) OC3 AID, indicates the OC–3 port to which the S1 byte output data pertains.
AIS	{AIS} Alarm Indication Signal, identifies AIS is being sent out on the specified OC–3 port. If DIRN is specified as OUTGOING and AIS is being transmitted on the specified OC–3 port, an “AIS” message is displayed in place of the synchronization status message in the successful response. Values is:
SYSTMSG=	{ DUS, PRS, RES, SMC, ST2, ST3, ST4, STU } Synchronization Status Message, identifies the three letter mnemonic (acronym) converted from the S1 byte of the specified OC–3. If the S1 byte does not convert to any of the valid mnemonics, the system displays the Hex value of bits 5 through 8 of the S1 byte. Values are:
	DUS DON'T USE for Synchronization (S1 bits 5–8=1111). Quality level 7.
	PRS Stratum 1 Traceable (S1 bits 5–8=0001). Quality level 1.
	RES Reserved for Network Synchronization use (S1 bits 5–8=1110). Quality level: User assignable.
	SMC SONET minimum clock traceable (S1 bits 5–8=1100). Quality level 5.
	ST2 Stratum 2 Traceable (S1 bits 5–8=0111). Quality level 3.
	ST3 Stratum 3 Traceable (S1 bits 5–8=1010). Quality level 4.
	STU Synchronized – Traceability unknown (S1 bits 5–8=0000). Quality level 2.

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
SDBE	Status, internal Data Base Error
	/* TP Database Error: <ERROR-STRING> for <AID-STRING> */
SNVS	Status, Not in Valid State
SROF	Status, Requested Operation Failed
SSRE	Status, System Resources Exceeded

EXAMPLES

In the following example, the S1 byte data for OC-3 port OC3-1 is retrieved.

```
RTRV-SYSTMSG-OC3::::OC3-1;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of Pad567. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pad567 COMPLD
"OC3-1:SYSTMSG=ST2"
/* RTRV-SYSTMSG-OC3::::OC3-1 [Pad567] (2) */
;
```

RELATED COMMANDS

DLT-OC3
ED-OC3
ENT-OC3
RTRV-OC3
RTRV-DFLT-OC3
SET-DFLT-OC3

COMMAND CODE: **RTRV-SYSTMSG-T1**
COMMAND NAME: **RETRIEVE SYNCHRONIZATION STATUS
MESSAGE FROM T1**

PURPOSE

The RTRV-SYSTMSG-T1 command retrieves the synchronization status message that is being received as a bit-oriented message in the ESF data link of the addressed reference clock.

The successful response for a RTRV-SYSTMSG-T1 command contains the synchronization status message being received in the specified clock reference signal. The synchronization status message, the bit-oriented message in the ESF data link of the reference clock, is converted to a three letter mnemonic and is displayed if the conversion is successful. If the bit-oriented message in the ESF data link does not convert to any of the valid mnemonics, the hex value of the message is displayed.

If RTRV-SYSTMSG-T1 is issued on a clock reference source which is defined with FMT of SF, or is defined with FMT of ESF but does not support synchronization status messages (SYNCMSG=N in ENT-T1 command), the command completes with no output data displayed. If the system times out (defined by SIGTO) before a valid synchronization status message can be read, an "SYUNREADABLE" error message is displayed in place of the synchronization status message in the successful response.

A RTRV-SYSTMSG-T1 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-SYSTMSG-T1 : [TID] : AID : [CTAG] : : [SIGTO] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	TMG_AID: {TMG-{0, 1}} Default: Entry Required Addressing: None Description: Identifies the clock reference signal (timing reference source) from which the synchronization status message is to be read.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
SIGTO	{ 2-20 } Default: { 2 } Addressing: None Description: Signal TimeOut, specifies the time, in seconds, for which the system looks for a valid synchronization status message before the system declares an "SYUNREADABLE" error message (in the parsable field). A value of 2 seconds is the default.

SUCCESSFUL RESPONSE FORMAT

The output response will be as follows:

```

    <SID> <YY-MM-DD> <HH:MM:SS>
M  <CTAG> COMPLD
    "<AID>: [SYSTMSG=<value>]"
    [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

OUTPUT PARAMETERS

AID	<p>TMG_AID:</p> <p>{TMG-{0, 1}}</p> <p>TMG AID, indicates the clock reference signal in which the synchronization status message is received.</p>																				
SYSTMSG=	<p>{ DUS, PRS, RES, SMC, ST2, ST3, ST4, STU, <HH>, NPSM }</p> <p>Synchronization Status Message, identifies the mnemonic (acronym) converted from the received bit-oriented message in the ESF data link of the addressed reference clock. If the synchronization status message does not convert to any of the valid mnemonics, the system displays the Hex value of the message being sent or Not Provisioned for Synchronization message. Values are:</p> <table> <tbody> <tr> <td>DUS</td> <td>DON'T USE for Synchronization. Quality level 7.</td> </tr> <tr> <td>PRS</td> <td>Stratum 1 Traceable. Quality level 1.</td> </tr> <tr> <td>RES</td> <td>Reserved for Network Synchronization use. Quality level: User assignable.</td> </tr> <tr> <td>SMC</td> <td>SONET minimum clock traceable. Quality level 5.</td> </tr> <tr> <td>ST2</td> <td>Stratum 2 Traceable. Quality level 3.</td> </tr> <tr> <td>ST3</td> <td>Stratum 3 Traceable. Quality level 4.</td> </tr> <tr> <td>ST4</td> <td>Stratum 4 Traceable. Quality level 6.</td> </tr> <tr> <td>STU</td> <td>Synchronized – Traceability unknown. Quality level 2.</td> </tr> <tr> <td><HH></td> <td>Received value in Hex</td> </tr> <tr> <td>NPSM</td> <td>Not Provisioned for Synchronization Message</td> </tr> </tbody> </table>	DUS	DON'T USE for Synchronization. Quality level 7.	PRS	Stratum 1 Traceable. Quality level 1.	RES	Reserved for Network Synchronization use. Quality level: User assignable.	SMC	SONET minimum clock traceable. Quality level 5.	ST2	Stratum 2 Traceable. Quality level 3.	ST3	Stratum 3 Traceable. Quality level 4.	ST4	Stratum 4 Traceable. Quality level 6.	STU	Synchronized – Traceability unknown. Quality level 2.	<HH>	Received value in Hex	NPSM	Not Provisioned for Synchronization Message
DUS	DON'T USE for Synchronization. Quality level 7.																				
PRS	Stratum 1 Traceable. Quality level 1.																				
RES	Reserved for Network Synchronization use. Quality level: User assignable.																				
SMC	SONET minimum clock traceable. Quality level 5.																				
ST2	Stratum 2 Traceable. Quality level 3.																				
ST3	Stratum 3 Traceable. Quality level 4.																				
ST4	Stratum 4 Traceable. Quality level 6.																				
STU	Synchronized – Traceability unknown. Quality level 2.																				
<HH>	Received value in Hex																				
NPSM	Not Provisioned for Synchronization Message																				

UNSUCCESSFUL RESPONSE FORMAT

```

    <SID> <YY-MM-DD> <HH:MM:SS>
M  <CTAG> DENY
    <ERROR CODE>
    [/* <Informational Error Description Text> */]
    [/* <Expanded Error Code Description> */]
    [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
SDBE	Status, internal Data Base Error
	/* TP Database Error: <ERROR-STRING> for <AID-STRING> */
SNVS	Status, Not in Valid State
SROF	Status, Requested Operation Failed
SSRE	Status, System Resources Exceeded

EXAMPLES

In the following example, the synchronization status message from clock reference signal TMG-0 is retrieved.

```
RTRV-SYSTMSG-T1::::TMG-0;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of Pad567. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M Pad567 COMPLD  
"TMG-0:SYSTMSG=ST2"  
/* RTRV-SYSTMSG-T1::::TMG-0 [Pad567] (2) */  
;
```

RELATED COMMANDS

```
DLT-T1  
ED-T1  
ENT-T1  
RTRV-T1
```


COMMAND CODE: **RTRV-T1**
COMMAND NAME: **RETRIEVE T1**

PURPOSE

The RTRV-T1 command retrieves the provisioned parameter values, supporting I/O circuit pack AID, near end and far end facility alarm conditions, and current PST,SST state for the specified DS1 port. The DS1 port's current provisioned values and conditions (if provisioned), and state are retrieved from the system database. It also will show whether or not the DS1 is assigned to a Fractional DS3 (F3). The command is executed regardless of the state of the DS1.

The successful response for a RTRV-T1 command contains one line of parsable output data, in ascending order (from lowest specified DS1 AID to highest specified DS1 AID), for each DS1 AID specified. A value for LINECDE is only displayed if the DS1 is a terminated electrical DS1 port. Values for NENDALM and FENDALM are only displayed if a condition exists. Only <AID> and <PST,SST> are displayed for a retrieve of an unprovisioned DS1 or if the entered AID specifies a T1 embedded within a protection OC3/OC12 which is in normal linear mode. In ring mode (refer to ENT-RNG-OC3 or ENT-RNG-OC12), the RTRV-T1 command displays all of the output data for T1s that are part of an odd-numbered or even-numbered ring OC3/OC12. Output data for both Test Access Port Pairs are displayed for a retrieve on a Test Access port.

RTRV-T1 also retrieves the provisioned parameter values for only the provisioned (Internal and External) Idle Signal Source ports in the system if AID of ALL and SRC=INTXT is entered. If an Idle Signal Source port has not been provisioned, then no parsable output data is provided.

The RTRV-T1 command only displays the output values other than CIECRA, SXECRA, IDLE, LINECDE, TAP-POOL, and TMGREF if the entered AID specifies a T1 embedded within a VT1.5, since these values cannot be provisioned with this type of port.

The RTRV-T1 command also retrieves the provisioned parameter values and the current PST,SST state values for the specified external timing reference source (TMG).

A RTRV-T1 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-T1 : [TID] : AID : [CTAG] : : : [SRC=] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >
Default:	<SID>
Addressing:	None
Description:	Target Identifier, specifies the network node TID for the command.

AID	DS1_AID:	
	{T1-{1-59392}}	(T1-DS1#)
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)
	{EC1T1-{1-3840}-{1-28}}	(EC1T1-EC1/STS1/DS3#-DS1#)
	{EC1T1-{1-3840}-{1-7}-{1-4}}	(EC1T1-EC1/STS1#-VTGrp#-VT1/DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-28}}	(OC3T1-OC3#-STS1/DS3#-DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3T1-OC3#-STS1#-VTGrp#-VT1/DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}	(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	(OC12T1-OC12#-STM1#-STS1#-VTGrp#-VT1/DS1#)
	TMG_AID:	
	{TMG-{0, 1}}	
	ALL_AID:	
	{ALL}	
	Default:	Entry Required
	Addressing:	&&-ranging and &-grouping
	Description:	Identifies the DS1 port or a range of ports. This may also identify an external reference timing source. Name-defined values are:
	ALL	All Internal and External Idle Signal Source ports are retrieved.
	Restrictions:	RTRV-T1 is denied if AID of ALL and no SRC value is entered.
CTAG	< 1-6 VALID CTAG CHARACTERS >	
	Default:	< System assigned CTAG value >
	Addressing:	None
	Description:	Correlation Tag, associates input command with its output responses.
SRC=	{INTEXT, <NoVal>}	
	Default:	<NoVal>
	Addressing:	None
	Description:	Idle Signal Source port, specifies whether only the provisioned Internal and External Idle Signal Source ports are to be retrieved. Values are:
	INTEXT	Internal and External Idle Signal Source, specifies that only the Internal and External Idle Signal Source ports are to be retrieved.
	<NoVal>	No Value, specifies that the output is not filtered for only the Idle Signal Source ports.
	Restrictions:	RTRV-T1 is denied if a SRC value is entered and AID1 of ALL is not entered.

SUCCESSFUL RESPONSE FORMAT

If the AID specifies a DS1 port, then the output response format is:

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  ["<AID>.: [AINSTH=<value>] [,AISC=<value>] [,AISF=<value>] [,CARDID=<value>]
  [,CIECRA=<value>] ,ES=<value> [, F3=<value>] [,FEMETHOD=<value>]
  [,FENDALM=<value>] [,FENDNTE=<value> [, FMT=<value>] [,IDLE=<value>]
  [,LINECDE=<value>] [,NENDALM=<value>
  [,SRC=<value>] [,SXCRA=<value>] [,TACC=<value>]
  [,TAPPOOL=<value>]:<PST> [,<SST>]"
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

If the AID specifies a TMG reference source, then the output response format is:

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
"AID: :FMT=<value>,LINECDE=<value>,TMGREF=<value>
[,SYNCMSG=<value>] [,NENDALM=<value>]:PST,SST"
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

OUTPUT PARAMETERS

AID	DS1_AID:	
	{T1-{1-59392}}	(T1-DS1#)
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)
	{EC1T1-{1-3840}-{1-28}}	(EC1T1-EC1/STS1/DS3#-DS1#)
	{EC1T1-{1-3840}-{1-7}-{1-4}}	(EC1T1-EC1/STS1#-VTGrp#-VT1/DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-28}}	(OC3T1-OC3#-STS1/DS3#-DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3T1-OC3#-STS1#-VTGrp#-VT1/DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}	(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	
	(OC12T1-OC12#-STM1#-STS1#-VTGrp#-VT1/DS1#)	
	TMG_AID:	
	{TMG-{0, 1}}	
	DS1 AID, indicates the DS1 port to which this line of output data pertains and TMG AID indicates the Timing source to which this line of output data pertains.	
AINSTH	{HH-MM:{00-48} - {00-59} }	
	Automatic In-Service Threshold. Specifies how long a customer signal must be present on the facility without a LOS, LOF, or AIS-L alarm condition before the system puts the the facility into the In-Service state. The factory default is 8 hours. The valid value is:	
	HH-MM	Time, specifies the duration of an alarm-free signal where value HH indicates the time duration in hours and value MM indicates the time duration in minutes. The valid range of values is 00-48 and 00-59 (in increments of 1 minute), respectively.
AISC=	{LOF, LOFLOS, LOS}	
	Alarm Indication Signal insertion Criteria, identifies the condition necessary for insertion of AIS into a failed DS1 signal path. Values are:	
	LOF	Automatic AIS insertion on detection of LOF.
	LOFLOS	Automatic AIS insertion on detection of LOF or LOS.
	LOS	Automatic AIS insertion on detection of LOS.
AISF=	{N, Y}	
	Alarm Indication Signal Failure substitution, identifies whether a failed upstream signal (as defined by the AISC parameter) should have AIS inserted in the downstream path. Values are:	
	N	No, AIS is not inserted in the downstream path of a failed signal, the failed signal passes through the system.
	Y	Yes, AIS is inserted in the downstream path of a failed signal.

CARDID=	<p>EQUIPMENT_AID:</p> <p>{SI36: CDB-{6-9, 12-15, 18-21, 24-43}-{1, 3}-{1-2}, {SI48: CDB-{2-43, 104-111, 112-135, 136-141}-{1, 3}-{1, 2} {DSI-{44-63}-{1-4}-{1-32}} {SI48: EP3-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42}-{1, 3}-{1-18}, EP3-{9, 21, 35, 43}-3-{1-18}, EP3-{15, 27, 31, 39}-1-{1-18}, SI36: EP3-{6-8, 12-14}-{1, 3}-{1-14}, EP3-9-3-{1-14}, EP3-15-1-{1-14}} {LMU-{44-53}-{1-4}-{1-32}} {O1B-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{2-9, 11-18}} {O4M-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{2-3, 11-12}} {S3M-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{4-9, 13-18}} I/O Equipment Card ID, identifies the DS1 port's supporting I/O equipment AID using the equipment AID format.</p>								
CIECRA=	<p>{A, B, Y, Z}</p> <p>Customer Installation Equipment Circuit Record Address. Used to identify the customer installation equipment relative to an AT&T TR-54016 facility data link protocol. This is significant only if the far end performance monitoring data collection is being performed via the POLL or ANSIPOLL method. The valid values are:</p> <table> <tr> <td>A or Z</td><td>Used when requesting information from terminating equipment such as DSU/PBX/MUXs and NCTEs.</td></tr> <tr> <td>B or Y</td><td>Used when requesting information from CSUs.</td></tr> </table>	A or Z	Used when requesting information from terminating equipment such as DSU/PBX/MUXs and NCTEs.	B or Y	Used when requesting information from CSUs.				
A or Z	Used when requesting information from terminating equipment such as DSU/PBX/MUXs and NCTEs.								
B or Y	Used when requesting information from CSUs.								
ES=	<p>{1-32}</p> <p>The first stage M16 module to which the addressed DS1 is connected to. Values are:</p> <table> <tr> <td>1-32</td><td>An integer between 1 and 32 indicating the end stage number.</td></tr> </table>	1-32	An integer between 1 and 32 indicating the end stage number.						
1-32	An integer between 1 and 32 indicating the end stage number.								
F3=	<p>F3_AID:</p> <p>{T3F3-{1-4800}-{1-14}} (T3F3-DS3#-Fractional_DS3#)</p> <p>Fractional T3 that the T1 has been assigned to. This field is displayed only if the T1 has been assigned to a F3.</p>								
FEMETHOD=	<p>{ANSI, ATTPOLL, NONE}</p> <p>Defines far-end PM collection method. Values are:</p> <table> <tr> <td>ANSI</td><td>Basic ANSI T1.403 PM data collection.</td></tr> <tr> <td>ATTPOLL</td><td>Poll for PM data using AT&T 54016 protocol to poll the data and convert into ANSI format for reporting. (ALCATEL method).</td></tr> <tr> <td>NONE</td><td>None. The far end PM is not collected on this DS1.</td></tr> </table>	ANSI	Basic ANSI T1.403 PM data collection.	ATTPOLL	Poll for PM data using AT&T 54016 protocol to poll the data and convert into ANSI format for reporting. (ALCATEL method).	NONE	None. The far end PM is not collected on this DS1.		
ANSI	Basic ANSI T1.403 PM data collection.								
ATTPOLL	Poll for PM data using AT&T 54016 protocol to poll the data and convert into ANSI format for reporting. (ALCATEL method).								
NONE	None. The far end PM is not collected on this DS1.								
FENDALM=	<p>{RAI}</p> <p>Far End DS1 Alarm Condition, identifies any far end DS1 alarm conditions that exist on the DS1. A FENDALM value is only reported if a FENDALM condition exists. Value is:</p> <table> <tr> <td>RAI</td><td>Far End Remote Alarm Indication signal detected</td></tr> </table>	RAI	Far End Remote Alarm Indication signal detected						
RAI	Far End Remote Alarm Indication signal detected								
FENDNTE=	<p>{ANSI, ANSIATT, ATT, NONE}</p> <p>Far End NTE performance monitoring terminal type, identifies whether the far end network terminal supports standard ANSI performance monitoring (PM) collection and reporting or AT&T TR-54016 polled PM reporting for ESF DS1 signal formats. Values are:</p> <table> <tr> <td>ANSI</td><td>ANSI, the far-end NTE supports the ANSI PM standard.</td></tr> <tr> <td>ANSIATT</td><td>ANSI and AT&T, the far-end NTE supports the ANSI PM standard and the AT&T TR-54016 polled PM reporting standard.</td></tr> <tr> <td>ATT</td><td>AT&T TR-54016, the far-end NTE supports the AT&T TR-54016 polled PM reporting standard. (Refer to RTRV-FEDATA-T1)</td></tr> <tr> <td>NONE</td><td>None, the far-end NTE does not support either the ANSI PM standard or the AT&T TR-54016 standard.</td></tr> </table>	ANSI	ANSI, the far-end NTE supports the ANSI PM standard.	ANSIATT	ANSI and AT&T, the far-end NTE supports the ANSI PM standard and the AT&T TR-54016 polled PM reporting standard.	ATT	AT&T TR-54016, the far-end NTE supports the AT&T TR-54016 polled PM reporting standard. (Refer to RTRV-FEDATA-T1)	NONE	None, the far-end NTE does not support either the ANSI PM standard or the AT&T TR-54016 standard.
ANSI	ANSI, the far-end NTE supports the ANSI PM standard.								
ANSIATT	ANSI and AT&T, the far-end NTE supports the ANSI PM standard and the AT&T TR-54016 polled PM reporting standard.								
ATT	AT&T TR-54016, the far-end NTE supports the AT&T TR-54016 polled PM reporting standard. (Refer to RTRV-FEDATA-T1)								
NONE	None, the far-end NTE does not support either the ANSI PM standard or the AT&T TR-54016 standard.								

FMT=	<p>{ESF, SF, UNFR}</p> <p>DS1 Format, identifies the DS1 signal format for this port. The DS1 FMT parameter determines the type of signal format used for performance monitoring data collection and transmission condition detection, or the format of the Idle Signal Source port if SRC=INTSRC. Values are:</p> <table><tr><td>ESF</td><td>Extended SuperFrame</td></tr><tr><td>SF</td><td>SuperFrame</td></tr><tr><td>UNFR</td><td>Unframed</td></tr></table>	ESF	Extended SuperFrame	SF	SuperFrame	UNFR	Unframed				
ESF	Extended SuperFrame										
SF	SuperFrame										
UNFR	Unframed										
IDLE=	<p>{AIS, QRSF, QRSU}</p> <p>Idle signal transmit type, identifies the type of Idle signal to be transmitted by this port when it is disconnected, or determines the type of QRSF or QRSU Idle signal of the Idle Signal Source port. Values are:</p> <table><tr><td>AIS</td><td>AIS (Alarm Indication Signal)</td></tr><tr><td>QRSF</td><td>Framed QRS (Quasi-Random Signal)</td></tr><tr><td>QRSU</td><td>Unframed QRS (Quasi-Random Signal)</td></tr></table>	AIS	AIS (Alarm Indication Signal)	QRSF	Framed QRS (Quasi-Random Signal)	QRSU	Unframed QRS (Quasi-Random Signal)				
AIS	AIS (Alarm Indication Signal)										
QRSF	Framed QRS (Quasi-Random Signal)										
QRSU	Unframed QRS (Quasi-Random Signal)										
LINECDE=	<p>{AMI, B8ZS}</p> <p>DS1 Line Code, identifies the type of DS1 line code for a terminated electrical DS1 or for a TMG. A LINECDE value is only reported for terminated electrical DS1s or TMGs. Values are:</p> <table><tr><td>AMI</td><td>Alternate Mark Insertion</td></tr><tr><td>B8ZS</td><td>Bipolar with Eight Zero Substitution</td></tr></table>	AMI	Alternate Mark Insertion	B8ZS	Bipolar with Eight Zero Substitution						
AMI	Alternate Mark Insertion										
B8ZS	Bipolar with Eight Zero Substitution										
NENDALM=	<p>{AIS, EOC, LOF, LOS, SLTMSIG}</p> <p>Near End DS1 or TMG Alarm Condition, identifies any near end DS1 or TMG alarm conditions that exist on the DS1 or TMG. A NENDALM value is reported only when a NENDALM condition exists. Values are:</p> <table><tr><td>AIS</td><td>Alarm Indication Signal detected (DS1 or timing source).</td></tr><tr><td>EOC</td><td>ESF Embedded Operations Channel failure detected (DS1 only).</td></tr><tr><td>LOF</td><td>Loss of Frame detected (DS1 or timing source).</td></tr><tr><td>LOS</td><td>Loss of Signal detected (terminated electrical DS1 or timing source).</td></tr><tr><td>SLTMSIG</td><td>Slipping Timing Reference Signal (timing source only).</td></tr></table>	AIS	Alarm Indication Signal detected (DS1 or timing source).	EOC	ESF Embedded Operations Channel failure detected (DS1 only).	LOF	Loss of Frame detected (DS1 or timing source).	LOS	Loss of Signal detected (terminated electrical DS1 or timing source).	SLTMSIG	Slipping Timing Reference Signal (timing source only).
AIS	Alarm Indication Signal detected (DS1 or timing source).										
EOC	ESF Embedded Operations Channel failure detected (DS1 only).										
LOF	Loss of Frame detected (DS1 or timing source).										
LOS	Loss of Signal detected (terminated electrical DS1 or timing source).										
SLTMSIG	Slipping Timing Reference Signal (timing source only).										
SRC=	<p>{EXTSRC, INTSRC, NONE}</p> <p>Idle Signal Source port, indicates whether this DS1 port is to be used as QRSF or QRSU Idle signal source. Values are:</p> <table><tr><td>EXTSRC</td><td>External Idle signal Source, indicates external equipment is connected to the Signal Source port for generating an Idle signal.</td></tr><tr><td>INTSRC</td><td>Internal Idle signal source, indicates the Signal Source port is to use internal generators to provide a QRS signal (as provisioned by the IDLE parameter value).</td></tr><tr><td>NONE</td><td>None, indicates the specified DS1 port is not an Idle Signal Source port.</td></tr></table>	EXTSRC	External Idle signal Source, indicates external equipment is connected to the Signal Source port for generating an Idle signal.	INTSRC	Internal Idle signal source, indicates the Signal Source port is to use internal generators to provide a QRS signal (as provisioned by the IDLE parameter value).	NONE	None, indicates the specified DS1 port is not an Idle Signal Source port.				
EXTSRC	External Idle signal Source, indicates external equipment is connected to the Signal Source port for generating an Idle signal.										
INTSRC	Internal Idle signal source, indicates the Signal Source port is to use internal generators to provide a QRS signal (as provisioned by the IDLE parameter value).										
NONE	None, indicates the specified DS1 port is not an Idle Signal Source port.										
SXECRA=	<p>{C-X}</p> <p>1631SX Equipment Circuit Record Address. Used to identify the T1 port relative to an AT&T TR-54016 facility data link protocol. This is significant mainly when the far end performance monitoring data collection is being performed via the POLL or ANSIPOLL methods. The valid values are:</p> <table><tr><td>C to X</td><td>Local T1 port address.</td></tr></table>	C to X	Local T1 port address.								
C to X	Local T1 port address.										

SYNCMSG=	{N, Y}	Synchronization Message, indicates if the addressed timing reference clock supports synch status messages. Values are:
	N	No, the addressed reference clock does not support synch status messages.
	Y	Yes, the addressed reference clock supports synch status messages.
TACC=	{N, Y}	Test Access port, indicates whether this DS1 port is part of a Test Access Port Pair (TAPP). Values are:
	N	No, the specified DS1 port is not a Test Access port.
	Y	Yes, the specified DS1 port is a Test Access port.
TAPPOOL=	{PRIVATE-USERNAME, PUBLIC}	This parameter defines whether the TAP port that has been created (by means of TACC=Y) belongs to the pool that is private to the creator of the pool or belongs to a public pool.
	PRIVATE-USERNAME	Private-Name of the User. The TAP port pair that has been created is private to the user who created the TAP pair. If any other user tries to use this TAP pair (by means of CONN-TACC-T1), the command will be denied.
	PUBLIC	The TAP pair belongs to the Public pool of the system. It can be accessed by any user that has access to the test access commands.
TMGREF=	{PRI, SEC}	Identifies whether the external reference source is primary or secondary. This parameter is only displayed when the AID specifies a Timing Reference port (i.e., the AID is either a TMG-0 or TMG-1).
	PRI	Primary. The addressed external reference source is to be used as a primary source.
	SEC	Secondary. The addressed external reference source is to be used as a secondary source.
PST	{IS, OOS-AU, OOS-AUMA, OOS-MA}	Primary State, indicates the current primary state of the DS1. Refer to Appendix G, State Transitions for a definition of state names and description of state transitions. Values are:
	IS	In-Service
	OOS-AU	Out-Of-Service-Autonomous
	OOS-AUMA	Out-Of-Service-Autonomous and Management
	OOS-MA	Out-Of-Service-Management

SST {ACT, AINS, BUSY, DSBLD, FAF, LPBK, MT, PMI, ROLL, SGEO, STBY, TS, UAS, WRK}
Secondary State, indicates any secondary states associated with the DS1. SST values may be shown in the output combined with an ampersand (&) if more than one value applies to the DS1 at the time of the RTRV-T1. Refer to Appendix G, State Transitions for a definition of state names and description of state transitions. Values are:

ACT	Active
AINS	The DS1 is under Automatic IN-Service state.
BUSY	Busy
DSBLD	Disabled
FAF	Facility Failure
LPBK	Loopback
MT	Maintenance
PMI	Performance Monitoring Inhibited
ROLL	The DS1 is under roll operation.
SGEO	Supporting Entity Outage
STBY	Standby
TS	Test
UAS	Unassigned
WRK	Working. If set on Working path, the Working path is carrying service. If set on Protection path, the Protection path is carrying service.

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent
IIAC	Input, Invalid ACcess identifier
SDBE	Status, internal Data Base Error
	/* GetAidEntry() Error: <ERROR-STRING> */
	/* QRS Database Error: <ERROR-STRING> */
	/* TP Database Error: <ERROR-STRING> for <AID-STRING> */
	/* TPidToAidStr() Error: <ERROR-STRING> */
	/* TPidToTbss() Error: <ERROR-STRING> */
	/* pfo_get_state (<PART-NUMBER>) Error: <ERROR-STRING> */
	/* TAPP DataBase Error: <ERROR-STRING> for record number <RECORD-NUMBER> */
	/* GetSptgTPid() Error: <ERROR-STRING> */
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, the provisioning data for DS1 port T3T1-1-1 is retrieved.

```
RTRV-T1::T3T1-1-1;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of Pad567. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pad567 COMPLD
  "T3T1-1-1::AINSTH=05-30,AISC=LOF,FENDNTE=ANSI,FEMETHOD=NONE,CIE-
CRA=A,SXECRA=X,FMT=ESF,IDLE=QRSF,SRC=NONE,TACC=N,AISF=Y,CARDID=EP3-3-1,
ES=ES=5:IS,BUSY"
/* RTRV-T1::T3T1-1-1 [Pad567] (2) */
;
```

In the following example, the provisioning data for DS1 ports T3T1-1-10 through T3T1-1-16 is retrieved.

```
RTRV-T1::T3T1-1-10&&-16;

The output response, shown below, assumes CID 6 was used to enter the command and a system gener-
ated CTAG value of Pab124. The response header would contain the provisioned Site ID of the system,
and the date and time the command was executed.

<SID> <YY-MM-DD> <HH:MM:SS>
M Pab124 COMPLD
  "T3T1-1-10::AISC=LOS,AISF=Y,CARDID=EP3-6-1-1,CIECRA=A,FEMETHOD=NONE,
FENDNTE=ANSI,FMT=ESF,IDLE=QRSF,SRC=EXTSRC,SXECRA=X,TACC=N,ES=3:IS,BUSY"
  "T3T1-1-11::AISC=LOF,AISF=Y,CARDID=EP3-6-1-1,CIECRA=A,FEMETHOD=NONE,
FENDNTE=NONE,FMT=SF,IDLE=AI,NENDALM=LOF,SRC=NONE,SXECRA=X,
TACC=N,ES=3:OOS-AU,FAF"
  "T3T1-1-12::OOS-MA,UAS"
  "T3T1-1-13::AISC=LOF,AISF=Y,CARDID=EP3-6-1-1,CIECRA=A,FEMETHOD=NONE,
FENDNTE=NONE,FMT=ESF,IDLE=QRSF,SRC=NONE,SXECRA=X,TACC=Y,
TAPPOOL=PUBLIC,ES=3:IS,TS"
  "T3T1-1-14::AISC=LOF,AISF=Y,CARDID=EP3-6-1-1,CIECRA=A,FEMETHOD=NONE,
FENDNTE=NONE,FMT=ESF,IDLE=QRSF,SRC=NONE,SXECRA=X,TACC=Y,
TAPPOOL=PUBLIC,ES=3:IS,TS"
  "T3T1-1-15::AISC=LOF,AISF=Y,CARDID=EP3-6-1-1,CIECRA=A,FEMETHOD=NONE,
FENDNTE=NONE,FMT=ESF,IDLE=QRSF,SRC=NONE,SXECRA=X,TACC=Y,
TAPPOOL=PRIVATE-ALCATEL,ES=3:IS,TS"
  "T3T1-1-16::AISC=LOF,AISF=Y,CARDID=EP3-6-1-1,CIECRA=A,FEMETHOD=NONE,
FENDNTE=NONE,FMT=ESF,IDLE=QRSF,SRC=NONE,SXECRA=X,TACC=Y,
TAPPOOL=PRIVATE-ALCATEL,ES=3:IS,TS"
/* RTRV-T1::T3T1-1-10&&-16 [Pab124] (6) */
;
```

In the following example, the provisioning data for the Idle Signal Source ports in the system is retrieved.

```
RTRV-T1::ALL:::SRC=INTEXT;

The output response, shown below, assumes CID 4 was used to enter the command and a system gener-
ated CTAG value of Pac472. The response header would contain the provisioned Site ID of the system,
and the date and time the command was executed.

<SID> <YY-MM-DD> <HH:MM:SS>
M Pac472 COMPLD
  "T3T1-1-8::AISC=LOS,FENDNTE=NONE,FMT=ESF,IDLE=AI,SRC=INTSRC,TACC=N,
AISF=Y,CARDID=EP3-6-1-1,ES=3:IS,BUSY"
  "T3T1-1-9::AISC=LOS,FENDNTE=NONE,FMT=ESF,IDLE=QRSU,SRC=INTSRC,TACC=N,
AISF=Y,CARDID=EP3-6-1-1,ES=3:IS,BUSY"
  "T3T1-1-10::AISC=LOS,FENDNTE=ANSI,FMT=ESF,IDLE=QRSF,
SRC=EXTSRC,TACC=N,AISF=Y,CARDID=EP3-6-1-1,ES=3:IS,BUSY"
/* RTRV-T1::ALL:::SRC=INTEXT [Pac472] (4) */
;
```

In the following example, the provisioning data for DS1 ports T3T1-2-10 through T3T1-1-12 is retrieved. All these DS1s have been assigned to a fractional T3.

```
RTRV-T1::T3T1-2-10&&-12;
```

The output response, shown below, assumes CID 4 was used to enter the command and a system generated CTAG value of Pac472. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M  Pac472  COMPLD
      "T3T1-2-10::AISC=LOF,AISF=Y,CARDID=EP3-6-1-2,CIECRA=A,F3=T3F3-5-2,
FEMETHOD=NONE,FENDNTE=ANSI,FMT=ESF,IDLE=QRSF,SRC=NONE,
SXECRA=X,TACC=N,ES=3:IS,BUSY"
      "T3T1-2-11::AISC=LOF,AISF=Y,CARDID=EP3-6-1-2,CIECRA=A,F3=T3F3-5-2,
FEMETHOD=NONE,FENDNTE=ANSI,FMT=ESF,IDLE=QRSF,SRC=NONE,
SXECRA=X,TACC=N,ES=3:IS,BUSY"
      "T3T1-2-12::AISC=LOF,AISF=Y,CARDID=EP3-6-1-2,CIECRA=A,F3=T3F3-5-2,
FEMETHOD=NONE,FENDNTE=ANSI,FMT=ESF,IDLE=QRSF,SRC=NONE,
SXECRA=X,TACC=N,ES=3:IS,BUSY
/*RTRV-T1::T3T1-2-10&&-12 [Pad567] (2) */
;
```

RELATED COMMANDS

DLT-T1
ED-F3
ED-T1
ENT-T1
RMV-T1
RST-T1
RTRV-F3
RTRV-DFLT-T1
RTRV-SYSTMSG-T1
SET-DFLT-T1

COMMAND CODE: **RTRV-T3**
COMMAND NAME: **RETRIEVE T3**

PURPOSE

The RTRV-T3 command retrieves the provisioned parameter values, supporting I/O circuit pack AID, near-end and far-end facility conditions, and current PST,SST state for the specified DS3 port. The DS3's current provisioned values and conditions (if provisioned), and state are retrieved from the system database. The command is executed regardless of the state of the DS3.

The successful response for a RTRV-T3 command contains one line of parsable output data, in ascending order (from lowest specified DS3 AID to largest specified DS3 AID) for each DS3 AID specified. Values for NENDALM and FENDALM are only displayed if a condition exists. A value for TAPPOOL is only displayed if the specified DS3 is a test access port. Only <AID> and <PST,SST> are displayed for a retrieve on an unprovisioned DS3 or if the entered AID specifies a T3 embedded within a protection OC3 or OC12 which is in normal linear mode. In ring mode (refer to ENT-RNG-OC3 or ENT-RNG-OC12), the RTRV-T3 command displays all of the output data for T3s that are part of an odd-numbered or even-numbered ring OC3 or OC12.

A RTRV-T3 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-T3 : [TID] :AID: [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	DS3_AID: {T3-{1-4800}} (T3-DS3#) {EC1T3-{1-3840}} (EC1T3-EC1/STS1/DS3#) {OC3T3-{1-2240}-{1-3}} (OC3T3-OC3#-STS1/DS3#) {OC12T3-{1-560}-{1-4}-{1-3}} (OC12T3-OC12#-STM1#-STS1/DS3#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: DS3 AID, identifies the DS3 port or a range of ports.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  "<AID>.: [AINSTH=<value>,AISC=<value>,AISPASS=<value>,AIST=<value>,
CARDID=<value>,DS3PTYEL=<value>,FEAC=<value>[, FENDALM=<value>]
[, FESCP=<value>], FMT=<value>,LINECDE=<value>[, NENDALM=<value>] ,
PMMETHOD=<value>TACC=<value>[, TAPPOOL=<value>] [, TRANSALM=<value>] ,
XBITRCV=<value>,XPOL=<value>]:<PST>[, <SST>]"
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

AID	<p>DS3_AID:</p> <p>{T3-{1-4800}} (T3-DS3#)</p> <p>{EC1T3-{1-3840}} (EC1T3-EC1/STS1/DS3#)</p> <p>{OC3T3-{1-2240}-{1-3}} (OC3T3-OC3#-STS1/DS3#)</p> <p>{OC12T3-{1-560}-{1-4}-{1-3}} (OC12T3-OC12#-STM1#-STS1/DS3#)</p> <p>DS3 AID. Indicates the DS3 port to which this line of output data pertains.</p>
AINSTH	<p>{HH-MM:{00-48} - {00-59} }</p> <p>Automatic In-Service Threshold. Specifies how long a customer signal must be present on the facility without a 7LOF, ISD, AICMISM, LOS, LOF, or AIS-L alarm condition before the system puts the facility into the In-Service state. The factory default is 8 hours. The valid value is:</p> <p>HH-MM Time, specifies the duration of an alarm-free signal where value HH indicates the time duration in hours and value MM indicates the time duration in minutes. The valid range of values is 00-48 and 00-59 (in increments of 1 minute), respectively.</p>
AISC=	<p>{LOFLOS, LOS}</p> <p>Alarm Indication Signal insertion Criteria. Indicates the condition at the input of a DS3 intact cross connect necessary for AIS insertion into the output of the DS3 intact cross connect. Values are:</p> <p>LOS Loss of Signal. Automatic AIS insertion upon detection of LOS.</p> <p>LOFLOS Loss of Frame-Loss of Signal. Automatic AIS insertion upon detection of LOFLOS.</p>
AISPASS=	<p>{Y, N }</p> <p>Alarm Indication Signal Passed. Indicates whether the AIS generated by the input port which is connected to the output port is passed through the output port, or whether AIS is generated by the output port itself. Values are:</p> <p>Y The AIS generated by the input port is passed through the output port.</p> <p>N AIS is regenerated by the output port instead of being passed through the output port.</p>
AIST=	<p>{NAS, ONES, OAIS}</p> <p>Alarm Indication Signal Type. Indicates the system default provisioning value for the input AIS signal and generated output AIS signal for the DS3 port should a failure condition exist. Values are:</p> <p>NAS North American Standard.</p> <p>ONES Unframed All Ones (Nonstandard).</p> <p>OAIS Old AIS, the same sequence of information bits as North American Standard but with no regard to how the C-bits are set.</p>
CARDID=	<p>EQUIPMENT_AID:</p> <p>{SI48: EP3-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42}-{1, 3}-{1-18}, EP3-{9, 21, 35, 43}-3-{1-18}, EP3-{15, 27, 31, 39}-1-{1-18}, SI36: EP3-{6-8, 12-14}-{1, 3}-{1-14}, EP3-9-3-{1-14}, EP3-15-1-{1-14}} {HMU-{44-53}-{1-4}-{1-8}} {O1B-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{2-9, 11-18}} {O4M-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{2-3, 11-12}} {S3M-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{4-9, 13-18}}}</p> <p>Card Identification. I/O Equipment Card ID, identifies the DS3 port's supporting I/O equipment AID using the equipment AID format.</p>

DS3PTYEL=	{N, Y}	
	DS3 Yellow behavior. Indicates whether DS3 path yellow or RDI (remote defect indication) will be sent and detected. Values are:	
	N	RDI will be sent/detected by the DS3.
	Y	DS3 path yellow will be sent/detected by the DS3.
FEAC=	{N, Y}	
	Far End Alarm and Control. Indicates the system default provisioning value for the far end alarm and control enable setting for C-bit parity format. Values are:	
	N	FEAC inhibited.
	Y	FEAC enabled.
FENDALM=	{AIS, DS2YEL, FEACEQPT, ISD, LOF, LOS, RAI}	
	Far End Alarm. Identifies any far end DS3 alarm conditions that exist on the DS3. A FENDALM value is reported only if a FENDALM condition exists. Values are:	
	AIS	Far End Alarm Indication Signal failure signal detected.
	DS2YEL	DS2 Yellow (Remote Alarm Indication) signal detected.
	FEACEQPT	Far End Equipment failure signal detected.
	ISD	Far End Idle Signal Detect failure signal detected.
	LOF	Far End Loss of Frame failure signal detected.
	LOS	Far End Loss of Signal failure signal detected.
	RAI	Far End Remote Alarm Indication signal detected.
FESCP=	EC1_AID:	
	{EC1-{1-3840} }	(EC1-EC1/STS1#)
	OC3_AID:	
	{OC3-{1-2240}}	(OC3-OC3#)
	OC12_AID:	
	{OC12-{1-560}}	(OC12-OC12#)
	DS3_AID:	
	{T3-{1-4800}}	(T3-DS3#)
	DS1_AID:	
	{T1-{1-59392}}	(T1-DS1#)
	Fault Escalating Port, identifies the facility AID of the receive-side port that is causing a FLTESC alarm to be reported. A FESCP value is only reported when a NEND value of FLTESC exists. Only the AID corresponding to first FLTESC alarm found by the system is reported (i.e., if more than one port is causing a FLTESC, then only the first port found in the system's search is reported).	
FMT=	{ASYNC, CBIT, FRCC, UNCBIT, UNFR}	
	Format. DS3 Format. Indicates the system default provisioning value for the DS3 signal format for this port. Values are:	
	ASYNC	Asynchronous (M13 format)
	CBIT	C-Bit parity format
	FRCC	Framed Clear Channel
	UNCBIT	Unchannelized C-Bit parity format
	UNFR	Unframed format
LINECDE=	{B3ZS}	
	DS3 Line Code, indicates the DS3 line coding type. Only B3ZS code is supported. Value is:	
	B3ZS	Bipolar with Three Zero Substitution.

NENDALM=	<p>{1TO6LOF, 7LOF, AICMIS, AIS, FLTESC, ISD, LOF, LOS}</p> <p>Near End Alarm. Identifies any near end DS3 alarm conditions that exist on the DS3. A NENDALM value is reported only when a NENDALM condition exists. Values may be shown combined with an ampersand (&) if more than one value applies to the T3 at the time of the RTRV-T3 (i.e., if a RCV and TRMT alarm both exist). Values are:</p> <table> <tr> <td>1TO6LOF</td><td>1 to 6 embedded DS2s with Loss of Frame detected.</td></tr> <tr> <td>7LOF</td><td>All Seven DS2s in the DS3 with Loss of Frame detected.</td></tr> <tr> <td>AICMIS</td><td>Application Identification Code signal Mismatch detected.</td></tr> <tr> <td>AIS</td><td>Alarm Indication Signal detected.</td></tr> <tr> <td>FLTESC</td><td>Facility Fault Escalation activated.</td></tr> <tr> <td>ISD</td><td>Idle Signal Detected.</td></tr> <tr> <td>LOF</td><td>Loss of Frame detected.</td></tr> <tr> <td>LOS</td><td>Loss of Signal detected.</td></tr> </table>	1TO6LOF	1 to 6 embedded DS2s with Loss of Frame detected.	7LOF	All Seven DS2s in the DS3 with Loss of Frame detected.	AICMIS	Application Identification Code signal Mismatch detected.	AIS	Alarm Indication Signal detected.	FLTESC	Facility Fault Escalation activated.	ISD	Idle Signal Detected.	LOF	Loss of Frame detected.	LOS	Loss of Signal detected.														
1TO6LOF	1 to 6 embedded DS2s with Loss of Frame detected.																														
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LOF	Loss of Frame detected.																														
LOS	Loss of Signal detected.																														
PMMETHOD=	<p>{CP, FM, FMA, P, NONE}</p> <p>Performance Monitoring Method, indicates the system default provisioning value for the type of performance monitoring that is performed on the DS3. Values are:</p> <p>If FMT=ASYNCR (M13 format):</p> <table> <tr> <td>FM</td><td>F&M bit monitoring.</td></tr> <tr> <td>FMA</td><td>F&M bit adjusted monitoring.</td></tr> <tr> <td>P</td><td>P-bit monitoring.</td></tr> </table> <p>If FMT=CBIT (C-Bit parity format):</p> <table> <tr> <td>CP</td><td>Only CP-bit monitoring.</td></tr> <tr> <td>FM</td><td>F&M bit and CP-bit monitoring.</td></tr> <tr> <td>FMA</td><td>F&M bit adjusted and CP-bit monitoring.</td></tr> <tr> <td>P</td><td>P-bit and CP-bit monitoring.</td></tr> </table> <p>If FMT=FRCC (Framed Clear Channel):</p> <table> <tr> <td>FM</td><td>F&M bit monitoring</td></tr> <tr> <td>FMA</td><td>F&M bit adjusted monitoring</td></tr> <tr> <td>P</td><td>P-bit monitoring</td></tr> </table> <p>If FMT=UNCBIT (Unchannelized C-Bit parity format):</p> <table> <tr> <td>CP</td><td>Only CP-bit monitoring</td></tr> <tr> <td>FM</td><td>F&M bit and CP-bit monitoring</td></tr> <tr> <td>FMA</td><td>F&M bit adjusted and CP-bit monitoring</td></tr> <tr> <td>P</td><td>P-bit and CP-bit monitoring</td></tr> </table> <p>If FMT=UNFR (Unframed):</p> <table> <tr> <td>NONE</td><td>Null value specified for PMMETHOD</td></tr> </table>	FM	F&M bit monitoring.	FMA	F&M bit adjusted monitoring.	P	P-bit monitoring.	CP	Only CP-bit monitoring.	FM	F&M bit and CP-bit monitoring.	FMA	F&M bit adjusted and CP-bit monitoring.	P	P-bit and CP-bit monitoring.	FM	F&M bit monitoring	FMA	F&M bit adjusted monitoring	P	P-bit monitoring	CP	Only CP-bit monitoring	FM	F&M bit and CP-bit monitoring	FMA	F&M bit adjusted and CP-bit monitoring	P	P-bit and CP-bit monitoring	NONE	Null value specified for PMMETHOD
FM	F&M bit monitoring.																														
FMA	F&M bit adjusted monitoring.																														
P	P-bit monitoring.																														
CP	Only CP-bit monitoring.																														
FM	F&M bit and CP-bit monitoring.																														
FMA	F&M bit adjusted and CP-bit monitoring.																														
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FMA	F&M bit adjusted monitoring																														
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CP	Only CP-bit monitoring																														
FM	F&M bit and CP-bit monitoring																														
FMA	F&M bit adjusted and CP-bit monitoring																														
P	P-bit and CP-bit monitoring																														
NONE	Null value specified for PMMETHOD																														
TACC=	<p>{N, Y}</p> <p>Test Access port, indicates that this DS3 port (specified by AID) and the AID+1 DS3 port are to be used as a Test Access Port Pairs (TAPP). The port specified by AID becomes FAD A and the port specified by AID+1 becomes FAD B. Values are:</p> <table> <tr> <td>N</td><td>The specified DS3 port is not a Test Access port.</td></tr> <tr> <td>Y</td><td>DS3 ports specified by AID and AID+1 are Test Access ports.</td></tr> </table>	N	The specified DS3 port is not a Test Access port.	Y	DS3 ports specified by AID and AID+1 are Test Access ports.																										
N	The specified DS3 port is not a Test Access port.																														
Y	DS3 ports specified by AID and AID+1 are Test Access ports.																														
TAPPOOL=	<p>{PRIVATE-<USER NAME>, PUBLIC}</p> <p>This parameter defines whether the TAP port that has been created (by means of TACC=Y) belongs to the pool that is private to the creator of the pool or belongs to a public pool.</p> <table> <tr> <td>PRIVATE-<USER NAME></td><td>Private-User Name. The TAP port pair that has been created is private to the user who created the TAP pair – Name of the User that owns the Pool.</td></tr> <tr> <td>PUBLIC</td><td>Public. The TAP pair belongs to the Public pool of the system. It can be accessed by any user that has access to the test access commands.</td></tr> </table>	PRIVATE-<USER NAME>	Private-User Name. The TAP port pair that has been created is private to the user who created the TAP pair – Name of the User that owns the Pool.	PUBLIC	Public. The TAP pair belongs to the Public pool of the system. It can be accessed by any user that has access to the test access commands.																										
PRIVATE-<USER NAME>	Private-User Name. The TAP port pair that has been created is private to the user who created the TAP pair – Name of the User that owns the Pool.																														
PUBLIC	Public. The TAP pair belongs to the Public pool of the system. It can be accessed by any user that has access to the test access commands.																														

TRANSALM=	{IDMISMATCH, IDUNREADABLE}																														
	TRANS ID Alarm. Identifies any TRANS ID DS3 alarm conditions that exist on the DS3. A TRANSALM value is reported only when a TRANSALM condition exists. Values are:																														
	<table> <tr> <td>IDMISMATCH</td><td>Path ID Mismatch detected.</td></tr> <tr> <td>IDUNREADABLE</td><td>Path ID Un-Readable detected.</td></tr> </table>	IDMISMATCH	Path ID Mismatch detected.	IDUNREADABLE	Path ID Un-Readable detected.																										
IDMISMATCH	Path ID Mismatch detected.																														
IDUNREADABLE	Path ID Un-Readable detected.																														
XBITRCV=	{ALM0, ALM1, IGNORE}																														
	Receive X-Bit Translation. Indicates the system default provisioning value for how incoming DS3 and DS2 X-bits are translated. Values are:																														
	<table> <tr> <td>ALM0</td><td>Incoming X-bit of 0 indicates a remote alarm.</td></tr> <tr> <td>ALM1</td><td>Incoming X-bit of 1 indicates a remote alarm.</td></tr> <tr> <td>IGNORE</td><td>Ignore incoming X-bits.</td></tr> </table>	ALM0	Incoming X-bit of 0 indicates a remote alarm.	ALM1	Incoming X-bit of 1 indicates a remote alarm.	IGNORE	Ignore incoming X-bits.																								
ALM0	Incoming X-bit of 0 indicates a remote alarm.																														
ALM1	Incoming X-bit of 1 indicates a remote alarm.																														
IGNORE	Ignore incoming X-bits.																														
XPOL=	{0, 1, ALM0, ALM1}																														
	Transmit X-bit Polarity. Indicates the system default provisioning value for how outgoing DS3 and DS2 X-bits are set. Values are:																														
	<table> <tr> <td>0</td><td>Force outgoing X-bits to 0.</td></tr> <tr> <td>1</td><td>Force outgoing X-bits to 1.</td></tr> <tr> <td>ALM0</td><td>Set X-bits to 0 for indicating alarm.</td></tr> <tr> <td>ALM1</td><td>Set X-bits to 1 for indicating alarm.</td></tr> </table>	0	Force outgoing X-bits to 0.	1	Force outgoing X-bits to 1.	ALM0	Set X-bits to 0 for indicating alarm.	ALM1	Set X-bits to 1 for indicating alarm.																						
0	Force outgoing X-bits to 0.																														
1	Force outgoing X-bits to 1.																														
ALM0	Set X-bits to 0 for indicating alarm.																														
ALM1	Set X-bits to 1 for indicating alarm.																														
PST	{IS, OOS-AU, OOS-AUMA, OOS-MA}																														
	Primary State. Indicates the current primary state of the DS3. Refer to Appendix G, State Transitions for a definition of state names and description of state transitions. Values are:																														
	<table> <tr> <td>IS</td><td>In-Service</td></tr> <tr> <td>OOS-AU</td><td>Out-Of-Service-Autonomous</td></tr> <tr> <td>OOS-AUMA</td><td>Out-Of-Service-Autonomous and Management</td></tr> <tr> <td>OOS-MA</td><td>Out-Of-Service-Management</td></tr> </table>	IS	In-Service	OOS-AU	Out-Of-Service-Autonomous	OOS-AUMA	Out-Of-Service-Autonomous and Management	OOS-MA	Out-Of-Service-Management																						
IS	In-Service																														
OOS-AU	Out-Of-Service-Autonomous																														
OOS-AUMA	Out-Of-Service-Autonomous and Management																														
OOS-MA	Out-Of-Service-Management																														
SST	{ACT, AINS, BUSY, DSBLD, FAF, LPBK, MT, PMI, SDEE, SGEO, STBY, TRM, TS, UAS, WRK}																														
	Secondary State. Indicates any secondary states associated with the DS3. SST values may be shown in the output combined with an ampersand (&) if more than one value applies to the DS3 at the time of the RTRV-T3. Refer to Appendix G, State Transitions for a definition of state names and description of state transitions. Values are:																														
	<table> <tr> <td>ACT</td><td>Active</td></tr> <tr> <td>AINS</td><td>Automatic In-Service</td></tr> <tr> <td>BUSY</td><td>Busy</td></tr> <tr> <td>DSBLD</td><td>Disabled</td></tr> <tr> <td>FAF</td><td>Facility Failure</td></tr> <tr> <td>LPBK</td><td>Loopback</td></tr> <tr> <td>MT</td><td>Maintenance</td></tr> <tr> <td>PMI</td><td>Performance Monitoring Inhibited</td></tr> <tr> <td>SDEE</td><td>Supported Entity Exists</td></tr> <tr> <td>SGEO</td><td>Supporting Entity Outage</td></tr> <tr> <td>STBY</td><td>Standby</td></tr> <tr> <td>TRM</td><td>Terminated, supported entity is cross-connected</td></tr> <tr> <td>TS</td><td>Test</td></tr> <tr> <td>UAS</td><td>Unassigned</td></tr> <tr> <td>WRK</td><td>Working. If set on Working path, the Working path is carrying service. If set on Protection path, the Protection path is carrying service.</td></tr> </table>	ACT	Active	AINS	Automatic In-Service	BUSY	Busy	DSBLD	Disabled	FAF	Facility Failure	LPBK	Loopback	MT	Maintenance	PMI	Performance Monitoring Inhibited	SDEE	Supported Entity Exists	SGEO	Supporting Entity Outage	STBY	Standby	TRM	Terminated, supported entity is cross-connected	TS	Test	UAS	Unassigned	WRK	Working. If set on Working path, the Working path is carrying service. If set on Protection path, the Protection path is carrying service.
ACT	Active																														
AINS	Automatic In-Service																														
BUSY	Busy																														
DSBLD	Disabled																														
FAF	Facility Failure																														
LPBK	Loopback																														
MT	Maintenance																														
PMI	Performance Monitoring Inhibited																														
SDEE	Supported Entity Exists																														
SGEO	Supporting Entity Outage																														
STBY	Standby																														
TRM	Terminated, supported entity is cross-connected																														
TS	Test																														
UAS	Unassigned																														
WRK	Working. If set on Working path, the Working path is carrying service. If set on Protection path, the Protection path is carrying service.																														

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
SDBE	Status, internal Data Base Error
SROF	Status, Requested Operation Failed

EXAMPLES

The following example illustrates the command and associated response for DS3 port T3-3.

```
RTRV-T3::T3-3;

The output response, shown below, assumes CID 6 was used to enter the command and a system gener-
ated CTAG value of Pab123. The response header would contain the provisioned Site ID of the system,
and the date and time the command was executed.

<SID> <YY-MM-DD> <HH:MM:SS>
M Pab123 COMPLD
  "T3-3::AINSTH=05-30,AISC=LOS,AISPASS=Y,AIST=NAS,DS3PTYEL=Y,FMT=ASYN,
LINECDE=B3ZS,XBITRCV=IGNORE,XPOL=1,FEAC=N,PMMETHOD=P,TACC=N,
CARDID=EP3-6-1-1:IS"
  /* RTRV-T3::T3-3 [Pab123] (6) */
;
```

The following example illustrates the command and associated response for DS3 ports T3-10 through T3-12.

```
RTRV-T3::T3-10&&-12;

The output response, shown below, assumes CID 6 was used to enter the command and a system gener-
ated CTAG value of Pab124. The response header would contain the provisioned Site ID of the system,
and the date and time the command was executed.

<SID> <YY-MM-DD> <HH:MM:SS>
M Pab124 COMPLD
  "T3-10::AISC=LOS,AISPASS=N,AIST=NAS,DS3PTYEL=Y,FMT=ASYN,LINECDE=B3ZS,
XBITRCV=IGNORE,XPOL=1,FEAC=N,PMMETHOD=P,TACC=N,CARDID=EP3-6-3-4:IS,
TRM&SDEE"
  "T3-11::OOS-MA,UAS"
  "T3-12::AISC=LOFLOS,AISPASS=Y,AIST=NAS,DS3PTYEL=Y,FMT=ASYN,
LINECDE=B3ZS,XBITRCV=IGNORE,XPOL=1,FEAC=N,PMMETHOD=P,TACC=N,
CARDID=EP3-6-3-5,NENDALM=LOS:OOS-AU,FAF"
  /* RTRV-T3::T3-10&&-12 [Pab124] (6) */
;
```

RELATED COMMANDS

DLT-T3
ED-T3
ENT-T3

RMV-T3
RST-T3
RTRV-DFLT-T3
SET-DFLT-T3

COMMAND CODE: **RTRV-TACC**
COMMAND NAME: **RETRIEVE TEST ACCESS**

PURPOSE

The RTRV-TACC command retrieves the DS3, DS1, STS1, and/or VT1 port AIDs for Test Access Port Pairs (TAPPs) within the specified range of AIDs, or within all AIDs if the keyword ALL is entered for AID. If the TAPPs are connected for test access, the Equipment side port AID, any Facility side port AID, the test access mode, and the terminate-and-leave status for any A-side or B-side connection is also retrieved. The command is executed regardless of the provisioning of the specified ports.

If the specified AID is a TAP that is involved in testing a port that is within a ring OC-3/OC-12, the Facility side port AID or the Equipment side port AID is the preferred side of the ring.

The successful response for a RTRV-TACC contains one line of parsable output data, in ascending order, for each Test Access Port Pair within the specified range of AIDs.

A RTRV-TACC command is denied if:

- A SONET embedded DS1 or DS3 AID is entered.
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-TACC: [TID]:AID:[CTAG]:: [MODE=] [, STATE=] [, TYPE=] [, UID=] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >		
	Default:	<SID>	
	Addressing:	None	
	Description:	Target Identifier, specifies the network node TID for the command.	
AID	DS1_AID:		
	{T1-{1-59392}}	(T1-DS1#)	
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)	
	DS3_AID:		
	{T3-{1-4800}}	(T3-DS3#)	
	STS1_AID:		
	{EC1STS1-{1-3840}}	(EC1STS1-EC1/STS1#)	
	{OC3STS1-{1-2240}-{1-3}}	(OC3STS1-OC3#-STS1#)	
	{OC12STS1-{1-560}-{1-4}-{1-3}}	(OC12STS1-OC12#-STM1#-STS1#)	
	VT1_AID:		
	{EC1VT1-{1-3840}-{1-7}-{1-4}}	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)	
	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)	
	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)	
	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)		
	ALL_AID:		
	{ALL}		
	Default:	Entry Required	
	Addressing:	&&-ranging and &-grouping	
	Description:	DS1, DS3, STS1, or VT1 Test Access Port AID, identifies a Test Access port. A report is generated for each Test Access port within the specified range. Name-defined values are:	
	ALL	All Test Access ports are reported.	
	Restrictions:	RTRV-TACC is denied if the specified type of AID does not match with the specified TYPE value, unless an AID of ALL is entered. The AID of an STS1 entity embedded in an OC12, OC3, or EC1, except the 3rd STS1 within an OC3 and the {4-3}th STS1 within an OC12. Refer to Appendix B, Access Identifiers (AIDs).	

The AIDs of VT1 entities embedded in an STS1 which can be embedded in an OC12, OC3, or EC1, except the {7–4}th VT1 within an STS1. Refer to Appendix B, Access Identifiers (AIDs).

CTAG	< 1–6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
MODE=	{LOOPE, LOOPF, MONE, MONEF, MONF, SPLTA, SPLTB, SPLTE, SPLTEF, SPLTF, <NoVal>} Default: <NoVal> (All test access modes) Addressing: None Description: Test Access Mode, report Test Access ports performing a test of the specified Mode. Values are:
LOOPE	Loop Equipment–side, only TAPPs that are performing a LOOPE test are reported. LOOPE is a test which loops the equipment–side incoming signal to its output and monitors the looped signal with FAD A. If a facility–side port is connected to the equipment–side port, the A and B side transmission paths are split, unframed QRS is inserted into the outgoing facility–side signal, and the incoming facility–side signal is terminated.
LOOPF	Loop Facility–side, only TAPPs that are performing a LOOPF test are reported. LOOPF is a test which loops the facility–side incoming signal to its output and monitors the looped signal with FAD A. If an equipment–side port is connected to the facility–side port, the A and B side transmission paths are split, unframed QRS is inserted into the outgoing equipment–side signal, and the incoming equipment–side signal is terminated.
MONE	Monitor Equipment–side, only TAPPs that are performing a MONE test are reported. MONE is a test which monitors the equipment–side port with FAD A.
MONEF	Monitor Equipment–side and Facility–side, only Test Access ports that are performing a MONEF test are reported. MONEF is a test which monitors the equipment–side port with FAD A and the facility–side port with FAD B.
MONF	Monitor Facility–side, only TAPPs that are performing a MONF test are reported. MONF is a test which monitors the facility–side port with FAD A.
SPLTA	Split A–side, only Test Access ports that are performing a SPLTA test are reported. SPLTA is a test which splits the A–side signal path and connects it both to and from FAD A.
SPLTB	Split B–side, only Test Access ports that are performing a SPLTB test are reported. SPLTB is a test which splits the B–side signal path and connects it both to and from FAD A.
SPLTE	Split Equipment–side, only TAPPs that are performing a SPLTE test are reported. SPLTE is a test where the equipment–side port is connected both to and from FAD A. If a facility–side port is connected to the equipment–side port, the A and B side transmission paths are split, unframed QRS inserted into the outgoing facility–side signal, and the incoming facility–side signal is terminated.
SPLTEF	Split Equipment–side and Facility–side, only Test Access ports that are performing a SPLTEF test are reported. SPLTEF is a test which splits the A and B transmission paths (if existing) and connects the equipment–side port both to and from FAD A and the facility–side

	port both to and from FAD B.
SPLTF	Split Facility–side, only TAPPs that are performing a SPLTF test are reported. SPLTF is a test where the facility–side port is connected both to and from FAD A. If an equipment–side port is connected to the facility–side port, the A and B side transmission paths are split, unframed QRS inserted into the outgoing equipment–side signal, and the incoming equipment–side signal is terminated.
<NoVal>	No Value, report all TAPPs regardless of any test access mode being used.
STATE=	{BUSY, IDLE, <NoVal>} Default: <NoVal> (All TAPPs regardless of whether it's in use) Addressing: None Description: State, report TAPPs in the specified state. Values are: BUSY Busy, report only TAPPs being used for a test. IDLE Idle, report only TAPPs not being used for a test. <NoVal> No Value, report all TAPPs regardless of whether they are in use.
TYPE=	{DS1, DS3, STS1, VT1, <NoVal>} Default: <NoVal> Addressing: None Description: Type, report Test Access ports of the specified type. Values are: DS1 Report all electrical DS1 and DS1 embedded within an electrical DS3 TAPPs. DS3 Report all electrical DS3 TAPPs. STS1 Report all STS1 TAPPs embedded within EC1s, OC3s or OC12s. VT1 Report all VT1 TAPPs embedded within EC1STS1s, OC3STS1s, or OC12STS1s. <NoVal> No Value, report on all applicable Test Access ports. Restrictions: RTRV–TACC is denied if the specified type of AID does not match with the specified TYPE value, unless an AID of ALL is entered.
UID=	{ALL, MYSELF, PRIVATE, PUBLIC} Default: {MYSELF} Addressing: None Description: User Identifier, report Test Access Ports associated with the specified type of UID. Values are: ALL Report all TAPPs. Reports all TAPPs in all pools (both private and public). MYSELF Report all TAPPs owned by myself. Reports all TAPPs in the user's private pool and all TAPPs in the public pool that are in use by the user. PRIVATE Report private pool TAPPs. Reports all TAPPs in the user's private pool. PUBLIC Report public pool TAPPs. Reports all TAPPs in the public pool.

SUCCESSFUL RESPONSE FORMAT

The generic successful output response message format is:

```

        <SID> <YY-MM-DD> <HH:MM:SS>
M   <CTAG> COMPLD
    "<TYPE>,<FADA>,<FADB>,<EQPT>,<FAC>,<MODE>,<TLISA>,<TLISB>,<STATE>,<UID>"
    [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

If any Test Access ports are assigned and selected by the specified input parameter values the output response message format is:

```

        <SID> <YY-MM-DD> <HH:MM:SS>
M   <CTAG> COMPLD
    "<TYPE>,<FADA>,<FADB>,<EQPT>,<FAC>,<MODE>,<TLISA>,<TLISB>,<STATE>,<UID>"
    [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

If no Test Access ports are assigned, or no Test Access ports are selected by the specified input parameter values, the output response message format is:

```

        <SID> <YY-MM-DD> <HH:MM:SS>
M   <CTAG> COMPLD
    [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

If any Test Access ports are assigned and the test access connection is link associated, the output response message format is:

```

        <SID> <YY-MM-DD> <HH:MM:SS>
M   <CTAG> COMPLD
    "<TYPE>,<FADA>,<FADB>,<EQPT>,<FAC>,<MODE>,<TLISA>,<TLISB>,<STATE>,<UID>,<LA>"
    [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

OUTPUT PARAMETERS

TYPE	{DS1,DS3}
	TYPE. Type of ports being displayed. Values are:
	DS1 DS1 type TACC port.
	DS3 DS3 type TACC port.
	STS1 STS1 type TACC port.
	VT1 VT1 type TACC port.

FADA	DS1_AID:	
	{T1-{1-59392}}	(T1-DS1#)
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)
	DS3_AID:	
	{T3-{1-4800}}	(T3-DS3#)
	STS1_AID:	
	{EC1STS1-{1-3840}}	(EC1STS1-EC1/STS1#)
	{OC3STS1-{1-2240}-{1-3}}	(OC3STS1-OC3#-STS1#)
	{OC12STS1-{1-560}-{1-4}-{1-3}}	(OC12STS1-OC12#-STM1#-STS1#)
	VT1_AID:	
	{EC1VT1-{1-3840}-{1-7}-{1-4}}	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)
	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)
	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	
	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)	
	FAD A Test Access port AID of the Test Access Port Pair. For DS1 embedded within electrical DS3, the 28th DS1 is excluded.	
	FAD A Test Access port AID of the Test Access Port Pair. For STS1 embedded within an OC12 or OC3, the 3rd STS1 within an OC3 and the {4-3}th STS1 within an OC12 is excluded.	
FADB	DS1_AID:	
	{T1-{1-59392}}	(T1-DS1#)
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)
	DS3_AID:	
	{T3-{1-4800}}	(T3-DS3#)
	STS1_AID:	
	{EC1STS1-{1-3840}}	(EC1STS1-EC1/STS1#)
	{OC3STS1-{1-2240}-{1-3}}	(OC3STS1-OC3#-STS1#)
	{OC12STS1-{1-560}-{1-4}-{1-3}}	(OC12STS1-OC12#-STM1#-STS1#)
	VT1_AID:	
	{EC1VT1-{1-3840}-{1-7}-{1-4}}	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)
	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)
	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	
	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)	
	FAD B Test Access port AID of the Test Access Port Pair. For DS1 embedded within electrical DS3, the 28th DS1 is excluded.	
	FAD B Test Access port AID of the Test Access Port Pair. For STS1 embedded within an OC12 or OC3, the 3rd STS1 within an OC3 and the {4-3}th STS1 within an OC12 is excluded.	

EQPT	DS1_AID:	
	{T1-{1-59392}}	(T1-DS1#)
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)
	{EC1T1-{1-3840}-{1-28}}	(EC1T1-EC1/STS1/DS3#-DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-28}}	(OC3T1-OC3#-STS1/DS3#-DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}	(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)
	VT1_AID:	
	{EC1VT1-{1-3840}-{1-7}-{1-4}}	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)
	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)
	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)
	DS3_AID:	
	{T3-{1-4800}}	(T3-DS3#)
	STS1_AID:	
	{EC1STS1-{1-3840}}	(EC1STS1-EC1/STS1#)
	{OC3STS1-{1-2240}-{1-3}}	(OC3STS1-OC3#-STS1#)
	{OC12STS1-{1-560}-{1-4}-{1-3}}	(OC12STS1-OC12#-STM1#-STS1#)
	<NoVal>	
	Equipment side AID, indicates the equipment side port if the Test Access port is being used, otherwise no value is displayed. Name defined values are:	
	<NoVal>	No value is displayed, the Test Access port is not in use.
FAC	DS1_AID:	
	{T1-{1-59392}}	(T1-DS1#)
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)
	{EC1T1-{1-3840}-{1-28}}	(EC1T1-EC1/STS1/DS3#-DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-28}}	(OC3T1-OC3#-STS1/DS3#-DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}	(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)
	VT1_AID:	
	{EC1VT1-{1-3840}-{1-7}-{1-4}}	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)
	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)
	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)
	DS3_AID:	
	{T3-{1-4800}}	(T3-DS3#)
	STS1_AID:	
	{EC1STS1-{1-3840}}	(EC1STS1-EC1/STS1#)
	{OC3STS1-{1-2240}-{1-3}}	(OC3STS1-OC3#-STS1#)
	{OC12STS1-{1-560}-{1-4}-{1-3}}	(OC12STS1-OC12#-STM1#-STS1#)
	<NoVal>	
	Facility side AID, indicates the facility side port connected to the equipment side port, if the Test Access port is being used, otherwise no value is displayed. Name defined values are:	
	<NoVal>	No value is displayed, a facility side port is not connected to the equipment side port or the Test Access port is not in use.
MODE	{LOOPE, LOOPF, MONE, MONEF, MONF, SPLTA, SPLTB, SPLTE, SPLTEF, SPLTF, <NoVal>}	
	Test Access Mode, indicates the test mode of the Test Access port. Values are:	
	LOOPE	Loop Equipment-side, indicates a test which loops the equipment-side incoming signal to its output and monitors the looped signal with FAD A. If a facility-side port is connected to the equipment-side port, the A and B side transmission paths are split, unframed QRS is inserted into the outgoing facility-side signal, and the incoming facility-side signal is terminated.

LOOPF	Loop Facility-side, indicates a test which loops the facility-side incoming signal to its output and monitors the looped signal with FAD A. If an equipment-side port is connected to the facility-side port, the A and B side transmission paths are split, unframed QRS is inserted into the outgoing equipment-side signal, and the incoming equipment-side signal is terminated.						
MONE	Monitor Equipment-side, indicates a test which monitors the equipment-side port with FAD A.						
MONEF	Monitor Equipment-side and Facility-side, indicates a test which monitors the equipment-side port with FAD A and the facility-side port with FAD B.						
MONF	Monitor Facility-side, indicates a test which monitors the facility-side port with FAD A.						
SPLTA	Split A-side, indicates a test which splits the A-side signal path and connects it both to and from FAD A.						
SPLTB	Split B-side, indicates a test which splits the B-side signal path and connects it both to and from FAD A.						
SPLTE	Split Equipment-side, indicates a test where the equipment-side port is connected both to and from FAD A. If a facility-side port is connected to the equipment-side port, the A and B side transmission paths are split, unframed QRS inserted into the outgoing facility-side signal, and the incoming facility-side signal is terminated.						
SPLTEF	Split Equipment-side and Facility-side, indicates a test which splits the A and B transmission paths (if existing) and connects the equipment-side port both to and from FAD A and the facility-side port both to and from FAD B.						
SPLTF	Split Facility-side, indicates a test where the facility-side port is connected both to and from FAD A. If an equipment-side port is connected to the facility-side port, the A and B side transmission paths are split, unframed QRS inserted into the outgoing equipment-side signal, and the incoming equipment-side signal is terminated.						
<NoVal>	No value is displayed, the Test Access port is not in use.						
TLSA	<p>{NORM, TERM, <NoVal>}</p> <p>Terminate and Leave Status of the A side port, indicates whether the A side port being tested is in a terminate and leave status as a result of a previous CHG-TL-DIG command. Values are:</p> <table> <tr> <td>NORM</td><td>Normal, the A side port is not in a terminate and leave state, or the Test Access port is not being used for a test.</td></tr> <tr> <td>TERM</td><td>Terminated, the A side port is in a terminate and leave state.</td></tr> <tr> <td><NoVal></td><td>No value is displayed, the A side connection does not exist or the Test Access port is not being used.</td></tr> </table>	NORM	Normal, the A side port is not in a terminate and leave state, or the Test Access port is not being used for a test.	TERM	Terminated, the A side port is in a terminate and leave state.	<NoVal>	No value is displayed, the A side connection does not exist or the Test Access port is not being used.
NORM	Normal, the A side port is not in a terminate and leave state, or the Test Access port is not being used for a test.						
TERM	Terminated, the A side port is in a terminate and leave state.						
<NoVal>	No value is displayed, the A side connection does not exist or the Test Access port is not being used.						
TLSB	<p>{NORM, TERM, <NoVal>}</p> <p>Terminate and Leave Status of the B side port, indicates whether the B side port being tested is in a terminate and leave status as a result of a previous CHG-TL-DIG command. Values are:</p> <table> <tr> <td>NORM</td><td>Normal, the B side port is not in a terminate and leave state, or the Test Access port is not being used for a test.</td></tr> <tr> <td>TERM</td><td>Terminated, the B side port is in a terminate and leave state.</td></tr> <tr> <td><NoVal></td><td>No value is displayed, the B side connection does not exist or the Test Access port is not being used.</td></tr> </table>	NORM	Normal, the B side port is not in a terminate and leave state, or the Test Access port is not being used for a test.	TERM	Terminated, the B side port is in a terminate and leave state.	<NoVal>	No value is displayed, the B side connection does not exist or the Test Access port is not being used.
NORM	Normal, the B side port is not in a terminate and leave state, or the Test Access port is not being used for a test.						
TERM	Terminated, the B side port is in a terminate and leave state.						
<NoVal>	No value is displayed, the B side connection does not exist or the Test Access port is not being used.						

STATE	{BUSY, IDLE} State, indicates the state of the TAPP. Values are: BUSY Busy, the Test Access port is being used for a test. IDLE Idle, the Test Access port is not being used for a test.
UID	{<5–12 VALID UID CHARACTERS>, <NoVal>} User ID, indicates the UID of the user who owns or (in the case of PUBLIC pool ports) is in control of the specified TAPP. Name–defined values are: <5–12 VALID UID CHARACTERS> UID of user in control of TAPP <NoVal> No value is displayed, the port is a PUBLIC pool TAPP that is not being used by anyone.
LA	{LA, <NoVal>} Link Association, specifies whether the test access connection is to be associated with the communication link being used by the user. Values are: LA Link Associated, specifies that the test access connection is to be disconnected if the user logs off, if the user enters a REPT–INITZN command, if the communication link timer is enabled and expires, or if the APS control system re–boots. <NoVal> No value is displayed, specifies that the test access connection is not disconnected regardless if the user logs off, the user enters a REPT–INITZN command, the communication link timer expires, or if the APS control system re–boots.

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non–Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent /* AID and UID are not consistent */
IIAC	Input, Invalid ACcess identifier
IPNV	Input, Parameter Not Valid
SDBE	Status, internal Data Base Error /* TP Database Error: <ERROR–STRING> for <AID–STRING> */ /* TAPP Database Error: <ERROR–STRING> for record number <RECORD–NUMBER> */
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, all Test Access ports between DS1 ports 2–1–1 and 2–1–28 that are owned by this user and are not currently in use are reported.

```
RTRV-TACC::2-1-1&&-28:::STATE=IDLE;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of Pad567. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed. The example assumes there are two Test Access Port Pairs that are not in use and are owned by this user (“MYUID”) within the specified range of ports (i.e., are in MYUID’s PRIVATE pool).

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pad567 COMPLD
  "DS1,2-1-6,2-1-7,,,,NORM,NORM,IDLE,MYUID"
  "DS1,2-1-12,2-1-13,,,,NORM,NORM,IDLE,MYUID"
/* RTRV-TACC::2-1-1&&-28:::STATE=IDLE [Pad567] (2) */
;
```

In the following example, all Test Access ports between DS1 ports 2-1-1 and 2-1-28 for all users are reported regardless of whether the Test Access port is in use or the test mode of any TACC port.

```
RTRV-TACC::2-1-1&&-28:::UID=ALL;
```

The output response, shown below, assumes X.25 virtual channel 2 on CID port 3 was used to enter the command and a system generated CTAG value of Pad568. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed. The example assumes there are five Test Access Port Pairs within the specified range of ports and all of them belong to the PUBLIC pool. Two are in use by "MYUID", one of which is link associated, and one is in use by "HISUID".

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pad567 COMPLD
  "DS1,2-1-6,2-1-7,,,,NORM,NORM,IDLE,"
  "DS1,2-1-8,2-1-9,5-4-3,6-7-8,MONEF,NORM,NORM,BUSY,HISUID"
  "DS1,2-1-10,2-1-11,3-2-1,,SPLTE,,,BUSY,MYUID,LA"
  "DS1,2-1-12,2-1-13,,,,NORM,NORM,IDLE,"
  "DS1,2-1-14,2-1-15,8-9-10,11-12-13,SPLTA,TERM,TERM,BUSY,MYUID"
/* RTRV-TACC::2-1-1&&-28:::UID=ALL [Pad567] (3-2) */
;
```

RELATED COMMANDS

```
CHG-ACCMD-STs1
CHG-ACCMD-T1
CHG-ACCMD-T3
CHG-ACCMD-VT1
CHG-TL-DIG
CONN-TACC-STs1
CONN-TACC-T1
CONN-TACC-T3
CONN-TACC-VT1
DISC-TACC
DISC-TACC-PRVG
REPT-INITZN
REPT-STAT
RST-TAP-DIG
```


COMMAND CODE: **RTRV-TARPADJ-DCC**
COMMAND NAME: **RETRIEVE TARP ADJACENCY TABLE**
ENTRY OF DCC

PURPOSE

The RTRV-TARPADJ-DCC command retrieves the manually provisioned TID Address Resolution Protocol (TARP) adjacency table entries on the Data Communication Channel (DCC).

If the specified OC-3 is not provisioned, i.e., it is in UAS secondary state, the command completes successfully without producing any output.

A RTRV-TARPADJ-DCC command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-TARPADJ-DCC: [TID] :AID: [CTAG] :: [DCCTYPE] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	OC3_AID: {OC3-{1-2240}} (OC3-OC3#) OC12_AID: {OC12-{1-560}} (OC12-OC12#) Default: Entry Required Addressing: None Description: Optical Carrier AID, identifies the OC-3/OC-3 whose DCC adjacency table entries are being retrieved.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
DCCTYPE	{BOTH, LDCC, SDCC} Default: {SDCC} Addressing: None Description: DCC Type, specifies which DCC type is retrieved in the adjacency table. BOTH Both, specifies both the SDCC and LDCC types are retrieved in the adjacency table. LDCC Line DCC, specifies the LDCC type is retrieved in the adjacency table. SDCC Section DCC, specifies the SDCC type is retrieved in the adjacency table.

SUCCESSFUL RESPONSE FORMAT

The following successful response format is one response line for each entry in the adjacency table.

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  "<1>,<AID>,<SDCC|LDCC>:ISLEVEL=<value>,NSAP=<value>,ENABLE=<value>
[:<DUP>] ""
  "<2>,<AID>,<SDCC|LDCC>:ISLEVEL=<value>,NSAP=<value>,ENABLE=<value>
[:<DUP>] ""
  "<n>,<AID>,<SDCC|LDCC>:ISLEVEL=<value>,NSAP=<value>,ENABLE=<value>
[:<DUP>] ""
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

OUTPUT PARAMETERS

DCCTYPE	{BOTH, LDCC, SDCC}	DCC Type, specifies which DCC type is retrieved in the adjacency table.
	BOTH	Both, specifies both the SDCC and LDCC types are modified in the adjacency table.
	LDCC	Line DCC, specifies the LDCC type is retrieved in the adjacency table.
	SDCC	Section DCC, specifies the SDCC type is retrieved in the adjacency table.
ENABLE=	{N, Y}	Enable, determines if the TARP propagation to the NE specified by the NSAP parameter is enabled or disabled. Values are:
	N	No, specifies the TARP propagation to the NE in the NSAP parameter is disabled.
	Y	Yes, specifies the TARP propagation to the NE in the NSAP parameter is enabled.
ISLEVEL=	{1, 2, BOTH}	Intermediate System Level, determines the IS Level for which the TARP adjacency table is being modified.
	1	NSAP is a level 1 adjacency.
	2	NSAP is a level 2 adjacency.
	BOTH	NSAP is both level 1 and level 2 adjacency.
NSAP=	<40 ASCII HEXADECIMAL VALUES>	Network Service Access Point, specifies the Network Service Access Point (NSAP) address. Values are 20 octets long encoded as 40 ASCII hexadecimals.

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid
IIAC	Input, Invalid ACcess identifier
SDBE	Status, internal Data Base Error
	<pre> /*GetAidEntry() Error: <ERROR-STRING>*/ /*TP Database Error: <ERROR-STRING> for <AID-STRING>*/ /*TPidToAidStr(): <ERROR-STRING>*/ /*TPidToTarpD(): <ERROR-STRING>*/ /*TPidToGlobTPid(): <ERROR-STRING>*/ /*TARP_DCC Database Error: <ERROR-STRING> for record number <RECORD- NUMBER>*/ </pre>
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, the TARP adjacency table entries of the network layer are retrieved.

RTRV-TARPADJ-DCC::OC3-109;

For this example, the output response shown assumes CID 3 was used to enter the command and a system generated CTAG value of P4f922. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```

M          <SID> <YY-MM-DD> <HH:MM:SS>          P4f922          COMPLD
  1,OC3-109,SDCC:ISLEVEL=2,NSAP=79840F20000000000000000000000004072005E6100,EN-
  ABLE=Y"
RTRV-TARPAJ-DCC: :OC3-109          [P4F922]          (8-4)          */
  i

```

RELATED COMMANDS

DLT-TARPAJ-DCC
ED-TARPAJ-DCC
ENT-TARPAJ-DCC

COMMAND CODE: **RTRV-TARPADJ-LAN**
COMMAND NAME: **RETRIEVE TARP ADJACENCY TABLE
ENTRY OF LAN**

PURPOSE

The RTRV-TARPADJ-LAN command retrieves the manually provisioned TID Address Resolution Protocol (TARP) adjacency table entries for the DSB's LAN.

If the specified DSB is not provisioned, i.e., it is in UAS secondary state, the command completes successfully without producing any output.

A RTRV-TARPADJ-LAN command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-TARPADJ-LAN: [TID] :AID: [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	EQUIPMENT_AID: {DSB-{6-9, 12-15, 18-21, 24-43, 104-111 , 112-135, 136-141 }-{1, 3}-{1-2}} Default: Entry Required Addressing: None Description: DSB AID, identifies the DSB whose adjacency table entries are being retrieved.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

The following successful response format is one response line for each entry in the adjacency table.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  "<1>,<AID>:<ISLEVEL>,<ENABLE>,<NSAP> [ :<DUP>] "
  "<2>,<AID>:<ISLEVEL>,<ENABLE>,<NSAP> [ :<DUP>] "
  ...
  "<n>,<AID>:<ISLEVEL>,<ENABLE>,<NSAP> [ :<DUP>] "
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

ENABLE=	{N, Y} Enable, determines if the TARP propagation to the NE specified by the NSAP/ISLEVEL parameters is enabled or disabled. Values are: N No, specifies the TARP propagation to the NE in the ISLEVEL/NSAP parameters is disabled. Y Yes, specifies the TARP propagation to the NE in the ISLEVEL/NSAP parameters is enabled.
---------	---

ISLEVEL= {1, 2}
Intermediate System Level, determines the IS Level for which the TARP adjacency table is being modified.

NSAP= <40 ASCII HEXADECIMAL VALUES>
Network Service Access Point, specifies the Network Service Access Point (NSAP) address. Values are 20 octets long encoded as 40 ASCII hexadecimal.

UNSUCCESSFUL RESPONSE FORMAT

```

M <SID> <YY-MM-DD> <HH:MM:SS>
  <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
SDBE	Status, internal Data Base Error
	/* Unable to read the shelf database. */
	/* Unable to read the LANDCC database. */
SROF	Status, Requested Operation Failed
	/* Shelf is not provisioned. */
	/* Error opening report file. */
	/* Error accessing report file. */
	/* Error printing report file. */
	/* Unable to get an AUX buffer. */
	/* Invalid parameter was detected by Level 2 processor. */
	/* Level 2 processor could not communicate with Level 3. */
	/* Invalid return code was detected by NMI software. */
	/* Buffer too small. */
	/* NMI Uninitialized. */
	/* Unknown CS return code. */
	/* No manual address provisioned. */
	/* Invalid State. */
	/* Invalid Id. */
	/* Unsupported database. */
	/* Invalid event function. */
	/* Statistics requested failed. */
	/* Invalid parameter */
	/* OSI layer management circuit not initialized. */
	/* Lower layer OSI management error occurred. */
	/* OSI layer management invalid operation. */
	/* OSI layer management invalid function. */
	/* OSI layer management invlaid password type. */
	/* OSI layer management invalid circuit type. */
	/* OSI layer management unable to get request mailbox handle. */
	/* OSI layer management unable to get response mailbox handle. */
	/* OSI layer management unable to allocate message buffer. */

/* OSI layer management unable to deallocate message buffer. */
/* OSI layer management unable to send a message. */
/* OSI layer management unable to receive message. */
/* OSI layer management unable to create a lock. */
/* OSI layer management unable to lock. */
/* OSI layer management unable to unlock. */
/* OSI layer management initialization failure. */
/* OSI layer management deadman timer expired. */
/* TARP management allocation message failure. */
/* TARP management deallocation message failure. */
/* TARP management message send failure. */
/* TARP management unable to get mailbox handle. */
/* TARP TID resolved. */
/* TARP TID resolved locally. */
/* TARP TID unresolved locally. */
/* TARP TID unresolved level 1. */
/* TARP TID error recovery. */
/* TARP TID unresolved level 2. */
/* TARP NSAP resolved locally. */
/* TARP NSAP unresolved locally. */
/* TARP TEF response. */
/* TARP TEF timer expired. */
/* TARP delete cache entry failure. */
/* TARP addition cache entry failure. */
/* TARP cache entry exists. */
/* TARP cache full. */
/* TARP cache entry changed. */
/* TARP addtion LDB entry failure. */
/* TARP LDB entry exists. */
/* TARP delete LDB entry failure. */
/* TARP LDB return. */
/* TARP not started. */
/* TARP not enabled. */
/* TARP stopped. */
/* TARP exceeded max connections. */
/* TARP provisioned parameters return. */
/* TARP provisioned pdu fields return. */
/* TARP exceeded max adjacencies. */
/* TARP adjacency exists. */
/* TARP delete adjacency failure. */
/* TARP management error. */
/* TARP NSAP error. */
/* TARP TID error. */
/* TARP No level1 adjacencies. */
/* TARP no adjacencies. */
/* TARP cache return. */
/* TARP adjacency return. */
/* Invalid error response was received from L2P. */

EXAMPLES

In the following example, the manual TARP adjacency table entries for DSB-21-1-2 is displayed.

```
RTRV-TARPADJ-LAN::DSB-21-1-2;
  <SID> <YY-MM-DD> <HH:MM:SS>
M   P4d915 COMPLD
"57,DSB-21-1-2:1,ENABLE,69840F600000000000000000000000004072005E6100 "
"58,DSB-21-1-2:1,ENABLE,69840F700000000000000000000000004072005E6100  "
"59,DSB-21-1-2:1,ENABLE,69840F800000000000000000000000004072005E6100  "
"60,DSB-21-1-2:1,ENABLE,69840F900000000000000000000000004072005E6100  "
"61,DSB-21-1-2:1,ENABLE,69840F000000000000000000000000004072005E6100  "
"62,DSB-21-1-2:1,ENABLE,69840F100000000000000000000000004072005E6100  "
"63,DSB-21-1-2:1,ENABLE,69840F200000000000000000000000004072005E6100  "
"64,DSB-21-1-2:2,ENABLE,69840F300000000000000000000000004072005E6100  "
/*      RTRV-TARPADJ-LAN::DSB-21-1-2          [P4d915]          (8-4)      */
;
```

RELATED COMMANDS

```
DLT-TARPADJ-LAN
ED-TARPADJ-LAN
ENT-TARPADJ-LAN
```


COMMAND CODE: **RTRV-TARPLDB**
COMMAND NAME: **RETRIEVE TARP LOOP DETECTION
BUFFER**

PURPOSE

The RTRV-TARPLDB command retrieves all the entries in the TID Address Resolution Protocol (TARP) Loop Detection Buffer (LDB) on the DSB.

If the specified DSB is not provisioned, i.e., it is in UAS secondary state, the command completes successfully without producing any output.

A RTRV-TARPLDB command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-TARPLDB: [TID] :AID: [CTAG] :: [TARPSYSID] [, TARPSEQ] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	EQUIPMENT_AID: {DSB-{6-9, 12-15, 18-21, 24-43, 104-111 , 112-135, 136-141 }-{1, 3}-{1-2}} Default: Entry Required Addressing: None Description: DSB AID, identifies the DSB whose TARP loop detection buffer is being retrieved.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
TARPSYSID	<0-12 ASCII HEXADECIMAL VALUES> Default: <Any System ID> Addressing: None Description: TID Address Resolution Protocol (TARP) System ID, identifies the TARP protocol address of the originator. Only the entry in the LDB that matches this field is retrieved. Values are 6 octets long and is specified in the form of pq, where p and q are the ASCII encoded hexadecimal. Restrictions: RTRV-TARPLDB is denied if the specified TARPSYSID entered is less than 12 characters.
TARPSEQ	{0-65535} Default: <Any Sequence Number> Addressing: None Description: TID Address Resolution Protocol (TARP) Sequence Number. Only the entry in the LDB that matches this field is retrieved.

SUCCESSFUL RESPONSE FORMAT

The following successful response format is used if the name-defined parameters, TARPSYSID and TARPSEQ, are not specified. There is one response line for each entry in the LDB and all the entries in the LDB is displayed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  "<1>:TARPSYSID=<value>,TARPSEQ=<value>"
  "<2>:TARPSYSID=<value>,TARPSEQ=<value>"
  . . .
  "<n>:TARPSYSID=<value>,TARPSEQ=<value>"
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

The following successful response format is used if either of the the name-defined parameters, TARPSYSID and/or TARPSEQ, are specified. If TARPSYSID and/or TARPSEQ are specified and an entry that matches the given parameter(s) is not found in the LDB, then the COMPLD message is sent.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  "<1>:TARPSYSID=<value>,TARPSEQ=<value>"
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

TARPSYSID= <0-12 ASCII HEXADECEMAL VALUES>
TID Address Resolution Protocol (TARP) System ID, identifies the TARP protocol address of the originator. Only the entry in the LDB that matches this field is retrieved. Values are 6 octets long and is specified in the form of pq, where p and q are the ASCII encoded hexadecimal.

TARPSEQ= {0-65535}
TID Address Resolution Protocol (TARP) Sequence Number. Only the entry in the LDB that matches this field is retrieved.

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV Input, Data Not Valid
 /* Invalid parameter in the input command */
 /* Error reading input for TARPSYSID */
 /* TARPSYSID must be 12 characters. */

IIAC Input, Invalid ACcess identifier

SARB Status, All Resources Busy
 /* Command already in progress on the card. */

SDBE	Status, internal Data Base Error /* Unable to read the shelf database. */ /* Unable to read the LANDCC database. */
SNVS	Status, Not in Valid State /* DSB is in an invalid state. */
SROF	Status, Requested Operation Failed /* Shelf is not provisioned. */ /* Unable to get an AUX buffer. */ /* Invalid parameter was detected by Level 2 processor. */ /* Level 2 processor could not communicate with Level 3. */ /* Invalid return code was detected by NMI software. */ /* Buffer too small. */ /* NMI Uninitialized. */ /* Unknown CS return code. */ /* No manual address provisioned. */ /* Invalid State. */ /* Invalid Id. */ /* Unsupported database. */ /* Invalid event function. */ /* Statistics requested failed. */ /* Invalid parameter */ /* OSI layer management circuit not initialized. */ /* Lower layer OSI management error occurred. */ /* OSI layer management invalid operation. */ /* OSI layer management invalid function. */ /* OSI layer management invalid password type. */ /* OSI layer management invalid circuit type. */ /* OSI layer management unable to get request mailbox handle. */ /* OSI layer management unable to get response mailbox handle. */ /* OSI layer management unable to allocate message buffer. */ /* OSI layer management unable to deallocate message buffer. */ /* OSI layer management unable to send a message. */ /* OSI layer management unable to receive message. */ /* OSI layer management unable to create a lock. */ /* OSI layer management unable to lock. */ /* OSI layer management unable to unlock. */ /* OSI layer management initialization failure. */ /* OSI layer management deadman timer expired. */ /* TARP management allocation message failure. */ /* TARP management deallocation message failure. */ /* TARP management message send failure. */ /* TARP management unable to get mailbox handle. */ /* TARP TID resolved. */ /* TARP TID resolved locally. */ /* TARP TID unresolved locally. */ /* TARP TID unresolved level 1. */ /* TARP TID error recovery. */ /* TARP TID unresolved level 2. */ /* TARP NSAP resolved locally. */ /* TARP NSAP unresolved locally. */ /* TARP TEF response. */ /* TARP TEF timer expired. */

```
/* TARP delete cache entry failure. */  
/* TARP addition cache entry failure. */  
/* TARP cache entry exists. */  
/* TARP cache full. */  
/* TARP cache entry changed. */  
/* TARP addition LDB entry failure. */  
/* TARP LDB return. */  
/* TARP not started. */  
/* TARP not enabled. */  
/* TARP stopped. */  
/* TARP exceeded max connections. */  
/* TARP provisioned parameters return. */  
/* TARP provisioned pdu fields return. */  
/* TARP exceeded max adjacencies. */  
/* TARP adjacency exists. */  
/* TARP delete adjacency failure. */  
/* TARP management error. */  
/* TARP NSAP error. */  
/* TARP TID error. */  
/* TARP No level1 adjacencies. */  
/* TARP no adjacencies. */  
/* TARP cache return. */  
/* TARP adjacency return. */  
/* Invalid error response was received from L2P. */  
/* Error opening report file */  
/* Error accessing report file. */  
/* Error printing report file. */
```

EXAMPLES

In the following example, the TARP loop detection buffer entries of the network layer are being retrieved.

```
RTRV-TARPLDB::DSB-6-1-2;  
  
LMC4 99-08-10 09:31:31  
M P4d190 COMPLD  
  "1,TARPSYSID= 0040720065AC,TARPSEQ=2"  
  "2,TARPSYSID= 004072005E61,TARPSEQ=11"  
  "3,TARPSYSID= 004072006596,TARPSEQ=4"  
  /* RTRV-TARPLDB::DSB-43-3-1 [P4d190] (10) */  
  
;
```

RELATED COMMANDS

DLT-TARPLDB

COMMAND CODE: **RTRV–TH–EC1**
COMMAND NAME: **RETRIEVE THRESHOLD EC1**

PURPOSE

The RTRV–TH–EC1 command retrieves the threshold level setting corresponding to the specified PM collection register (identified by MONTYPE, LOCN, and TMPER) and the specified EC1 port.

The successful response for a RTRV–TH–EC1 command contains one line of parsable output data for each parameter threshold level setting being reported, in ascending order (from the lowest specified EC1 AID to the highest specified EC1 AID) for each EC1 AID specified. A line of parsable output data is only displayed if the specified AID is provisioned (via ENT–EC1).

A RTRV–TH–EC1 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV–TH–EC1 : [TID] : AID : [CTAG] : : [MONTYPE] , [LOCN] , [TMPER] ;

INPUT PARAMETERS

TID	< 1–20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	EC1_AID: {EC1–{1–3840} } (EC1–EC1/STS1#) Default: Entry Required Addressing: &&–ranging and &–grouping Description: EC1 AID, specifies the EC1 port.
CTAG	< 1–6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

MONTYPE	{ALL}, NEAR_END_PARAMETERS:{CV-L, CVL, ES-L, ESL, ESA-L, ESAL, ESB-L, ESBL, LOSS, LOSS-S, SEFS, SEFS-S, SES-L, SESL, UAS-L, UASL}, FAR_END_PARAMETERS:{AISS, AISS-L, AISSL, ES-L, ESL, FC-L, FCL, SES-L, SESL, UAS-L, UASL}
	Default: {ALL} Addressing: None Description: Monitored Parameter Type, identifies the type of monitored parameter whose threshold level setting is being retrieved. A parameter may be specified by more than one value, e.g., parameter values may be entered with or without the dash (-). Refer to Appendix F, Monitored PM Parameters for a list of all monitored PM parameters. Values are:
	ALL All monitored parameter PM registers. AISS, AISS-L, AISSL Alarm Indication Signal Seconds – Line, AISS register. (Far-end only.) CV-L, CVL Coding Violations – Line, CV-L register. (Near-end only.) ES-L, ESL Errored Seconds – Line, ES-L register. ESA-L, ESAL Errored Seconds type A – Line, ESA-L register. (Near-end only.) ESB-L, ESBL Errored Seconds type B – Line, ESB-L register. (Near-end only.) FC-L, FCL Failure Counts – Line, FC-L register. (Far-end only.) LOSS, LOSS-S Loss Of Signal Seconds – Section, LOSS register. (Near-end only.) SEFS, SEFS-S Severely Errored Frame Seconds – Section, SEFS-S register. (Near-end only.) SES-L, SESL Severely Errored Seconds – Line, SES-L register. UAS-L, UASL Unavailable Seconds – Line, UAS-L register.
	Restrictions: RTRV-TH-EC1 is denied if the specified MONTYPE value is not supported for the specified LOCN value (e.g., MONTYPE of AISS and LOCN of NEND is entered).
LOCN	{FEND, NEND}
	Default: < All applicable locations for the selected monitored parameters > Addressing: None Description: Location, specifies whether threshold levels for near-end or far-end monitored parameters are to be retrieved. Values are:
	FEND Far-End NEND Near-End
	Restrictions: RTRV-TH-EC1 is denied if the specified MONTYPE value is not supported for the specified LOCN value (e.g., MONTYPE of AISS and LOCN of NEND is entered).
TMPER	{15-MIN, 1-DAY}
	Default: {15-MIN} Addressing: None Description: Time Period, specifies whether threshold levels for the 15-minute or the daily (24 hour) PM collection register for the specified parameter is to be retrieved. Values are:
	15-MIN 15-Minute PM collection register 1-DAY 1-Day (24 hour) PM collection register

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  "<AID>,EC1:<MONTYPE>,<LOCN>,,<THLEV>,<TMPER>"
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

OUTPUT PARAMETERS

AID	EC1_AID: {EC1-{1-3840} } (EC1-EC1/STS1#) EC1 AID, identifies the EC1 port.																				
MONTYPE	NEAR_END_PARAMETERS:{CVL, ESL, ESA-L, ESB-L, LOSS, SEFS, SESL, UASL}, FAR_END_PARAMETERS:{AISS, ESL, FC-L, SESL, UASL} Monitored Parameter Type, identifies the monitored parameter. Refer to Appendix F, Monitored PM Parameters for a list of all monitored PM parameters. Values are: <table border="0" style="margin-left: 40px;"> <tr><td>AISS</td><td>Alarm Indication Signal Seconds – Line, AISS register.</td></tr> <tr><td>CVL</td><td>Coding Violations – Line, CV-L register.</td></tr> <tr><td>ESL</td><td>Errored Seconds – Line, ES-L register.</td></tr> <tr><td>ESA-L</td><td>Errored Seconds type A – Line, ESA-L register.</td></tr> <tr><td>ESB-L</td><td>Errored Seconds type B – Line, ESB-L register.</td></tr> <tr><td>FC-L</td><td>Failure Counts – Line, FC-L register.</td></tr> <tr><td>LOSS</td><td>Loss Of Signal Seconds – Section, LOSS register.</td></tr> <tr><td>SEFS</td><td>Severely Errored Frame Seconds – Section, SEFS-S register.</td></tr> <tr><td>SESL</td><td>Severely Errored Seconds – Line, SES-L register.</td></tr> <tr><td>UASL</td><td>Unavailable Seconds – Line, UAS-L register.</td></tr> </table>	AISS	Alarm Indication Signal Seconds – Line, AISS register.	CVL	Coding Violations – Line, CV-L register.	ESL	Errored Seconds – Line, ES-L register.	ESA-L	Errored Seconds type A – Line, ESA-L register.	ESB-L	Errored Seconds type B – Line, ESB-L register.	FC-L	Failure Counts – Line, FC-L register.	LOSS	Loss Of Signal Seconds – Section, LOSS register.	SEFS	Severely Errored Frame Seconds – Section, SEFS-S register.	SESL	Severely Errored Seconds – Line, SES-L register.	UASL	Unavailable Seconds – Line, UAS-L register.
AISS	Alarm Indication Signal Seconds – Line, AISS register.																				
CVL	Coding Violations – Line, CV-L register.																				
ESL	Errored Seconds – Line, ES-L register.																				
ESA-L	Errored Seconds type A – Line, ESA-L register.																				
ESB-L	Errored Seconds type B – Line, ESB-L register.																				
FC-L	Failure Counts – Line, FC-L register.																				
LOSS	Loss Of Signal Seconds – Section, LOSS register.																				
SEFS	Severely Errored Frame Seconds – Section, SEFS-S register.																				
SESL	Severely Errored Seconds – Line, SES-L register.																				
UASL	Unavailable Seconds – Line, UAS-L register.																				
LOCN	{FEND, NEND} Location, indicates whether threshold levels for near-end or far-end monitored parameters are being reported. Values are: <table border="0" style="margin-left: 40px;"> <tr><td>FEND</td><td>Far-End</td></tr> <tr><td>NEND</td><td>Near-End</td></tr> </table>	FEND	Far-End	NEND	Near-End																
FEND	Far-End																				
NEND	Near-End																				
THLEV	{0-4294967295} Threshold Level, indicates the value of the threshold level for the indicated parameter. A value of zero (0) indicates PM threshold crossings are not autonomously reported.																				
TMPER	{15-MIN, 1-DAY} Time Period, identifies the accumulation time period for the indicated parameter. Values are: <table border="0" style="margin-left: 40px;"> <tr><td>15-MIN</td><td>15-Minute PM collection register</td></tr> <tr><td>1-DAY</td><td>1-Day (24 hour) PM collection register</td></tr> </table>	15-MIN	15-Minute PM collection register	1-DAY	1-Day (24 hour) PM collection register																
15-MIN	15-Minute PM collection register																				
1-DAY	1-Day (24 hour) PM collection register																				

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid /* Invalid location in request message. */ /* Invalid time period in request message. */ /* Invalid montype in request message. */
IIAC	Input, Invalid ACcess identifier /* Invalid AID entered. */ /* AID not in Partition. */
IIPG	Input, Invalid Parameter Grouping /* Invalid location for requested montype. */
SDBE	Status, internal Data Base Error /* Failed to set pointer to FM EC1 record. */ /* Failed to set file ptr to EC1 threshold database. */
SROF	Status, Requested Operation Failed /* rpt_file error – <ERRNO>, status = <STATUS> */ /* Cannot open <FILENAME> */ /* nrl_rpt_print error – no transaction, msgtype = <MSGTYPE> */ /* rpt_print error – <ERRNO>, status = <STATUS> */ /* Failed to convert TPid to an AID string. */ /* Unable to convert montype <MONTYPE> to string. */ /* Unable to process montype <MONTYPE>. */ /* Unable to determine supporting facility entity. */ /* Unable to determine facility type. */ /* Could not write to report file. */

EXAMPLES

In the following example, the coding violations, line (CV–L) threshold level settings for the near–end15–Minute PM register is retrieved for EC1 port EC1–481.

```
RTRV-TH-EC1::EC1-481:::CV-L,,15-MIN;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71042. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P71042 COMPLD
"EC1-481,EC1:CVL,NEND,,13340,15-MIN"
/* RTRV-TH-EC1::EC1-481:::CV-L,,15-MIN [P71042] (1) */
;
```

RELATED COMMANDS

```
INIT-REG-EC1
RTRV-DFLTTH-EC1
RTRV-PM-EC1
RTRV-PMATTR-ALL
RTRV-PMODE-EC1
SET-DFLTTH-EC1
SET-PMATTR-ALL
SET-PMODE-EC1
SET-TH-EC1
```

RELATED AUTONOMOUS RESPONSES

```
REPT^EVT^EC1
```

COMMAND CODE: **RTRV-TH-OC12**
COMMAND NAME: **RETRIEVE THRESHOLD OC-12**

PURPOSE

The RTRV-TH-OC12 command retrieves the threshold level setting corresponding to the specified PM collection register (identified by MONTYPE, LOCN, and TMPER) and the specified OC12 port.

The successful response for a RTRV-TH-OC12 command contains one line of parsable output data for each parameter threshold level setting being reported, in ascending order (from the lowest specified OC12 AID to the highest specified OC12 AID) for each OC12 AID specified. A line of parsable output data is only displayed if the specified AID is provisioned (via ENT-OC12).

A RTRV-TH-OC12 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-TH-OC12 : [TID] : AID : [CTAG] : : [MONTYPE] , [LOCN] , [TMPER] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >		
	Default:	<SID>	
	Addressing:	None	
	Description:	Target Identifier, specifies the network node TID for the command.	
AID	OC12_AID:		
	{OC12-{1-560}}		(OC12-OC12#)
	Default:	Entry Required	
	Addressing:	&&-ranging and &-grouping	
	Description:	OC12 AID, specifies the OC-12 port.	
CTAG	< 1-6 VALID CTAG CHARACTERS >		
	Default:	< System assigned CTAG value >	
	Addressing:	None	
	Description:	Correlation Tag, associates input command with its output responses.	

MONTYPE	{ALL}, NEAR_END_PARAMETERS:{AISS, AISS-L, AISSL, CV-L, CVL, CV-S, CVS, ES-L, ESL, ES-S, ESS, ESA-L, ESAL, ESA-S, ESAS, ESB-L, ESBL, ESB-S, ESBS, FC-L, FCL, LOSS, LOSS-S, PSC, PSC-L, PSCL, PSD, PSD-L, PSDL, SEFS, SEFS-S, SES-L, SESL, SES-S, SESS, UAS-L, UASL}, FAR_END_PARAMETERS:{AISS, AISS-L, AISSL, CV-L, CVL, ES-L, ESL, ESA-L, ESAL, ESB-L, ESBL, FC-L, FCL, SES-L, SESL, UAS-L, UASL}																																				
	Default: {ALL} Addressing: None Description: Monitored Parameter Type, identifies the type of monitored parameter whose threshold level setting is being retrieved. A parameter may be specified by more than one value, e.g., parameter values may be entered with or without the dash (-). Refer to Appendix F, Monitored PM Parameters for a list of all monitored PM parameters. Values are:																																				
	<table> <tr> <td>ALL</td><td>All monitored parameter PM registers.</td></tr> <tr> <td>AISS, AISS-L, AISSL</td><td>Alarm Indication Signal Seconds – Line, AISS register.</td></tr> <tr> <td>CV-L, CVL</td><td>Coding Violations – Line, CV-L register.</td></tr> <tr> <td>CV-S, CVS</td><td>Coding Violations – Section, CV-S register. (Near-end only.)</td></tr> <tr> <td>ES-L, ESL</td><td>Errored Seconds – Line, ES-L register.</td></tr> <tr> <td>ES-S, ESS</td><td>Errored Seconds – Section, ES-S register. (Near-end only.)</td></tr> <tr> <td>ESA-L, ESAL</td><td>Errored Seconds type A – Line, ESA-L register.</td></tr> <tr> <td>ESA-S, ESAS</td><td>Errored Seconds type A – Section, ESA-S register. (Near-end only.)</td></tr> <tr> <td>ESB-L, ESBL</td><td>Errored Seconds type B – Line, ESB-L register.</td></tr> <tr> <td>ESB-S, ESBS</td><td>Errored Seconds type B – Section, ESB-S register. (Near-end only.)</td></tr> <tr> <td>FC-L, FCL</td><td>Failure Counts – Line, FC-L register.</td></tr> <tr> <td>LOSS, LOSS-S</td><td>Loss Of Signal Seconds – Section, LOSS register. (Near-end only.)</td></tr> <tr> <td>PSC, PSC-L, PSCL</td><td>Protection Switch Counts – Line, PSC-L register. (Near-end only.)</td></tr> <tr> <td>PSD, PSD-L, PSDL</td><td>Protection Switch Duration – Line, PSD-L register. (Near-end only.)</td></tr> <tr> <td>SEFS, SEFS-S</td><td>Severely Errored Frame Seconds – Section, SEFS-S register. (Near-end only.)</td></tr> <tr> <td>SES-L, SESL</td><td>Severely Errored Seconds – Line, SES-L register.</td></tr> <tr> <td>SES-S, SESS</td><td>Severely Errored Seconds – Section, SES-S register. (Near-end only.)</td></tr> <tr> <td>UAS-L, UASL</td><td>Unavailable Seconds – Line, UAS-L register.</td></tr> </table>	ALL	All monitored parameter PM registers.	AISS, AISS-L, AISSL	Alarm Indication Signal Seconds – Line, AISS register.	CV-L, CVL	Coding Violations – Line, CV-L register.	CV-S, CVS	Coding Violations – Section, CV-S register. (Near-end only.)	ES-L, ESL	Errored Seconds – Line, ES-L register.	ES-S, ESS	Errored Seconds – Section, ES-S register. (Near-end only.)	ESA-L, ESAL	Errored Seconds type A – Line, ESA-L register.	ESA-S, ESAS	Errored Seconds type A – Section, ESA-S register. (Near-end only.)	ESB-L, ESBL	Errored Seconds type B – Line, ESB-L register.	ESB-S, ESBS	Errored Seconds type B – Section, ESB-S register. (Near-end only.)	FC-L, FCL	Failure Counts – Line, FC-L register.	LOSS, LOSS-S	Loss Of Signal Seconds – Section, LOSS register. (Near-end only.)	PSC, PSC-L, PSCL	Protection Switch Counts – Line, PSC-L register. (Near-end only.)	PSD, PSD-L, PSDL	Protection Switch Duration – Line, PSD-L register. (Near-end only.)	SEFS, SEFS-S	Severely Errored Frame Seconds – Section, SEFS-S register. (Near-end only.)	SES-L, SESL	Severely Errored Seconds – Line, SES-L register.	SES-S, SESS	Severely Errored Seconds – Section, SES-S register. (Near-end only.)	UAS-L, UASL	Unavailable Seconds – Line, UAS-L register.
ALL	All monitored parameter PM registers.																																				
AISS, AISS-L, AISSL	Alarm Indication Signal Seconds – Line, AISS register.																																				
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ES-S, ESS	Errored Seconds – Section, ES-S register. (Near-end only.)																																				
ESA-L, ESAL	Errored Seconds type A – Line, ESA-L register.																																				
ESA-S, ESAS	Errored Seconds type A – Section, ESA-S register. (Near-end only.)																																				
ESB-L, ESBL	Errored Seconds type B – Line, ESB-L register.																																				
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PSD, PSD-L, PSDL	Protection Switch Duration – Line, PSD-L register. (Near-end only.)																																				
SEFS, SEFS-S	Severely Errored Frame Seconds – Section, SEFS-S register. (Near-end only.)																																				
SES-L, SESL	Severely Errored Seconds – Line, SES-L register.																																				
SES-S, SESS	Severely Errored Seconds – Section, SES-S register. (Near-end only.)																																				
UAS-L, UASL	Unavailable Seconds – Line, UAS-L register.																																				
	Restrictions: RTRV-TH-OC12 is denied if the specified MONTYPE value is not supported for the specified LOCN value (e.g., MONTYPE of CV-S and LOCN of FEND is entered).																																				
LOCN	{FEND, NEND}																																				
	Default: < All applicable locations for the selected monitored parameters > Addressing: None Description: Location, specifies whether threshold levels for near-end or far-end monitored parameters are to be retrieved. Values are:																																				
	<table> <tr> <td>FEND</td><td>Far-End</td></tr> <tr> <td>NEND</td><td>Near-End</td></tr> </table>	FEND	Far-End	NEND	Near-End																																
FEND	Far-End																																				
NEND	Near-End																																				
	Restrictions: RTRV-TH-OC12 is denied if the specified MONTYPE value is not supported for the specified LOCN value (e.g., MONTYPE of CV-S and LOCN of FEND is entered).																																				

TMPER	{15-MIN, 1-DAY}
Default:	{15-MIN}
Addressing:	None
Description:	Time Period, specifies whether threshold levels for the 15-minute or the daily (24 hour) PM collection register for the specified parameter is to be retrieved. Values are:
	15-MIN 15-Minute PM collection register
	1-DAY 1-Day (24 hour) PM collection register

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  "<AID>,OC12:<MONTYPE>,<LOCN>,<THLEV>,<TMPER>"
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

AID	OC12_AID: {OC12-{1-560}} (OC12-OC12#) OC12 AID, identifies the OC-12 port.																																		
MONTYPE	NEAR_END_PARAMETERS:{AISS, CVL, CVS, ESL, ESS, ESA-L, ESA-S, ESB-L, ESB-S, FC-L, LOSS, PSC-L, PSD-L, SEFS, SESL, SESS, UASL}, FAR_END_PARAMETERS:{AISS, CVL, ESL, ESA-L, ESB-L, FC-L, SESL, UASL} Monitored Parameter Type, identifies the monitored parameter. Refer to Appendix F, Monitored PM Parameters for a list of all monitored PM parameters. Values are: <table> <tr><td>AISS</td><td>Alarm Indication Signal Seconds – Line, AISS register.</td></tr> <tr><td>CVL</td><td>Coding Violations – Line, CV-L register.</td></tr> <tr><td>CVS</td><td>Coding Violations – Section, CV-S register.</td></tr> <tr><td>ESL</td><td>Errored Seconds – Line, ES-L register.</td></tr> <tr><td>ESS</td><td>Errored Seconds – Section, ES-S register.</td></tr> <tr><td>ESA-L</td><td>Errored Seconds type A – Line, ESA-L register.</td></tr> <tr><td>ESA-S</td><td>Errored Seconds type A – Section, ESA-S register.</td></tr> <tr><td>ESB-L</td><td>Errored Seconds type B – Line, ESB-L register.</td></tr> <tr><td>ESB-S</td><td>Errored Seconds type B – Section, ESB-S register.</td></tr> <tr><td>FC-L</td><td>Failure Counts – Line, FC-L register.</td></tr> <tr><td>LOSS</td><td>Loss Of Signal Seconds – Section, LOSS register.</td></tr> <tr><td>PSC-L</td><td>Protection Switch Counts – Line, PSC-L register.</td></tr> <tr><td>PSD-L</td><td>Protection Switch Duration – Line, PSD-L register.</td></tr> <tr><td>SEFS</td><td>Severely Errored Frame Seconds – Section, SEFS-S register.</td></tr> <tr><td>SESL</td><td>Severely Errored Seconds – Line, SES-L register.</td></tr> <tr><td>SESS</td><td>Severely Errored Seconds – Section, SES-S register.</td></tr> <tr><td>UASL</td><td>Unavailable Seconds – Line, UAS-L register.</td></tr> </table>	AISS	Alarm Indication Signal Seconds – Line, AISS register.	CVL	Coding Violations – Line, CV-L register.	CVS	Coding Violations – Section, CV-S register.	ESL	Errored Seconds – Line, ES-L register.	ESS	Errored Seconds – Section, ES-S register.	ESA-L	Errored Seconds type A – Line, ESA-L register.	ESA-S	Errored Seconds type A – Section, ESA-S register.	ESB-L	Errored Seconds type B – Line, ESB-L register.	ESB-S	Errored Seconds type B – Section, ESB-S register.	FC-L	Failure Counts – Line, FC-L register.	LOSS	Loss Of Signal Seconds – Section, LOSS register.	PSC-L	Protection Switch Counts – Line, PSC-L register.	PSD-L	Protection Switch Duration – Line, PSD-L register.	SEFS	Severely Errored Frame Seconds – Section, SEFS-S register.	SESL	Severely Errored Seconds – Line, SES-L register.	SESS	Severely Errored Seconds – Section, SES-S register.	UASL	Unavailable Seconds – Line, UAS-L register.
AISS	Alarm Indication Signal Seconds – Line, AISS register.																																		
CVL	Coding Violations – Line, CV-L register.																																		
CVS	Coding Violations – Section, CV-S register.																																		
ESL	Errored Seconds – Line, ES-L register.																																		
ESS	Errored Seconds – Section, ES-S register.																																		
ESA-L	Errored Seconds type A – Line, ESA-L register.																																		
ESA-S	Errored Seconds type A – Section, ESA-S register.																																		
ESB-L	Errored Seconds type B – Line, ESB-L register.																																		
ESB-S	Errored Seconds type B – Section, ESB-S register.																																		
FC-L	Failure Counts – Line, FC-L register.																																		
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PSC-L	Protection Switch Counts – Line, PSC-L register.																																		
PSD-L	Protection Switch Duration – Line, PSD-L register.																																		
SEFS	Severely Errored Frame Seconds – Section, SEFS-S register.																																		
SESL	Severely Errored Seconds – Line, SES-L register.																																		
SESS	Severely Errored Seconds – Section, SES-S register.																																		
UASL	Unavailable Seconds – Line, UAS-L register.																																		
LOCN	{FEND, NEND} Location, indicates whether threshold levels for near-end or far-end monitored parameters are being reported. Values are: <table> <tr><td>FEND</td><td>Far-End</td></tr> <tr><td>NEND</td><td>Near-End</td></tr> </table>	FEND	Far-End	NEND	Near-End																														
FEND	Far-End																																		
NEND	Near-End																																		
THLEV	{0-4294967295} Threshold Level, indicates the value of the threshold level for the indicated parameter. A value of zero (0) indicates PM threshold crossings are not autonomously reported.																																		

TMPER	{15-MIN, 1-DAY} Time Period, identifies the accumulation time period for the indicated parameter. Values are: 15-MIN 15-Minute PM collection register 1-DAY 1-Day (24 hour) PM collection register
-------	---

UNSUCCESSFUL RESPONSE FORMAT

```

      <SID> <YY-MM-DD> <HH:MM:SS>
M  <CTAG> DENY
    <ERROR CODE>
    [/* <Informational Error Description Text> */]
    [/* <Expanded Error Code Description> */]
    [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid /* Invalid location in request message. */ /* Invalid time period in request message. */ /* Invalid montype in request message. */
IIAC	Input, Invalid ACcess identifier /* Invalid AID entered. */ /* AID not in Partition. */
IIPG	Input, Invalid Parameter Grouping /* Invalid location for requested montype. */
SDBE	Status, internal Data Base Error /* Failed to set pointer to FM OC12 record. */ /* Failed to set file ptr to OC12 threshold database. */
SROF	Status, Requested Operation Failed /* rpt_file error – <ERRNO>, status = <STATUS> */ /* Cannot open <FILENAME> */ /* nrl_rpt_print error – no transaction, msgtype = <MSGTYPE> */ /* rpt_print error – <ERRNO>, status = <STATUS> */ /* Failed to convert TPid to an AID string. */ /* Unable to convert montype <MONTYPE> to string. */ /* Unable to process montype <MONTYPE>. */ /* Unable to determine supporting facility entity. */ /* Unable to determine facility type. */ /* Could not write to report file. */

EXAMPLES

In the following example, the coding violations, line (CV-L) threshold level settings for the near-end 15-Minute PM register is retrieved for OC12 port OC12-193.

```
RTRV-TH-OC12::OC12-193:::CV-L,NEND,15-MIN;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71022. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M P71042 COMPLD  
"OC12-193,OC12:CVL,NEND,,13340,15-MIN"  
/* RTRV-TH-OC12::OC12-193:::CV-L,,15-MIN [P71042] (1) */  
;
```

RELATED COMMANDS

```
INIT-REG-OC12  
RTRV-DFLTTH-OC12  
RTRV-PM-OC12  
RTRV-PMATTR-ALL  
RTRV-PMODE-OC12  
SET-DFLTTH-OC12  
SET-PMATTR-ALL  
SET-PMODE-OC12  
SET-TH-OC12
```

RELATED AUTONOMOUS RESPONSES

```
REPT^EVT^OC12
```


COMMAND CODE: **RTRV-TH-OC3**
COMMAND NAME: **RETRIEVE THRESHOLD OC-3**

PURPOSE

The RTRV-TH-OC3 command retrieves the threshold level setting corresponding to the specified PM collection register (identified by MONTYPE, LOCN, and TMPER) and the specified OC3 port.

The successful response for a RTRV-TH-OC3 command contains one line of parsable output data for each parameter threshold level setting being reported, in ascending order (from the lowest specified OC3 AID to the highest specified OC3 AID) for each OC3 AID specified. A line of parsable output data is only displayed if the specified AID is provisioned (via ENT-OC3).

A RTRV-TH-OC3 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-TH-OC3 : [TID] : AID : [CTAG] : : [MONTYPE] , [LOCN] , [TMPER] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	OC3_AID: {OC3-{1-2240}} (OC3-OC3#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: OC3 AID, specifies the OC-3 port.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

MONTYPE	{ALL}, NEAR_END_PARAMETERS:{AISS, AISS-L, AISSL, CV-L, CVL, CV-S, CVS, ES-L, ESL, ES-S, ESS, ESA-L, ESAL, ESA-S, ESAS, ESB-L, ESBL, ESB-S, ESBS, FC-L, FCL, LOSS, LOSS-S, PSC, PSC-L, PSCL, PSD, PSD-L, PSDL, SEFS, SEFS-S, SES-L, SESL, SES-S, SESS, UAS-L, UASL}, FAR_END_PARAMETERS:{AISS, AISS-L, AISSL, CV-L, CVL, ES-L, ESL, ESA-L, ESAL, ESB-L, ESBL, FC-L, FCL, SES-L, SESL, UAS-L, UASL}																																				
	Default: {ALL} Addressing: None Description: Monitored Parameter Type, identifies the type of monitored parameter whose threshold level setting is being retrieved. A parameter may be specified by more than one value, e.g., parameter values may be entered with or without the dash (-). Refer to Appendix F, Monitored PM Parameters for a list of all monitored PM parameters. Values are:																																				
	<table> <tr> <td>ALL</td><td>All monitored parameter PM registers.</td></tr> <tr> <td>AISS, AISS-L, AISSL</td><td>Alarm Indication Signal Seconds – Line, AISS register.</td></tr> <tr> <td>CV-L, CVL</td><td>Coding Violations – Line, CV-L register.</td></tr> <tr> <td>CV-S, CVS</td><td>Coding Violations – Section, CV-S register. (Near-end only.)</td></tr> <tr> <td>ES-L, ESL</td><td>Errored Seconds – Line, ES-L register.</td></tr> <tr> <td>ES-S, ESS</td><td>Errored Seconds – Section, ES-S register. (Near-end only.)</td></tr> <tr> <td>ESA-L, ESAL</td><td>Errored Seconds type A – Line, ESA-L register.</td></tr> <tr> <td>ESA-S, ESAS</td><td>Errored Seconds type A – Section, ESA-S register. (Near-end only.)</td></tr> <tr> <td>ESB-L, ESBL</td><td>Errored Seconds type B – Line, ESB-L register.</td></tr> <tr> <td>ESB-S, ESBS</td><td>Errored Seconds type B – Section, ESB-S register. (Near-end only.)</td></tr> <tr> <td>FC-L, FCL</td><td>Failure Counts – Line, FC-L register.</td></tr> <tr> <td>LOSS, LOSS-S</td><td>Loss Of Signal Seconds – Section, LOSS register. (Near-end only.)</td></tr> <tr> <td>PSC, PSC-L, PSCL</td><td>Protection Switch Counts – Line, PSC-L register. (Near-end only.)</td></tr> <tr> <td>PSD, PSD-L, PSDL</td><td>Protection Switch Duration – Line, PSD-L register. (Near-end only.)</td></tr> <tr> <td>SEFS, SEFS-S</td><td>Severely Errored Frame Seconds – Section, SEFS-S register. (Near-end only.)</td></tr> <tr> <td>SES-L, SESL</td><td>Severely Errored Seconds – Line, SES-L register.</td></tr> <tr> <td>SES-S, SESS</td><td>Severely Errored Seconds – Section, SES-S register. (Near-end only.)</td></tr> <tr> <td>UAS-L, UASL</td><td>Unavailable Seconds – Line, UAS-L register.</td></tr> </table>	ALL	All monitored parameter PM registers.	AISS, AISS-L, AISSL	Alarm Indication Signal Seconds – Line, AISS register.	CV-L, CVL	Coding Violations – Line, CV-L register.	CV-S, CVS	Coding Violations – Section, CV-S register. (Near-end only.)	ES-L, ESL	Errored Seconds – Line, ES-L register.	ES-S, ESS	Errored Seconds – Section, ES-S register. (Near-end only.)	ESA-L, ESAL	Errored Seconds type A – Line, ESA-L register.	ESA-S, ESAS	Errored Seconds type A – Section, ESA-S register. (Near-end only.)	ESB-L, ESBL	Errored Seconds type B – Line, ESB-L register.	ESB-S, ESBS	Errored Seconds type B – Section, ESB-S register. (Near-end only.)	FC-L, FCL	Failure Counts – Line, FC-L register.	LOSS, LOSS-S	Loss Of Signal Seconds – Section, LOSS register. (Near-end only.)	PSC, PSC-L, PSCL	Protection Switch Counts – Line, PSC-L register. (Near-end only.)	PSD, PSD-L, PSDL	Protection Switch Duration – Line, PSD-L register. (Near-end only.)	SEFS, SEFS-S	Severely Errored Frame Seconds – Section, SEFS-S register. (Near-end only.)	SES-L, SESL	Severely Errored Seconds – Line, SES-L register.	SES-S, SESS	Severely Errored Seconds – Section, SES-S register. (Near-end only.)	UAS-L, UASL	Unavailable Seconds – Line, UAS-L register.
ALL	All monitored parameter PM registers.																																				
AISS, AISS-L, AISSL	Alarm Indication Signal Seconds – Line, AISS register.																																				
CV-L, CVL	Coding Violations – Line, CV-L register.																																				
CV-S, CVS	Coding Violations – Section, CV-S register. (Near-end only.)																																				
ES-L, ESL	Errored Seconds – Line, ES-L register.																																				
ES-S, ESS	Errored Seconds – Section, ES-S register. (Near-end only.)																																				
ESA-L, ESAL	Errored Seconds type A – Line, ESA-L register.																																				
ESA-S, ESAS	Errored Seconds type A – Section, ESA-S register. (Near-end only.)																																				
ESB-L, ESBL	Errored Seconds type B – Line, ESB-L register.																																				
ESB-S, ESBS	Errored Seconds type B – Section, ESB-S register. (Near-end only.)																																				
FC-L, FCL	Failure Counts – Line, FC-L register.																																				
LOSS, LOSS-S	Loss Of Signal Seconds – Section, LOSS register. (Near-end only.)																																				
PSC, PSC-L, PSCL	Protection Switch Counts – Line, PSC-L register. (Near-end only.)																																				
PSD, PSD-L, PSDL	Protection Switch Duration – Line, PSD-L register. (Near-end only.)																																				
SEFS, SEFS-S	Severely Errored Frame Seconds – Section, SEFS-S register. (Near-end only.)																																				
SES-L, SESL	Severely Errored Seconds – Line, SES-L register.																																				
SES-S, SESS	Severely Errored Seconds – Section, SES-S register. (Near-end only.)																																				
UAS-L, UASL	Unavailable Seconds – Line, UAS-L register.																																				
	Restrictions: RTRV-TH-OC3 is denied if the specified MONTYPE value is not supported for the specified LOCN value (e.g., MONTYPE of CV-S and LOCN of FEND is entered).																																				
LOCN	{FEND, NEND}																																				
	Default: < All applicable locations for the selected monitored parameters > Addressing: None Description: Location, specifies whether threshold levels for near-end or far-end monitored parameters are to be retrieved. Values are:																																				
	<table> <tr> <td>FEND</td><td>Far-End</td></tr> <tr> <td>NEND</td><td>Near-End</td></tr> </table>	FEND	Far-End	NEND	Near-End																																
FEND	Far-End																																				
NEND	Near-End																																				
	Restrictions: RTRV-TH-OC3 is denied if the specified MONTYPE value is not supported for the specified LOCN value (e.g., MONTYPE of CV-S and LOCN of FEND is entered).																																				

TMPER	{15-MIN, 1-DAY}
Default:	{15-MIN}
Addressing:	None
Description:	Time Period, specifies whether threshold levels for the 15-minute or the daily (24 hour) PM collection register for the specified parameter is to be retrieved. Values are:
	15-MIN 15-Minute PM collection register
	1-DAY 1-Day (24 hour) PM collection register

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  "<AID>, OC3 : <MONTYPE>, <LOCN>, , <THLEV>, <TMPER>"
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

OUTPUT PARAMETERS

AID	OC3_AID: {OC3-{1-2240}} OC3 AID, identifies the OC-3 port.	(OC3-OC3#)
MONTYPE	NEAR_END_PARAMETERS:{AISS, CVL, CVS, ESL, ESS, ESA-L, ESA-S, ESB-L, ESB-S, FC-L, LOSS, PSC-L, PSD-L, SEFS, SESL, SESS, UASL}, FAR_END_PARAMETERS:{AISS, CVL, ESL, ESA-L, ESB-L, FC-L, SESL, UASL} Monitored Parameter Type, identifies the monitored parameter. Refer to Appendix F, Monitored PM Parameters for a list of all monitored PM parameters. Values are: AISS Alarm Indication Signal Seconds – Line, AISS register. CVL Coding Violations – Line, CV-L register. CVS Coding Violations – Section, CV-S register. ESL Errored Seconds – Line, ES-L register. ESS Errored Seconds – Section, ES-S register. ESA-L Errored Seconds type A – Line, ESA-L register. ESA-S Errored Seconds type A – Section, ESA-S register. ESB-L Errored Seconds type B – Line, ESB-L register. ESB-S Errored Seconds type B – Section, ESB-S register. FC-L Failure Counts – Line, FC-L register. LOSS Loss Of Signal Seconds – Section, LOSS register. PSC-L Protection Switch Counts – Line, PSC-L register. PSD-L Protection Switch Duration – Line, PSD-L register. SEFS Severely Errored Frame Seconds – Section, SEFS-S register. SESL Severely Errored Seconds – Line, SES-L register. SESS Severely Errored Seconds – Section, SES-S register. UASL Unavailable Seconds – Line, UAS-L register.	
LOCN	{FEND, NEND} Location, indicates whether threshold levels for near-end or far-end monitored parameters are being reported. Values are: FEND Far-End NEND Near-End	
THLEV	{0-4294967295} Threshold Level, indicates the value of the threshold level for the indicated parameter. A value of zero (0) indicates PM threshold crossings are not autonomously reported.	

TMPER	{15-MIN, 1-DAY} Time Period, identifies the accumulation time period for the indicated parameter. Values are: 15-MIN 15-Minute PM collection register 1-DAY 1-Day (24 hour) PM collection register
-------	---

UNSUCCESSFUL RESPONSE FORMAT

```

      <SID> <YY-MM-DD> <HH:MM:SS>
M  <CTAG> DENY
    <ERROR CODE>
    [/* <Informational Error Description Text> */]
    [/* <Expanded Error Code Description> */]
    [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid /* Invalid location in request message. */ /* Invalid time period in request message. */ /* Invalid montype in request message. */
IIAC	Input, Invalid ACcess identifier /* Invalid AID entered. */ /* AID not in Partition. */
IIPG	Input, Invalid Parameter Grouping /* Invalid location for requested montype. */
SDBE	Status, internal Data Base Error /* Failed to set pointer to FM OC3 record. */ /* Failed to set file ptr to OC3 threshold database. */
SROF	Status, Requested Operation Failed /* rpt_file error – <ERRNO>, status = <STATUS> */ /* Cannot open <FILENAME> */ /* nrl_rpt_print error – no transaction, msgtype = <MSGTYPE> */ /* rpt_print error – <ERRNO>, status = <STATUS> */ /* Failed to convert TPid to an AID string. */ /* Unable to convert montype <MONTYPE> to string. */ /* Unable to process montype <MONTYPE>. */ /* Unable to determine supporting facility entity. */ /* Unable to determine facility type. */ /* Could not write to report file. */

EXAMPLES

In the following example, the coding violations, line (CV-L) threshold level settings for the near-end 15-Minute PM register is retrieved for OC3 port OC3-193.

```
RTRV-TH-OC3::OC3-193:::CV-L,NEND,15-MIN;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71022. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M P71042 COMPLD  
"OC3-193,OC3:CVL,NEND,,13340,15-MIN"  
/* RTRV-TH-OC3::OC3-193:::CV-L,,15-MIN [P71042] (1) */  
;
```

RELATED COMMANDS

```
INIT-REG-OC3  
RTRV-DFLTTH-OC3  
RTRV-PM-OC3  
RTRV-PMATTR-ALL  
RTRV-PMODE-OC3  
SET-DFLTTH-OC3  
SET-PMATTR-ALL  
SET-PMODE-OC3  
SET-TH-OC3
```

RELATED AUTONOMOUS RESPONSES

```
REPT^EVT^OC3
```


COMMAND CODE: **RTRV–TH–STS1**
COMMAND NAME: **RETRIEVE THRESHOLD STS–1**

PURPOSE

The RTRV–TH–STS1 command retrieves the threshold level setting corresponding to the specified PM collection register (identified by MONTYPE, LOCN, and TMPER) and the specified STS–1 port.

The successful response for a RTRV–TH–STS1 command contains one line of parsable output data for each parameter threshold level setting being reported, in ascending order (from the lowest specified STS–1 AID to the highest specified STS–1 AID) for each STS–1 AID specified. A line of parsable output data is only displayed if the specified AID is provisioned (via ENT–STS1). In addition, no line of parsable output data is displayed if the specified STS–1 is embedded within a protection OC–3 or OC–12.

A RTRV–TH–STS1 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV–TH–STS1 : [TID] : AID : [CTAG] : : [MONTYPE] , [LOCN] , [TMPER] ;

INPUT PARAMETERS

TID	< 1–20 VALID TID CHARACTERS >		
	Default:	<SID>	
	Addressing:	None	
	Description:	Target Identifier, specifies the network node TID for the command.	
AID	STS1_AID:		
	{EC1STS1–{1–3840}}	(EC1STS1–EC1/STS1#)	
	{OC3STS1–{1–2240}–{1–3}}	(OC3STS1–OC3#–STS1#)	
	{OC12STS1–{1–560}–{1–4}–{1–3}}	(OC12STS1–OC12#–STM1#–STS1#)	
	Default:	Entry Required	
	Addressing:	&&–ranging and &–grouping	
	Description:	STS1 AID, specifies the STS–1 port.	
CTAG	< 1–6 VALID CTAG CHARACTERS >		
	Default:	< System assigned CTAG value >	
	Addressing:	None	
	Description:	Correlation Tag, associates input command with its output responses.	

MONTYPE	{ALL}, NEAR_END_PARAMETERS:{ALS-P, ALSP, CV-P, CVP, ES-P, ESP, ESA-P, ESAP, ESB-P, ESBP, FC-P, FCP, SES-P, SESP, UAS-P, UASP}, FAR_END_PARAMETERS:{ALS-P, ALSP, CV-P, CVP, ES-P, ESP, ESA-P, ESAP, ESB-P, ESBP, FC-P, FCP, SES-P, SESP, UAS-P, UASP}																		
	Default: {ALL} Addressing: None Description: Monitored Parameter Type, identifies the type of monitored parameter whose threshold level setting is being retrieved. A parameter may be specified by more than one value, e.g., parameter values may be entered with or without the dash (-). Refer to Appendix F, Monitored PM Parameters for a list of all monitored PM parameters. Values are:																		
	<table> <tr> <td>ALL</td><td>All monitored parameter PM registers.</td></tr> <tr> <td>ALS-P, ALSP</td><td>Alarm Indication Signal/Loss of Pointer – Path, ALS-P register.</td></tr> <tr> <td>CV-P, CVP</td><td>Coding Violations – Path, CV-P register.</td></tr> <tr> <td>ES-P, ESP</td><td>Errored Seconds – Path, ES-P register.</td></tr> <tr> <td>ESA-P, ESAP</td><td>Errored Seconds type A – Path, ESA-P register.</td></tr> <tr> <td>ESB-P, ESBP</td><td>Errored Seconds type B – Path, ESB-P register.</td></tr> <tr> <td>FC-P, FCP</td><td>Failure Counts – Path, FC-P register.</td></tr> <tr> <td>SES-P, SESP</td><td>Severely Errored Seconds – Path, SES-P register.</td></tr> <tr> <td>UAS-P, UASP</td><td>Unavailable Seconds – Path, UAS-P register.</td></tr> </table>	ALL	All monitored parameter PM registers.	ALS-P, ALSP	Alarm Indication Signal/Loss of Pointer – Path, ALS-P register.	CV-P, CVP	Coding Violations – Path, CV-P register.	ES-P, ESP	Errored Seconds – Path, ES-P register.	ESA-P, ESAP	Errored Seconds type A – Path, ESA-P register.	ESB-P, ESBP	Errored Seconds type B – Path, ESB-P register.	FC-P, FCP	Failure Counts – Path, FC-P register.	SES-P, SESP	Severely Errored Seconds – Path, SES-P register.	UAS-P, UASP	Unavailable Seconds – Path, UAS-P register.
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ESB-P, ESBP	Errored Seconds type B – Path, ESB-P register.																		
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UAS-P, UASP	Unavailable Seconds – Path, UAS-P register.																		
LOCN	{FEND, NEND}																		
	Default: < All applicable locations for the selected monitored parameters > Addressing: None Description: Location, specifies whether threshold levels for near-end or far-end monitored parameters are to be retrieved. Values are:																		
	<table> <tr> <td>FEND</td><td>Far-End</td></tr> <tr> <td>NEND</td><td>Near-End</td></tr> </table>	FEND	Far-End	NEND	Near-End														
FEND	Far-End																		
NEND	Near-End																		
TMPER	{15-MIN, 1-DAY}																		
	Default: {15-MIN} Addressing: None Description: Time Period, specifies whether threshold levels for the 15-minute or the daily (24 hour) PM collection register for the specified parameter is to be retrieved. Values are:																		
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15-MIN	15-Minute PM collection register																		
1-DAY	1-Day (24 hour) PM collection register																		

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  "<AID>, STS1:<MONTYPE>,<LOCN>,<THLEV>,<TMPER>"
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

OUTPUT PARAMETERS

AID	STS1_AID:	
	{EC1STS1-{1-3840}}	(EC1STS1-EC1/STS1#)
	{OC3STS1-{1-2240}-{1-3}}	(OC3STS1-OC3#-STS1#)
	{OC12STS1-{1-560}-{1-4}-{1-3}}	(OC12STS1-OC12#-STM1#-STS1#)
	STS1 AID, identifies the STS-1 port.	

MONTYPE	NEAR_END_PARAMETERS:{ALS-P, CVP, ESP, ESA-P, ESB-P, FC-P, SESP, UASP}, FAR_END_PARAMETERS:{ALS-P, CVP, ESP, ESA-P, ESB-P, FC-P, SESP, UASP} Monitored Parameter Type, identifies the monitored parameter. Refer to Appendix F, Monitored PM Parameters for a list of all monitored PM parameters. Values are: <table> <tr><td>ALS-P</td><td>Alarm Indication Signal/Loss of Pointer – Path, ALS-P register.</td></tr> <tr><td>CVP</td><td>Coding Violations – Path, CV-P register.</td></tr> <tr><td>ESP</td><td>Errored Seconds – Path, ES-P register.</td></tr> <tr><td>ESA-P</td><td>Errored Seconds type A – Path, ESA-P register.</td></tr> <tr><td>ESB-P</td><td>Errored Seconds type B – Path, ESB-P register.</td></tr> <tr><td>FC-P</td><td>Failure Counts – Path, FC-P register.</td></tr> <tr><td>SESP</td><td>Severely Errored Seconds – Path, SES-P register.</td></tr> <tr><td>UASP</td><td>Unavailable Seconds – Path, UAS-P register.</td></tr> </table>	ALS-P	Alarm Indication Signal/Loss of Pointer – Path, ALS-P register.	CVP	Coding Violations – Path, CV-P register.	ESP	Errored Seconds – Path, ES-P register.	ESA-P	Errored Seconds type A – Path, ESA-P register.	ESB-P	Errored Seconds type B – Path, ESB-P register.	FC-P	Failure Counts – Path, FC-P register.	SESP	Severely Errored Seconds – Path, SES-P register.	UASP	Unavailable Seconds – Path, UAS-P register.
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ESA-P	Errored Seconds type A – Path, ESA-P register.																
ESB-P	Errored Seconds type B – Path, ESB-P register.																
FC-P	Failure Counts – Path, FC-P register.																
SESP	Severely Errored Seconds – Path, SES-P register.																
UASP	Unavailable Seconds – Path, UAS-P register.																
LOCN	{FEND, NEND} Location, indicates whether threshold levels for near-end or far-end monitored parameters are being reported. Values are: <table> <tr><td>FEND</td><td>Far-End</td></tr> <tr><td>NEND</td><td>Near-End</td></tr> </table>	FEND	Far-End	NEND	Near-End												
FEND	Far-End																
NEND	Near-End																
THLEV	{0-4294967295} Threshold Level, indicates the value of the threshold level for the indicated parameter. A value of zero (0) indicates PM threshold crossings are not autonomously reported.																
TMPER	{15-MIN, 1-DAY} Time Period, identifies the accumulation time period for the indicated parameter. Values are: <table> <tr><td>15-MIN</td><td>15-Minute PM collection register</td></tr> <tr><td>1-DAY</td><td>1-Day (24 hour) PM collection register</td></tr> </table>	15-MIN	15-Minute PM collection register	1-DAY	1-Day (24 hour) PM collection register												
15-MIN	15-Minute PM collection register																
1-DAY	1-Day (24 hour) PM collection register																

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid /* Invalid location in request message. */ /* Invalid time period in request message. */ /* Invalid montype in request message. */
IIAC	Input, Invalid ACcess identifier /* Invalid AID entered. */ /* AID not in Partition. */
IIPG	Input, Invalid Parameter Grouping /* Invalid location for requested montype. */
SDBE	Status, internal Data Base Error /* Failed to set pointer to FM STS1 record. */ /* Failed to set file ptr to STS1 threshold database. */

```
SROF      Status, Requested Operation Failed
          /* rpt_file error – <ERRNO>, status = <STATUS> */
          /* Cannot open <FILENAME> */
          /* nrl_rpt_print error – no transaction, msgtype = <MSGTYPE> */
          /* rpt_print error – <ERRNO>, status = <STATUS> */
          /* Failed to convert TPid to an AID string. */
          /* Unable to convert montype <MONTYPE> to string. */
          /* Unable to process montype <MONTYPE>. */
          /* Unable to determine supporting facility entity. */
          /* Unable to determine facility type. */
          /* Could not write to report file. */
```

EXAMPLES

In the following example, the coding violations, path (CV-P) threshold level settings for the near-end and far-end 15-Minute PM registers are retrieved for STS-1 port EC1STS1-577.

```
RTRV-TH-STs1::EC1STS1-577:::CV-P,,15-MIN;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71022. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M  P71042  COMPLD
   "EC1STS1-577,STS1:CVP,NEND,,4666,15-MIN"
   "EC1STS1-577,STS1:CVP,FEND,,4666,15-MIN"
/*  RTRV-TH-STs1::EC1STS1-577:::CV-P,,15-MIN [P71042] (1) */
;
```

RELATED COMMANDS

```
INIT-REG-STs1
RTRV-DFLTTH-STs1
RTRV-PM-STs1
RTRV-PMATTR-ALL
RTRV-PMODE-STs1
SET-DFLTTH-STs1
SET-PMATTR-ALL
SET-PMODE-STs1
SET-TH-STs1
```

RELATED AUTONOMOUS RESPONSES

```
REPT^EVT^STs1
```

COMMAND CODE: **RTRV–TH–STS3C**
COMMAND NAME: **RETRIEVE THRESHOLD STS–3C**

PURPOSE

The RTRV–TH–STS3C command retrieves the threshold level setting corresponding to the specified PM collection register (identified by MONTYPE, LOCN, and TMPER) and the specified STS–3C port.

The successful response for a RTRV–TH–STS3C command contains one line of parsable output data for each parameter threshold level setting being reported, in ascending order (from the lowest specified STS–3C AID to the highest specified STS–3C AID) for each STS–3C AID specified. A line of parsable output data is only displayed if the specified AID is provisioned (via ENT–STS3C). In addition, no line of parsable output data is displayed if the specified STS–3C is embedded within a protection OC–3 or OC–12.

A RTRV–TH–STS3C command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV–TH–STS3C: [TID] :AID: [CTAG] :: [MONTYPE] , [LOCN] , [TMPER] ;

INPUT PARAMETERS

TID	< 1–20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.																		
AID	STS3C_AID: {OC3STS3C–{1–2240}} (OC3STS3C–OC3#/STS3C#) {OC12STS3C–{1–560}–{1–4}} (OC12STS3C–OC12#–STM1/STS3C#) Default: Entry Required Addressing: &&–ranging and &–grouping Description: STS3C AID, specifies the STS–3C port.																		
CTAG	< 1–6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.																		
MONTYPE	{ALL}, NEAR_END_PARAMETERS:{ALS–P, ALSP, CV–P, CVP, ES–P, ESP, ESA–P, ESAP, ESB–P, ESBP, FC–P, FCP, SES–P, SESP, UAS–P, UASP}, FAR_END_PARAMETERS:{ALS–P, ALSP, CV–P, CVP, ES–P, ESP, ESA–P, ESAP, ESB–P, ESBP, FC–P, FCP, SES–P, SESP, UAS–P, UASP} Default: {ALL} Addressing: None Description: Monitored Parameter Type, identifies the type of monitored parameter whose threshold level setting is being retrieved. A parameter may be specified by more than one value, e.g., parameter values may be entered with or without the dash (–). Refer to Appendix F, Monitored PM Parameters for a list of all monitored PM parameters. Values are: <table> <tr> <td>ALL</td><td>All monitored parameter PM registers.</td></tr> <tr> <td>ALS–P, ALSP</td><td>Alarm Indication Signal/Loss of Pointer – Path, ALS–P register.</td></tr> <tr> <td>CV–P, CVP</td><td>Coding Violations – Path, CV–P register.</td></tr> <tr> <td>ES–P, ESP</td><td>Errored Seconds – Path, ES–P register.</td></tr> <tr> <td>ESA–P, ESAP</td><td>Errored Seconds type A – Path, ESA–P register.</td></tr> <tr> <td>ESB–P, ESBP</td><td>Errored Seconds type B – Path, ESB–P register.</td></tr> <tr> <td>FC–P, FCP</td><td>Failure Counts – Path, FC–P register.</td></tr> <tr> <td>SES–P, SESP</td><td>Severely Errored Seconds – Path, SES–P register.</td></tr> <tr> <td>UAS–P, UASP</td><td>Unavailable Seconds – Path, UAS–P register.</td></tr> </table>	ALL	All monitored parameter PM registers.	ALS–P, ALSP	Alarm Indication Signal/Loss of Pointer – Path, ALS–P register.	CV–P, CVP	Coding Violations – Path, CV–P register.	ES–P, ESP	Errored Seconds – Path, ES–P register.	ESA–P, ESAP	Errored Seconds type A – Path, ESA–P register.	ESB–P, ESBP	Errored Seconds type B – Path, ESB–P register.	FC–P, FCP	Failure Counts – Path, FC–P register.	SES–P, SESP	Severely Errored Seconds – Path, SES–P register.	UAS–P, UASP	Unavailable Seconds – Path, UAS–P register.
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ALS–P, ALSP	Alarm Indication Signal/Loss of Pointer – Path, ALS–P register.																		
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FC–P, FCP	Failure Counts – Path, FC–P register.																		
SES–P, SESP	Severely Errored Seconds – Path, SES–P register.																		
UAS–P, UASP	Unavailable Seconds – Path, UAS–P register.																		

LOCN	{FEND, NEND}
	Default: < All applicable locations for the selected monitored parameters >
	Addressing: None
	Description: Location, specifies whether threshold levels for near-end or far-end monitored parameters are to be retrieved. Values are:
	FEND Far-End
	NEND Near-End
TMPER	{15-MIN, 1-DAY}
	Default: {15-MIN}
	Addressing: None
	Description: Time Period, specifies whether threshold levels for the 15-minute or the daily (24 hour) PM collection register for the specified parameter is to be retrieved. Values are:
	15-MIN 15-Minute PM collection register
	1-DAY 1-Day (24 hour) PM collection register

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  "<AID>, STS3C:<MONTYPE>,<LOCN>,<THLEV>,<TMPER>"
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

AID	STS3C_AID:
	{OC3STS3C-{1-2240}} (OC3STS3C-OC3#/STS3C#)
	{OC12STS3C-{1-560}-{1-4}} (OC12STS3C-OC12#-STM1/STS3C#)
	STS3C AID, identifies the STS-3C port.
MONTYPE	NEAR_END_PARAMETERS:{ALS-P, CVP, ESP, ESA-P, ESB-P, FC-P, SESP, UASP},
	FAR_END_PARAMETERS:{ALS-P, CVP, ESP, ESA-P, ESB-P, FC-P, SESP, UASP}
	Monitored Parameter Type, identifies the monitored parameter. Refer to Appendix F,
	Monitored PM Parameters for a list of all monitored PM parameters. Values are:
	ALS-P Alarm Indication Signal/Loss of Pointer – Path, ALS-P register.
	CVP Coding Violations – Path, CV-P register.
	ESP Errored Seconds – Path, ES-P register.
	ESA-P Errored Seconds type A – Path, ESA-P register.
	ESB-P Errored Seconds type B – Path, ESB-P register.
	FC-P Failure Counts – Path, FC-P register.
LOCN	SESP Severely Errored Seconds – Path, SES-P register.
	UASP Unavailable Seconds – Path, UAS-P register.
	{FEND, NEND}
	Location, indicates whether threshold levels for near-end or far-end monitored parameters are being reported. Values are:
	FEND Far-End
	NEND Near-End
THLEV	{0-4294967295}
	Threshold Level, indicates the value of the threshold level for the indicated parameter. A value of zero (0) indicates PM threshold crossings are not autonomously reported.

TMPER {15-MIN, 1-DAY}
Time Period, identifies the accumulation time period for the indicated parameter. Values are:

15-MIN	15-Minute PM collection register
1-DAY	1-Day (24 hour) PM collection register

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid /* Invalid location in request message. */ /* Invalid time period in request message. */ /* Invalid montype in request message. */
IIAC	Input, Invalid ACcess identifier /* Invalid AID entered. */ /* AID not in Partition. */
IIPG	Input, Invalid Parameter Grouping /* Invalid location for requested montype. */
SDBE	Status, internal Data Base Error /* Failed to set pointer to FM STS3C record. */ /* Failed to set file ptr to STS3C threshold database. */
SROF	Status, Requested Operation Failed /* rpt_file error – <ERRNO>, status = <STATUS> */ /* Cannot open <FILENAME> */ /* nrl_rpt_print error – no transaction, msgtype = <MSGTYPE> */ /* rpt_print error – <ERRNO>, status = <STATUS> */ /* Failed to convert TPid to an AID string. */ /* Unable to convert montype <MONTYPE> to string. */ /* Unable to process montype <MONTYPE>. */ /* Unable to determine supporting facility entity. */ /* Unable to determine facility type. */ /* Could not write to report file. */

EXAMPLES

In the following example, the coding violations, path (CV-P) threshold level settings for the near-end and far-end 15-Minute PM registers are retrieved for STS-3C port OC3STS3C-1.

```
RTRV-TH-STSC: :OC3STS3C-1:::CV-P, , 15-MIN;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71022. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P71042 COMPLD
"OC3STS3C-1,STS3C:CVP,NEND,,4666,15-MIN"
"OC3STS3C-1,STS3C:CVP,FEND,,4666,15-MIN"
/* RTRV-TH-STS3C::OC3STS3C-1::CV-P,,15-MIN [P71042] (1) */
;
```

RELATED COMMANDS

```
INIT-REG-STS3C
RTRV-DFLTTH-STS3C
RTRV-PM-STS3C
RTRV-PMATTR-ALL
RTRV-PMODE-STS3C
SET-DFLTTH-STS3C
SET-PMATTR-ALL
SET-PMODE-STS3C
SET-TH-STS3C
```

RELATED AUTONOMOUS RESPONSES

```
REPT^EVT^STS3C
```

COMMAND CODE: **RTRV-TH-T1**
COMMAND NAME: **RETRIEVE THRESHOLD T1**

PURPOSE

The RTRV-TH-T1 command retrieves the threshold level setting corresponding to the specified PM collection register (identified by MONTYPE, LOCN, and TMPER) and the specified DS1 port.

The successful response for a RTRV-TH-T1 command contains one line of parsable output data for each parameter threshold level setting being reported, in ascending order (from the lowest specified DS1 AID to the highest specified DS1 AID) for each DS1 AID specified. A line of parsable output data is only displayed if the specified AID is provisioned (via ENT-T1). In addition, no line of parsable output data is displayed if the specified DS1 is embedded within a protection OC3.

A RTRV-TH-T1 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV-TH-T1 : [TID] : AID : [CTAG] : : [MONTYPE] , [LOCN] , [TMPER] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >	
	Default:	<SID>
	Addressing:	None
	Description:	Target Identifier, specifies the network node TID for the command.
AID	DS1_AID:	
	{T1-{1-59392}}	(T1-DS1#)
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)
	{EC1T1-{1-3840}-{1-28}}	(EC1T1-EC1/STS1/DS3#-DS1#)
	{EC1T1-{1-3840}-{1-7}-{1-4}}	(EC1T1-EC1/STS1#-VTGrp#-VT1/DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-28}}	(OC3T1-OC3#-STS1/DS3#-DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3T1-OC3#-STS1#-VTGrp#-VT1/DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}	(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	(OC12T1-OC12#-STM1#-STS1#-VTGrp#-VT1/DS1#)
	Default:	Entry Required
	Addressing:	&&-ranging and &-grouping
	Description:	DS1 AID, identifies the DS1 port.
CTAG	< 1-6 VALID CTAG CHARACTERS >	
	Default:	< System assigned CTAG value >
	Addressing:	None
	Description:	Correlation Tag, associates input command with its output responses.

MONTYPE	{ALL}, NEAR_END_PARAMETERS:{AISS, AISS-P, AISSP, CV-L, CVL, CV-P, CVP, ES-L, ESL, ES-P, ESP, ESA-P, ESAP, ESB-P, ESBP, FC-P, FCP, LOSS, LOSS-L, LOSSL, QRSSS, QRSSS-P, QRSSSP, SAS-P, SASP, SES-L, SESL, SES-P, SESP, UAS-P, UASP}, FAR_END_PARAMETERS:{CSS, CSS-P, CSSP, CV-P, CVP, ES-L, ESL, ES-P, ESP, ESA-P, ESAP, ESB-P, ESBP, FC-P, FCP, SEFS, SEFS-P, SEFSP, SES-P, SESP, UAS-P, UASP} Default: {ALL} Addressing: None Description: Monitored Parameter Type, identifies the type of monitored parameter whose threshold level setting is being retrieved. A parameter may be specified by more than one value, e.g., parameter values may be entered with or without the dash (-). Refer to Appendix F, Monitored PM Parameters for a list of all monitored PM parameters. Values are: <div> <div>ALL</div> <div>All monitored parameter PM registers.</div> <div>AISS, AISS-P, AISSP</div> <div>Alarm Indication Signal Seconds – Path, AISS register. (Near-end only.)</div> <div>CSS, CSS-P, CSSP</div> <div>Controlled Slip Seconds – Path, CSS register. (Far-end only.)</div> <div>CV-L, CVL</div> <div>Coding Violations – Line, CV-L register. (Near-end electrical T1 only.)</div> <div>CV-P, CVP</div> <div>Coding Violations – Path, CV-P register.</div> <div>ES-L, ESL</div> <div>Errored Seconds – Line, ES-L register. (Near-end electrical T1 or Far-end embedded T1.)</div> <div>ES-P, ESP</div> <div>Errored Seconds – Path, ES-P register.</div> <div>ESA-P, ESAP</div> <div>Errored Seconds type A – Path, ESA-P register.</div> <div>ESB-P, ESBP</div> <div>Errored Seconds type B – Path, ESB-P register.</div> <div>FC-P, FCP</div> <div>Failure Count – Path, FC-P register.</div> <div>LOSS, LOSS-L, LOSSL</div> <div>Loss of Signal Seconds – Line, LOSS register. (Near-end electrical T1 only.)</div> <div>QRSSS, QRSSS-P, QRSSSP</div> <div>QRSS Seconds – Path, QRSSS-P register. (Near-end only.)</div> <div>SAS-P, SASP</div> <div>Severe AIS Seconds – Path, SAS-P register. (Near-end only.)</div> <div>SEFS, SEFS-P, SEFSP</div> <div>Severely Errored Frame Seconds, SEFS register. (Far-end only.)</div> <div>SES-L, SESL</div> <div>Severely Errored Seconds – Line, SES-L register. (Near-end electrical T1 only.)</div> <div>SES-P, SESP</div> <div>Severely Errored Seconds – Path, SES-P register.</div> <div>UAS-P, UASP</div> <div>Unavailable Seconds – Path, UAS-P register.</div> </div> Restrictions: RTRV-TH-T1 is denied if the specified MONTYPE value is not supported for the specified LOCN value (e.g., MONTYPE of AISS and LOCN of FEND is entered).
LOCN	{FEND, NEND} Default: < All applicable locations for the selected monitored parameters > Addressing: None Description: Location, specifies whether threshold levels for near-end or far-end monitored parameters are to be retrieved. Values are: <div> <div>FEND</div> <div>Far-End</div> <div>NEND</div> <div>Near-End</div> </div> Restrictions: RTRV-TH-T1 is denied if the specified MONTYPE value is not supported for the specified LOCN value (e.g., MONTYPE of AISS and LOCN of FEND is entered).

TMPER	{15-MIN, 1-DAY}
Default:	{15-MIN}
Addressing:	None
Description:	Time Period, specifies whether threshold levels for the 15-minute or the daily (24 hour) PM collection register for the specified parameter is to be retrieved. Values are:
	15-MIN 15-Minute PM collection register
	1-DAY 1-Day (24 hour) PM collection register

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
"<AID>, T1:<MONTYPE>,<LOCN>,<THLEV>,<TMPER>"
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

AID	DS1_AID:	
	{T1-{1-59392}}	(T1-DS1#)
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)
	{EC1T1-{1-3840}-{1-28}}	(EC1T1-EC1/STS1/DS3#-DS1#)
	{EC1T1-{1-3840}-{1-7}-{1-4}}	(EC1T1-EC1/STS1#-VTGrp#-VT1/DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-28}}	(OC3T1-OC3#-STS1/DS3#-DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3T1-OC3#-STS1#-VTGrp#-VT1/DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}	(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	(OC12T1-OC12#-STM1#-STS1#-VTGrp#-VT1/DS1#)
	DS1 AID, identifies the DS1 port.	

MONTYPE	NEAR_END_PARAMETERS:{AISS, CVL, CVP, ESA-P, ESB-P, ESL, ESP, FC-P, LOSS, QRSSS-P, SAS-P, SESL, SESP, UASP}, FAR_END_PARAMETERS:{CSS, CVP, ESA-P, ESB-P, ESL, ESP, FC-P, SEFS, SESP, UASP}
---------	--

Monitored Parameter Type, identifies the monitored parameter. Refer to Appendix F, Monitored PM Parameters for a list of all monitored PM parameters. Values are:

AISS	AIS Seconds – Path, AISS register.
CSS	Controlled Slip Seconds – Path, CSS register.
CVL	Coding Violations – Line, CV-L register.
CVP	Coding Violations – Path, CV-P register.
ESA-P	Errored Seconds type A – Path, ESA-P register.
ESB-P	Errored Seconds type B – Path, ESB-P register.
ESL	Errored Seconds – Line, ES-L register.
ESP	Errored Seconds – Path, ES-P register.
FC-P	Failure Count – Path, FC-P register.
LOSS	Loss of Signal Seconds – Line, LOSS register.
QRSSS-P	QRSSS – Path, QRSSS-P register.
SAS-P	Severe AIS Seconds – Path, SAS-P register.
SEFS	Severely Errored Frame Seconds, SEFS register.
SESL	Severely Errored Seconds – Line, SES-L register.
SESP	Severely Errored Seconds – Path, SES-P register.
UASP	Unavailable Seconds – Path, UAS-P register.

LOCN	{FEND, NEND} Location, indicates whether threshold levels for near-end or far-end monitored parameters are being reported. Values are: FEND Far-End NEND Near-End
THLEV	{0-4294967295} Threshold Level, indicates the value of the threshold level for the indicated parameter. A value of zero (0) indicates PM threshold crossings are not autonomously reported.
TMPER	{15-MIN, 1-DAY} Time Period, identifies the accumulation time period for the indicated parameter. Values are: 15-MIN 15-Minute PM collection register 1-DAY 1-Day (24 hour) PM collection register

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid /* Invalid location in request message. */ /* Invalid time period in request message. */ /* Invalid montype in request message. */
IIAC	Input, Invalid ACcess identifier /* Invalid AID entered. */ /* AID not in Partition. */
IIPG	Input, Invalid Parameter Grouping /* Invalid location for requested montype. */
SDBE	Status, internal Data Base Error /* Failed to set pointer to FM T1 record. */ /* Error reading T1 threshold database. */

SROF Status, Requested Operation Failed
 /* rpt_file error – <ERRNO>, status = <STATUS> */
 /* Cannot open <FILENAME> */
 /* nrl_rpt_print error – no transaction, msgtype = <MSGTYPE> */
 /* rpt_print error – <ERRNO>, status = <STATUS> */
 /* Failed to convert TPid to an AID string. */
 /* Unable to convert montype <MONTYPE> to string. */
 /* Unable to process montype <MONTYPE>. */
 /* Unable to determine supporting facility entity. */
 /* Unable to determine facility type. */
 /* Could not write to report file. */

EXAMPLES

In the following example, the coding violations, path (CV-P) threshold level settings for the near-end and far-end 15-Minute PM registers are retrieved for DS1 port T3T1-1492-4.

```
RTRV-TH-T1::T3T1-1492-4::CVP,,15-MIN;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71042. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M P71042 COMPLD  
  "T3T1-1492-4,T1:CVP,NEND,,13340,15-MIN"  
  "T3T1-1492-4,T1:CVP,FEND,,13340,15-MIN"  
  /* RTRV-TH-T1::T3T1-1492-4::CVP,,15-MIN [P71042] (1) */  
;
```

RELATED COMMANDS

```
INIT-REG-T1  
RTRV-DFLTTH-T1  
RTRV-PM-T1  
RTRV-PMATTR-ALL  
RTRV-PMODE-T1  
SET-DFLTTH-T1  
SET-PMATTR-ALL  
SET-PMODE-T1  
SET-TH-T1
```

RELATED AUTONOMOUS RESPONSES

```
REPT^EVT^T1
```


COMMAND CODE: **RTRV–TH–T3**
COMMAND NAME: **RETRIEVE THRESHOLD T3**

PURPOSE

The RTRV–TH–T3 command retrieves the threshold level setting corresponding to the specified PM collection register (identified by MONTYPE, LOCN, and TMPER) and the specified DS3 port.

The successful response for a RTRV–TH–T3 command contains one line of parsable output data for each parameter threshold level setting being reported, in ascending order (from the lowest specified DS3 AID to the highest specified DS3 AID) for each DS3 AID specified. A line of parsable output data is only displayed if the specified AID is provisioned (via ENT–T3). In addition, no line of parsable output data is displayed if the specified DS3 is embedded within a protection OC3.

A RTRV–TH–T3 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV–TH–T3 : [TID] : AID : [CTAG] : : [MONTYPE] , [LOCN] , [TMPER] ;

INPUT PARAMETERS

TID	< 1–20 VALID TID CHARACTERS >		
	Default:	<SID>	
	Addressing:	None	
	Description:	Target Identifier, specifies the network node TID for the command.	
AID	DS3_AID:		
	{T3–{1–4800}}		(T3–DS3#)
	{EC1T3–{1–3840}}		(EC1T3–EC1/STS1/DS3#)
	{OC3T3–{1–2240}–{1–3}}		(OC3T3–OC3#–STS1/DS3#)
	{OC12T3–{1–560}–{1–4}–{1–3}}		(OC12T3–OC12#–STM1#–STS1/DS3#)
	Default:	Entry Required	
	Addressing:	&&–ranging and &–grouping	
	Description:	DS3 AID, specifies the DS3 port.	
CTAG	< 1–6 VALID CTAG CHARACTERS >		
	Default:	< System assigned CTAG value >	
	Addressing:	None	
	Description:	Correlation Tag, associates input command with its output responses.	

MONTYPE	{ALL}, NEAR_END_PARAMETERS:{AISS, AISS-P, AISSP, CV-L, CVL, CV-P, CVP, CVCP-P, CVCPP, ES-L, ESL, ES-P, ESP, ESA-L, ESAL, ESA-P, ESAP, ESACP-P, ESACPP, ESB-L, ESDL, ESB-P, ESBP, ESBGP-P, ESBGPP, ESCP-P, ESCPP, FC-P, FCP, LOSS, LOSS-L, LOSSL, SAS-P, SASP, SES-L, SESL, SES-P, SESP, SESCP-P, SESCOP, UAS-P, UASP, UASCP-P, UASCOP}, FAR_END_PARAMETERS:{CVCP-P, CVCPP, ESACP-P, ESACPP, ESBGP-P, ESBGPP, ESCP-P, ESCPP, FCCP-P, FCCPP, SASCP-P, SASCPP, SESCO-P, SESCOP, UASCP-P, UASCOP}
Default:	{ALL}
Addressing:	None
Description:	Monitored Parameter Type, identifies the type of monitored parameter whose threshold level setting is being retrieved. A parameter may be specified by more than one value, e.g., parameter values may be entered with or without the dash (-). Refer to Appendix F, Monitored PM Parameters for a list of all monitored PM parameters. Values are:
ALL	All monitored parameter PM registers.
AISS, AISS-P, AISSP	Alarm Indication Signal Seconds – Path, AISS register. (Near-end only.)
CV-L, CVL	Coding Violations – Line, CV-L register. (Near-end electrical T3 only.)
CV-P, CVP	Coding Violations – Path, CV-P register. (Near-end only.)
CVCP-P, CVCPP	Code Violations, CP-bit parity – Path, CVCP-P register.
ES-L, ESL	Errorred Seconds – Line, ES-L register. (Near-end electrical T3 only.)
ES-P, ESP	Errorred Seconds – Path, ES-P register. (Near-end only.)
ESA-L, ESAL	Errorred Seconds type A – Line, ESA-L register. (Near-end electrical T3 only.)
ESA-P, ESAP	Errorred Seconds type A – Path, ESA-P register. (Near-end only.)
ESACP-P, ESACPP	Errorred Seconds type A, CP-bit parity – Path, ESACP-P register.
ESB-L, ESDL	Errorred Seconds type B – Line, ESB-L register. (Near-end electrical T3 only.)
ESB-P, ESBP	Errorred Seconds type B – Path, ESB-P register. (Near-end only.)
ESBGP-P, ESBGPP	Errorred Seconds type B, CP-bit parity – Path, ESBGP-P register.
ESCP-P, ESCPP	Errorred Seconds, CP-bit parity – Path, ESCP-P register.
FC-P, FCP	Failure Counts – Path, FC-P register. (Near-end only.)
FCCP-P, FCCPP	Failure Counts, CP-bit parity – Path, FCCP-P register. (Far-end only.)
LOSS, LOSS-L, LOSSL	Loss Of Signal Seconds – Line, LOSS register. (Near-end electrical T3 only.)
SAS-P, SASP	Severe AIS Seconds – Path, SAS-P register. (Near-end only.)
SASCP-P, SASCPP	Severe AIS Seconds, CP-bit parity – Path, SASCP-P register. (Far-end only.)
SES-L, SESL	Severely Errorred Seconds – Line, SES-L register. (Near-end electrical T3 only.)
SES-P, SESP	Severely Errorred Seconds – Path, SES-P register. (Near-end only.)
SESCP-P, SESCOP	Severely Errorred Seconds, CP-bit parity – Path, SESCO-P register.

		P register.
	UAS-P, UASP	Unavailable Seconds – Path, UAS-P register. (Near-end only.)
	UASCP-P, UASCPP	Unavailable Seconds, CP-bit parity – Path, UASCP-P register.
	Restrictions:	RTRV-TH-T3 is denied if the specified MONTYPE value is not supported for the specified LOCN value (e.g., MONTYPE of AISS and LOCN of FEND is entered).
LOCN	{FEND, NEND}	
	Default:	< All applicable locations for the selected monitored parameters >
	Addressing:	None
	Description:	Location, specifies whether threshold levels for near-end or far-end monitored parameters are to be retrieved. Values are:
	FEND	Far-End
	NEND	Near-End
	Restrictions:	RTRV-TH-T3 is denied if the specified MONTYPE value is not supported for the specified LOCN value (e.g., MONTYPE of AISS and LOCN of FEND is entered).
TMPER	{15-MIN, 1-DAY}	
	Default:	{15-MIN}
	Addressing:	None
	Description:	Time Period, specifies whether threshold levels for the 15-minute or the daily (24 hour) PM collection register for the specified parameter is to be retrieved. Values are:
	15-MIN	15-Minute PM collection register
	1-DAY	1-Day (24 hour) PM collection register

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
"<AID>, T3:<MONTYPE>,<LOCN>,<THLEV>,<TMPER>"
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

AID	DS3_AID:	
	{T3-{1-4800}}	(T3-DS3#)
	{EC1T3-{1-3840}}	(EC1T3-EC1/STS1/DS3#)
	{OC3T3-{1-2240}-{1-3}}	(OC3T3-OC3#-STS1/DS3#)
	{OC12T3-{1-560}-{1-4}-{1-3}}	(OC12T3-OC12#-STM1#-STS1/DS3#)
	DS3 AID, identifies the DS3 port.	

MONTYPE	<p>NEAR_END_PARAMETERS:{AISS, CVCP-P, CVL, CVP, ESA-L, ESA-P, ESACP-P, ESB-L, ESB-P, ESBCP-P, ESCP-P, ESL, ESP, FC-P, LOSS, SAS-P, SESCO-P, SESL, SESP, UASCP-P, UASP},</p> <p>FAR_END_PARAMETERS:{CVCP-P, ESACP-P, ESBCP-P, ESCP-P, FCCP-P, SASCP-P, SESCO-P, UASCP-P}</p> <p>Monitored Parameter Type, identifies the monitored parameter. Refer to Appendix F, Monitored PM Parameters for a list of all monitored PM parameters. Values are:</p> <table> <tr><td>AISS</td><td>AIS Seconds – Path, AISS register.</td></tr> <tr><td>CVCP-P</td><td>Coding Violations, CP-bit parity – Path, CVCP-P register.</td></tr> <tr><td>CVL</td><td>Coding Violations – Line, CV-L register.</td></tr> <tr><td>CVP</td><td>Coding Violations – Path, CV-P register.</td></tr> <tr><td>ESA-L</td><td>Errored Seconds type A – Line, ESA-L register.</td></tr> <tr><td>ESA-P</td><td>Errored Seconds type A – Path, ESA-P register.</td></tr> <tr><td>ESACP-P</td><td>Errored Seconds type A, CP-bit parity – Path, ESACP-P register.</td></tr> <tr><td>ESB-L</td><td>Errored Seconds type B – Line, ESB-L register.</td></tr> <tr><td>ESB-P</td><td>Errored Seconds type B – Path, ESB-P register.</td></tr> <tr><td>ESBCP-P</td><td>Errored Seconds type B, CP-bit parity – Path, ESBCP-P register.</td></tr> <tr><td>ESCP-P</td><td>Errored Seconds, CP-bit parity – Path, ESCP-P register.</td></tr> <tr><td>ESL</td><td>Errored Seconds – Line, ES-L register.</td></tr> <tr><td>ESP</td><td>Errored Seconds – Path, ES-P register.</td></tr> <tr><td>FC-P</td><td>Failure Counts – Path, FC-P register.</td></tr> <tr><td>FCCP-P</td><td>Failure Counts, CP-bit parity – Path, FC-P register.</td></tr> <tr><td>LOSS</td><td>Loss Of Signal Seconds – Line, LOSS register.</td></tr> <tr><td>SAS-P</td><td>Severe AIS Seconds – Path, SAS-P register.</td></tr> <tr><td>SASCP-P</td><td>Severe AIS Seconds, CP-bit parity – Path, SASCP-P register.</td></tr> <tr><td>SESCO-P</td><td>Severely Errored Seconds, CP-bit parity – Path, SESCO-P register.</td></tr> <tr><td>SESL</td><td>Severely Errored Seconds – Line, SES-L register.</td></tr> <tr><td>SESP</td><td>Severely Errored Seconds – Path, SES-P register.</td></tr> <tr><td>UASCP-P</td><td>Unavailable Seconds, CP-bit parity – Path, UASCP-P register.</td></tr> <tr><td>UASP</td><td>Unavailable Seconds – Path, UAS-P register.</td></tr> </table>	AISS	AIS Seconds – Path, AISS register.	CVCP-P	Coding Violations, CP-bit parity – Path, CVCP-P register.	CVL	Coding Violations – Line, CV-L register.	CVP	Coding Violations – Path, CV-P register.	ESA-L	Errored Seconds type A – Line, ESA-L register.	ESA-P	Errored Seconds type A – Path, ESA-P register.	ESACP-P	Errored Seconds type A, CP-bit parity – Path, ESACP-P register.	ESB-L	Errored Seconds type B – Line, ESB-L register.	ESB-P	Errored Seconds type B – Path, ESB-P register.	ESBCP-P	Errored Seconds type B, CP-bit parity – Path, ESBCP-P register.	ESCP-P	Errored Seconds, CP-bit parity – Path, ESCP-P register.	ESL	Errored Seconds – Line, ES-L register.	ESP	Errored Seconds – Path, ES-P register.	FC-P	Failure Counts – Path, FC-P register.	FCCP-P	Failure Counts, CP-bit parity – Path, FC-P register.	LOSS	Loss Of Signal Seconds – Line, LOSS register.	SAS-P	Severe AIS Seconds – Path, SAS-P register.	SASCP-P	Severe AIS Seconds, CP-bit parity – Path, SASCP-P register.	SESCO-P	Severely Errored Seconds, CP-bit parity – Path, SESCO-P register.	SESL	Severely Errored Seconds – Line, SES-L register.	SESP	Severely Errored Seconds – Path, SES-P register.	UASCP-P	Unavailable Seconds, CP-bit parity – Path, UASCP-P register.	UASP	Unavailable Seconds – Path, UAS-P register.
AISS	AIS Seconds – Path, AISS register.																																														
CVCP-P	Coding Violations, CP-bit parity – Path, CVCP-P register.																																														
CVL	Coding Violations – Line, CV-L register.																																														
CVP	Coding Violations – Path, CV-P register.																																														
ESA-L	Errored Seconds type A – Line, ESA-L register.																																														
ESA-P	Errored Seconds type A – Path, ESA-P register.																																														
ESACP-P	Errored Seconds type A, CP-bit parity – Path, ESACP-P register.																																														
ESB-L	Errored Seconds type B – Line, ESB-L register.																																														
ESB-P	Errored Seconds type B – Path, ESB-P register.																																														
ESBCP-P	Errored Seconds type B, CP-bit parity – Path, ESBCP-P register.																																														
ESCP-P	Errored Seconds, CP-bit parity – Path, ESCP-P register.																																														
ESL	Errored Seconds – Line, ES-L register.																																														
ESP	Errored Seconds – Path, ES-P register.																																														
FC-P	Failure Counts – Path, FC-P register.																																														
FCCP-P	Failure Counts, CP-bit parity – Path, FC-P register.																																														
LOSS	Loss Of Signal Seconds – Line, LOSS register.																																														
SAS-P	Severe AIS Seconds – Path, SAS-P register.																																														
SASCP-P	Severe AIS Seconds, CP-bit parity – Path, SASCP-P register.																																														
SESCO-P	Severely Errored Seconds, CP-bit parity – Path, SESCO-P register.																																														
SESL	Severely Errored Seconds – Line, SES-L register.																																														
SESP	Severely Errored Seconds – Path, SES-P register.																																														
UASCP-P	Unavailable Seconds, CP-bit parity – Path, UASCP-P register.																																														
UASP	Unavailable Seconds – Path, UAS-P register.																																														
LOCN	<p>{FEND, NEND}</p> <p>Location, indicates whether threshold levels for near-end or far-end monitored parameters are being reported. Values are:</p> <table> <tr><td>FEND</td><td>Far-End</td></tr> <tr><td>NEND</td><td>Near-End</td></tr> </table>	FEND	Far-End	NEND	Near-End																																										
FEND	Far-End																																														
NEND	Near-End																																														
THLEV	<p>{0-4294967295}</p> <p>Threshold Level, indicates the value of the threshold level for the indicated parameter. A value of zero (0) indicates PM threshold crossings are not autonomously reported.</p>																																														
TMPER	<p>{15-MIN, 1-DAY}</p> <p>Time Period, identifies the accumulation time period for the indicated parameter. Values are:</p> <table> <tr><td>15-MIN</td><td>15-Minute PM collection register</td></tr> <tr><td>1-DAY</td><td>1-Day (24 hour) PM collection register</td></tr> </table>	15-MIN	15-Minute PM collection register	1-DAY	1-Day (24 hour) PM collection register																																										
15-MIN	15-Minute PM collection register																																														
1-DAY	1-Day (24 hour) PM collection register																																														

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>

```


ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid /* Invalid location in request message. */ /* Invalid time period in request message. */ /* Invalid montype in request message. */
IIAC	Input, Invalid ACcess identifier /* Invalid AID entered. */ /* AID not in Partition. */
IIPG	Input, Invalid Parameter Grouping /* Invalid location for requested montype. */
SDBE	Status, internal Data Base Error /* Failed to set pointer to FM T3 record. */ /* Failed to set file ptr to T3 threshold database. */
SROF	Status, Requested Operation Failed /* rpt_file error – <ERRNO>, status = <STATUS> */ /* Cannot open <FILENAME> */ /* nrl_rpt_print error – no transaction, msgtype = <MSGTYPE> */ /* rpt_print error – <ERRNO>, status = <STATUS> */ /* Failed to convert TPid to an AID string. */ /* Unable to convert montype <MONTYPE> to string. */ /* Unable to process montype <MONTYPE>. */ /* Unable to determine supporting facility entity. */ /* Unable to determine facility type. */ /* Could not write to report file. */

EXAMPLES

In the following example, the coding violations, path (CV-P) threshold level settings for the near-end and far-end 15-Minute PM registers are retrieved for DS3 port T3-1537.

```
RTRV-TH-T3::T3-1537:::CV-P,,15-MIN;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71022. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P71042 COMPLD
  "T3-1537,T3:CVP,NEND,,13340,15-MIN"
/* RTRV-TH-T3::T3-1537:::CV-P,,15-MIN [P71042] (1) */
;
```

RELATED COMMANDS

```
INIT-REG-T3
RTRV-DFLTTH-T3
RTRV-PM-T3
RTRV-PMATTR-ALL
RTRV-PMODE-T3
SET-DFLTTH-T3
SET-PMATTR-ALL
SET-PMODE-T3
SET-TH-T3
```

RELATED AUTONOMOUS RESPONSES

```
REPT^EVT^T3
```


COMMAND CODE: **RTRV–TH–VT1**
COMMAND NAME: **RETRIEVE THRESHOLD VT1**

PURPOSE

The RTRV–TH–VT1 command retrieves the threshold level setting corresponding to the specified PM collection register (identified by MONTYPE, LOCN, and TMPER) and the specified VT1.5 port.

The successful response for a RTRV–TH–VT1 command contains one line of parsable output data for each parameter threshold level setting being reported, in ascending order (from the lowest specified VT1.5 AID to the highest specified VT1.5 AID) for each VT1.5 AID specified. A line of parsable output data is only displayed if the specified AID is provisioned (via ENT–VT1). In addition, no line of parsable output data is displayed if the specified VT1.5 is embedded within a protection OC–3/OC–12.

A RTRV–TH–VT1 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

RTRV–TH–VT1 : [TID] : AID : [CTAG] : : [MONTYPE] , [LOCN] , [TMPER] ;

INPUT PARAMETERS

TID	< 1–20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.		
AID	VT1_AID: {EC1VT1–{1–3840}–{1–7}–{1–4}} (EC1VT1–EC1/STS1#–VTGrp#–VT1.5#) {OC3VT1–{1–2240}–{1–3}–{1–7}–{1–4}} (OC3VT1–OC3#–STS1#–VTGrp#–VT1.5#) {OC12VT1–{1–560}–{1–4}–{1–3}–{1–7}–{1–4}} (OC12VT1–OC12#–STM1#–STS1#–VTGrp#–VT1.5#) Default: Entry Required Addressing: &&–ranging and &–grouping Description: VT1 AID, specifies the VT1.5 port.		
CTAG	< 1–6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.		

MONTYPE	{ALL}, NEAR_END_PARAMETERS:{ALS-V, ALSV, CV-V, CVV, ES-V, ESV, ESA-V, ESAV, ESB-V, ESBV, FC-V, FCV, SES-V, SESV, UAS-V, UASV}, FAR_END_PARAMETERS:{ALS-V, ALSV, CV-V, CVV, ES-V, ESV, ESA-V, ESAV, ESB-V, ESBV, FC-V, FCV, SES-V, SESV, UAS-V, UASV}																		
	Default: {ALL} Addressing: None Description: Monitored Parameter Type, identifies the type of monitored parameter whose threshold level setting is being retrieved. A parameter may be specified by more than one value, e.g., parameter values may be entered with or without the dash (-). Refer to Appendix F, Monitored PM Parameters for a list of all monitored PM parameters. Values are:																		
	<table> <tr> <td>ALL</td><td>All monitored parameter PM registers.</td></tr> <tr> <td>ALS-V, ALSV</td><td>Alarm Indication Signal/Loss of Pointer – VT Path, ALS-V register.</td></tr> <tr> <td>CV-V, CVV</td><td>Coding Violations – VT Path, CV-V register.</td></tr> <tr> <td>ES-V, ESV</td><td>Errored Seconds – VT Path, ES-V register.</td></tr> <tr> <td>ESA-V, ESAV</td><td>Errored Seconds type A – VT Path, ESA-V register.</td></tr> <tr> <td>ESB-V, ESBV</td><td>Errored Seconds type B – VT Path, ESB-V register.</td></tr> <tr> <td>FC-V, FCV</td><td>Failure Counts – VT Path, FC-V register.</td></tr> <tr> <td>SES-V, SESV</td><td>Severely Errored Seconds – VT Path, SES-V register.</td></tr> <tr> <td>UAS-V, UASV</td><td>Unavailable Seconds – VT Path, UAS-V register.</td></tr> </table>	ALL	All monitored parameter PM registers.	ALS-V, ALSV	Alarm Indication Signal/Loss of Pointer – VT Path, ALS-V register.	CV-V, CVV	Coding Violations – VT Path, CV-V register.	ES-V, ESV	Errored Seconds – VT Path, ES-V register.	ESA-V, ESAV	Errored Seconds type A – VT Path, ESA-V register.	ESB-V, ESBV	Errored Seconds type B – VT Path, ESB-V register.	FC-V, FCV	Failure Counts – VT Path, FC-V register.	SES-V, SESV	Severely Errored Seconds – VT Path, SES-V register.	UAS-V, UASV	Unavailable Seconds – VT Path, UAS-V register.
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ESB-V, ESBV	Errored Seconds type B – VT Path, ESB-V register.																		
FC-V, FCV	Failure Counts – VT Path, FC-V register.																		
SES-V, SESV	Severely Errored Seconds – VT Path, SES-V register.																		
UAS-V, UASV	Unavailable Seconds – VT Path, UAS-V register.																		
LOCN	{FEND, NEND}																		
	Default: < All applicable locations for the selected monitored parameters > Addressing: None Description: Location, specifies whether threshold levels for near-end or far-end monitored parameters are to be retrieved. Values are:																		
	<table> <tr> <td>FEND</td><td>Far-End</td></tr> <tr> <td>NEND</td><td>Near-End</td></tr> </table>	FEND	Far-End	NEND	Near-End														
FEND	Far-End																		
NEND	Near-End																		
TMPER	{15-MIN, 1-DAY}																		
	Default: {15-MIN} Addressing: None Description: Time Period, specifies whether threshold levels for the 15-minute or the daily (24 hour) PM collection register for the specified parameter is to be retrieved. Values are:																		
	<table> <tr> <td>15-MIN</td><td>15-Minute PM collection register</td></tr> <tr> <td>1-DAY</td><td>1-Day (24 hour) PM collection register</td></tr> </table>	15-MIN	15-Minute PM collection register	1-DAY	1-Day (24 hour) PM collection register														
15-MIN	15-Minute PM collection register																		
1-DAY	1-Day (24 hour) PM collection register																		

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
"<AID>,VT1:<MONTYPE>,<LOCN>,<THLEV>,<TMPER>"
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

OUTPUT PARAMETERS

AID	VT1_AID:	
	{EC1VT1-{1-3840}-{1-7}-{1-4}}	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)
	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)
	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	
	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)	
	VT1 AID, identifies the VT1.5 port.	

MONTYPE	<p>NEAR_END_PARAMETERS:{ALS-V, CVV, ESV, ESA-V, ESB-V, FC-V, SESV, UASV},</p> <p>FAR_END_PARAMETERS:{ALS-V, CVV, ESV, ESA-V, ESB-V, FC-V, SESV, UASV}</p> <p>Monitored Parameter Type, identifies the monitored parameter. Refer to Appendix F, Monitored PM Parameters for a list of all monitored PM parameters. Values are:</p> <table> <tr> <td>ALS-V</td><td>Alarm Indication Signal/Loss of Pointer – VT Path, ALS-P register.</td></tr> <tr> <td>CVV</td><td>Coding Violations VT Path, CV-V register.</td></tr> <tr> <td>ESV</td><td>Errored Seconds VT Path, ES-V register.</td></tr> <tr> <td>ESA-V</td><td>Errored Seconds type A – VT Path, ESA-V register.</td></tr> <tr> <td>ESB-V</td><td>Errored Seconds type B – VT Path, ESB-V register.</td></tr> <tr> <td>FC-V</td><td>Failure Counts – VT Path, FC-V register.</td></tr> <tr> <td>SESV</td><td>Severely Errored Seconds VT Path, SES-V register.</td></tr> <tr> <td>UASV</td><td>Unavailable Seconds VT Path, UAS-V register.</td></tr> </table>	ALS-V	Alarm Indication Signal/Loss of Pointer – VT Path, ALS-P register.	CVV	Coding Violations VT Path, CV-V register.	ESV	Errored Seconds VT Path, ES-V register.	ESA-V	Errored Seconds type A – VT Path, ESA-V register.	ESB-V	Errored Seconds type B – VT Path, ESB-V register.	FC-V	Failure Counts – VT Path, FC-V register.	SESV	Severely Errored Seconds VT Path, SES-V register.	UASV	Unavailable Seconds VT Path, UAS-V register.
ALS-V	Alarm Indication Signal/Loss of Pointer – VT Path, ALS-P register.																
CVV	Coding Violations VT Path, CV-V register.																
ESV	Errored Seconds VT Path, ES-V register.																
ESA-V	Errored Seconds type A – VT Path, ESA-V register.																
ESB-V	Errored Seconds type B – VT Path, ESB-V register.																
FC-V	Failure Counts – VT Path, FC-V register.																
SESV	Severely Errored Seconds VT Path, SES-V register.																
UASV	Unavailable Seconds VT Path, UAS-V register.																
LOCN	<p>{FEND, NEND}</p> <p>Location, indicates whether threshold levels for near-end or far-end monitored parameters are being reported. Values are:</p> <table> <tr> <td>FEND</td><td>Far-End</td></tr> <tr> <td>NEND</td><td>Near-End</td></tr> </table>	FEND	Far-End	NEND	Near-End												
FEND	Far-End																
NEND	Near-End																
THLEV	<p>{0-4294967295}</p> <p>Threshold Level, indicates the value of the threshold level for the indicated parameter. A value of zero (0) indicates PM threshold crossings are not autonomously reported.</p>																
TMPER	<p>{15-MIN, 1-DAY}</p> <p>Time Period, identifies the accumulation time period for the indicated parameter. Values are:</p> <table> <tr> <td>15-MIN</td><td>15-Minute PM collection register</td></tr> <tr> <td>1-DAY</td><td>1-Day (24 hour) PM collection register</td></tr> </table>	15-MIN	15-Minute PM collection register	1-DAY	1-Day (24 hour) PM collection register												
15-MIN	15-Minute PM collection register																
1-DAY	1-Day (24 hour) PM collection register																

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	<p>Input, Data Not Valid</p> <p>/* Invalid location in request message. */</p> <p>/* Invalid time period in request message. */</p> <p>/* Invalid montype in request message. */</p>
IIAC	<p>Input, Invalid ACcess identifier</p> <p>/* Invalid AID entered. */</p> <p>/* AID not in Partition. */</p>
IIPG	<p>Input, Invalid Parameter Grouping</p> <p>/* Invalid location for requested montype. */</p>
SDBE	<p>Status, internal Data Base Error</p> <p>/* Failed to set pointer to FM VT1 record. */</p> <p>/* Failed to set file ptr to VT1 threshold database. */</p>

```
SROF      Status, Requested Operation Failed
          /* rpt_file error – <ERRNO>, status = <STATUS> */
          /* Cannot open <FILENAME> */
          /* nrl_rpt_print error – no transaction, msgtype = <MSGTYPE> */
          /* rpt_print error – <ERRNO>, status = <STATUS> */
          /* Failed to convert TPid to an AID string. */
          /* Unable to convert montype <MONTYPE> to string. */
          /* Unable to process montype <MONTYPE>. */
          /* Unable to determine supporting facility entity. */
          /* Unable to determine facility type. */
          /* Could not write to report file. */
```

EXAMPLES

In the following example, the coding violations, VT path (CV-V) threshold level settings for the near-end and far-end 15-Minute PM registers are retrieved for VT1.5 port EC1VT1-577-5-2.

```
RTRV-TH-VT1::EC1VT1-577-5-2::CV-V,,15-MIN;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71022. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M  P71042  COMPLD
   "EC1VT1-577-5-2,VT1:CVV,NEND,,4666,15-MIN"
   "EC1VT1-577-5-2,VT1:CVV,FEND,,4666,15-MIN"
/*  RTRV-TH-VT1::EC1VT1-577-5-2::CV-V,,15-MIN [P71042] (1) */
;
```

RELATED COMMANDS

```
INIT-REG-VT1
RTRV-DFLTTH-VT1
RTRV-PM-VT1
RTRV-PMATTR-ALL
RTRV-PMODE-VT1
SET-DFLTTH-VT1
SET-PMATTR-ALL
SET-PMODE-VT1
SET-TH-VT1
```

RELATED AUTONOMOUS RESPONSES

```
REPT^EVT^VT1
```

COMMAND CODE: **RTRV-ULCOMPMPR**
COMMAND NAME: **RETRIEVE UPPER LAYER COMMON
PARAMETERS**

PURPOSE

The RTRV-ULCOMPMPR command retrieves the Layer 3 (network layer) parameters of the SONET Data Communication Channel (DCC) network. This command retrieves the OSI upper layer stack (Layer 3) parameters common to both DCC and LAN.

If the specified DSB is not provisioned, i.e. it is in UAS secondary state, the command completes successfully without producing any output.

A RTRV-ULCOMPMPR command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-ULCOMPMPR: [TID] :AID: [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	EQUIPMENT_AID: {DSB-{6-9, 12-15, 18-21, 24-43, 104-111 , 112-135, 136-141 }-{1, 3}-{1-2}} Default: Entry Required Addressing: None Description: DSB AID, identifies the DSB whose upper layer common OSI stack parameters are being retrieved.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```

    <SID> <YY-MM-DD> <HH:MM:SS>
M   <CTAG> COMPLD
    "<AID>: :L3CSNPINTTMR=<value>,L3DRISISHT=<value>,
    L3ER=<value>,L3IS1LSPBS=<value>,L3IS2LSPBS=<value>,L3ISLEVEL=<value>,
    L3ISPRTRP=<value>,L3LC=<value>,L3MAXLSPGENINT=<value>,
    L3MINBLSPXMTINT=<value>,L3MINLSPXMTINT=<value>,L3POLLESHRT=<value>,
    L3PSNPINTTMR=<value>,L3WAITTM=<value>,TARPLDBFLSHTMR=<value>,
    TARPLDBENTTMR=<value>"
    [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

    <SID> <YY-MM-DD> <HH:MM:SS>
M   <CTAG> COMPLD
    ["<AID>: :L3CSNPINTTMR=<value>,L3DRISISHT=<value>,
    L3ER=<value>,L3IS1LSPBS=<value>,L3IS2LSPBS=<value>,L3ISLEVEL=<value>,
    L3ISPRTRP=<value>,L3LC=<value>,L3MAXLSPGENINT=<value>,
    L3MINBLSPXMTINT=<value>,L3MINLSPXMTINT=<value>,L3POLLESHRT=<value>,
    L3PSNPINTTMR=<value>,L3WAITTM=<value>,TARPLDBFLSHTMR=<value>,
    TARPLDBENTTMR=<value>"]
    [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

On successful completion of RTRV-ULCOMPMD if the DSB is not in an OOS-MA state, the system will compare the Upper Layer Common OSI stack parameters in the database with those on the hardware and if any of the parameters are different, the system will print the parameters on the hardware in the second line, shown as optional above. If the DSB is in an OOS-MA state, only the parameters in the database will be displayed.

OUTPUT PARAMETERS

L3CSNPINTTMR= {1-600}
Layer 3 Complete SNP Interval Timer, specifies the complete SNP Interval Timer in seconds.

L3DRISISHT= {1-665535}
Layer 3 drISIS Hello Timer, specifies the drISIS Hello Timer in seconds.

L3ER= {N, Y}
Layer 3 Error Report, specifies whether an Error Report PDU is generated when a Data PDU is discarded. Values are:

N	No, specifies an Error Report PDU is not generated when a Data PDU is discarded.
Y	Yes, specifies an Error Report PDU is generated when a Data PDU is discarded.

L3IS1LSPBS= {512-1492}
Layer 3 Intermediate System Level 1 LSP Buffer Size, specifies originating IS Level 1 LSP Buffer Size in octets. Changes to this parameter take effect only when the OSI protocol stack is (re)initialized.

L3IS2LSPBS= {512-1492}
Layer 3 Intermediate System Level 2 LSP Buffer Size, specifies originating IS Level 2 LSP Buffer Size in octets. Changes to this parameter take effect only when the OSI protocol stack is (re)initialized.

L3ISPRTREP= {N, Y}
Layer 3 Intermediate System Partition Repair, indicates if the IS Partition Repair function is supported. Changes to this parameter take effect only when the OSI protocol stack is (re)initialized. Values are:
 N No, specifies the IS Partition Repair is not supported.
 Y Yes, specifies the IS Partition Repair is supported.

L3LC= {1–255}
Layer 3 Lifetime Control, sets the Layer 3 Lifetime Control time in units of 500 milliseconds.

L3MAXLSPGENINT= {1–65535}
Layer 3 Maximum LSP Transmission Interval, specifies the maximum LSP Transmission Interval in hundredths of seconds.

L3MINBLSPXMTINT= {1–65535}
Layer 3 Minimum Broadcast LSP Transmission Interval, specifies the minimum broadcast LSP Transmission Interval in seconds.

L3MINLSPXMTINT= {1–255}
Layer 3 Minimum LSP Transmission Interval, specifies the minimum LSP Transmission Interval in seconds.

L3POLLESHRT= {1–65535}
Layer 3 Poll ESH Rate, specifies the Poll ESH rate in seconds.

L3PSNPINTTMR= {1–65535}
Layer 3 Partial SNP Timer Interval, specifies the partial SNP Interval Timer in seconds.

L3ISLEVEL= {1, 2}
Layer 3 Intermediate System Level, specifies the IS Level Provisioning. Changes to this parameter take effect only when the OSI protocol stack is (re)initialized.

L3WAITTM= {1–65535}
Layer 3 Waiting Time, specifies the Waiting Time in seconds.

TARPLDBFLSHTMR= {0–1440}
TID Address Resolution Protocol (TARP) LDB Flush Timer, specifies the TARP LDB Flush Timer in minutes.

TARPLDBENTTMR= {1–10}
TID Address Resolution Protocol (TARP) LDB Entry Timer, specifies the TARP LDB Entry Timer in minutes.

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
SDBE	Status, internal Data Base Error
	/* Unable to read the shelf database. */
	/* Unable to read the LANDCC database. */
SROF	Status, Requested Operation Failed
	/* Shelf is not provisioned. */
	/* Unable to get an AUX buffer. */
	/* Invalid parameter was detected by Level 2 processor. */
	/* Level 2 processor could not communicate with Level 3. */
	/* Invalid return code was detected by NMI software. */
	/* Buffer too small. */
	/* NMI Uninitialized. */
	/* Unknown CS return code. */
	/* No manual address provisioned. */
	/* Invalid State. */
	/* Invalid Id. */
	/* Unsupported database. */
	/* Invalid event function. */
	/* Statistics requested failed. */
	/* Invalid parameter */
	/* OSI layer management circuit not initialized. */
	/* Lower layer OSI management error occurred. */
	/* OSI layer management invalid operation. */
	/* OSI layer management invalid function. */
	/* OSI layer management invlaid password type. */
	/* OSI layer management invalid circuit type. */
	/* OSI layer management unable to get request mailbox handle. */
	/* OSI layer management unable to get response mailbox handle. */
	/* OSI layer management unable to allocate message buffer. */
	/* OSI layer management unable to deallocate message buffer. */
	/* OSI layer management unable to send a message. */
	/* OSI layer management unable to receive message. */
	/* OSI layer management unable to create a lock. */
	/* OSI layer management unable to lock. */
	/* OSI layer management unable to unlock. */
	/* OSI layer management initialization failure. */
	/* OSI layer management deadman timer expired. */
	/* TARP management allocation message failure. */
	/* TARP management deallocation message failure. */
	/* TARP management message send failure. */
	/* TARP management unable to get mailbox handle. */
	/* TARP TID resolved. */
	/* TARP TID resolved locally. */
	/* TARP TID unresolved locally. */
	/* TARP TID unresolved level 1. */
	/* TARP TID error recovery. */
	/* TARP TID unresolved level 2. */
	/* TARP NSAP resolved locally. */
	/* TARP NSAP unresolved locally. */
	/* TARP TEF response. */
	/* TARP TEF timer expired. */
	/* TARP delete cache entry failure. */

```
/* TARP addition cache entry failure. */  
/* TARP cache entry exists. */  
/* TARP cache full. */  
/* TARP cache entry changed. */  
/* TARP addition LDB entry failure. */  
/* TARP LDB entry exists. */  
/* TARP delete LDB entry failure. */  
/* TARP LDB return. */  
/* TARP not started. */  
/* TARP not enabled. */  
/* TARP stopped. */  
/* TARP exceeded max connections. */  
/* TARP provisioned parameters return. */  
/* TARP provisioned pdu fields return. */  
/* TARP exceeded max adjacencies. */  
/* TARP adjacency exists. */  
/* TARP delete adjacency failure. */  
/* TARP management error. */  
/* TARP NSAP error. */  
/* TARP TID error. */  
/* TARP No level1 adjacencies. */  
/* TARP no adjacencies. */  
/* TARP cache return. */  
/* TARP adjacency return. */  
/* Invalid error response was received from L2P. */
```

EXAMPLES

In the following example, the upper layer parameters common to both the LAN or DCC for DSB are being retrieved.

```
RTRV-ULCOMPMR:DSB-9-1-2;  
  
  <SID> <YY-MM-DD> <HH:MM:SS>  
M  Pad567 COMPLD  
  "DSB-9-1-2:L3CSNPINTTMR=10,L3DRISISHT=1,L3ER=N,  
L3IS1LSPBS=512,L3IS2LSPBS=512,L3ISPRTPREP=Y,L3LC=20,  
L3MAXLSPGENINT=9,L3MINBLSPXMTINT=33,L3MINLSPXMTINT=5,L3POLLESHRT=50,  
L3PSNPINTTMR=2,L3ISLEVEL=1,L3WAITTM=60,TARPLDBFLSHTMR=5,TARPLDBENTTMR=5"  
  /* RTRV-ULCOMPMR:DSB-9-1-2 [Pad567] (2) */  
;
```

RELATED COMMANDS

ED-ULCOMPMR

COMMAND CODE: **RTRV-ULLAN**
COMMAND NAME: **RETRIEVE UPPER LAYER LAN
PARAMETERS**

PURPOSE

The RTRV-ULLAN command retrieves the Layer 3 (network layer) parameters of the SONET Data Communication Channel (DCC) network. This command retrieves the OSI upper layer stack (Layer 3) parameters pertaining to the LAN.

If the specified DSB is not provisioned, i.e. it is in UAS secondary state, the command completes successfully without producing any output.

A RTRV-ULLAN command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-ULLAN: [TID] :AID: [CTAG] ;

INPUT PARAMETERS

TID	< 1–20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	EQUIPMENT_AID: {DSB–{6–9, 12–15, 18–21, 24–43, 104–111 , 112–135, 136–141 }–{1, 3}–{1–2}} Default: Entry Required Addressing: None Description: DSB AID, identifies the DSB on the LAN whose lower layer parameters are being retrieved.
CTAG	< 1–6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```

    <SID> <YY-MM-DD> <HH:MM:SS>
M  <CTAG> COMPLD
    "<AID>.:L3DL1ISP=<value>,L3DL2ISP=<value>,
L3ESCTMR=<value>,L3ESISHTMR=<value>,L3ISCTMR=<value>,L3ISISHTMR=<value>,
L3RDTMR=<value>"
    [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

    <SID> <YY-MM-DD> <HH:MM:SS>
M  <CTAG> COMPLD
    ["<AID>.:L3DL1ISP=<value>,L3DL2ISP=<value>,
L3ESCTMR=<value>,L3ESISHTMR=<value>,L3ISCTMR=<value>,L3ISISHTMR=<value>,
L3RDTMR=<value>"]
    [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

On successful completion of RTRV-ULLAN if the DSB is not in an OOS-MA state, the system will compare the Upper Layer LAN parameters in the database with those on the hardware and if any of the parameters are different, the system will print the parameters on the hardware in the second line, shown as optional above. If the DSB is not in an OOS-MA state, only the parameters in the database will be displayed.

OUTPUT PARAMETERS

L3DL1ISP=	{1-127} Layer 3 Designated Level 1 Intermediate System Priority, specifies Designated Level 1 IS Priority.
L3DL2ISP=	{1-127} Layer 3 Designated Level 2 Intermediate System Priority, specifies Designated Level 2 IS Priority.
L3ESCTMR=	{1-200} Layer 3 End System Configuration Timer, specifies ISO 9542 Suggested ES Configuration Timer (ESCT) in seconds.
L3ESISHTMR=	{2-63} Layer 3 End System/Intermediate System Holding Time Multiplier, is used to specify ISO 9542 Holding Time. The value of L3ESISHTMR entered is multiplied by the ISO 9542 IS Configuration Timer, L3ISCTMR, to specify the ISO 9542 Holding Time. (i.e. The L3ESISHTMR factory default of 3 multiplied by the L3ISCTMR factory default of 10 yields a holding time of 30 seconds).
L3ISCTMR=	{1-200} Layer 3 Intermediate System Configuration Timer, specifies ISO 9542 IS Configuration Timer in seconds.
L3ISISHTMR=	{1-65535} Layer 3 Intermediate System/Intermediate System Hello Timer, specifies IS-IS Hello Timer in seconds.
L3RDTMR=	{1-500} Layer 3 Redirect Timer, specifies ISO 9542 Redirect Timer in seconds.

UNSUCCESSFUL RESPONSE FORMAT

```

    <SID> <YY-MM-DD> <HH:MM:SS>
M  <CTAG> DENY
    <ERROR CODE>
    [/* <Informational Error Description Text> */]
    [/* <Expanded Error Code Description> */]
    [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
SDBE	Status, internal Data Base Error
	/* Unable to read the shelf database. */
	/* Unable to read the LANDCC database. */
SROF	Status, Requested Operation Failed
	/* Shelf is not provisioned. */
	/* Unable to get an AUX buffer. */
	/* Invalid parameter was detected by Level 2 processor. */
	/* Level 2 processor could not communicate with Level 3. */
	/* Invalid return code was detected by NMI software. */
	/* Buffer too small. */
	/* NMI Uninitialized. */
	/* Unknown CS return code. */
	/* No manual address provisioned. */
	/* Invalid State. */
	/* Invalid Id. */
	/* Unsupported database. */
	/* Invalid event function. */
	/* Statistics requested failed. */
	/* Invalid parameter */
	/* OSI layer management circuit not initialized. */
	/* Lower layer OSI management error occurred. */
	/* OSI layer management invalid operation. */
	/* OSI layer management invalid function. */
	/* OSI layer management invlaid password type. */
	/* OSI layer management invalid circuit type. */
	/* OSI layer management unable to get request mailbox handle. */
	/* OSI layer management unable to get response mailbox handle. */
	/* OSI layer management unable to allocate message buffer. */
	/* OSI layer management unable to deallocate message buffer. */
	/* OSI layer management unable to send a message. */
	/* OSI layer management unable to receive message. */
	/* OSI layer management unable to create a lock. */
	/* OSI layer management unable to lock. */
	/* OSI layer management unable to unlock. */
	/* OSI layer management initialization failure. */
	/* OSI layer management deadman timer expired. */
	/* TARP management allocation message failure. */
	/* TARP management deallocation message failure. */

```
/* TARP management message send failure. */
/* TARP management unable to get mailbox handle. */
/* TARP TID resolved. */
/* TARP TID resolved locally. */
/* TARP TID unresolved locally. */
/* TARP TID unresolved level 1. */
/* TARP TID error recovery. */
/* TARP TID unresolved level 2. */
/* TARP NSAP resolved locally. */
/* TARP NSAP unresolved locally. */
/* TARP TEF response. */
/* TARP TEF timer expired. */
/* TARP delete cache entry failure. */
/* TARP addition cache entry failure. */
/* TARP cache entry exists. */
/* TARP cache full. */
/* TARP cache entry changed. */
/* TARP addtion LDB entry failure. */
/* TARP LDB entry exists. */
/* TARP delete LDB entry failure. */
/* TARP LDB return. */
/* TARP not started. */
/* TARP not enabled. */
/* TARP stopped. */
/* TARP exceeded max connections. */
/* TARP provisioned parameters return. */
/* TARP provisioned pdu fields return. */
/* TARP exceeded max adjacencies. */
/* TARP adjacency exists. */
/* TARP delete adjacency failure. */
/* TARP management error. */
/* TARP NSAP error. */
/* TARP TID error. */
/* TARP No level1 adjacencies. */
/* TARP no adjacencies. */
/* TARP cache return. */
/* TARP adjacency return. */
/* Invalid error response was received from L2P. */
```

EXAMPLES

In the following example, the upper layer parameters pertaining to the LAN for DSB are being retrieved.

```
RTRV-ULLAN: :DSB-9-1-2;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of Pad567. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pad567 COMPLD
"DSB-9-1-2: :L3DL1ISP=64,L3DL2ISP=64,L3ESCTMR=50,
L3ESISHTMR=25,L3ISCTMR=10,L3ISISHTMR=3,L3RDTMR=180"
/* RTRV-ULLAN: :DSB-9-1-2 [Pad567] (2) */
;
```

RELATED COMMANDS

```
ED-ULLAN
```


COMMAND CODE: **RTRV-ULLDCC**
COMMAND NAME: **RETRIEVE UPPER LAYER LINE DCC**

PURPOSE

The RTRV-ULLDCC command retrieves all the provisioned parameter values supporting Layer 3 (network layer) of the SONET Data Communication Channel (DCC) network. This command retrieves all the provisioned upper layer stack (Layer 3) parameters of the Line DCC.

If the specified OC-3/OC-12 is not provisioned, i.e. it is in UAS secondary state, or if the protection OC-3/OC-12 is specified, the command completes successfully without producing any output.

A RTRV-ULLDCC command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-ULLDCC: [TID] :AID: [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	OC3_AID: {OC3-{1-2240}} (OC3-OC3#) OC12_AID: {OC12-{1-560}} (OC12-OC12#) Default: Entry Required Addressing: None Description: Optical Carrier AID, identifies the OC-3/OC-12 whose upper layer Line DCC parameters are being retrieved.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  "<AID>::L3ESCTMR=<value>,L3ESISHTMR=<value>,
L3ISCTMR=<value>,L3ISISHTMR=<value>"
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  ["<AID>::L3ESCTMR=<value>,L3ESISHTMR=<value>,
L3ISCTMR=<value>,L3ISISHTMR=<value>"]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

On successful completion of RTRV-ULLDCC if the Line DCC is enabled, the system will compare the Upper Layer Line DCC parameters in the database with those on the hardware and if any of the parameters are different, the system will print the parameters on the hardware in the second line, shown as optional above. If the Line DCC is disabled, only the parameters in the database will be displayed.

OUTPUT PARAMETERS

AID	OC3_AID: {OC3-{1-2240}} OC12_AID: {OC12-{1-560}} Optical Carrier AID, identifies the OC-3/OC-12 port.	(OC3-OC3#) (OC12-OC12#)
L3ESCTMR=	{1-200} Layer 3 End System Configuration Timer, specifies ISO 9542 Suggested ES Configuration Timer (ESCT) in seconds.	
L3ESISHTMR=	{2-63} Layer 3 End System/Intermediate System Holding Time Multiplier, is used to specify ISO 9542 Holding Time. The value of L3ESISHTMR entered is multiplied by the ISO 9542 IS Configuration Timer, L3ISCTMR, to specify the ISO 9542 Holding Time. (i.e. The L3ESISHTMR factory default of 3 multiplied by the L3ISCTMR factory default of 10 yields a holding time of 30 seconds).	
L3ISCTMR=	{1-200} Layer 3 Intermediate System Configuration Timer, specifies ISO 9542 IS Configuration Timer in seconds.	
L3ISISHTMR=	{1-65535} Layer 3 Intermediate System/Intermediate System Hello Timer, specifies IS-IS Hello Timer in seconds.	

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
SDBE	Status, internal Data Base Error /*TP Database Error: <ERROR-STRING> for <AID-STRING>*/ /*DCC Database Error: <ERROR-STRING> for record number <RECORD-NUMBER>*/ /*TPidToAidStr() Error: <ERROR-STRING>*/
SROF	Status, Requested Operation Failed /*Could not communicate with the SPB.*/ /*Bad response code returned from SPB (<RESPONSE_CODE>)*/
SSRE	Status, System Resources Exceeded

EXAMPLES

In the following example, the provisioned data of the Line DCC for port OC-3 port OC3-1 is being retrieved.

```
RTRV-ULLDCC: :OC3-1;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of Pad567. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pad567 COMPLD
"OC3-1::L3ESCTMR=50,L3ESISHTMR=25,L3ISCTMR=10,L3ISISHTMR=3"
/* RTRV-ULLDCC::OC3-1 [Pad567] (2) */
;
```

RELATED COMMANDS

ED-ULLDCC

COMMAND CODE: **RTRV-ULSDCC**
COMMAND NAME: **RETRIEVE UPPER LAYER SECTION DCC**

PURPOSE

The RTRV-ULSDCC command retrieves all the provisioned parameter values supporting Layer 3 (network layer) of the SONET Data Communication Channel (DCC) network. This command retrieves all the provisioned upper layer stack (Layer 3) parameters of the Section DCC.

If the specified OC-3/OC-12 is not provisioned, i.e., it is in UAS secondary state, or if the protection OC-3/OC-12 is specified, the command completes successfully without producing any output.

A RTRV-ULSDCC command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-ULSDCC: [TID] :AID: [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	OC3_AID: {OC3-{1-2240}} (OC3-OC3#) OC12_AID: {OC12-{1-560}} (OC12-OC12#) Default: Entry Required Addressing: None Description: Optical Carrier AID, identifies the OC-3/OC-12 whose upper layer Section DCC parameters are being retrieved.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  "<AID>::L3ESCTMR=<value>,L3ESISHTMR=<value>,
L3ISCTMR=<value>,L3ISISHTMR=<value>"
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

On successful completion of RTRV-ULSDCC if the Section DCC is enabled, the system will compare the Upper Layer Section DCC parameters in the database with those on the hardware and if any of the parameters are different, the system will print the parameters on the hardware in the second line, shown as optional above. If the Section DCC is disabled, only the parameters in the database will be displayed.

OUTPUT PARAMETERS

AID	OC3_AID: {OC3-{1-2240}} (OC3-OC3#) OC12_AID: {OC12-{1-560}} (OC12-OC12#) Optical Carrier AID, identifies the OC-3/OC-12 port.
-----	---

L3ESCTMR= {1–200}
Layer 3 End System Configuration Timer, specifies ISO 9542 Suggested ES Configuration Timer (ESCT) in seconds.

L3ESISHTMR= {2–63}
Layer 3 End System/Intermediate System Holding Time Multiplier, is used to specify ISO 9542 Holding Time. The value of L3ESISHTMR entered is multiplied by the ISO 9542 IS Configuration Timer, L3ISCTMR, to specify the ISO 9542 Holding Time (i.e., the L3ESISHTMR factory default of 3 multiplied by the L3ISCTMR factory default of 10 yields a holding time of 30 seconds).

L3ISCTMR= {1–200}
Layer 3 Intermediate System Configuration Timer, specifies ISO 9542 IS Configuration Timer in seconds.

L3ISISHTMR= {1–65535}
Layer 3 Intermediate System/Intermediate System Hello Timer, specifies IS–IS Hello Timer in seconds.

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
SDBE	Status, internal Data Base Error
	/*TP Database Error: <ERROR-STRING> for <AID-STRING>*/
	/*DCC Database Error: <ERROR-STRING> for record number <RECORD-NUMBER>*/
	/*TPidToAidStr() Error: <ERROR-STRING>*/
SROF	Status, Requested Operation Failed
	/*Could not communicate with the SPB.*/
	/*Bad response code returned from SPB (<RESPONSE_CODE>)*/*
SSRE	Status, System Resources Exceeded

EXAMPLES

In the following example, the provisioned data of the Section DCC for port OC–3 port OC3–1 is being retrieved.

```
RTRV-ULSDCC::OC3-1;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of Pad567. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pad567 COMPLD
"OC3-1::L3ESCTMR=50,L3ESISHTMR=25,L3ISCTMR=10,L3ISISHTMR=3"
/* RTRV-ULSDCC::OC3-1 [Pad567] (2) */
;
```

RELATED COMMANDS

ED-ULSDCC

COMMAND CODE: **RTRV-VT1**
COMMAND NAME: **RETRIEVE VT1**

PURPOSE

The RTRV-VT1 command retrieves the provisioned parameter values, supporting I/O circuit pack AID, near end and far end facility alarm conditions, and current PST,SST state for the specified VT1.5 port. The VT1.5 port's current provisioned values and conditions (if provisioned), and state are retrieved from the system database. The command is executed regardless of the state of the port.

The successful response for a RTRV-VT1 command contains one line of parsable output data, in ascending order (from lowest specified VT1 AID to largest specified VT1 AID), for each VT1 AID specified. Values for NEN-DALM and FENDALM are only displayed if a condition exists. Only <AID> and <PST,SST> are displayed for a retrieve of an unprovisioned VT1.5 port or if the specified AID identifies a VT1.5 port embedded within a protection OC-3 or OC-12 which is in normal linear mode. In ring mode (refer to ENT-RNG-OC3 or ENT-RNG-OC12), the RTRV-VT1 command displays all of the output data for VT1.5 ports that are part of an odd-numbered or even-numbered ring OC-3 or OC-12.

A RTRV-VT1 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

RTRV-VT1: [TID] :AID: [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	VT1_AID: {EC1VT1-{1-3840}-{1-7}-{1-4}} (EC1VT1-EC1/STS1#-VTGrp#-VT1.5#) {OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}} (OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#) {OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}} (OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: Identifies the VT1.5 port or a range of ports.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

The output response will be as follows:

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  "<AID>.: [CARDID=<value>, ES=<value> [ , FENDALM=<value>] [ , NENDALM=<value>] ,
VTMAP=<value>, VTPTYEL=<value> [ , TACC=<value>] [ , TAPPPOOL=<value>] :
<PST> [ , <SST> ] ] "
  [ /* <Command Echo> [<CTAG>] (<CID [-VCNUM]>) */ ]
;
```

OUTPUT PARAMETERS

AID	<p>VT1_AID:</p> <p>{EC1VT1-{1-3840}-{1-7}-{1-4}} (EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)</p> <p>{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}} (OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)</p> <p>{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}} (OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)</p> <p>VT1 AID indicates the VT1.5 port to which this line of output data pertains.</p>
CARDID=	<p>EQUIPMENT_AID:</p> <p>{SI48: EP3-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42}-{1, 3}-{1-18}, EP3-{9, 21, 35, 43}-3-{1-18}, EP3-{15, 27, 31, 39}-1-{1-18}, SI36: EP3-{6-8, 12-14}-{1, 3}-{1-14}, EP3-9-3-{1-14}, EP3-15-1-{1-14}}</p> <p>{SI48: ES1-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42}-{1, 3}-{1-18}, ES1-{9, 21, 35, 43}-3-{1-18}, ES1-{15, 27, 31, 39}-1-{1-18}, SI36: ES1-{6-8, 12-14}-{1, 3}-{1-14}, ES1-9-3-{1-14}, ES1-15-1-{1-14}}</p> <p>{O1B-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{2-9, 11-18}}</p> <p>{O4M-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{2-3, 11-12}}</p> <p>{S3M-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{4-9, 13-18}}</p> <p>I/O Equipment Card ID, identifies the VT1.5 port's supporting I/O equipment AID using the equipment AID format.</p>
ES=	<p>{1-32}</p> <p>The first stage M16 module to which the addressed VT1.5 port is connected. Values are:</p> <p>1-32 An integer between 1 and 32 indicating the end stage number.</p>
FENDALM=	<p>{RFI}</p> <p>Far End VT1.5 Alarm Condition, identifies any far end VT1.5 alarm conditions that exist on the VT1.5 port. A FENDALM value is reported only if a FENDALM condition exists. Value is:</p> <p>RFI Far End Remote Failure Indication detected</p>
NENDALM=	<p>{AIS, FLTESC, IDLE, LOP, SLMF}</p> <p>Near End VT1.5 Alarm Condition, identifies any near end VT1.5 alarm conditions that exist on the VT1.5 port. A NENDALM value is reported only when a NENDALM condition exists. Values may be shown combined with an ampersand (&) if more than one value applies to the VT1.5 port at the time of the RTRV-VT1 (i.e., if a RCV and TRMT alarm both exist). Values are:</p> <p>AIS Alarm Indication Signal detected</p> <p>FLTESC Facility Fault Escalation activated</p> <p>IDLE Idle Signal (Unequipped payload) detected</p> <p>LOP Loss of Pointer detected</p> <p>SLMF Signal Label Mismatch detected</p>
VTMAP=	<p>{ALL, ASYNC, VTBYTE}</p> <p>Determines the expected VT1.5 payload type and the value of the expected path signal label. Used for comparison for the Signal Label Mismatch function. Valid values are:</p> <p>ALL Generic VT1.5 format. Contains payload of any mapping format (L1-L3 ≠ 000 bin). Since this value will match all signal label values, mismatch alarms can never be generated.</p> <p>ASYNC VT Asynchronous mapping – VTFLOAT mode. (L1-L3 = 010 bin).</p> <p>VTBYTE VT byte synchronous mapping, applicable for DS0s being mapped into VT SPE – VTFLOAT mode (L1-L3 = 100 hex).</p>

VTPTYEL=	{N, Y} VT1.5 path yellow behavior. Identifies whether VT path yellow or RDI will be sent/received. Valid values are: N No. RDI will be sent/received on appropriate defect state. Y Yes. VT path yellow will be sent/received on appropriate fault condition.
TACC	{N, Y} Test Access port, indicates that this VT1 port (specified by AID) and the AID+1 VT1 port are to be used as a Test Access Port Pairs (TAPP). The port specified by AID becomes FAD A and the port specified by AID+1 becomes FAD B. Values are: N No, the specified VT1 port is not a Test Access port. Y Yes, VT1 ports specified by AID and AID+1 are Test Access ports.
TAPPOOL	{PRIVATE-<USER NAME>, PUBLIC} TAP port Pool, defines whether the TAP port that has been created (by means of TACC=Y) belongs to the pool that is private to the creator of the pool or belongs to a public pool. Values are: PRIVATE-<USER NAME> Private—User name. The TAP port pair that has been created is private to the user who created the TAP pair—Name of the user who owns the pool. PUBLIC Public. The TAP pair belongs to the public pool of the system. It can be accessed by any user who has access to the Test Access commands.
PST	{IS, OOS-AU, OOS-AUMA, OOS-MA} Primary State, indicates the current primary state of the VT1.5 port. Refer to Appendix G, State Transitions for a definition of state names and description of state transitions. Values are: IS In-Service OOS-AU Out-Of-Service—Autonomous OOS-AUMA Out-Of-Service—Autonomous and Management OOS-MA Out-Of-Service—Management
SST	{ACT, BUSY, DSBLD, FAF, LPBK, MT, PMI, STBY, TRM, UAS, WRK} Secondary State, indicates any secondary states associated with the VT1.5 port. SST values may be shown in the output combined with an ampersand (&) if more than one value applies to the VT1.5 port at the time of the RTRV-VT1. Refer to Appendix G, State Transitions for a definition of state names and description of state transitions. Values are: ACT Active BUSY Busy DSBLD Disabled FAF Facility Failure LPBK Loopback MT Maintenance PMI Performance Monitoring Inhibited ROLL Roll Operation in-progress SDEE Supported Entity Exists SGEO Supporting Entity Outage STBY Standby TRM Terminated TS Test in-progress UAS Unassigned WRK Working. If set on Working path, the Working path is carrying service. If set on Protection path, the Protection path is carrying service.

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
SDBE	Status, internal Data Base Error
	/* GetAidEntry() Error: <ERROR-STRING> */
	/* TP Database Error: <ERROR-STRING> for <AID-STRING> */
	/* TPidToAidStr() Error: <ERROR-STRING> */
	/* TPidToTbss() Error: <ERROR-STRING> */
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, the provisioning data for VT1.5 port EC1VT1-1-1-1 is retrieved.

```
RTRV-VT1::EC1VT1-1-1-1;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of Pad567. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pad567 COMPLD
"EC1VT1-1-1-1::CARDID=EP3-6-1-2,VTPTYEL=N,VTMAP=ASYNC,TACC=N,ES=9:IS"
/* RTRV-VT1::EC1VT1-1-1-1 [Pad567] (2) */
;
```

In the following example, the provisioning data for VT1.5 ports EC1VT1-10-1-1 through EC1VT1-10-1-4 is retrieved.

```
RTRV-VT1::EC1VT1-10-1-1&&-4;
```

The output response, shown below, assumes CID 6 was used to enter the command and a system generated CTAG value of Pab124. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pab124 COMPLD
"EC1VT1-10-1-1::CARDID=EP3-6-3-5,VTPTYEL=N,VTMAP=ASYNC,TACC=N,ES=3:IS"
"EC1VT1-10-1-2::CARDID=EP3-6-3-5,VTPTYEL=N,VTMAP=ASYNC,TACC=N,
NENDALM=LOF,ES=3:OOS-AU,FAF"
"EC1VT1-10-1-3::OOS-MA,UAS"
"EC1VT1-10-1-4::CARDID=EP3-6-3-5,VTPTYEL=N,VTMAP=ASYNC,TACC=N,
NENDALM=LOS,ES=3:IS,AINS"
/* RTRV-VT1::EC1VT1-10-1-1&&-4 [Pab124] (6) */
;
```

RELATED COMMANDS

```
DLT-VT1
ED-VT1
ENT-VT1
RMV-VT1
RST-VT1
RTRV-DFLT-VT1
SET-DFLT-VT1
```


COMMAND CODE: **RTRV-XIDMISM**
COMMAND NAME: **RETRIEVE CONNECT ID MISMATCH**

PURPOSE

The RTRV-XIDMISM command retrieves the cross-connected facility AIDs (FROM and TO) for each port in an I/O shelf or I/O quad for which an internal Connection ID Mismatch currently exists, or retrieves any historical Connection ID Mismatch data that is stored in the Connection ID Mismatch (circular) log file.

When a XIDMISM (Connection ID Mismatch) condition is set, the RTRV-XIDMISM command is used to identify the FROM and TO facility AIDs of the associated cross-connection so that a FLTLOC-PATH-rr (where rr is STS1, STS3C, T1, T3, or VT1) command can be used to obtain fault isolation data pertaining to the XIDMISM condition.

If RTRVTYPE of CURR is entered, the successful response for a RTRV-XIDMISM command contains one line of non-parsable output data, in ascending order (from lowest TO AID to largest TO AID), for each cross-connected port in the specified I/O shelf or I/O Quad for which an internal Connection ID Mismatch currently exists. No line of non-parsable output data is provided for ports that are not cross-connected or are not detecting a Connection ID Mismatch.

If RTRVTYPE of HIST is entered, the successful response for a RTRV-XIDMISM command contains two or more lines of non-parsable output data for each occurrence of Connection ID Mismatch being reported from the Connection ID Mismatch log file – one line for the time-stamp associated with the Connection ID Mismatch being reported and one line for each cross-connected port in the specified I/O shelf or I/O Quad for which an internal Connection ID Mismatch was logged.

A RTRV-XIDMISM command is denied if:

- The specified I/O Shelf or I/O Quad is not provisioned.
- The specified RTRVTYPE is CURR and DISPTYPE of CLRDATA is entered.
- An invalid parameter value is entered.

INPUT FORMAT

RTRV-XIDMISM: [TID] :AID: [CTAG] :: [RTRVTYPE] , [DISPTYPE] ;

INPUT PARAMETERS

TID	< 1–20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	EQUIPMENT_AID: {SHELF-{6–9, 12–15, 18–21, 24–43, 104–111, 136–141 }-{1, 3}-1} {QUAD-{44–63}-{1–4}-{1–4}} Default: Entry Required Addressing: None Description: Equipment AID, identifies the equipment entity.
CTAG	< 1–6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

RTRVTYPE	{CURR, HIST}
	Default: {CURR}
	Addressing: None
	Description: Retrieval Type, specifies whether current or historical XIDMISM data is retrieved. Values are:
	<div style="display: flex; justify-content: space-between;"> <div style="width: 150px;">CURR</div> <div>Current, specifies current XIDMISM data is retrieved.</div> </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 150px;">HIST</div> <div>Historical, specifies historical XIDMISM data is retrieved.</div> </div>
	Restrictions: RTRV-XIDMISM is denied if the specified RTRVTYPE is CURR and DISPTYPE of CLRDATA is entered.
DISPTYPE	{ALLDATA, CLRDATA, CNTONLY}
	Default: {ALLDATA}
	Addressing: None
	Description: Display Type, specifies whether only the count of the various XIDMISMs are displayed, all the information about the XIDMISMs are displayed, or the XIDMISM data is cleared. Values are:
	<div style="display: flex; justify-content: space-between;"> <div style="width: 150px;">ALLDATA</div> <div>All Data, specifies the entire data about the XIDMISM is displayed.</div> </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 150px;">CLRDATA</div> <div>Clear Data, specifies all the data in the XIDMISM database for the specified AID is cleared.</div> </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 150px;">CNTONLY</div> <div>Count Only, specifies only the count of the XIDMISM is displayed.</div> </div>
	Restrictions: RTRV-XIDMISM is denied if DISPTYPE of CLRDATA is entered and the specified RTRVTYPE is CURR.

SUCCESSFUL RESPONSE FORMAT

The following successful response format is generated when DISPTYPE=ALLDATA:

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <OCR_DAT_TM> */]
  [/ * ORIG0CNT=<ORIG0_CNT>,ORIG1CNT=<ORIG1_CNT>,XIDOCNT=<XIDO_CNT>,
XID1CNT=<XID1_CNT> */]
  [/ * <FROM>,<TO>,<FROMTYPE>,<TOTYPE>,<FROM_EQPT>,<TO_EQPT>,
<XID0>,<XID1> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

The following successful response format is generated when DISPTYPE=CLRDATA:

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

The following successful response format is generated when DISPTYPE=CNTONLY:

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <OCR_DAT_TM> */]
  [/ * ORIG0CNT=<ORIG0_CNT>,ORIG1CNT=<ORIG1_CNT>,XIDOCNT=<XIDO_CNT>,
XID1CNT=<XID1_CNT> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

OUTPUT PARAMETERS

OCR_DAT_TM {YY-MM-DD HH:MM:SS{ {00-99}-{1-12}-{1-31} {00-23}:{00-59}:{00-59} } }

Occurrence Date and Time, identifies the date and time when a Connection ID Mismatch is logged in the Connection ID Mismatch (circular) log file. The format for OCR_DAT_TM is <YEAR> - <MONTH> - <DAY>^<HOUR>:<MINUTE>:<SECOND> (where ^ indicates a space). This line of output is only reported if RTRVTYPE of HIST is entered.

FROM	DS1_AID:	
	{T1-{1-59392}}	(T1-DS1#)
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)
	{EC1T1-{1-3840}-{1-28}}	(EC1T1-EC1/STS1/DS3#-DS1#)
	{EC1T1-{1-3840}-{1-7}-{1-4}}	(EC1T1-EC1/STS1#-VTGrp#-VT1/DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3T1-OC3#-STS1#-VTGrp#-VT1/DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-28}}	(OC3T1-OC3#-STS1/DS3#-DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}	(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	
	(OC12T1-OC12#-STM1#-STS1#-VTGrp#-VT1/DS1#)	
	DS3_AID:	
	{T3-{1-4800}}	(T3-DS3#)
	{EC1T3-{1-3840}}	(EC1T3-EC1/STS1/DS3#)
	{OC3T3-{1-2240}-{1-3}}	(OC3T3-OC3#-STS1/DS3#)
	{OC12T3-{1-560}-{1-4}-{1-3}}	(OC12T3-OC12#-STM1#-STS1/DS3#)
	STS1_AID:	
	{EC1STS1-{1-3840}}	(EC1STS1-EC1/STS1#)
	{OC3STS1-{1-2240}-{1-3}}	(OC3STS1-OC3#-STS1#)
	{OC12STS1-{1-560}-{1-4}-{1-3}}	(OC12STS1-OC12#-STM1#-STS1#)
	STS3C_AID:	
	{OC3STS3C-{1-2240}}	(OC3STS3C-OC3#/STS3C#)
	{OC12STS3C-{1-560}-{1-4}}	(OC12STS3C-OC12#-STM1/STS3C#)
	VT1_AID:	
	{EC1VT1-{1-3840}-{1-7}-{1-4}}	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)
	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)
	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	
	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)	
	Facility AID, indicates the FROM (receive side from the network) port of the cross-connection for which a Connection ID Mismatch is detected.	

TO	DS1_AID:	
	{T1-{1-59392}}	(T1-DS1#)
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)
	{EC1T1-{1-3840}-{1-28}}	(EC1T1-EC1/STS1/DS3#-DS1#)
	{EC1T1-{1-3840}-{1-7}-{1-4}}	(EC1T1-EC1/STS1#-VTGrp#-VT1/DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3T1-OC3#-STS1#-VTGrp#-VT1/DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-28}}	(OC3T1-OC3#-STS1/DS3#-DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}	(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	
	(OC12T1-OC12#-STM1#-STS1#-VTGrp#-VT1/DS1#)	
	DS3_AID:	
	{T3-{1-4800}}	(T3-DS3#)
	{EC1T3-{1-3840}}	(EC1T3-EC1/STS1/DS3#)
	{OC3T3-{1-2240}-{1-3}}	(OC3T3-OC3#-STS1/DS3#)
	{OC12T3-{1-560}-{1-4}-{1-3}}	(OC12T3-OC12#-STM1#-STS1/DS3#)
	STS1_AID:	
	{EC1STS1-{1-3840}}	(EC1STS1-EC1/STS1#)
	{OC3STS1-{1-2240}-{1-3}}	(OC3STS1-OC3#-STS1#)
	{OC12STS1-{1-560}-{1-4}-{1-3}}	(OC12STS1-OC12#-STM1#-STS1#)
	STS3C_AID:	
	{OC3STS3C-{1-2240}}	(OC3STS3C-OC3#/STS3C#)
	{OC12STS3C-{1-560}-{1-4}}	(OC12STS3C-OC12#-STM1/STS3C#)
	VT1_AID:	
	{EC1VT1-{1-3840}-{1-7}-{1-4}}	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)
	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)
	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	
	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)	
	Facility AID, indicates the TO (transmit side to the network) port of the cross-connection for which a Connection ID Mismatch is detected.	
FROMTYPE	{STS1, STS3C, T1, T3, VT1}	
	AID Type, identifies the type of AID of the FROM port. Values are:	
	STS1	STS-1 Port
	STS3C	STS-3C Port
	T1	DS1 Port
	T3	DS3 Port
	VT1	VT1.5 Port
TOTYPE	{STS1, STS3C, T1, T3, VT1}	
	AID Type, identifies the type of AID of the TO port. Values are:	
	STS1	STS-1 Port
	STS3C	STS-3C Port
	T1	DS1 Port
	T3	DS3 Port
	VT1	VT1.5 Port

FROM_EQPT EQUIPMENT_AID:
 {DSI-{44-63}-{1-4}-{1-7, 9-15, 17-23, 25-31}}
 {SI48: EP3-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42,
 136-141}-{1, 3}-{2-9, 11-18},
 EP3-{9, 21, 35, 43}-3-{2-9, 11-18},
 EP3-{15, 27, 31, 39}-1-{2-9, 11-18}}
 {SI36: EP3-{6-8, 12-14}-{1, 3}-{2-7, 9-14},
 EP3-9-3-{2-7, 9-14},
 EP3-15-1-{2-7, 9-14}}
 {SI48: ES1-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42}-{1, 3}-{2-9, 11-18},
 ES1-{9, 21, 35, 43}-3-{2-9, 11-18},
 ES1-{15, 27, 31, 39}-1-{2-9, 11-18}}
 {SI36: ES1-{6-8, 12-14}-{1, 3}-{2-7, 9-14},
 ES1-9-3-{2-7, 9-14},
 ES1-15-1-{2-7, 9-14}}
 {HMU-{44-53}-{1-4}-{1-8}}
 {LMU-{44-53}-{1-4}-{1-7, 9-15, 17-23, 25-31}}
 {O1B-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{2-9, 11-18}}
 From Equipment AID, identifies the I/O equipment associated with the FROM port.

TO_EQPT EQUIPMENT_AID:
 {DSI-{44-63}-{1-4}-{1-7, 9-15, 17-23, 25-31}}
 {SI48: EP3-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42,
 136-141}-{1, 3}-{2-9, 11-18},
 EP3-{9, 21, 35, 43}-3-{2-9, 11-18},
 EP3-{15, 27, 31, 39}-1-{2-9, 11-18}}
 {SI36: EP3-{6-8, 12-14}-{1, 3}-{2-7, 9-14},
 EP3-9-3-{2-7, 9-14},
 EP3-15-1-{2-7, 9-14}}
 {SI48: ES1-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42}-{1, 3}-{2-9, 11-18},
 ES1-{9, 21, 35, 43}-3-{2-9, 11-18},
 ES1-{15, 27, 31, 39}-1-{2-9, 11-18}}
 {SI36: ES1-{6-8, 12-14}-{1, 3}-{2-7, 9-14},
 ES1-9-3-{2-7, 9-14},
 ES1-15-1-{2-7, 9-14}}
 {HMU-{44-53}-{1-4}-{1-8}}
 {LMU-{44-53}-{1-4}-{1-7, 9-15, 17-23, 25-31}}
 {O1B-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{2-9, 11-18}}
 To Equipment AID, identifies the I/O equipment detecting the Connection ID Mismatch
 (i.e., associated with the TO port).

XID0 {XID0, <NoVal>
 Connection ID Mismatch, Copy 0, indicates whether a Copy 0 Connection ID mismatch
 was detected. Values are:
 XID0 Copy 0 Connection ID mismatch was detected.
 <NoVal> No Value, Copy 0 Connection ID mismatch was not detected.

XID1 {XID1, <NoVal>
 Connection ID Mismatch, Copy 1, indicates whether a Copy 1 Connection ID mismatch
 was detected. Values are:
 XID1 Copy 1 Connection ID mismatch was detected.
 <NoVal> No Value, Copy 1 Connection ID mismatch was not detected.

ORIG0_CNT= {0-1344}
 Origination Count, Copy 0, indicates the number of connections originating on Copy 0 in
 the I/O shelf or quad that are bad.

ORIG1_CNT= {0–1344}
Origination Count, Copy 1, indicates the number of connections originating on Copy 1 in the I/O shelf or quad that are bad.

XID0_CNT= {0–1344}
Connection ID Mismatch, Copy 0, Count, indicates the number of connections terminating on Copy 0 in the I/O shelf or quad that are bad.

XID1_CNT= {0–1344}
Connection ID Mismatch, Copy 1, Count, indicates the number of connections terminating on Copy 1 in the I/O shelf or quad that are bad.

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/ * <Informational Error Description Text> */]
[/ * <Expanded Error Code Description> */]
[/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

ENRE	Equipage, Not Recognized Equipage /* The command was rejected. */ /* Invalid or unassigned equipment identifier specified. */
IDNV	Input, Data Not Valid /* The command was rejected. */ /* Invalid parameter or option specified in command. */ /* Unable to retrieve RTRVTYPE parameter. */
IIAC	Input, Invalid ACcess identifier
SDBE	Status, internal Data Base Error /* Unable to create RTRV-XIDMISM report file. */ /* Unable to open RTRV-XIDMISM report file. */ /* Unable to print RTRV-XIDMISM report file. */ /* Unable to get XIDMISM database index. */ /* Unable to read XIDMISM database record <DB record num>, err=<error num>. */
SNVS	Status, Not in Valid State
SROF	Status, Requested Operation Failed /* Invalid or unassigned equipment identifier specified. */ /* Memory allocation error */ /* Timeout waiting for response from level two processor. */ /* Invalid number of I/O cards (<number of I/O cards>) in upload message. */ /* Invalid number of T1/VT1 (<number of T1/VT1>) per card in upload message. */ /* Failed to convert T1 GlbTPNum=0 of SPB/IPU=<level 2 processor adrs> to TPNum. */ /* Failed to get shelf information for T1 TPNum <T1 Termination Point number>. */ /* Unable to retrieve XIDMISM database index for eqpt id <eqpt_id>. */
SSRE	Status, System Resources Exceeded

EXAMPLES

The following example illustrates the command and associated response when an XIDMISM condition is set on QUAD-62-2-1.

```
RTRV-XIDMISM: :QUAD-62-2-1;
```

The output response, shown below, assumes CID 9–1 was used to enter the command and a system generated CTAG value of P49250. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P42950 COMPLD
/* ORIG0CNT=1,ORIG1CNT=0, XID0CNT=1,XID1CNT=0 */
/* T1-46945,T1-55568,T1,T1,DSI-59-4-13,DSI-62-2-2,XID0, */
/* RTRV-XIDMISM::QUAD-62-2-1 [P49250] (9-1) */
;
```

The following example illustrates the command and associated response when historical Connection ID Mismatch data is retrieved for QUAD-62-2-1.

```
RTRV-XIDMISM::QUAD-62-2-1::HIST;
```

The output response, shown below, assumes CID 9–1 was used to enter the command and a system generated CTAG value of P49261. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P49261 COMPLD
/* 00-04-20 04:43:06 */
/* ORIG0CNT=0,ORIG1CNT=2,XID0CNT=0,XID1CNT=7 */
/* T3T1-1915-8,T1-55564,T1,T1,EP3-19-3-17,DSI-62-2-2,,XID1 */
/* EC1T1-2743-8,T1-55573,T1,T1,EP3-40-3-4,DSI-62-2-3,,XID1 */
/* T3T1-1409-21,T1-55574,T1,T1,EP3-12-3-7,DSI-62-2-3,,XID1 */
/* T3T1-3919-5,T1-55582,T1,T1,EP3-42-3-13,DSI-62-2-4,,XID1 */
/* T3T1-1429-12,T1-55592,T1,T1,EP3-12-3-15,DSI-62-2-5,,XID1 */
/* T3T1-1433-9,T1-55597,T1,T1,EP3-12-3-16,DSI-62-2-6,,XID1 */
/* T3T1-1874-16,T1-55607,T1,T1,EP3-19-3-2,DSI-62-2-7,,XID1 */
/* 00-04-20 05:08:45 */
/* ORIG0CNT=0,ORIG1CNT=0,XID0CNT=0,XID1CNT=2 */
/* T3T1-1409-21,T1-55574,T1,T1,EP3-12-3-7,DSI-62-2-3,,XID1 */
/* EC1VT1-777-3-2,T1-55586,VT1,T1,ES1-18-1-4,DSI-62-2-5,,XID1 */
/* 00-04-20 05:48:38 */
/* ORIG0CNT=3,ORIG1CNT=0,XID0CNT=2,XID1CNT=0 */
/* EC1T1-2743-8,T1-55573,T1,T1,EP3-40-3-4,DSI-62-2-3,XID0, */
/* T3T1-3919-5,T1-55582,T1,T1,EP3-42-3-13,DSI-62-2-4,XID0, */
/* 00-04-20 10:19:36 */
/* ORIG0CNT=0,ORIG1CNT=0,XID0CNT=0,XID1CNT=0 */
/* 00-04-24 15:51:26 */
/* ORIG0CNT=0,ORIG1CNT=0,XID0CNT=1,XID1CNT=0 */
/* T1-46945,T1-55568,T1,T1,DSI-59-4-13,DSI-62-2-2,XID0, */
/* RTRV-XIDMISM::QUAD-62-2-1::HIST [P49261] (9-1) */
;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P49046. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
APS672 98-07-18 13:06:07
M P49046 COMPLD
/* ORIGCNT= 0,ORIG1CNT= 0, XID0CNT= 28,XID1CNT= 0 */
/* T1-3292,T3T1-1162-1,T1,T1,DSI-45-1-28,EP3-8-1-5,XID0, */
/* T1-3293,T3T1-1162-2,T1,T1,DSI-45-1-28,EP3-8-1-5,XID0, */
/* T1-3294,T3T1-1162-3,T1,T1,DSI-45-1-28,EP3-8-1-5,XID0, */
/* T1-3295,T3T1-1162-4,T1,T1,DSI-45-1-28,EP3-8-1-5,XID0, */
/* T1-3296,T3T1-1162-5,T1,T1,DSI-45-1-28,EP3-8-1-5,XID0, */
/* T1-3297,T3T1-1162-6,T1,T1,DSI-45-1-29,EP3-8-1-5,XID0, */
/* T1-3298,T3T1-1162-7,T1,T1,DSI-45-1-29,EP3-8-1-5,XID0, */
/* T1-3299,T3T1-1162-8,T1,T1,DSI-45-1-29,EP3-8-1-5,XID0, */
/* T1-3300,T3T1-1162-9,T1,T1,DSI-45-1-29,EP3-8-1-5,XID0, */
/* T1-3301,T3T1-1162-10,T1,T1,DSI-45-1-29,EP3-8-1-5,XID0, */
/* T1-3302,T3T1-1162-11,T1,T1,DSI-45-1-29,EP3-8-1-5,XID0, */
/* T1-3303,T3T1-1162-12,T1,T1,DSI-45-1-29,EP3-8-1-5,XID0, */
/* T1-3304,T3T1-1162-13,T1,T1,DSI-45-1-29,EP3-8-1-5,XID0, */
/* T1-3305,T3T1-1162-14,T1,T1,DSI-45-1-30,EP3-8-1-5,XID0, */
/* T1-3306,T3T1-1162-15,T1,T1,DSI-45-1-30,EP3-8-1-5,XID0, */
/* T1-3307,T3T1-1162-16,T1,T1,DSI-45-1-30,EP3-8-1-5,XID0, */
/* T1-3308,T3T1-1162-17,T1,T1,DSI-45-1-30,EP3-8-1-5,XID0, */
/* T1-3309,T3T1-1162-18,T1,T1,DSI-45-1-30,EP3-8-1-5,XID0, */
/* T1-3310,T3T1-1162-19,T1,T1,DSI-45-1-30,EP3-8-1-5,XID0, */
/* T1-3311,T3T1-1162-20,T1,T1,DSI-45-1-30,EP3-8-1-5,XID0, */
/* T1-3312,T3T1-1162-21,T1,T1,DSI-45-1-30,EP3-8-1-5,XID0, */
/* T1-3313,T3T1-1162-22,T1,T1,DSI-45-1-31,EP3-8-1-5,XID0, */
/* T1-3314,T3T1-1162-23,T1,T1,DSI-45-1-31,EP3-8-1-5,XID0, */
/* T1-3315,T3T1-1162-24,T1,T1,DSI-45-1-31,EP3-8-1-5,XID0, */
/* T1-3316,T3T1-1162-25,T1,T1,DSI-45-1-31,EP3-8-1-5,XID0, */
/* T1-3317,T3T1-1162-26,T1,T1,DSI-45-1-31,EP3-8-1-5,XID0, */
/* T1-3318,T3T1-1162-27,T1,T1,DSI-45-1-31,EP3-8-1-5,XID0, */
/* T1-3319,T3T1-1162-28,T1,T1,DSI-45-1-31,EP3-8-1-5,XID0, */
/* RTRV-XIDMISM::SHELF-8-1-1 [P49046] (1) */
```

RELATED COMMANDS

DGN-EQPT
FLTLOC-PATH-STS1
FLTLOC-PATH-STS3C
FLTLOC-PATH-T1
FLTLOC-PATH-T3
FLTLOC-PATH-VT1
RTRV-ALM-ALL
RTRV-ALM-EQPT
RTRV-COND-ALL
RTRV-COND-EQPT
RTRV-DGN-STATUS
RTRV-FL-EQPT
RTRV-PATH-STS1
RTRV-PATH-STS3C
RTRV-PATH-T1
RTRV-PATH-T3
RTRV-PATH-VT1

RELATED AUTONOMOUS RESPONSES

REPT^ALM^EQPT

REPT^EVT^EQPT

COMMAND CODE: **SCHED-PMREPT-ALL**
COMMAND NAME: **SCHEDULE PERFORMANCE
MONITORING REPORT ALL**

PURPOSE

The SCHED-PMREPT-ALL command enables or disables a 1-DAY PM report for all monitored PM parameters and sets the time-of-day the autonomous REPT^PM^rr messages containing the 1-DAY PM report is generated. Only monitored PM parameters that have PM reporting enabled (ports without an INHPMREPT condition type – refer to ALW-PMREPT-rr) are reported in the REPT^PM^rr messages.

A SCHED-PMREPT-ALL command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

SCHED-PMREPT-ALL: [TID] : : [CTAG] : : [PMMODE] , [RPTIME] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
PMMODE	{OFF, ON} Default: {OFF} Addressing: None Description: PM Mode, specifies whether a 1-DAY PM report is created and reported in a REPT^PM^rr autonomous message. Values are: OFF Off, specifies that a 1-DAY PM report is not generated. ON On, specifies that a 1-DAY PM report is to be created and reported in a REPT^PM^rr autonomous message at the time specified by the RPTIME parameter. Restrictions: SCHED-PMREPT-ALL is denied if PMMODE of OFF (or no value) is entered and a value is entered for RPTIME.
RPTIME	{HOUR-MINUTE:{00-23} – {00-59} } Default: {00-00} (Midnight) Addressing: None Description: Report Time, specifies the time of day the autonomous REPT^PM^rr message containing the scheduled PM report is generated. The format of RPTIME is <HOUR_OF_DAY> – <MINUTE_OF_HOUR> where {00-00} represents midnight. Restrictions: SCHED-PMREPT-ALL is denied if a value is entered for RPTIME and PMMODE of OFF (or no value) is entered.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
/* <PMMODE>,<RPTIME> */
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

PMMODE	{OFF, ON} PM Mode, identifies whether a 1-DAY PM report is created and reported in a REPT^PM^rr autonomous message. Values are: OFF Off, indicates that the 1-DAY PM report is not generated. ON On, indicates that a 1-DAY PM report is to be created and reported in a REPT^PM^rr autonomous message at the time specified by the RPTIME parameter.
RPTIME	{ <small>HOUR</small> - <small>MINUTE</small> :{00-23} - {00-59} } Report Time, identifies the time of day the autonomous REPT^PM^rr message containing the scheduled PM report is generated. The format of RPTIME is <HOUR_OF_DAY> - <MINUTE_OF_HOUR> where {00-00} represents midnight.

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IPNV	Input, Parameter Not Valid /* If PMMODE=OFF or blank, REPORT TIME must be blank */
SROF	Status, Requested Operation Failed /* error canceling cmd with ON = <ORDER>, status = <STATUS> */ /* upcron error, status = <STATUS> */ /* Cannot read crontab, status = <STATUS> */

EXAMPLES

In the following example, the autonomous REPT^PM^rr messages containing a PM report for all monitored PM parameters are scheduled to be generated daily at 6:30 pm.

```
SCHED-PMREPT-ALL: : : : ON, 18-30 ;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P71042. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M P71042 COMPLD  
/* ON, 18-30 */  
/* SCHED-PMREPT-ALL: : : : ON, 18-30 [P71042] (1) */  
;
```

RELATED COMMANDS

```
ALW-PMREPT-EC1  
ALW-PMREPT-F3  
ALW-PMREPT-OC3  
ALW-PMREPT-STS1  
ALW-PMREPT-STS3C  
ALW-PMREPT-T1  
ALW-PMREPT-T3  
ALW-PMREPT-VT1  
INH-PMREPT-EC1  
INH-PMREPT-F3  
INH-PMREPT-OC3  
INH-PMREPT-STS1  
INH-PMREPT-STS3C  
INH-PMREPT-T1  
INH-PMREPT-T3  
INH-PMREPT-VT1  
RTRV-DFLTPMREPT-EC1  
RTRV-DFLTPMREPT-F3  
RTRV-DFLTPMREPT-OC3  
RTRV-DFLTPMREPT-STS1  
RTRV-DFLTPMREPT-STS3C  
RTRV-DFLTPMREPT-T1  
RTRV-DFLTPMREPT-T3  
RTRV-DFLTPMREPT-VT1  
RTRV-PMSCHED-ALL  
SET-DFLTPMREPT-EC1  
SET-DFLTPMREPT-F3  
SET-DFLTPMREPT-OC3  
SET-DFLTPMREPT-STS1  
SET-DFLTPMREPT-STS3C  
SET-DFLTPMREPT-T1  
SET-DFLTPMREPT-T3  
SET-DFLTPMREPT-VT1
```

RELATED AUTONOMOUS RESPONSES

REPT^PM^EC1

REPT^PM^F3

REPT^PM^OC3

REPT^PM^STS1

REPT^PM^STS3C

REPT^PM^T1

REPT^PM^T3

REPT^PM^VT1

COMMAND CODE: **SCHED-PMREPT-EC1**
COMMAND NAME: **SCHEDULE PERFORMANCE
MONITORING REPORT EC1**

PURPOSE

The SCHED-PMREPT-EC1 command enables or disables the generation of Performance Monitoring (PM) report messages for provisioned EC1 ports. If enabled, only monitored EC1 PM parameters that have event counts above or below the threshold level specified by MONLEV are reported in the PM report messages.

A SCHED-PMREPT-EC1 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

SCHED-PMREPT-EC1 : [TID] : AID : [CTAG] : : [REPTINVL] , , [NUMREPT] , ,
[MONLEV] , , , [TMPER] [,] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	EC1_AID: {EC1-{1-3840} } (EC1-EC1/STS1#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: EC1 AID, identifies the EC1 port.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
REPTINVL	{15-MIN, 1-DAY} Default: {15-MIN} Addressing: None Description: Report Interval, specifies the reporting interval of the PM report messages. Values are: 15-MIN 15 Minute Intervals, specifies EC1 PM reports are generated every 15 minutes. 1-DAY 1-Day (24 hour) Intervals, indicates EC1 PM reports are generated daily. Restrictions: SCHED-PMREPT-EC1 is denied if the value of REPTINVL is not the same as the TMPER value.
NUMREPT	{0-254, <NoVal>} Default: <Value as set by SET-DFLTPMREPT-EC1 command> Addressing: None Description: Number of Reports, specifies the number of PM report messages that are generated. Values are: 0 Zero, scheduled PM reporting is disabled. 1-254 1 to 254 reports are to be generated. When the CPU is in an IS state and the system has successfully completed a restart, NUMREPT is decremented even if the schedule has been inhibited by the INH-PMREPT-EC1 command. <NoVal> No Value (Null), PM report messages continue to be generated every REPTINVL until disabled via a NUMREPT value of 0.

MONLEV	{LEVEL-DIRECTION:{0-4294967295} – {DN, UP} }	
	Default:	<Value as set by SET-DFLTPMREPT-EC1 command>
	Addressing:	None
	Description:	Monitoring Level, specifies the discriminating level of PM parameter event counts to be reported in PM messages for monitored PM parameters. The format of MONLEV is <LEVEL> – <DIRECTION>. Values are:
	{0-4294967295}-DN	Only PM data for monitored PM parameters that are less-than or equal-to (<) the value of <LEVEL> are reported.
TMPER	{0-4294967295}-UP	Only PM data for monitored PM parameters that are greater-than or equal-to (>) the value of <LEVEL> are reported.
	{15-MIN, 1-DAY}	
	Default:	{15-MIN}
	Addressing:	None
	Description:	Time Period, specifies the accumulation time period of the PM parameters reported in the PM report messages. Values are:
	15-MIN	15-Minute PM collection registers are reported.
	1-DAY	1-Day (24 hour) PM collection registers are reported.
	Restrictions:	SCHED-PMREPT-EC1 is denied if the value of TMPER is not the same as the REPTINVL value.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent
IDNV	Input, Data Not Valid
	/* Invalid TMPER entered. */
	/* Invalid NUMREPT entered. */
	/* Invalid REPTINVL entered. */
	/* Invalid MONLEV entered. */
IIAC	Input, Invalid ACcess identifier
SDBE	Status, internal Data Base Error
	/* Error reading EC1 pm sched database. */
	/* Error updating EC1 pm sched database. */
SROF	Status, Requested Operation Failed
	/*Unable to determine facility type.*/

EXAMPLES

In the following example, 15-minute PM report messages are enabled for monitored EC1 PM parameters with event counts greater-than or equal-to sixteen.

```
SCHED-PMREPT-EC1::EC1-5::,,,,,16-UP;
```

RELATED COMMANDS

```
ALW-PMREPT-EC1  
INH-PMREPT-EC1  
RTRV-DFLT-PMREPT-EC1  
RTRV-PMSCHED-ALL  
RTRV-PMSCHED-EC1  
SCHED-PMREPT-ALL  
SET-DFLT-PMREPT-EC1
```


COMMAND CODE: **SCHED-PMREPT-F3**
COMMAND NAME: **SCHEDULE PERFORMANCE
MONITORING REPORT F3**

PURPOSE

The SCHED-PMREPT-F3 command enables or disables the generation of Performance Monitoring (PM) report messages for provisioned F3 ports. If enabled, only monitored F3 PM parameters that have event counts above or below the threshold level specified by MONLEV are reported in the PM report messages.

A SCHED-PMREPT-F3 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

SCHED-PMREPT-F3 : [TID] : AID : [CTAG] : : [REPTINVL] , , [NUMREPT] , ,
[MONLEV] , , , [TMPER] [,] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	F3_AID {T3F3-{1-4800}-{1-14}} (T3F3-DS3#-Fractional_DS3#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: F3 AID, identifies the F3 port.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
REPTINVL	{15-MIN, 1-DAY} Default: {15-MIN} Addressing: None Description: Report Interval, specifies the reporting interval of the PM report messages. Values are: 15-MIN 15 Minute Intervals, specifies F3 PM reports are generated every 15 minutes. 1-DAY 1-Day (24 hour) Intervals, indicates F3 PM reports are generated daily. Restrictions: SCHED-PMREPT-F3 is denied if the value of REPTINVL is not the same as the TMPER value.
NUMREPT	{0-254, <NoVal>} Default: <Value as set by SET-DFLTPMREPT-F3 command> Addressing: None Description: Number of Reports, specifies the number of PM report messages that are generated. Values are: 0 Zero, scheduled PM reporting is disabled. 1-254 1 to 254 reports are to be generated. When the CPU is in an IS state and the system has successfully completed a restart, NUMREPT is decremented even if the schedule has been inhibited by the INH-PMREPT-F3 command. <NoVal> No Value (Null), PM report messages continue to be generated every REPTINVL until disabled via a NUMREPT value of 0.

MONLEV	{LEVEL-DIRECTION:{0-4294967295} – {DN, UP} }	
	Default:	<Value as set by SET-DFLTPMREPT-F3 command>
	Addressing:	None
	Description:	Monitoring Level, specifies the discriminating level of PM parameter event counts to be reported in PM messages for monitored PM parameters. The format of MONLEV is <LEVEL> – <DIRECTION>. Values are:
	{0-4294967295}-DN	Only PM data for monitored PM parameters that are less-than or equal-to (<) the value of <LEVEL> are reported.
TMPER	{0-4294967295}-UP	Only PM data for monitored PM parameters that are greater-than or equal-to (>) the value of <LEVEL> are reported.
	{15-MIN, 1-DAY}	
	Default:	{15-MIN}
	Addressing:	None
	Description:	Time Period, specifies the accumulation time period of the PM parameters reported in the PM report messages. Values are:
	15-MIN	15-Minute PM collection registers are reported.
	1-DAY	1-Day (24 hour) PM collection registers are reported.
	Restrictions:	SCHED-PMREPT-F3 is denied if the value of TMPER is not the same as the REPTINVL value.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent
IDNV	Input, Data Not Valid
	/* Invalid TMPER entered. */
	/* Invalid NUMREPT entered. */
	/* Invalid REPTINVL entered. */
	/* Invalid MONLEV entered. */
IIAC	Input, Invalid ACcess identifier
SDBE	Status, internal Data Base Error
	/* Error reading F3 pm sched database. */
	/* Error updating F3 pm sched database. */
SROF	Status, Requested Operation Failed
	/* Unable to determine facility type. */

EXAMPLES

In the following example, 15-minute PM report messages are enabled for monitored F3 PM parameters with event counts greater-than or equal-to sixteen.

```
SCHED-PMREPT-F3::T3F3-1-1:::,,,16-UP;
```

RELATED COMMANDS

```
ALW-PMREPT-F3  
INH-PMREPT-F3  
RTRV-DFLT-PMREPT-F3  
RTRV-PMSCHED-ALL  
RTRV-PMSCHED-F3  
SCHED-PMREPT-ALL  
SET-DFLT-PMREPT-F3
```


COMMAND CODE: **SCHED-PMREPT-OC12**
COMMAND NAME: **SCHEDULE PERFORMANCE
MONITORING REPORT OC-12**

PURPOSE

The SCHED-PMREPT-OC12 command enables or disables the generation of Performance Monitoring (PM) report messages for provisioned OC-12 ports. If enabled, only monitored OC-12 PM parameters that have event counts above or below the threshold level specified by MONLEV are reported in the PM report messages.

A SCHED-PMREPT-OC12 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

SCHED-PMREPT-OC12 : [TID] : AID : [CTAG] : : [REPTINVL] , , [NUMREPT] , ,
[MONLEV] , , , [TMPER] [,] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	OC12_AID {OC12-{1-560}} (OC12-OC12#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: OC12 AID, identifies the OC-12 port.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
REPTINVL	{15-MIN, 1-DAY} Default: {15-MIN} Addressing: None Description: Report Interval, specifies the reporting interval of the PM report messages. Values are: 15-MIN 15 Minute Intervals, specifies OC-12 PM reports are generated every 15 minutes. 1-DAY 1-Day (24 hour) Intervals, indicates OC-12 PM reports are generated daily. Restrictions: SCHED-PMREPT-OC12 is denied if the value of REPTINVL is not the same as the TMPER value.
NUMREPT	{0-254, <NoVal>} Default: <Value as set by SET-DFLT-PMREPT-OC12 command> Addressing: None Description: Number of Reports, specifies the number of PM report messages that are generated. Values are: 0 Zero, scheduled PM reporting is disabled. 1-254 1 to 254 reports are to be generated. When the CPU is in an IS state and the system has successfully completed a restart, NUMREPT is decremented even if the schedule has been inhibited by the INH-PMREPT-OC12 command. <NoVal> No Value (Null), PM report messages continue to be generated every REPTINVL until disabled via a NUMREPT value of 0.

MONLEV	{LEVEL-DIRECTION:{0-4294967295} – {DN, UP} }	
	Default:	<Value as set by SET-DFLTPMREPT-OC12 command>
	Addressing:	None
	Description:	Monitoring Level, specifies the discriminating level of PM parameter event counts to be reported in PM messages for monitored PM parameters. The format of MONLEV is <LEVEL> – <DIRECTION>. Values are:
	{0-4294967295}-DN	Only PM data for monitored PM parameters that are less-than or equal-to (<) the value of <LEVEL> are reported.
TMPER	{0-4294967295}-UP	Only PM data for monitored PM parameters that are greater-than or equal-to (>) the value of <LEVEL> are reported.
	{15-MIN, 1-DAY}	
	Default:	{15-MIN}
	Addressing:	None
	Description:	Time Period, specifies the accumulation time period of the PM parameters reported in the PM report messages. Values are:
	15-MIN	15-Minute PM collection registers are reported.
	1-DAY	1-Day (24 hour) PM collection registers are reported.
	Restrictions:	SCHED-PMREPT-OC12 is denied if the value of TMPER is not the same as the REPTINVL value.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent
IDNV	Input, Data Not Valid
	/* Invalid TMPER entered. */
	/* Invalid NUMREPT entered. */
	/* Invalid REPTINVL entered. */
	/* Invalid MONLEV entered. */
IIAC	Input, Invalid ACcess identifier
SDBE	Status, internal Data Base Error
	/* Error reading OC12 pm sched database. */
	/* Error updating OC12 pm sched database. */
SROF	Status, Requested Operation Failed
	/* Unable to determine facility type. */

EXAMPLES

In the following example, 15-minute PM report messages are enabled for monitored OC-12 PM parameters with event counts greater-than or equal-to sixteen.

```
SCHED-PMREPT-OC12::OC12-8::,,,,16-UP;
```

RELATED COMMANDS

```
ALW-PMREPT-OC12  
INH-PMREPT-OC12  
RTRV-DFLTPMREPT-OC12  
RTRV-PMSCHED-ALL  
RTRV-PMSCHED-OC12  
SCHED-PMREPT-ALL  
SET-DFLTPMREPT-OC12
```


COMMAND CODE: **SCHED-PMREPT-OC3**
COMMAND NAME: **SCHEDULE PERFORMANCE
MONITORING REPORT OC-3**

PURPOSE

The SCHED-PMREPT-OC3 command enables or disables the generation of Performance Monitoring (PM) report messages for provisioned OC-3 ports. If enabled, only monitored OC-3 PM parameters that have event counts above or below the threshold level specified by MONLEV are reported in the PM report messages.

A SCHED-PMREPT-OC3 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

SCHED-PMREPT-OC3 : [TID] : AID : [CTAG] : : [REPTINVL] , , [NUMREPT] , ,
[MONLEV] , , , [TMPER] [,] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	OC3_AID {OC3-{1-2240}} (OC3-OC3#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: OC3 AID, identifies the OC-3 port.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
REPTINVL	{15-MIN, 1-DAY} Default: {15-MIN} Addressing: None Description: Report Interval, specifies the reporting interval of the PM report messages. Values are: 15-MIN 15 Minute Intervals, specifies OC-3 PM reports are generated every 15 minutes. 1-DAY 1-Day (24 hour) Intervals, indicates OC-3 PM reports are generated daily. Restrictions: SCHED-PMREPT-OC3 is denied if the value of REPTINVL is not the same as the TMPER value.
NUMREPT	{0-254, <NoVal>} Default: <Value as set by SET-DFLTPMREPT-OC3 command> Addressing: None Description: Number of Reports, specifies the number of PM report messages that are generated. Values are: 0 Zero, scheduled PM reporting is disabled. 1-254 1 to 254 reports are to be generated. When the CPU is in an IS state and the system has successfully completed a restart, NUMREPT is decremented even if the schedule has been inhibited by the INH-PMREPT-OC3 command. <NoVal> No Value (Null), PM report messages continue to be generated every REPTINVL until disabled via a NUMREPT value of 0.

MONLEV	{LEVEL-DIRECTION:{0-4294967295} – {DN, UP} }	
	Default:	<Value as set by SET-DFLTPMREPT-OC3 command>
	Addressing:	None
	Description:	Monitoring Level, specifies the discriminating level of PM parameter event counts to be reported in PM messages for monitored PM parameters. The format of MONLEV is <LEVEL> – <DIRECTION>. Values are:
	{0-4294967295}-DN	Only PM data for monitored PM parameters that are less-than or equal-to (<) the value of <LEVEL> are reported.
TMPER	{0-4294967295}-UP	Only PM data for monitored PM parameters that are greater-than or equal-to (>) the value of <LEVEL> are reported.
	{15-MIN, 1-DAY}	
	Default:	{15-MIN}
	Addressing:	None
	Description:	Time Period, specifies the accumulation time period of the PM parameters reported in the PM report messages. Values are:
	15-MIN	15-Minute PM collection registers are reported.
	1-DAY	1-Day (24 hour) PM collection registers are reported.
	Restrictions:	SCHED-PMREPT-OC3 is denied if the value of TMPER is not the same as the REPTINVL value.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent
IDNV	Input, Data Not Valid
	/* Invalid TMPER entered. */
	/* Invalid NUMREPT entered. */
	/* Invalid REPTINVL entered. */
	/* Invalid MONLEV entered. */
IIAC	Input, Invalid ACcess identifier
SDBE	Status, internal Data Base Error
	/* Error reading OC3 pm sched database. */
	/* Error updating OC3 pm sched database. */
SROF	Status, Requested Operation Failed
	/* Unable to determine facility type. */

EXAMPLES

In the following example, 15-minute PM report messages are enabled for monitored OC-3 PM parameters with event counts greater-than or equal-to sixteen.

```
SCHED-PMREPT-OC3::OC3-8::,,,,16-UP;
```

RELATED COMMANDS

```
ALW-PMREPT-OC3  
INH-PMREPT-OC3  
RTRV-DFLTPMREPT-OC3  
RTRV-PMSCHED-ALL  
RTRV-PMSCHED-OC3  
SCHED-PMREPT-ALL  
SET-DFLTPMREPT-OC3
```


COMMAND CODE: SCHED-PMREPT-STS1
COMMAND NAME: SCHEDULE PERFORMANCE
MONITORING REPORT STS-1

PURPOSE

The SCHED-PMREPT-STS1 command enables or disables the generation of Performance Monitoring (PM) report messages for provisioned STS-1 ports. If enabled, only monitored STS-1 PM parameters that have event counts above or below the threshold level specified by MONLEV are reported in the PM report messages.

A SCHED-PMREPT-STS1 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

SCHED-PMREPT-STS1 : [TID] : AID : [CTAG] : : [REPTINVL] , , [NUMREPT] , ,
[MONLEV] , , , [TMPER] [,] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >		
	Default:	<SID>	
	Addressing:	None	
	Description:	Target Identifier, specifies the network node TID for the command.	
AID	STS1_AID		
	{EC1STS1-{1-3840}}	(EC1STS1-EC1/STS1#)	
	{OC3STS1-{1-2240}-{1-3}}	(OC3STS1-OC3#-STS1#)	
	{OC12STS1-{1-560}-{1-4}-{1-3}}	(OC12STS1-OC12#-STM1#-STS1#)	
	Default:	Entry Required	
	Addressing:	&&-ranging and &-grouping	
	Description:	STS1 AID, identifies the STS-1 port.	
CTAG	< 1-6 VALID CTAG CHARACTERS >		
	Default:	< System assigned CTAG value >	
	Addressing:	None	
	Description:	Correlation Tag, associates input command with its output responses.	
REPTINVL	{15-MIN, 1-DAY}		
	Default:	{15-MIN}	
	Addressing:	None	
	Description:	Report Interval, specifies the reporting interval of the PM report messages. Values are:	
	15-MIN	15 Minute Intervals, specifies STS-1 PM reports are generated every 15 minutes.	
	1-DAY	1-Day (24 hour) Intervals, indicates STS-1 PM reports are generated daily.	
	Restrictions:	SCHED-PMREPT-STS1 is denied if the value of REPTINVL is not the same as the TMPER value.	

NUMREPT	{0–254, <NoVal>}	
	Default:	<Value as set by SET–DFLTPMREPT–STS1 command>
	Addressing:	None
	Description:	Number of Reports, specifies the number of PM report messages that are generated. Values are:
	0	Zero, scheduled PM reporting is disabled.
	1–254	1 to 254 reports are to be generated. When the CPU is in an IS state and the system has successfully completed a restart, NUMREPT is decremented even if the schedule has been inhibited by the INH–PMREPT–STS1 command.
	<NoVal>	No Value (Null), PM report messages continue to be generated every REPTINVL until disabled via a NUMREPT value of 0.
MONLEV	{LEVEL–DIRECTION:{0–4294967295} – {DN, UP} }	
	Default:	<Value as set by SET–DFLTPMREPT–STS1 command>
	Addressing:	None
	Description:	Monitoring Level, specifies the discriminating level of PM parameter event counts to be reported in PM messages for monitored PM parameters. The format of MONLEV is <LEVEL> – <DIRECTION>. Values are:
	{0–4294967295}–DN	Only PM data for monitored PM parameters that are less–than or equal–to (<) the value of <LEVEL> are reported.
	{0–4294967295}–UP	Only PM data for monitored PM parameters that are greater–than or equal–to (>) the value of <LEVEL> are reported.
TMPER	{15–MIN, 1–DAY}	
	Default:	{15–MIN}
	Addressing:	None
	Description:	Time Period, specifies the accumulation time period of the PM parameters reported in the PM report messages. Values are:
	15–MIN	15–Minute PM collection registers are reported.
	1–DAY	1–Day (24 hour) PM collection registers are reported.
	Restrictions:	SCHED–PMREPT–STS1 is denied if the value of TMPER is not the same as the REPTINVL value.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid /* Invalid TMPER entered. */ /* Invalid NUMREPT entered. */ /* Invalid REPTINVL entered. */ /* Invalid MONLEV entered. */
SDBE	Status, internal Data Base Error /* Error reading STS1 pm sched database. */ /* Error updating STS1 pm sched database. */
SROF	Status, Requested Operation Failed /* Unable to determine facility type. */

EXAMPLES

In the following example, 15-minute PM report messages are enabled for all monitored STS-1 PM parameters with event counts greater-than or equal-to sixteen.

```
SCHED-PMREPT-STs1:OC3STs1-15-3:::,,16-UP;
```

RELATED COMMANDS

```
ALW-PMREPT-STs1  
INH-PMREPT-STs1  
RTRV-DFLT-PMREPT-STs1  
RTRV-PMSCHED-ALL  
RTRV-PMSCHED-STs1  
SCHED-PMREPT-ALL  
SET-DFLT-PMREPT-STs1
```


COMMAND CODE: **SCHED-PMREPT-STS3C**
COMMAND NAME: **SCHEDULE PERFORMANCE
MONITORING REPORT STS-3C**

PURPOSE

The SCHED-PMREPT-STS3C command enables or disables the generation of Performance Monitoring (PM) report messages for provisioned STS-3C ports. If enabled, only monitored STS-3C PM parameters that have event counts above or below the threshold level specified by MONLEV are reported in the PM report messages.

A SCHED-PMREPT-STS3C command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

SCHED-PMREPT-STS3C: [TID] :AID: [CTAG] :: [REPTINVL] , , [NUMREPT] , ,
[MONLEV] , , , [TMPER] [,] ;

INPUT PARAMETERS

TID	< 1–20 VALID TID CHARACTERS >		
	Default:	<SID>	
	Addressing:	None	
	Description:	Target Identifier, specifies the network node TID for the command.	
AID	STS3C_AID		
	{OC3STS3C–{1–2240}}	(OC3STS3C–OC3#/STS3C#)	
	{OC12STS3C–{1–560}–{1–4}}	(OC12STS3C–OC12#–STM1/STS3C#)	
	Default:	Entry Required	
	Addressing:	&&–ranging and &–grouping	
	Description:	STS3C AID, identifies the STS–3C port.	
CTAG	< 1–6 VALID CTAG CHARACTERS >		
	Default:	< System assigned CTAG value >	
	Addressing:	None	
	Description:	Correlation Tag, associates input command with its output responses.	
REPTINVL	{15–MIN, 1–DAY}		
	Default:	{15–MIN}	
	Addressing:	None	
	Description:	Report Interval, specifies the reporting interval of the PM report messages. Values are:	
	15–MIN	15 Minute Intervals, specifies STS–3C PM reports are generated every 15 minutes.	
	1–DAY	1–Day (24 hour) Intervals, indicates STS–3C PM reports are generated daily.	
	Restrictions:	SCHED–PMREPT–STS3C is denied if the value of REPTINVL is not the same as the TMPER value.	

NUMREPT	{0–254, <NoVal>}	
	Default:	<Value as set by SET–DFLTPMREPT–STS3C command>
	Addressing:	None
	Description:	Number of Reports, specifies the number of PM report messages that are generated. Values are:
	0	Zero, scheduled PM reporting is disabled.
	1–254	1 to 254 reports are to be generated. When the CPU is in an IS state and the system has successfully completed a restart, NUMREPT is decremented even if the schedule has been inhibited by the INH–PMREPT–STS3C command.
	<NoVal>	No Value (Null), PM report messages continue to be generated every REPTINVL until disabled via a NUMREPT value of 0.
MONLEV	{LEVEL–DIRECTION:{0–4294967295} – {DN, UP} }	
	Default:	<Value as set by SET–DFLTPMREPT–STS3C command>
	Addressing:	None
	Description:	Monitoring Level, specifies the discriminating level of PM parameter event counts to be reported in PM messages for monitored PM parameters. The format of MONLEV is <LEVEL> – <DIRECTION>. Values are:
	{0–4294967295}–DN	Only PM data for monitored PM parameters that are less–than or equal–to (<) the value of <LEVEL> are reported.
	{0–4294967295}–UP	Only PM data for monitored PM parameters that are greater–than or equal–to (>) the value of <LEVEL> are reported.
TMPER	{15–MIN, 1–DAY}	
	Default:	{15–MIN}
	Addressing:	None
	Description:	Time Period, specifies the accumulation time period of the PM parameters reported in the PM report messages. Values are:
	15–MIN	15–Minute PM collection registers are reported.
	1–DAY	1–Day (24 hour) PM collection registers are reported.
	Restrictions:	SCHED–PMREPT–STS3C is denied if the value of TMPER is not the same as the REPTINVL value.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non–Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent
IDNV	Input, Data Not Valid
	/* Invalid TMPER entered. */
	/* Invalid NUMREPT entered. */
	/* Invalid REPTINVL entered. */
	/* Invalid MONLEV entered. */
SDBE	Status, internal Data Base Error
	/* Error reading STS3C pm sched database. */
	/* Error updating STS3C pm sched database. */
SROF	Status, Requested Operation Failed
	/* Unable to determine facility type. */

EXAMPLES

In the following example, 15-minute PM report messages are enabled for monitored STS-3C PM parameters with event counts greater-than or equal-to sixteen.

```
SCHED-PMREPT-ST3C: :OC3ST3C-3: : , , , , 16-UP;
```

RELATED COMMANDS

```
ALW-PMREPT-ST3C  
INH-PMREPT-ST3C  
RTRV-DFLT-PMREPT-ST3C  
RTRV-PMSCHED-ALL  
RTRV-PMSCHED-ST3C  
SCHED-PMREPT-ALL  
SET-DFLT-PMREPT-ST3C
```


COMMAND CODE: **SCHED-PMREPT-T1**
COMMAND NAME: **SCHEDULE PERFORMANCE
MONITORING REPORT T1**

PURPOSE

The SCHED-PMREPT-T1 command enables or disables the generation of Performance Monitoring (PM) report messages for provisioned DS1 ports. If enabled, only monitored DS1 PM parameters that have event counts above or below the threshold level specified by MONLEV are reported in the PM report messages.

A SCHED-PMREPT-T1 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

SCHED-PMREPT-T1 : [TID] : AID : [CTAG] : : [REPTINVL] , , [NUMREPT] , ,
[MONLEV] , , , [TMPER] [,] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	DS1_AID {T1-{1-59392}} (T1-DS1#) {T3T1-{1-4800}-{1-28}} (T3T1-DS3#-DS1#) {EC1T1-{1-3840}-{1-28}} (EC1T1-EC1/STS1/DS3#-DS1#) {EC1T1-{1-3840}-{1-7}-{1-4}} (EC1T1-EC1/STS1#-VTGrp#-VT1/DS1#) {OC3T1-{1-2240}-{1-3}-{1-28}} (OC3T1-OC3#-STS1/DS3#-DS1#) {OC3T1-{1-2240}-{1-3}-{1-7}-{1-4}} (OC3T1-OC3#-STS1#-VTGrp#-VT1/DS1#) {OC12T1-{1-560}-{1-4}-{1-3}-{1-28}} (OC12T1-OC12#-STM1#-STS1/DS3#-DS1#) {OC12T1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}} (OC12T1-OC12#-STM1#-STS1#-VTGrp#-VT1/DS1#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: DS1 AID, identifies the DS1 port.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
REPTINVL	{15-MIN, 1-DAY} Default: {15-MIN} Addressing: None Description: Report Interval, specifies the reporting interval of the PM report messages. Values are: 15-MIN 15 Minute Intervals, specifies DS1 PM reports are generated every 15 minutes. 1-DAY 1-Day (24 hour) Intervals, indicates DS1 PM reports are generated daily. Restrictions: SCHED-PMREPT-T1 is denied if the value of REPTINVL is not the same as the TMPER value.

NUMREPT	{0–254, <NoVal>}	
	Default:	<Value as set by SET–DFLTPMREPT–T1 command>
	Addressing:	None
	Description:	Number of Reports, specifies the number of PM report messages that are generated. Values are:
	0	Zero, scheduled PM reporting is disabled.
MONLEV	1–254	1 to 254 reports are to be generated. When the CPU is in an IS state and the system has successfully completed a restart, NUMREPT is decremented even if the schedule has been inhibited by the INH–PMREPT–T1 command.
	<NoVal>	No Value (Null), PM report messages continue to be generated every REPTINVL until disabled via a NUMREPT value of 0.
	{LEVEL–DIRECTION:{0–4294967295} – {DN, UP} }	
TMPER	Default:	<Value as set by SET–DFLTPMREPT–T1 command>
	Addressing:	None
	Description:	Monitoring Level, specifies the discriminating level of PM parameter event counts to be reported in PM messages for monitored PM parameters. The format of MONLEV is <LEVEL> – <DIRECTION>. Values are:
	{0–4294967295}–DN	Only PM data for monitored PM parameters that are less–than or equal–to (<) the value of <LEVEL> are reported.
	{0–4294967295}–UP	Only PM data for monitored PM parameters that are greater–than or equal–to (>) the value of <LEVEL> are reported.
	{15–MIN, 1–DAY}	
	Default:	{15–MIN}
	Addressing:	None
	Description:	Time Period, specifies the accumulation time period of the PM parameters reported in the PM report messages. Values are:
	15–MIN	15–Minute PM collection registers are reported.
	1–DAY	1–Day (24 hour) PM collection registers are reported.
	Restrictions:	SCHED–PMREPT–T1 is denied if the value of TMPER is not the same as the REPTINVL value.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non–Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent
IDNV	Input, Data Not Valid
	/* Invalid TMPER entered. */
	/* Invalid NUMREPT entered. */
	/* Invalid REPTINVL entered. */
	/* Invalid MONLEV entered. */
IIAC	Input, Invalid ACcess identifier
SDBE	Status, internal Data Base Error
	/* Error reading T1 pm sched database. */
	/* Error updating T1 pm sched database. */
SROF	Status, Requested Operation Failed
	/* Unable to determine facility type. */

EXAMPLES

In the following example, 15-minute PM report messages are enabled for monitored DS1 PM parameters with event counts greater-than or equal-to sixteen.

```
SCHED-PMREPT-T1::T1-1::,,,,16-UP;
```

RELATED COMMANDS

```
ALW-PMREPT-T1  
INH-PMREPT-T1  
RTRV-DFLTPMREPT-T1  
RTRV-PMSCHED-ALL  
RTRV-PMSCHED-T1  
SCHED-PMREPT-ALL  
SET-DFLTPMREPT-T1
```


COMMAND CODE: SCHED-PMREPT-T3
COMMAND NAME: SCHEDULE PERFORMANCE
MONITORING REPORT T3

PURPOSE

The SCHED-PMREPT-T3 command enables or disables the generation of Performance Monitoring (PM) report messages for provisioned DS3 ports. If enabled, only monitored DS3 PM parameters that have event counts above or below the threshold level specified by MONLEV are reported in the PM report messages.

A SCHED-PMREPT-T3 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

SCHED-PMREPT-T3 : [TID] : AID : [CTAG] : : [REPTINVL] , , [NUMREPT] , ,
[MONLEV] , , , [TMPER] [,] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >		
	Default:	<SID>	
	Addressing:	None	
	Description:	Target Identifier, specifies the network node TID for the command.	
AID	DS3_AID		
	{T3-{1-4800}}	(T3-DS3#)	
	{EC1T3-{1-3840}}	(EC1T3-EC1/STS1/DS3#)	
	{OC3T3-{1-2240}-{1-3}}	(OC3T3-OC3#-STS1/DS3#)	
	{OC12T3-{1-560}-{1-4}-{1-3}}	(OC12T3-OC12#-STM1#-STS1/DS3#)	
	Default:	Entry Required	
	Addressing:	&&-ranging and &-grouping	
	Description:	DS3 AID, identifies the DS3 port.	
CTAG	< 1-6 VALID CTAG CHARACTERS >		
	Default:	< System assigned CTAG value >	
	Addressing:	None	
	Description:	Correlation Tag, associates input command with its output responses.	
REPTINVL	{15-MIN, 1-DAY}		
	Default:	{15-MIN}	
	Addressing:	None	
	Description:	Report Interval, specifies the reporting interval of the PM report messages. Values are:	
	15-MIN	15 Minute Intervals, specifies DS3 PM reports are generated every 15 minutes.	
	1-DAY	1-Day (24 hour) Intervals, indicates DS3 PM reports are generated daily.	
	Restrictions:	SCHED-PMREPT-T3 is denied if the value of REPTINVL is not the same as the TMPER value.	

NUMREPT	{0–254, <NoVal>}	
	Default:	<Value as set by SET–DFLTPMREPT–T3 command>
	Addressing:	None
	Description:	Number of Reports, specifies the number of PM report messages that are generated. Values are:
	0	Zero, scheduled PM reporting is disabled.
MONLEV	1–254	1 to 254 reports are to be generated. When the CPU is in an IS state and the system has successfully completed a restart, NUMREPT is decremented even if the schedule has been inhibited by the INH–PMREPT–T3 command.
	<NoVal>	No Value (Null), PM report messages continue to be generated every REPTINVL until disabled via a NUMREPT value of 0.
	{LEVEL–DIRECTION:{0–4294967295} – {DN, UP} }	
TMPER	Default:	<Value as set by SET–DFLTPMREPT–T3 command>
	Addressing:	None
	Description:	Monitoring Level, specifies the discriminating level of PM parameter event counts to be reported in PM messages for monitored PM parameters. The format of MONLEV is <LEVEL> – <DIRECTION>. Values are:
	{0–4294967295}–DN	Only PM data for monitored PM parameters that are less–than or equal–to (<) the value of <LEVEL> are reported.
	{0–4294967295}–UP	Only PM data for monitored PM parameters that are greater–than or equal–to (>) the value of <LEVEL> are reported.
	{15–MIN, 1–DAY}	
	Default:	{15–MIN}
	Addressing:	None
	Description:	Time Period, specifies the accumulation time period of the PM parameters reported in the PM report messages. Values are:
	15–MIN	15–Minute PM collection registers are reported.
	1–DAY	1–Day (24 hour) PM collection registers are reported.
	Restrictions:	SCHED–PMREPT–T3 is denied if the value of TMPER is not the same as the REPTINVL value.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID [-VCNUM] >) */]
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID [-VCNUM] >) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non–Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent
IDNV	Input, Data Not Valid
	/* Invalid TMPER entered. */
	/* Invalid NUMREPT entered. */
	/* Invalid REPTINVL entered. */
	/* Invalid MONLEV entered. */
SDBE	Status, internal Data Base Error
	/* Error reading T3 pm sched database. */
	/* Error updating T3 pm sched database. */
SROF	Status, Requested Operation Failed
	/* Unable to determine facility type. */

EXAMPLES

In the following example, 15-minute PM report messages are enabled for monitored DS3 PM parameters with event counts greater-than or equal-to sixteen.

```
SCHED-PMREPT-T3::T3-48::,,,,16-UP;
```

RELATED COMMANDS

```
ALW-PMREPT-T3  
INH-PMREPT-T3  
RTRV-DFLTPMREPT-T3  
RTRV-PMSCHED-ALL  
RTRV-PMSCHED-T3  
SCHED-PMREPT-ALL  
SET-DFLTPMREPT-T3
```


COMMAND CODE: SCHED-PMREPT-VT1
COMMAND NAME: SCHEDULE PERFORMANCE
MONITORING REPORT VT1

PURPOSE

The SCHED-PMREPT-VT1 command enables or disables the generation of Performance Monitoring (PM) report messages for provisioned VT1.5 ports. If enabled, only monitored VT1.5 PM parameters that have event counts above or below the threshold level specified by MONLEV are reported in the PM report messages.

A SCHED-PMREPT-VT1 command is denied if:

- An invalid parameter value combination of parameter values is entered.

INPUT FORMAT

SCHED-PMREPT-VT1: [TID] :AID: [CTAG] :: [REPTINVL] , , [NUMREPT] , ,
[MONLEV] , , , [TMPER] [,] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >	
	Default:	<SID>
	Addressing:	None
	Description:	Target Identifier, specifies the network node TID for the command.
AID	VT1_AID	
	{EC1VT1-{1-3840}-{1-7}-{1-4}}	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)
	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)
	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)
	Default:	Entry Required
	Addressing:	&&-ranging and &-grouping
	Description:	VT1 AID, identifies the VT1.5 port.
CTAG	< 1-6 VALID CTAG CHARACTERS >	
	Default:	< System assigned CTAG value >
	Addressing:	None
	Description:	Correlation Tag, associates input command with its output responses.
REPTINVL	{15-MIN, 1-DAY}	
	Default:	{15-MIN}
	Addressing:	None
	Description:	Report Interval, specifies the reporting interval of the PM report messages. Values are:
	15-MIN	15 Minute Intervals, specifies VT1.5 PM reports are generated every 15 minutes.
	1-DAY	1-Day (24 hour) Intervals, indicates VT1.5 PM reports are generated daily.
	Restrictions:	SCHED-PMREPT-VT1 is denied if the value of REPTINVL is not the same as the TMPER value.

NUMREPT	{0–254, <NoVal>}
Default:	<Value as set by SET–DFLTPMREPT–VT1 command>
Addressing:	None
Description:	Number of Reports, specifies the number of PM report messages that are generated. Values are:
0	Zero, scheduled PM reporting is disabled.
1–254	1 to 254 reports are to be generated. When the CPU is in an IS state and the system has successfully completed a restart, NUMREPT is decremented even if the schedule has been inhibited by the INH–PMREPT–VT1 command.
<NoVal>	No Value (Null), PM report messages continue to be generated every REPTINVL until disabled via a NUMREPT value of 0.
MONLEV	{LEVEL–DIRECTION:{0–4294967295} – {DN, UP} }
Default:	<Value as set by SET–DFLTPMREPT–VT1 command>
Addressing:	None
Description:	Monitoring Level, specifies the discriminating level of PM parameter event counts to be reported in PM messages for monitored PM parameters. The format of MONLEV is <LEVEL> – <DIRECTION>. Values are:
{0–4294967295}–DN	Only PM data for monitored PM parameters that are less–than or equal–to (<) the value of <LEVEL> are reported.
{0–4294967295}–UP	Only PM data for monitored PM parameters that are greater–than or equal–to (>) the value of <LEVEL> are reported.
TMPER	{15–MIN, 1–DAY}
Default:	{15–MIN}
Addressing:	None
Description:	Time Period, specifies the accumulation time period of the PM parameters reported in the PM report messages. Values are:
15–MIN	15–Minute PM collection registers are reported.
1–DAY	1–Day (24 hour) PM collection registers are reported.
Restrictions:	SCHED–PMREPT–VT1 is denied if the value of TMPER is not the same as the REPTINVL value.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non–Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent
IDNV	Input, Data Not Valid
	/* Invalid TMPER entered. */
	/* Invalid NUMREPT entered. */
	/* Invalid REPTINVL entered. */
	/* Invalid MONLEV entered. */
SDBE	Status, internal Data Base Error
	/* Error reading VT1 pm sched database. */
	/* Error updating VT1 pm sched database. */
SROF	Status, Requested Operation Failed
	/* Unable to determine facility type. */

EXAMPLES

In the following example, 15-minute PM report messages are enabled for monitored VT1.5 PM parameters with event counts greater-than or equal-to sixteen.

```
SCHED-PMREPT-VT1: : EC1VT1-1-1-4: : , , , , 16-UP;
```

RELATED COMMANDS

```
ALW-PMREPT-VT1  
INH-PMREPT-VT1  
RTRV-DFLTPMREPT-VT1  
RTRV-PMSCHED-ALL  
RTRV-PMSCHED-VT1  
SCHED-PMREPT-ALL  
SET-DFLTPMREPT-VT1
```


COMMAND CODE: **SELECT-COPY**
COMMAND NAME: **SELECT COPY TO USE**

PURPOSE

The SELECT-COPY command is used during a matrix upgrade from a 672-port matrix to a 1344-port matrix, a 1344-port matrix to a 2688-port matrix, or a 2688-port matrix to a 3360-port matrix.

SELECT-COPY causes the system to lock to data copy 0, to lock to data copy 1, or to re-enable data copy switching.

If SELECT-COPY with ACTION of {LOCKCOPY0, LOCKCOPY1}, MODE of NORM is entered, and a UPGRD1344, UPGRAD2688 or UPGRAD3360 condition has been set, then all I/O circuit packs in the Shelf/Quad are locked to that data copy if there are no errors in the connection. If data errors are detected for any I/O circuit packs in a Shelf/Quad, then those I/O circuit packs with errored connections revert back to the good copy of data and a DTLCKCPYFL condition is set on the particular I/O Shelf or Quad with errors.

If SELECT-COPY with ACTION of {LOCKCOPY0, LOCKCOPY1}, MODE of FRCD is entered, and a UPGRD1344, UPGRAD2688 or UPGRAD3360 condition has *not* been set, then all I/O circuit packs in the Shelf/Quad are locked to the specified data copy whether or not any data errors are detected on any or all of the individual I/O circuit packs. Additionally, if good data is not being received by an I/O circuit pack on the specified copy of data, the I/O circuit pack does not revert back to the non-specified copy of data (to the good copy of data).

If SELECT-COPY with ACTION of ENABLE is entered, then data copy switching is enabled for all I/O Shelves/Quads for which either both copies of data are good or for which both copies of data are bad. Data copy switching is not enabled if one copy, but not both copies, of data is bad. An informational text indicating data copy switching is not enabled on some data paths due to failures is sent. In this case, manual copy switching is enabled but the data is locked to one copy automatically.

Executing a SELECT-COPY command with ACTION of {LOCKCOPY0, LOCKCOPY1} causes a MANSELDATAACPY0 or MANSELDATAACPY1, respectively, condition type to be set, and a DATALCK0 or DATALCK1 condition type to be set on each I/O Shelf and/or I/O Quad.

If SELECT-COPY with ACTION of {LOCKCOPY0, LOCKCOPY1} and MODE of NORM is executed *and* data selection for an I/O Shelf/Quad is *not* locked (because a data error is detected), then the command completes with errors and no alarms are set.

Executing a SELECT-COPY command with ACTION of ENABLE clears the respective MANSELDATAACPY0 or MANSELDATAACPY1 condition type, and clears all DATALCK0 or DATALCK1 condition types for all I/O Shelves/Quads (if no automatic action locks an I/O Shelf/Quad to a copy). If an automatic action locks an I/O Shelf/Quad to a copy, the DATALCK0 or DATALCK1 condition type remains set.

If a SELECT-COPY command is issued with ACTION of {LOCKCOPY0, LOCKCOPY1} while the system is already lock to the requested copy, the command is denied. It is possible, however, to re-issue a SELECT-COPY command after one has been issued if the first SELECT-COPY command has been fully completed and a UPGRD1344, UPGRAD2688 or UPGRAD3360 condition has been set.

A SELECT-COPY command is denied if:

- ACTION of {LOCKCOPY0, LOCKCOPY1} and MODE of NORM is entered and the system is not capable of switching and locking to the specified copy of data due to unavailable system resources.
- ACTION of {LOCKCOPY0, LOCKCOPY1} and MODE of NORM is specified, an UPGRD1344, UPGRAD2688, or UPGRAD3360 condition is *not* set, and the system is not capable of switching and locking to the specified copy of data due to data errors.
- ACTION of {LOCKCOPY0, LOCKCOPY1} and MODE of NORM is entered and the system is already locked automatically to the specified copy of data due to a failure.
- MODE of FRCD is entered and a UPGRD1344, UPGRAD2688 or UPGRAD3360 condition is set in the system.
- ACTION of ENABLE is entered and a UPGRD1344, UPGRAD2688 or UPGRAD3360 condition is set in the system.

- ACTION of ENABLE is entered and a MANSELDATAcopy0 or MANSELDATAcopy1 condition is *not* set in the system.
- An AID is specified and the locked copy is different than remaining shelves.
- An AID is specified, ACTION is specified as {LOCKCOPY0, LOCKCOPY1}, and the system is already locked to a different copy.
- A SELECT-COPY, VRFY-COPY, or START-UPGRADE command is currently in-progress.
- The system is currently declaring any GTI alarms.
- An I/O AID is entered and the upgrade condition (UPGRDxxxx) is not set.
- An invalid parameter value is entered.

INPUT FORMAT

SELECT-COPY : [TID] : [AID] : [CTAG] : : ACTION, [MODE] ;

INPUT PARAMETERS

TID	<p>< 1-20 VALID TID CHARACTERS ></p> <p>Default: <SID></p> <p>Addressing: None</p> <p>Description: Target Identifier, specifies the network node TID for the command.</p>						
AID	<p>EQUIPMENT_AID:</p> <p>{SHELF-{6-9, 12-15, 18-21, 24-43, 104-111, 136-141}-{1, 3}-1}</p> <p>{QUAD-{44-63}-{1-4}-{1-4}}</p> <p>Default: <NoVal></p> <p>Addressing: None</p> <p>Description: Equipment AID, identifies the I/O Shelf or Quad.</p>						
CTAG	<p>< 1-6 VALID CTAG CHARACTERS ></p> <p>Default: < System assigned CTAG value ></p> <p>Addressing: None</p> <p>Description: Correlation Tag, associates input command with its output responses.</p>						
ACTION	<p>{ENABLE, LOCKCOPY0, LOCKCOPY1}</p> <p>Default: Entry Required</p> <p>Addressing: None</p> <p>Description: Action, specifies the action to be performed. Values are:</p> <table> <tr> <td>ENABLE</td><td>Enable data copy switching.</td></tr> <tr> <td>LOCKCOPY0</td><td>Lock the system to data Copy 0.</td></tr> <tr> <td>LOCKCOPY1</td><td>Lock the system to data Copy 1.</td></tr> </table>	ENABLE	Enable data copy switching.	LOCKCOPY0	Lock the system to data Copy 0.	LOCKCOPY1	Lock the system to data Copy 1.
ENABLE	Enable data copy switching.						
LOCKCOPY0	Lock the system to data Copy 0.						
LOCKCOPY1	Lock the system to data Copy 1.						
MODE	<p>{NORM, FRCD}</p> <p>Default: {NORM}</p> <p>Addressing: None</p> <p>Description: Command Execution Mode. Values are:</p> <table> <tr> <td>NORM</td><td>Normal. The command is denied if the result of its execution is service-affecting. An entire I/O Shelf/Quad is locked to the specified copy of data only if all I/O circuit packs in the Shelf/Quad can be locked to that copy of data.</td></tr> <tr> <td>FRCD</td><td>Forced. The command is executed regardless of any errors existing in the system. All I/O circuit packs in the I/O Shelf/Quad are locked to the specified copy of data whether or not the I/O circuit pack detects data errors on that copy of data. The command is not executed, however, if system resources are not available.</td></tr> </table>	NORM	Normal. The command is denied if the result of its execution is service-affecting. An entire I/O Shelf/Quad is locked to the specified copy of data only if all I/O circuit packs in the Shelf/Quad can be locked to that copy of data.	FRCD	Forced. The command is executed regardless of any errors existing in the system. All I/O circuit packs in the I/O Shelf/Quad are locked to the specified copy of data whether or not the I/O circuit pack detects data errors on that copy of data. The command is not executed, however, if system resources are not available.		
NORM	Normal. The command is denied if the result of its execution is service-affecting. An entire I/O Shelf/Quad is locked to the specified copy of data only if all I/O circuit packs in the Shelf/Quad can be locked to that copy of data.						
FRCD	Forced. The command is executed regardless of any errors existing in the system. All I/O circuit packs in the I/O Shelf/Quad are locked to the specified copy of data whether or not the I/O circuit pack detects data errors on that copy of data. The command is not executed, however, if system resources are not available.						

SUCCESSFUL RESPONSE FORMAT

If ACTION is specified as {LOCKCOPY0, LOCKCOPY1}, then the output response format is:

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  /* Automatic data copy switching is disabled. */
  /* Future data path failures will not be protected. */
```

For all other cases, the output response format is:

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  /* <Free Form Informational Text> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent /* Currently no SELECT Lock to Copy is in progress. */ /* Currently not Locked to a side. */ /* Unable to read aux buffer for <AID>. */
IIAC	Input, Invalid ACcess identifier /* Invalid parameters in the input command. */ /* Invalid command requested. */
SARB	Status, All Resources Busy /* SELECT COPY is in progress. */ /* VRFY COPY is in progress. */ /* SELECT COPY or START-UPGRADE is in progress. */ /* Manual or automatic action is in progress for <AID>. */ /* INIT-SYS command still active on shelf that equipment is on. */
SDBE	Status, internal Data Base Error /* Error opening report file. */ /* Error accessing report file. */ /* Error reading database for <AID> */ /* Error reading database for <AID> or its mate. */ /* Unable to read system configuration file. */
SNVS	Status, Not in Valid State /* Matrix is locked to a side. */ /* ENABLE is not valid while processing an upgrade. */ /* An IO AID is valid only when processing an upgrade. */ /* Already locked to the requested side. */ /* ACTION is not consistent with the rest of the shelves. */ /* FRCD is not valid while processing an upgrade. */ /* System is currently in ITM mode. */ /* Currently copy <copy_type> has GTI alarms on the matrix modules. */

SROF Status, Requested Operation Failed

```
/* Center Stage matrix sides have different card types. */
/* Unable to allocate USI response buffer. */
/* Card type (<card_type>) not supported. */
/* Power modules are unable to provide power */
/* Power card unable to provide power. */
/* Error reading matrix shelf. */
/* <AID> is not available. */
/* <AID> and <AID> are not available. */
/* <AID>, <AID>, <AID>, and <AID> are not available */
/* <AID> and <AID> cannot provide clock. */
/* Error reading database for <AID>. */
/* Error reading database for <AID> or its mate. */
/* One or more provisioned shelves did not respond to the CAN-YOU-SWITCH
query. */
```

EXAMPLES

In the following example, the system is requested to switch to copy1. Since the mode parameter is defaulted to NORM, the command is denied if the copy1 has errors.

```
SELECT-COPY::::LOCKCOPY1;
<SID> <YY-MM-DD> <HH:MM:SS>
M P71162 COMPLD
/* The SELECT-COPY was completed. */
/* Automatic data copy switching is disabled. */
/* Future data path failures will not be protected. */
/* SELECT-COPY::::LOCKCOPY0, [P71162] (1) */
```

RELATED COMMANDS

```
RTRV-COND-ALL
RTRV-COND-EQPT
RTRV-MTX
START-UPGRADE
STOP-UPGRADE
VRFY-COPY
```

COMMAND CODE: **SET-ACO-ALL**
COMMAND NAME: **SET AUDIBLE ALARM CUTOFF ALL**

PURPOSE

The SET-ACO-ALL command sets the system-wide Audible Alarm Cutoff (ACO) mode of operation. The three modes of ACO operation are:

- Delayed ACO Mode: Any audible alarm is generated for five seconds and then automatically silenced by the system.
- Immediate ACO Mode: No audible alarms are generated; all audible alarms are automatically cutoff immediately.
- Manual ACO Mode: Audible alarms are not automatically silenced by the system. Audible alarms are only cutoff manually by executing an OPR-ACO-ALL command, manually actuating an ACO switch, or by clearing the alarm condition.

The ACO mode applies to all alarmed conditions in the system. The ACO mode does not affect visual alarm indications (lamps or contact closures) or alarm reporting through the man-machine interface.

A SET-ACO-ALL command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

SET-ACO-ALL: [TID] : : [CTAG] : : ACOMODE;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
ACOMODE	{DELD, IMED, MAN} Default: Entry Required Addressing: None Description: ACO Mode, specifies the Alarm Cutoff mode. Values are: DELD Delayed ACO, an audible alarm cutoff is automatically generated five seconds after the detection of an alarm (the audible alarm is automatically silenced after five seconds). IMED Immediate ACO, an audible alarm cutoff is automatically generated immediately upon detection of an alarm (no audible alarm occurs). MAN Manual ACO, an audible alarm cutoff is not automatically generated. Audible alarms are only silenced manually by executing an OPR-ACO-ALL command, manually actuating an ACO switch, or by clearing the alarm condition.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
/* ACO MODE has been set to <ACOMODE> */
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

ACOMODE	{DELD, IMED, MAN}
	ACO Mode, indicates the Alarm Cutoff mode. Values are:
DELD	Delayed ACO, an audible alarm cutoff is automatically generated five seconds after the detection of an alarm (the audible alarm is automatically silenced after five seconds).
IMED	Immediate ACO, an audible alarm cutoff is automatically generated immediately upon detection of an alarm (no audible alarm occurs).
MAN	Manual ACO, an audible alarm cutoff is not automatically generated. Audible alarms are only silenced manually by executing an OPR-ACO-ALL command, manually actuating an ACO switch, or by clearing the alarm condition.

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID [-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid /* Invalid ACO MODE specified. */
SDBE	Status, internal Data Base Error /* Error reading the system configuration database. */ /* Error updating the system configuration database. */

EXAMPLES

In the following example, the audible alarm cutoff (ACO) mode is set to manual mode.

```
SET-ACO-ALL::::MAN;
```

The output response, shown below, assumes CID 2 was used to enter the command and a system generated CTAG value of P18004. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P18004 COMPLD
/* ACO MODE has been set to MAN */
/* SET-ACO-ALL::::MAN [P18004] (2) */
;
```

RELATED COMMANDS

```
OPR-ACO-ALL
RTRV-ACO-ALL
```

COMMAND CODE: **SET-ATTR-COM**
COMMAND NAME: **SET ATTRIBUTE COMMON**

PURPOSE

The SET-ATTR-COM command sets the notification code generated by the system for non-service affecting and service affecting common (no specific entity) condition types.

Upon execution of the SET-ATTR-COM command, any condition that exists for the specified condition type and service effect combination is updated with the new notification code.

A SET-ATTR-COM command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

SET-ATTR-COM: [TID] : [AID] : [CTAG] : : [NTFCNCDE] , [CONDTYPE] , , , , [SRVEFF] ;

INPUT PARAMETERS

TID	< 1–20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.												
AID	{COM} Default: {COM} Addressing: None Description: Common AID, used when a specific AID is not identified.												
CTAG	< 1–6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.												
NTFCNCDE	{CR, DFLT, MJ, MN, NA, NR} Default: {NA} Addressing: None Description: Notification Code, specifies the notification code that is generated by the system upon the occurrence of the event specified by CONDTYPE. Values are: <table> <tr> <td>CR</td><td>Critical Alarm (reported via REPT^ALM autonomous message).</td></tr> <tr> <td>DFLT</td><td>Default, the notification code for the specified condition type and service effect combination is set to the system default value. (Refer to Appendix C for a list of default notification codes.)</td></tr> <tr> <td>MJ</td><td>Major Alarm (reported via REPT^ALM autonomous message).</td></tr> <tr> <td>MN</td><td>Minor Alarm (reported via REPT^ALM autonomous message).</td></tr> <tr> <td>NA</td><td>Not Alarmed (reported via REPT^EVT autonomous message).</td></tr> <tr> <td>NR</td><td>Not Reported.</td></tr> </table>	CR	Critical Alarm (reported via REPT^ALM autonomous message).	DFLT	Default, the notification code for the specified condition type and service effect combination is set to the system default value. (Refer to Appendix C for a list of default notification codes.)	MJ	Major Alarm (reported via REPT^ALM autonomous message).	MN	Minor Alarm (reported via REPT^ALM autonomous message).	NA	Not Alarmed (reported via REPT^EVT autonomous message).	NR	Not Reported.
CR	Critical Alarm (reported via REPT^ALM autonomous message).												
DFLT	Default, the notification code for the specified condition type and service effect combination is set to the system default value. (Refer to Appendix C for a list of default notification codes.)												
MJ	Major Alarm (reported via REPT^ALM autonomous message).												
MN	Minor Alarm (reported via REPT^ALM autonomous message).												
NA	Not Alarmed (reported via REPT^EVT autonomous message).												
NR	Not Reported.												
CONDTYPE	{DATAFLT, EUA, FRNGSYNC, FSTSYNC, GOS-EC1, GOS-OC12, GOS-OC3, GOS-ST51, GOS-ST53C, GOS-T1, GOS-T3, GOS-VT1, HLDVRSYNC, INHFL, INIT, ITMIP, MANSELDATACPY0, MANSELDATACPY1, MANSWTOPRI, MANSWTOSEC, PAINTGRT, RCVRY, SWTOPRI, SWTOSEC, UPGRD1344, UPGRD2688, UPGRD3360} Default: < All applicable condition types listed above > Addressing: None Description: Condition Type, specifies the condition type for which the specified NTFCNCDE is to be set. (Refer to Appendix C for a list of all condition types). Values are:												

DATAFLT	Data integrity Fault, CRC error detected during a database read.
EUA	Emergency User Access activated.
FRNGSYNC	Free Running Synchronization, manual switch to free running clock reference synchronization mode.
FSTSYNC	Fast Acquisition Synchronization, manual or automatic switch to fast acquisition clock reference synchronization mode.
GOS-EC1	Grade of Service-EC1, system-wide EC1 GOS threshold reached.
GOS-OC12	Grade of Service-OC12, system-wide OC-12 GOS threshold reached.
GOS-OC3	Grade of Service-OC3, system-wide OC-3 GOS threshold reached.
GOS-ST1	Grade of Service-ST1, system-wide STS-1 GOS threshold reached.
GOS-ST3C	Grade of Service-ST3C, system-wide STS-3C GOS threshold reached.
GOS-T1	Grade of Service-T1, system-wide DS1 GOS threshold reached.
GOS-T3	Grade of Service-T3, system-wide DS3 GOS threshold reached.
GOS-VT1	Grade of Service-VT1, system-wide VT1.5 GOS threshold reached.
HLDOVRSYNC	Synchronization Holdover, manual or automatic switch to holdover clock reference synchronization mode.
INHFL	Inhibit Fault Locating, automatic system-wide fault isolation inhibited.
INIT	Initialization, system initialization in-process.
ITMIP	Installation Test and Maintenance (ITM) mode is set.
MANSELDATAOPY0	Manual Selection/Lock to Data Copy 0 due to execution of SELECT-COPY command.
MANSELDATAOPY1	Manual Selection/Lock to Data Copy 1 due to execution of SELECT-COPY command.
MANSWTOPRI	Manual Switch To Primary Synchronization Reference.
MANSWTOSEC	Manual Switch To Secondary Synchronization Reference.
PAINTGRT	Path Integrity Failure, a system-wide data or clock failure detected.
RCVRY	Recovery. The System level recovery has been executed. The user must issue INIT-SYS command.
SWTOPRI	Automatic Switch To Primary Synchronization Reference.
SWTOSEC	Automatic Switch To Secondary Synchronization Reference.

	UPGRD1344	672 Port to 1344 Port Upgrade in Progress.
	UPGRD2688	1344 Port to 2688 Port Upgrade in Progress.
	UPGRD3360	2688 Port to 3360 Port Upgrade in Progress.
SRVEFF	{NSA, SA}	
	Default:	< Both service effect values >
	Addressing:	None
	Description:	Service Effect, specifies the service effect of the condition type for which the specified NTFNCODE is to be set. Values are:
	NSA	Non-Service Affecting
	SA	Service Affecting

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent
	/* Condition type is not consistent with COM. */
IDNV	Input, Data Not Valid
	/* Invalid notification code specified: <NOTIFICATION CODE STRING>. */
	/* Invalid service effect specified: <SERVICE EFFECT STRING>. */
	/* Invalid condition type specified: <CONDITION TYPE STRING>. */
	/* Invalid Parameter Value. */
IIAC	Input, Invalid ACcess identifier
	/* AID must be COM. */
INUP	Input, Non-Null Unimplemented Parameter
	/* No matching attributes to update as requested by user. */
IPMS	Input, Parameter MiSsing
SDBE	Status, internal Data Base Error
	/* Unable to read file <FILENAME>, Error <ERROR NUMBER> */
	/* Unable to update file <FILENAME>, Error <ERROR NUMBER> */

EXAMPLES

In the following example, the notification code is set to minor (MN) for the non-service affecting INHFL condition type.

```
SET-ATTR-COM: : : : MN, INHFL, , , , NSA;
```

In the following example, the notification code for all service affecting and non-service affecting common condition types are set to the system default values.

```
SET-ATTR-COM: : : : DFLT;
```

RELATED COMMANDS

RTRV-ALM-ALL
RTRV-ALM-COM
RTRV-ATTR-COM
RTRV-COND-ALL
RTRV-COND-COM
SET-GOS-EC1
SET-GOS-OC12
SET-GOS-OC3
SET-GOS-ST51
SET-GOS-T1
SET-GOS-T3
SET-GOS-VT1

RELATED AUTONOMOUS RESPONSES

REPT^ALM^COM
REPT^EVT^COM

COMMAND CODE: **SET-ATTR-EC1**
COMMAND NAME: **SET ATTRIBUTE EC1**

PURPOSE

The SET-ATTR-EC1 command sets the notification code generated by the system for non-service affecting and service affecting EC1 standing conditions pertaining to the specified EC1 port.

Upon execution of the SET-ATTR-EC1 command, any condition that exists for the specified EC1 port, condition type, and service effect combination is updated with the new notification code.

A SET-ATTR-EC1 command is denied if:

- The specified EC1 port is not provisioned (via ENT-EC1).
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

SET-ATTR-EC1: [TID] :AID: [CTAG] :: [NTFCNCDE] , [CONDTYPE] , [LOCN] , [DIRN] ,
[TMPEFF] , [SRVEFF] ;

INPUT PARAMETERS

TID	<p>< 1-20 VALID TID CHARACTERS ></p> <p>Default: <SID></p> <p>Addressing: None</p> <p>Description: Target Identifier, specifies the network node TID for the command.</p>												
AID	<p>EC1_AID:</p> <p>{EC1-{1-3840} }</p> <p>(EC1-EC1/STS1#)</p> <p>Default: Entry Required</p> <p>Addressing: &&-ranging and &-grouping</p> <p>Description: EC1 AID, identifies the EC1 port.</p>												
CTAG	<p>< 1-6 VALID CTAG CHARACTERS ></p> <p>Default: < System assigned CTAG value ></p> <p>Addressing: None</p> <p>Description: Correlation Tag, associates input command with its output responses.</p>												
NTFCNCDE	<p>{CR, DFLT, MJ, MN, NA, NR}</p> <p>Default: {NA}</p> <p>Addressing: None</p> <p>Description: Notification Code, specifies the notification code that is generated by the system upon the occurrence of the event specified by CONDTYPE. Values are:</p> <table> <tr> <td>CR</td><td>Critical Alarm (reported via REPT^ALM autonomous message).</td></tr> <tr> <td>DFLT</td><td>Default, the notification code for the specified near-end and/or far-end condition type and service effect combination is set to the system default value (as set via SET-DFLTATTR-EC1).</td></tr> <tr> <td>MJ</td><td>Major Alarm (reported via REPT^ALM autonomous message).</td></tr> <tr> <td>MN</td><td>Minor Alarm (reported via REPT^ALM autonomous message).</td></tr> <tr> <td>NA</td><td>Not Alarmed (reported via REPT^EVT autonomous message).</td></tr> <tr> <td>NR</td><td>Not Reported.</td></tr> </table>	CR	Critical Alarm (reported via REPT^ALM autonomous message).	DFLT	Default, the notification code for the specified near-end and/or far-end condition type and service effect combination is set to the system default value (as set via SET-DFLTATTR-EC1).	MJ	Major Alarm (reported via REPT^ALM autonomous message).	MN	Minor Alarm (reported via REPT^ALM autonomous message).	NA	Not Alarmed (reported via REPT^EVT autonomous message).	NR	Not Reported.
CR	Critical Alarm (reported via REPT^ALM autonomous message).												
DFLT	Default, the notification code for the specified near-end and/or far-end condition type and service effect combination is set to the system default value (as set via SET-DFLTATTR-EC1).												
MJ	Major Alarm (reported via REPT^ALM autonomous message).												
MN	Minor Alarm (reported via REPT^ALM autonomous message).												
NA	Not Alarmed (reported via REPT^EVT autonomous message).												
NR	Not Reported.												

CONDTYPE	<p>NEAR-END_CONDDTYPE:{ACTLPBK, AIS, INHPMREPT, LOF, LOS, MAN}, FAR-END_CONDDTYPE:{RFI}</p> <p>Default: < All applicable condition types listed above ></p> <p>Addressing: None</p> <p>Description: Condition Type, specifies the condition type for which the specified NTFNCODE is to be set. (Refer to Appendix C for a list of all condition types.) Values are:</p> <table> <tr> <td>ACTLPBK</td><td>Active Loopback, the EC1 port is in loop back. (Near-End only.)</td></tr> <tr> <td>AIS</td><td>Alarm Indication Signal, AIS detected. (Near-End only.)</td></tr> <tr> <td>INHPMREPT</td><td>Inhibit Performance Monitoring Report, PM report capability inhibited. (Near-End only.)</td></tr> <tr> <td>LOF</td><td>Loss Of Frame detected. (Near-End only.)</td></tr> <tr> <td>LOS</td><td>Loss Of Signal detected. (Near-End only.)</td></tr> <tr> <td>MAN</td><td>Manual removal (logical removal was performed on the facility). (Near-End only.)</td></tr> <tr> <td>RFI</td><td>Remote Failure Indication detected. (Far-End only.)</td></tr> </table> <p>Restrictions: SET-ATTR-EC1 is denied if the specified CONDDTYPE value is not supported for the specified LOCN value (e.g., CONDDTYPE of AIS and LOCN of FEND is entered).</p>	ACTLPBK	Active Loopback, the EC1 port is in loop back. (Near-End only.)	AIS	Alarm Indication Signal, AIS detected. (Near-End only.)	INHPMREPT	Inhibit Performance Monitoring Report, PM report capability inhibited. (Near-End only.)	LOF	Loss Of Frame detected. (Near-End only.)	LOS	Loss Of Signal detected. (Near-End only.)	MAN	Manual removal (logical removal was performed on the facility). (Near-End only.)	RFI	Remote Failure Indication detected. (Far-End only.)
ACTLPBK	Active Loopback, the EC1 port is in loop back. (Near-End only.)														
AIS	Alarm Indication Signal, AIS detected. (Near-End only.)														
INHPMREPT	Inhibit Performance Monitoring Report, PM report capability inhibited. (Near-End only.)														
LOF	Loss Of Frame detected. (Near-End only.)														
LOS	Loss Of Signal detected. (Near-End only.)														
MAN	Manual removal (logical removal was performed on the facility). (Near-End only.)														
RFI	Remote Failure Indication detected. (Far-End only.)														
LOCN	<p>{FEND, NEND}</p> <p>Default: < All location values applicable to the specified condition type ></p> <p>Addressing: None</p> <p>Description: Location, specifies the location where the condition type is monitored. Values are:</p> <table> <tr> <td>FEND</td><td>Far-End, events occurring at a distant network element.</td></tr> <tr> <td>NEND</td><td>Near-End, events occurring at the system.</td></tr> </table> <p>Restrictions: SET-ATTR-EC1 is denied if the specified LOCN value is not supported for the specified CONDDTYPE value (e.g., CONDDTYPE of AIS and LOCN of FEND is entered).</p>	FEND	Far-End, events occurring at a distant network element.	NEND	Near-End, events occurring at the system.										
FEND	Far-End, events occurring at a distant network element.														
NEND	Near-End, events occurring at the system.														
DIRN	<p>{NA, RCV, TRMT}</p> <p>Default: < All applicable directions ></p> <p>Addressing: None</p> <p>Description: Direction, specifies the direction of the condition type being monitored. The value for DIRN is verified, but does not affect the function of the SET-ATTR-EC1 command.</p> <table> <tr> <td>NA</td><td>Not Applicable</td></tr> <tr> <td>RCV</td><td>Receive side</td></tr> <tr> <td>TRMT</td><td>Transmit direction</td></tr> </table>	NA	Not Applicable	RCV	Receive side	TRMT	Transmit direction								
NA	Not Applicable														
RCV	Receive side														
TRMT	Transmit direction														
TMPER	<p>{15-MIN, 1-DAY}</p> <p>Default: {15-MIN}</p> <p>Addressing: None</p> <p>Description: Time Period. The value for TMPER is verified, but does not affect the function of the SET-ATTR-EC1 command.</p>														
SRVEFF	<p>{NSA, SA}</p> <p>Default: < Both service effect values ></p> <p>Addressing: None</p> <p>Description: Service Effect, specifies the service effect of the condition type for which the specified NTFNCODE is to be set. Values are:</p> <table> <tr> <td>NSA</td><td>Non-Service Affecting</td></tr> <tr> <td>SA</td><td>Service Affecting</td></tr> </table>	NSA	Non-Service Affecting	SA	Service Affecting										
NSA	Non-Service Affecting														
SA	Service Affecting														

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent /* Condition type is not consistent with <FACILITY TYPE STRING>. */ /* Location is not consistent with <FACILITY TYPE STRING> <CONDITION TYPE STRING>. */
IDNV	Input, Data Not Valid /* Invalid notification code specified: <NOTIFICATION CODE STRING>. */ /* Invalid service effect specified: <SERVICE EFFECT STRING>. */ /* Invalid condition type specified: <CONDITION TYPE STRING>. */ /* Invalid location specified: <LOCATION STRING>. */ /* Invalid Parameter Value. */
IIAC	Input, Invalid ACcess identifier /* Invalid Access ID specified. */
INUP	Input, Non-Null Unimplemented Parameter /* No matching attributes to update as requested by user. */
SDBE	Status, internal Data Base Error /* Unable to read file <FILENAME>, Error <ERROR NUMBER> */ /* Unable to update file <FILENAME>, Error <ERROR NUMBER> */
SNVS	Status, Not in Valid State /* Facility is unprovisioned. */ /* AID not as provisioned. */

EXAMPLES

In the following example, the notification code is set to major (MJ) for the near-end service affecting LOS condition type for EC1 port EC1-1.

```
SET-ATTR-EC1::EC1-1:::MJ,LOS,NEND,,SA;
```

In the following example, the notification code is set to not alarmed (NA) for both the non-service affecting and service affecting RFI condition type for EC1 ports EC1-1 through EC1-48.

```
SET-ATTR-EC1::EC1-1&-48:::RFI;
```

In the following example, the notification code for all service affecting and non-service affecting condition types is set to its system default value for EC1 port EC1-6.

```
SET-ATTR-EC1::EC1-6:::DFLT;
```

RELATED COMMANDS

```
RTRV-ALM-ALL
```

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RTRV-ALM-EC1

RTRV-ATTR-EC1

RTRV-COND-ALL

RTRV-COND-EC1

RTRV-DFLTATTR-EC1

SET-DFLTATTR-EC1

RELATED AUTONOMOUS RESPONSES

REPT^ALM^EC1

REPT^EVT^EC1

COMMAND CODE: **SET-ATTR-EQPT**
COMMAND NAME: **SET ATTRIBUTE EQUIPMENT**

PURPOSE

The SET-ATTR-EQPT command sets the notification code generated by the system for both non-service affecting and service affecting equipment condition types pertaining to the specified type of equipment entity.

The SET-ATTR-EQPT command is executed regardless of whether associated equipment entities are provisioned. Upon execution of the command, any condition that exists for the specified type of equipment, condition type, and service effect combination is updated with the new notification code.

A SET-ATTR-EQPT command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

SET-ATTR-EQPT: [TID] :AID: [CTAG] :: [NTFCNCDE] , [CONDTYPE] , , , , [SRVEFF] ;

INPUT PARAMETERS

TID	<1–20 VALID TID CHARACTERS> Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	{ACM, ALL, CDA, CDB, CID, CIM, CKB, CPU, DSB, DSI, DSK, EOB, EP3, ES1, ESA, FAN, FUSE, G1EOB, G1EP3, G1ES1, G1IOB, G1IRPB, G1M16, G1M32, G1M40, G1MRPB, G1O1B, G1O4M, G1S3M, G4EOB, G4IOB, G4OXB, HMU, ICM, IOB, IPB, IPU, LMU, LT1, LT2, LT4, LT5, LT8, M16, M32, M40, MCB, O1B, O4M, OPD, OXB, P39, P56, PDU, PRT, PSF, PST, QUAD, RDU, RPB, RSP, S3M, SBT, SHELF, SIO, SPB, SWI} Default: Entry Required Addressing: None Description: Equipment AID, identifies the equipment entity name/type. Values are: ACM All Administrative Communications Module circuit packs. ALL All applicable AIDs pertaining to the specified CONDTYPE. CDA All Clock Distribution A circuit packs. CDB All Clock Distribution B circuit packs. CID All Communications Interface Devices (VDT, TTY, PRN). CIM All Communications Interface Module circuit packs. CKB All Circuit Breakers, circuit breakers in the PDU/RDU/RSP. CPU All Central Processing Unit circuit packs. DSB All DCC Server Boards. DSI All DS1 Input/Output circuit packs. DSK All Disk Drives. EOB All Electrical to Optical Board circuit packs. EP3 All Electrical Plesiochronous DS3/STS1 Interface circuit packs. ES1 All Electrical Plesiochronous STS1 Interface circuit packs. ESA All External DS1 Signal Adapter circuit packs. FAN All Fan/Blower assemblies. FUSE All Fuses, PDU fuses. G1EOB All GTI cables carrying an STM1 signal and terminating on an EOB. G1EP3 All GTI cables carrying an STM1 signal and terminating on an EP3. G1ES1 All GTI cables carrying an STM1 signal and terminating on an ES1. G1IOB All GTI cables coming into IOB module and carrying STM–1 signal.

G1IRPB	All GTI cables carrying an STM1 signal and terminating on the I/O side of the RPB circuit pack.
G1M16	All GTI cables carrying an STM1 signal and terminating on a M16.
G1M32	All GTI cables carrying an STM1 signal and terminating on a M32.
G1M40	All GTI cables carrying an STM1 signal and terminating on a M40.
G1MRPB	All GTI cables carrying an STM1 signal and terminating on the matrix side of the RPB circuit pack.
G1O1B	All GTI cables carrying an STM1 signal and terminating on an O1B.
G1O4M	All GTI cables carrying an STM1 signal and terminating on an O4M.
G1S3M	All GTI cables carrying an STM1 signal and terminating on an S3M.
G4EOB	All GTI cables carrying an STM4 signal and terminating on an EOB.
G4IOB	All GTI cables coming into IOB module and carrying STM-4 signal.
G4OXB	All GTI cables carrying an STM4 signal and terminating on an OXB.
HMU	All High Speed Muldem Unit (M23 multiplexing) circuit packs.
ICM	All Intelligent Communications Module circuit packs.
IOB	All Inter-rack Optics Board circuit packs.
IPB	All Internal Protection Board circuit packs.
IPU	All Interface Processing Unit circuit packs.
LMU	All Low Speed Muldem Unit (M12 multiplexing) circuit packs.
LT1	All Level 1 Translator (RS-232) circuit packs.
LT2	All Level 2 Translator (RS-449/422) circuit packs.
LT4	All Level 4 Translator (ACL) circuit packs.
LT5	All Level 5 Translator (RS449/423 & LAN) circuit packs.
LT8	All Level 8 Translator (ACL) circuit packs.
M16	All Matrix End/Center Stage 16 circuit packs.
M32	All Matrix End Stage 32 circuit packs.
M40	All Matrix End/Center Stage 40 circuit packs.
MCB	All Master Clock Board circuit packs.
O1B	All Optical Interface Level 1 (OC-3) Board circuit packs.
O4M	All Optical Interface Level 4 (OC-12) Board circuit packs.
OPD	All Optical Disk Drives.
OXB	All Optical Transceiver Board circuit packs.
P39	All Power Supply, 3.9V circuit packs.
P56	All Power Supply, 5.6V circuit packs.
PDU	All Power Distribution Units.
PRT	All DS1 Protect circuit packs.
PSF	All Power Supply, 5V circuit packs.
PST	All Power Supply, 12V circuit packs.
QUAD	All DS1 Shelf Quadrants.
RDU	All Rack Distribution Units.
RPB	All Ring Protection Board circuit packs.
RSP	All Rack Status Panels.
S3M	All STS-3C circuit packs.
SBT	All System Bus Termination circuit packs.
SHELF	All I/O, EOC, End Stage, or Center Stage Shelves.
SIO	All Serial Input/Output circuit packs.
SPB	All Satellite Processor Board circuit packs.
SWI	All DS1 Switch circuit packs.
Restrictions:	SET-ATTR-EQPT is denied if the specified AID is not valid for the specified CONDTYPE. (Refer to Appendix C and CONDTYPE below.) SET-ATTR-EQPT is denied if AID of ALL is entered and a value for NTFNCNDE and CONDTYPE is not entered.

SET-ATTR-EQPT is denied for a 240-port LMC system if an AID of CDA is entered.

CTAG	<p><1-6 VALID CTAG CHARACTERS></p> <p>Default: <System Assigned CTAG Value></p> <p>Addressing: None</p> <p>Description: Correlation Tag, associates input command with its output responses.</p>														
NTFCNCDE	<p>{CR, DFLT, MJ, MN, NA, NR}</p> <p>Default: {NA}</p> <p>Addressing: None</p> <p>Description: Notification Code, specifies the notification code that is generated by the system upon the occurrence of the event specified by CONDTYPE. Values are:</p> <table> <tr> <td>CR</td><td>Critical Alarm (reported via REPT^ALM autonomous message).</td></tr> <tr> <td>DFLT</td><td>Default, the notification code for the specified condition type and service effect combination is set to the system default value. (Refer to Appendix C for a list of default notification codes.)</td></tr> <tr> <td>MJ</td><td>Major Alarm (reported via REPT^ALM autonomous message).</td></tr> <tr> <td>MN</td><td>Minor Alarm (reported via REPT^ALM autonomous message).</td></tr> <tr> <td>NA</td><td>Not Alarmed (reported via REPT^EVT autonomous message).</td></tr> <tr> <td>NR</td><td>Not Reported.</td></tr> </table> <p>Restrictions: SET-ATTR-EQPT is denied if no value for NTFCNCDE is entered and AID of ALL is entered.</p>	CR	Critical Alarm (reported via REPT^ALM autonomous message).	DFLT	Default, the notification code for the specified condition type and service effect combination is set to the system default value. (Refer to Appendix C for a list of default notification codes.)	MJ	Major Alarm (reported via REPT^ALM autonomous message).	MN	Minor Alarm (reported via REPT^ALM autonomous message).	NA	Not Alarmed (reported via REPT^EVT autonomous message).	NR	Not Reported.		
CR	Critical Alarm (reported via REPT^ALM autonomous message).														
DFLT	Default, the notification code for the specified condition type and service effect combination is set to the system default value. (Refer to Appendix C for a list of default notification codes.)														
MJ	Major Alarm (reported via REPT^ALM autonomous message).														
MN	Minor Alarm (reported via REPT^ALM autonomous message).														
NA	Not Alarmed (reported via REPT^EVT autonomous message).														
NR	Not Reported.														
CONDTYPE	<p>{ALMCKT, BKUPMEMP, BKUPMEMS, BPMISM, BPTERM, CARLOS, CD, CLKLCK0, CLKLCK1, CNTRLRFL, CONTBUS, CONTCOM, CONTR, CTNEQPT, DBF, DBFFT, DCCEQPT, DTLCKCPYFL, DUPMACADDR, DUPTARPENTRY, FA, FANEQPT, FWMISM, GT1, GT4, IMPROPRMVL, INHSWDX, INHSWPR, INHSWWKG, INIT, INTERR, LOCKOUT, LOTRI, MAN, MANWKSWPR, MISC-1, OSIPARMISM, PRCDRERR, PWR, RARFAIL, SWFTDWN, SYNCEQPT, TERM-EC1, TERM-OC3, TERM-OC12, TERM-T1, TERM-T3, TERM-T3EC1, TSA, TSI, WKSWPR, XIDMISM}</p> <p>Default: < All applicable condition types listed above ></p> <p>Addressing: None</p> <p>Description: Condition Type, specifies the condition type for which the specified NTFCNCDE is to be set. (Refer to Appendix C for a list of all condition types and a cross-reference of condition types to equipment types). Values are:</p> <table> <tr> <td>ALMCKT</td><td>Alarm Circuit, RDU/RSP failure detected. (Valid for an AID of ALL, RDU, RSP.)</td></tr> <tr> <td>BKUPMEMP</td><td>Backup Memory-Primary, magnetic disk backup failure. (Valid for an AID of ALL, DSK.)</td></tr> <tr> <td>BKUPMEMS</td><td>Backup Memory-Secondary, optical disk/tape drive backup failure. (Valid for an AID of ALL, OPD.)</td></tr> <tr> <td>BPMISM</td><td>Backplane Mismatch, mismatch between the provisioned shelf and the installed shelf backplane. (Valid for an AID of ALL, SHELF.)</td></tr> <tr> <td>BPTERM</td><td>Backplane Termination failure detected in the SI48 I/O, EOC, End Stage, or Center Stage shelf. (Valid for an AID of ALL, SHELF.)</td></tr> <tr> <td>CARLOS</td><td>Carrier Loss, loss of carrier event during IEEE 802.3 frame transmission on the LAN. (Valid for an AID of ALL, CID, DSB.)</td></tr> <tr> <td>CD</td><td>Control and Display interface audit error detected. (Valid</td></tr> </table>	ALMCKT	Alarm Circuit, RDU/RSP failure detected. (Valid for an AID of ALL, RDU, RSP.)	BKUPMEMP	Backup Memory-Primary, magnetic disk backup failure. (Valid for an AID of ALL, DSK.)	BKUPMEMS	Backup Memory-Secondary, optical disk/tape drive backup failure. (Valid for an AID of ALL, OPD.)	BPMISM	Backplane Mismatch, mismatch between the provisioned shelf and the installed shelf backplane. (Valid for an AID of ALL, SHELF.)	BPTERM	Backplane Termination failure detected in the SI48 I/O, EOC, End Stage, or Center Stage shelf. (Valid for an AID of ALL, SHELF.)	CARLOS	Carrier Loss, loss of carrier event during IEEE 802.3 frame transmission on the LAN. (Valid for an AID of ALL, CID, DSB.)	CD	Control and Display interface audit error detected. (Valid
ALMCKT	Alarm Circuit, RDU/RSP failure detected. (Valid for an AID of ALL, RDU, RSP.)														
BKUPMEMP	Backup Memory-Primary, magnetic disk backup failure. (Valid for an AID of ALL, DSK.)														
BKUPMEMS	Backup Memory-Secondary, optical disk/tape drive backup failure. (Valid for an AID of ALL, OPD.)														
BPMISM	Backplane Mismatch, mismatch between the provisioned shelf and the installed shelf backplane. (Valid for an AID of ALL, SHELF.)														
BPTERM	Backplane Termination failure detected in the SI48 I/O, EOC, End Stage, or Center Stage shelf. (Valid for an AID of ALL, SHELF.)														
CARLOS	Carrier Loss, loss of carrier event during IEEE 802.3 frame transmission on the LAN. (Valid for an AID of ALL, CID, DSB.)														
CD	Control and Display interface audit error detected. (Valid														

	for an AID of ALL, CID.)
CLKLCK0	Clock Lock 0, the clock path of the I/O, EOC, ES, and CS locked to clock bus 0. (Valid for an AID of ALL, QUAD, SHELF.)
CLKLCK1	Clock Lock 1, the clock path of the I/O, EOC, ES, and CS locked to clock bus 1. (Valid for an AID of ALL, QUAD, SHELF.)
CNTRLRFL	Controller Failure, LAPD or LAN controller failed set on the DSB. (Valid for an AID of ALL, DSB.)
CONTBUS	Control Bus, shelf control bus interface failure. (Valid for an AID of ALL, IPU, SPB.)
CONTCOM	Control Communication equipment failure. (Valid for an AID of ALL, ACM, CIM, ICM, SIO.)
CONTR	Control processor equipment failure. (Valid for an AID of ALL, CPU, IPU, SPB.)
CTNEQPT	Connection Equipment, facility/circuit interconnection equipment failure. (Valid for an AID of ALL, EOB, IOB, IPB, LMU, OXB, RPB, S3M.)
DBF	Database Backup Failure, OPD database backup failure detected (on second try). (Valid for an AID of ALL, OPD.)
DBFFT	Database Backup Failed on First Try, OPD database backup failure detected on first try. (Valid for an AID of ALL, OPD.)
DCCEQPT	Data Communication Channel Equipment, DCC Server Board failed. (Valid for an AID of ALL, DSB.)
DTLCKCPYFL	Data Lock Copy Fail, I/O modules in shelf/quad not locked to the copy specified. (Valid for an AID of ALL, SHELF, QUAD.)
DUPMACADDR	Duplicate MAC Address detected on the LAN. (Valid for an AID of ALL, DSB.)
DUPTARPEENTRY	Duplicate TARP adjacency table. (Valid for an AID of ALL, DSB.)
FA	Fuse Alarm, a PDU/RDU/RSP circuit breaker or PDU fuse has failed. (Valid for an AID of ALL, CKB, FUSE.)
FANEQPT	Fan Equipment, one or more of the fans in a fan assembly failed. (Valid for an AID of ALL, FAN.)
FWMISM	Firmware Mismatch, firmware version number does not match that in the system database. (Valid for an AID of ALL, MCB.)
GT1	GTI Cable fault for GTI cable carrying an STM1 signal (Valid for an AID of ALL, G1EOB, G1EP3, G1ES1, G1IOB, G1IRPB, G1M16, G1M32, G1M40, G1MRPB, G1S3M, G1O1B, G1O4M.)
GT4	GTI Cable fault for GTI cable carrying an STM4 signal (Valid for an AID of ALL, G4EOB, G4IOB, G4OXB.)
IMPROPRMVL	Improper Removal, result of a physical circuit pack removal that was not preceded by a logical removal. (Valid for AID of ALL, ACM, CDA, CDB, CIM, CPU, DSB, DSI, EOB, EP3, ES1, ESA, FAN, HMU, ICM, IOB, IPB, IPU, LT1, LT2, LT4, LT5, LT8, M16, M32, M40, MCB, O1B, O4M, OXB, P39, P56, PDU, PRT, PSF, PST, RDU, RPB, S3M, SBT, SIO, SPB, SWI.)
INHSDWX	Inhibit Switch Duplex, automatic copy switching of duplex equipment inhibited. (Valid for an AID of ALL, CPU, IPU,

	SPB.)
INHSWPR	Inhibit Switch to Protection, automatic protection switching of a main circuit pack to protection unit is inhibited. (Valid for an AID of ALL, DSI, EP3, ES1, HMU, LMU.)
INHSWWKG	Inhibit Switch to Working, automatic switching of a main circuit pack back to working (from protection) is inhibited. (Valid for an AID of ALL, DSI, EP3, ES1, HMU, LMU.)
INIT	Initialization, shelf initialization in-process. (Valid for an AID of ALL, SHELF.)
INTERR	Internal Error, internal error suspected on equipment. (Valid for an AID of ALL, CDA, CDB, DSI, EOB, EP3, ES1, HMU, IOB, IPB, LMU, M16, M32, M40, MCB, O1B, O4M, OXB, RPB, S3M.)
LOCKOUT	LockOut of automatic revertive switching due to excessive protection switching. (Valid for an AID of ALL, DSI, EP3, ES1, HMU, LMU.)
LOTRI	Loss Of Offboard Timing Reference Input from mate Master Clock Board circuit pack. (Valid for an AID of ALL, MCB.)
MAN	Manual removal (logical removal was performed on a circuit pack). (Valid for an AID of ALL, ACM, CDA, CDB, CIM, CPU, DSB, DSI, DSK, EOB, EP3, ES1, HMU, ICM, IOB, IPB, IPU, LMU, M16, M32, M40, MCB, O1B, O4M, OXB, P39, P56, PSF, RPB, S3M, SIO, SPB.)
MANWKSWPR	Manual Working Switched to Protection, main/working unit was manually switched to the protection unit. (Valid for an AID of ALL, DSI, EP3, ES1, HMU, LMU.)
MISC-1	Miscellaneous Class-1, slave MCB is not ready. (Valid for an AID of ALL, MCB.)
OSIPARMISM	OS Initialization Parameter Mismatch, upper layer parameters or lower layer parameters specific to the LAN or manual area addresses are mismatched between two redundant DSBs. (Valid for an AID of ALL, DSB.)
PRCDRERR	Procedure Error, installed equipment does not support the facility provisioning. (Valid for an AID of ALL, ACM, CDA, CDB, CIM, CPU, DSB, DSI, EOB, EP3, ES1, HMU, ICM, IOB, IPB, IPU, LMU, LT1, LT2, LT4, LT5, LT8, M16, M32, M40, MCB, OXB, O1B, O4M, P39, P56, PRT, RPB, S3M, SIO, SWI.)
PWR	Power, internal power failure detected. (Valid for an AID of ALL, P39, P56, PSF, PST, RSP.)
RARFAIL	Re-Arrangement Failed, cross-connect rearrangement through the matrix failed due to SPB communication problem. (Valid for an AID of ALL, M16, M32, M40, SPB.)
SWFTDWN	Software Download is in process on a circuit pack. (Valid for an AID of ALL, ACM, CIM, DSB, EP3, ES1, ICM, IPU, M16, M32, M40, MCB, O1B, O4M, OXB, RPB, S3M, SPB.)
SYNCEQPT	Synchronization Equipment failure detected. (Valid for an AID of ALL, CDA, CDB, MCB.)
TERM-EC1	Termination Equipment-EC1, ES1 circuit pack failure. (Valid for an AID of ALL, ES1.)
TERM-OC3	Termination Equipment-OC3, O1B circuit pack failure. (Valid for an AID of ALL, O1B.)

	TERM-OC12	Termination Equipment-OC12, O4M circuit pack failure. (Valid for an AID of ALL, O4M.)
	TERM-T1	Termination Equipment-T1, DSI circuit pack failure. (Valid for an AID of ALL, DSI.)
	TERM-T3	Termination Equipment-T3, HMU circuit pack failure. (Valid for an AID of ALL, HMU.)
	TERM-T3EC1	Termination Equipment-T3/EC1, EP3 circuit pack failure. (Valid for an AID of ALL, EP3.)
	TSA	Test Session Active, maintenance test session active on the equipment. (Valid for an AID of ALL, DSI, EP3, ES1, HMU, LMU, M16, M32, O1B, O1B, O4M, S3M.)
	TSI	Time Slot Interchange equipment failure. (Valid for an AID of ALL, M16, M32, M40.)
	WKSWPR	Working Switched to Protection, main/working unit automatically switched to the protection unit. (Valid for an AID of ALL, DSI, EP3, ES1, HMU, LMU.)
	XIDMISM	Connection ID Mismatch, internal Connection ID Mismatch detected in the I/O shelf/quad. (Valid for an AID of ALL, QUAD, SHELF)
	Restrictions:	SET-ATTR-EQPT is denied if no value for CONDDTYPE is entered and AID of ALL is entered. SET-ATTR-EQPT is denied if the specified CONDDTYPE is not valid for the specified AID.
SRVEFF	{NSA, SA}	
	Default:	< Both service effect values >
	Addressing:	None
	Description:	Service Effect, specifies the service effect attribute of the condition type for which the specified NTFNCODE is to be set. Values are:
	NSA	Non-Service Affecting.
	SA	Service Affecting.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

```

IDNV      Input, Data Not Valid
          /* Invalid notification code specified: <NOTIFICATION CODE STRING>. */
          /* Invalid service effect specified: <SERVICE EFFECT STRING>. */
          /* Invalid condition type specified: <CONDITION TYPE STRING>. */
          /* Invalid Parameter Value. */

```

IIAC	Input, Invalid ACcess identifier /* Invalid card type specified: <CARD TYPE STRING>. */
INUP	Input, Non-Null Unimplemented Parameter /* No matching attributes to update as requested by user. */
IPMS	Input, Parameter MiSSing /* For AID = ALL, the notification code must be specified. */ /* For AID = ALL, the condition type must be specified. */
SDBE	Status, internal Data Base Error /* Unable to read file <FILENAME>, Error <ERROR NUMBER> */ /* Unable to update file <FILENAME>, Error <ERROR NUMBER> */

EXAMPLES

In the following example, the notification code is set to minor (MN) for non-service affecting MAN condition types for all applicable equipment entities.

```
SET-ATTR-EQPT: :ALL: : :MN,MAN, , , ,NSA;
```

In the following example, the notification code for service affecting and non-service affecting IMPROPRMVL condition types is set to its system default value for all equipment entities.

```
SET-ATTR-EQPT: :ALL: : :DFLT, IMPROPRMVL;
```

RELATED COMMANDS

```
CLR-ALM-EQPT  
RTRV-ALM-ALL  
RTRV-ALM-EQPT  
RTRV-ATTR-EQPT  
RTRV-COND-ALL  
RTRV-COND-EQPT
```

RELATED AUTONOMOUS RESPONSES

```
REPT^ALM^EQPT  
REPT^EVT^EQPT
```


COMMAND CODE: **SET-ATTR-F3**
COMMAND NAME: **SET ATTRIBUTE F3**

PURPOSE

The SET-ATTR-F3 command sets the notification code generated by the system for non-service affecting and service affecting F3 standing conditions pertaining to the specified F3 port.

Upon execution of the SET-ATTR-F3 command, any condition that exists for the specified F3 port, condition type, and service effect combination is updated with the new notification code.

A SET-ATTR-F3 command is denied if:

- The specified F3 port is not provisioned (via ENT-F3).
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

SET-ATTR-F3 : [TID] : AID : [CTAG] : : [NTFCNCDE] , [CONDTYPE] , [LOCN] , [DIRN] ,
[TMPER] , [SRVEFF] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.												
AID	F3_AID: {T3F3-{1-4800}-{1-14}} (T3F3-DS3#-Fractional_DS3#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: F3 AID, identifies the F3 port.												
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.												
NTFCNCDE	{CR, DFLT, MJ, MN, NA, NR} Default: {NA} Addressing: None Description: Notification Code, specifies the notification code that is generated by the system upon the occurrence of the event specified by CONDDTYPE. Values are: <table><tr><td>CR</td><td>Critical Alarm (reported via REPT^ALM autonomous message).</td></tr><tr><td>DFLT</td><td>Default, the notification code for the specified near-end and/or far-end condition type and service effect combination is set to the system default value (as set via SET-DFLTATTR-F3).</td></tr><tr><td>MJ</td><td>Major Alarm (reported via REPT^ALM autonomous message).</td></tr><tr><td>MN</td><td>Minor Alarm (reported via REPT^ALM autonomous message).</td></tr><tr><td>NA</td><td>Not Alarmed (reported via REPT^EVT autonomous message).</td></tr><tr><td>NR</td><td>Not Reported.</td></tr></table>	CR	Critical Alarm (reported via REPT^ALM autonomous message).	DFLT	Default, the notification code for the specified near-end and/or far-end condition type and service effect combination is set to the system default value (as set via SET-DFLTATTR-F3).	MJ	Major Alarm (reported via REPT^ALM autonomous message).	MN	Minor Alarm (reported via REPT^ALM autonomous message).	NA	Not Alarmed (reported via REPT^EVT autonomous message).	NR	Not Reported.
CR	Critical Alarm (reported via REPT^ALM autonomous message).												
DFLT	Default, the notification code for the specified near-end and/or far-end condition type and service effect combination is set to the system default value (as set via SET-DFLTATTR-F3).												
MJ	Major Alarm (reported via REPT^ALM autonomous message).												
MN	Minor Alarm (reported via REPT^ALM autonomous message).												
NA	Not Alarmed (reported via REPT^EVT autonomous message).												
NR	Not Reported.												
CONDTYPE	{INHMPREPT} Default: < All applicable condition types listed above > Addressing: None Description: Condition Type, specifies the condition type for which the specified NTFCNCDE is to be set. (Refer to Appendix C for a list of all condition types.) Values are: <table><tr><td>INHMPREPT</td><td>Inhibit Performance Monitoring Report, PM report capability inhibited.</td></tr></table>	INHMPREPT	Inhibit Performance Monitoring Report, PM report capability inhibited.										
INHMPREPT	Inhibit Performance Monitoring Report, PM report capability inhibited.												

LOCN	{NEND}	
	Default:	< All location values applicable to the specified condition type >
	Addressing:	None
	Description:	Location, specifies the location where the condition type is monitored. Values are:
	NEND	Near-End, events occurring at the system.
DIRN	{NA, RCV}	
	Default:	{NA}
	Addressing:	None
	Description:	Direction, specifies the direction of the condition type being monitored. The value for DIRN is verified, but does not affect the function of the SET-ATTR-F3 command.
	NA	Not Applicable
	RCV	Receive side
TMPER	{15-MIN, 1-DAY}	
	Default:	{15-MIN}
	Addressing:	None
	Description:	Time Period. The value for TMPER is verified, but does not affect the function of the SET-ATTR-F3 command.
SRVEFF	{NSA, SA}	
	Default:	< Both service effect values >
	Addressing:	None
	Description:	Service Effect, specifies the service effect of the condition type for which the specified NTFCNCODE is to be set. Values are:
	NSA	Non-Service Affecting.
	SA	Service Affecting.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

```

IDNC      Input, Data Not Consistent
          /* Condition type is not consistent with <FACILITY TYPE STRING>. */
          /* Location is not consistent with <FACILITY TYPE STRING> <CONDITION TYPE
             STRING>. */
```


IDNV	Input, Data Not Valid /* Invalid notification code specified: <NOTIFICATION CODE STRING>. */ /* Invalid service effect specified: <SERVICE EFFECT STRING>. */ /* Invalid condition type specified: <CONDITION TYPE STRING>. */ /* Invalid location specified: <LOCATION STRING>. */ /* Invalid Parameter Value. */
IIAC	Input, Invalid ACcess identifier /* Invalid Access ID specified. */
INUP	Input, Non-Null Unimplemented Parameter /* No matching attributes to update as requested by user. */
SDBE	Status, internal Data Base Error /* Unable to read file <FILENAME>, Error <ERROR NUMBER> */ /* Unable to update file <FILENAME>, Error <ERROR NUMBER> */
SNVS	Status, Not in Valid State /* Facility is unprovisioned. */ /* AID not as provisioned. */

EXAMPLES

In the following example, the notification code is set to major (MJ) for the near-end service affecting INHPM-REPT condition type for F3 port T3F3-2-1.

```
SET-ATTR-F3::T3F3-2-1::MJ, INHPMREPT, NEND, , , SA;
```

In the following example, the notification code for all service affecting and non-service affecting condition types is set to its system default value for F3 port T3F3-5-6.

```
SET-ATTR-F3::T3F3-5-6::DFLT;
```

RELATED COMMANDS

```
RTRV-ALM-ALL  
RTRV-ALM-F3  
RTRV-ATTR-F3  
RTRV-COND-ALL  
RTRV-COND-F3  
RTRV-DFLTATTR-F3  
SET-DFLTATTR-F3
```

RELATED AUTONOMOUS RESPONSES

```
REPT^ALM^F3  
REPT^EVT^F3
```


COMMAND CODE: **SET-ATTR-OC12**
COMMAND NAME: **SET ATTRIBUTE OC-12**

PURPOSE

The SET-ATTR-OC12 command sets the notification code generated by the system for non-service affecting and service affecting OC-12 standing conditions pertaining to the specified OC-12 port.

Upon execution of the SET-ATTR-OC12 command, any condition that exists for the specified OC-12 port, condition type, and service effect combination is updated with the new notification code.

A SET-ATTR-OC12 command is denied if:

- The specified OC-12 port is not provisioned (via ENT-OC12).
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

SET-ATTR-OC12: [TID] :AID: [CTAG] :: [NTFCNCDE] , [CONDTYPE] , [LOCN] , [DIRN] ,
[TMPER] , [SRVEFF] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.												
AID	OC12_AID: {OC12-{1-560}} (OC12-OC12#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: OC12 AID, identifies the OC-12 port.												
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.												
NTFCNCDE	{CR, DFLT, MJ, MN, NA, NR} Default: {NA} Addressing: None Description: Notification Code, specifies the notification code that is generated by the system upon the occurrence of the event specified by CONDTYPE. Values are: <table> <tr> <td>CR</td><td>Critical Alarm (reported via REPT^ALM autonomous message).</td></tr> <tr> <td>DFLT</td><td>Default, the notification code for the specified near-end and/or far-end condition type and service effect combination is set to the system default value (as set via SET-DFLTATTR-OC12).</td></tr> <tr> <td>MJ</td><td>Major Alarm (reported via REPT^ALM autonomous message).</td></tr> <tr> <td>MN</td><td>Minor Alarm (reported via REPT^ALM autonomous message).</td></tr> <tr> <td>NA</td><td>Not Alarmed (reported via REPT^EVT autonomous message).</td></tr> <tr> <td>NR</td><td>Not Reported.</td></tr> </table>	CR	Critical Alarm (reported via REPT^ALM autonomous message).	DFLT	Default, the notification code for the specified near-end and/or far-end condition type and service effect combination is set to the system default value (as set via SET-DFLTATTR-OC12).	MJ	Major Alarm (reported via REPT^ALM autonomous message).	MN	Minor Alarm (reported via REPT^ALM autonomous message).	NA	Not Alarmed (reported via REPT^EVT autonomous message).	NR	Not Reported.
CR	Critical Alarm (reported via REPT^ALM autonomous message).												
DFLT	Default, the notification code for the specified near-end and/or far-end condition type and service effect combination is set to the system default value (as set via SET-DFLTATTR-OC12).												
MJ	Major Alarm (reported via REPT^ALM autonomous message).												
MN	Minor Alarm (reported via REPT^ALM autonomous message).												
NA	Not Alarmed (reported via REPT^EVT autonomous message).												
NR	Not Reported.												

CONDTYPE	NEAR-END_CONDDTYPE:{ACTLPBK, AIS, DUPTARPENRY, EBER, ESW, FRCDWKS WBK, FRCDWKS WPR, INHPMREPT, L2LCONFAIL, L2SCONFAIL, LDCCDLFL, LOCKOUTOFPR, LOF, LOS, MAN, MANWKS WBK, MANWKS WPR, SDBER, SDCCDLFL, WTR}, FAR-END_CONDDTYPE:{RFI}
Default:	< All applicable condition types listed above >
Addressing:	None
Description:	Condition Type, specifies the condition type for which the specified NTFCNCDE is to be set. (Refer to Appendix C for a list of all condition types.) Values are:
ACTLPBK	Active Loopback, the OC-12 port is in loopback. (Near-End only.)
AIS	Alarm Indication Signal, AIS detected. (Near-End only.)
DUPTARPENRY	Duplicate TARP adjacency table. (Near-End only.)
EBER	Excessive Bit Error Rate detected. (Near-End only.)
ESW	Excessive Switching, lockout of automatic revertive (OC-12) switching due to excessive switching. (Near-End only.)
FRCDWKS WBK	Forced Working Switched Back, working facility was manually force switched from protection to the main facility. (Near-End only.)
FRCDWKS WPR	Forced Working Switched to Protection, working facility was manually force switched to the protection facility. (Near-End only.)
INHPMREPT	Inhibit Performance Monitoring Report, PM report capability Inhibited. (Near-End only.)
L2LCONFAIL	Layer 2 Line DCC Connection Failure. (Near-End only.)
L2SCONFAIL	Layer 2 Section DCC Connection Failure. (Near-End only.)
LDCCDLFL	Line DCC Data Link Failure. (Near-End only.)
LOCKOUTOFPR	LockOut Of Protection facility. (Near-End only.)
LOF	Loss Of Frame detected. (Near-End only.)
LOS	Loss Of Signal detected. (Near-End only.)
MAN	Manual removal (logical removal was performed on the facility). (Near-End only.)
MANWKS WBK	Manual Working Switched Back, working facility was manually switched from protection to the main facility. (Near-End only.)
MANWKS WPR	Manual Working Switched to Protection, working facility was manually switched to the protection facility. (Near-End only.)
RFI	Remote Failure Indication detected. (Far-End only.)
SDBER	Signal Degrade Bit Error Rate detected. (Near-End only.)
SDCCDLFL	Section DCC Data Link Failure. (Near-End only.)
WTR	Wait To Restore of protection facility. (Near-End only.)
Restrictions:	SET-ATTR-OC12 is denied if the specified CONDTYPE value is not supported for the specified LOCN value (e.g., CONDTYPE of RFI and LOCN of NEND is entered).

LOCN	{FEND, NEND}	
	Default:	< All location values applicable to the specified condition type >
	Addressing:	None
	Description:	Location, specifies the location where the condition type is monitored. Values are:
	FEND	Far-End, events occurring at a distant network element.
DIRN	{NA, RCV, TRMT}	
	Default:	< All applicable directions >
	Addressing:	None
	Description:	Direction, specifies the direction of the condition type being monitored. The value for DIRN is verified, but does not affect the function of the SET-ATTR-OC12 command.
	NA	Not Applicable
TMPER	{15-MIN, 1-DAY}	
	Default:	{15-MIN}
	Addressing:	None
	Description:	Time Period. The value for TMPER is verified, but does not affect the function of the SET-ATTR-OC12 command.
SRVEFF	{NSA, SA}	
	Default:	< Both service effect values >
	Addressing:	None
	Description:	Service Effect, specifies the service effect of the condition type for which the specified NTFCNCDE is to be set. Values are:
	NSA	Non-Service Affecting
	SA	Service Affecting

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent /* Condition type is not consistent with <FACILITY TYPE STRING>. */ /* Location is not consistent with <FACILITY TYPE STRING> <CONDITION TYPE STRING>. */
IDNV	Input, Data Not Valid /* Invalid notification code specified: <NOTIFICATION CODE STRING>. */ /* Invalid service effect specified: <SERVICE EFFECT STRING>. */ /* Invalid condition type specified: <CONDITION TYPE STRING>. */ /* Invalid location specified: <LOCATION STRING>. */ /* Invalid Parameter Value. */
IIAC	Input, Invalid ACcess identifier /* Invalid Access ID specified. */
INUP	Input, Non-Null Unimplemented Parameter /* No matching attributes to update as requested by user. */
SDBE	Status, internal Data Base Error /* Unable to read file <FILENAME>, Error <ERROR NUMBER> */ /* Unable to update file <FILENAME>, Error <ERROR NUMBER> */
SNVS	Status, Not in Valid State /* Facility is unprovisioned. */ /* AID not as provisioned. */

EXAMPLES

In the following example, the notification code is set to major (MJ) for the near-end service affecting LOS condition type for OC-12 port OC12-97.

```
SET-ATTR-OC12::OC12-97:::MJ,LOS,NEND,,SA;
```

In the following example, the notification code for all service affecting and non-service affecting condition types is set to its system default value for OC-12 port OC12-101.

```
SET-ATTR-OC12::OC12-101:::DFLT;
```

RELATED COMMANDS

```
RTRV-ALM-ALL  
RTRV-ALM-OC12  
RTRV-ATTR-OC12  
RTRV-COND-ALL  
RTRV-COND-OC12  
RTRV-DFLTATTR-OC12  
SET-DFLTATTR-OC12
```

RELATED AUTONOMOUS RESPONSES

```
REPT^ALM^OC12  
REPT^EVT^OC12
```

COMMAND CODE: **SET-ATTR-OC3**
COMMAND NAME: **SET ATTRIBUTE OC-3**

PURPOSE

The SET-ATTR-OC3 command sets the notification code generated by the system for non-service affecting and service affecting OC-3 standing conditions pertaining to the specified OC-3 port.

Upon execution of the SET-ATTR-OC3 command, any condition that exists for the specified OC-3 port, condition type, and service effect combination is updated with the new notification code.

A SET-ATTR-OC3 command is denied if:

- The specified OC-3 port is not provisioned (via ENT-OC3).
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

SET-ATTR-OC3 : [TID] : AID : [CTAG] : : [NTFCNCDE] , [CONDTYPE] , [LOCN] , [DIRN] ,
[TMPER] , [SRVEFF] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.												
AID	OC3_AID: {OC3-{1-2240}} (OC3-OC3#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: OC3 AID, identifies the OC-3 port.												
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.												
NTFCNCDE	{CR, DFLT, MJ, MN, NA, NR} Default: {NA} Addressing: None Description: Notification Code, specifies the notification code that is generated by the system upon the occurrence of the event specified by CONDTYPE. Values are: <table><tr><td>CR</td><td>Critical Alarm (reported via REPT^ALM autonomous message).</td></tr><tr><td>DFLT</td><td>Default, the notification code for the specified near-end and/or far-end condition type and service effect combination is set to the system default value (as set via SET-DFLTATTR-OC3).</td></tr><tr><td>MJ</td><td>Major Alarm (reported via REPT^ALM autonomous message).</td></tr><tr><td>MN</td><td>Minor Alarm (reported via REPT^ALM autonomous message).</td></tr><tr><td>NA</td><td>Not Alarmed (reported via REPT^EVT autonomous message).</td></tr><tr><td>NR</td><td>Not Reported.</td></tr></table>	CR	Critical Alarm (reported via REPT^ALM autonomous message).	DFLT	Default, the notification code for the specified near-end and/or far-end condition type and service effect combination is set to the system default value (as set via SET-DFLTATTR-OC3).	MJ	Major Alarm (reported via REPT^ALM autonomous message).	MN	Minor Alarm (reported via REPT^ALM autonomous message).	NA	Not Alarmed (reported via REPT^EVT autonomous message).	NR	Not Reported.
CR	Critical Alarm (reported via REPT^ALM autonomous message).												
DFLT	Default, the notification code for the specified near-end and/or far-end condition type and service effect combination is set to the system default value (as set via SET-DFLTATTR-OC3).												
MJ	Major Alarm (reported via REPT^ALM autonomous message).												
MN	Minor Alarm (reported via REPT^ALM autonomous message).												
NA	Not Alarmed (reported via REPT^EVT autonomous message).												
NR	Not Reported.												

CONDTYPE	NEAR-END_CONDDTYPE:{ACTLPBK, AIS, DUPTARPENRY, EBER, ESW, FRCDWKS WBK, FRCDWKS WPR, INHPMREPT, L2LCONFAIL, L2SCONFAIL, LDCCDLFL, LOCKOUTOFPR, LOF, LOS, MAN, MANWKS WBK, MANWKS WPR, SDBER, SDCCDLFL, WTR}, FAR-END_CONDDTYPE:{RFI}
Default:	< All applicable condition types listed above >
Addressing:	None
Description:	Condition Type, specifies the condition type for which the specified NTFNCNDE is to be set. (Refer to Appendix C for a list of all condition types.) Values are:
ACTLPBK	Active Loopback, the OC-3 port is in loopback. (Near-End only.)
AIS	Alarm Indication Signal, AIS detected. (Near-End only.)
DUPTARPENRY	Duplicate TARP adjacency table. (Near-End only.)
EBER	Excessive Bit Error Rate detected. (Near-End only.)
ESW	Excessive Switching, lockout of automatic revertive (OC-3) switching due to excessive switching. (Near-End only.)
FRCDWKS WBK	Forced Working Switched Back, working facility was manually force switched from protection to the main facility. (Near-End only.)
FRCDWKS WPR	Forced Working Switched to Protection, working facility was manually force switched to the protection facility. (Near-End only.)
INHPMREPT	Inhibit Performance Monitoring Report, PM report capability Inhibited. (Near-End only.)
L2LCONFAIL	Layer 2 Line DCC Connection Failure. (Near-End only.)
L2SCONFAIL	Layer 2 Section DCC Connection Failure. (Near-End only.)
LDCCDLFL	Line DCC Data Link Failure. (Near-End only.)
LOCKOUTOFPR	LockOut Of Protection facility. (Near-End only.)
LOF	Loss Of Frame detected. (Near-End only.)
LOS	Loss Of Signal detected. (Near-End only.)
MAN	Manual removal (logical removal was performed on the facility). (Near-End only.)
MANWKS WBK	Manual Working Switched Back, working facility was manually switched from protection to the main facility. (Near-End only.)
MANWKS WPR	Manual Working Switched to Protection, working facility was manually switched to the protection facility. (Near-End only.)
RFI	Remote Failure Indication detected. (Far-End only.)
SDBER	Signal Degrade Bit Error Rate detected. (Near-End only.)
SDCCDLFL	Section DCC Data Link Failure. (Near-End only.)
WTR	Wait To Restore of protection facility. (Near-End only.)
Restrictions:	SET-ATTR-OC3 is denied if the specified CONDDTYPE value is not supported for the specified LOCN value (e.g., CONDDTYPE of RFI and LOCN of NEND is entered).

LOCN	{FEND, NEND}	
	Default:	< All location values applicable to the specified condition type >
	Addressing:	None
	Description:	Location, specifies the location where the condition type is monitored. Values are:
	FEND	Far-End, events occurring at a distant network element.
DIRN	{NA, RCV, TRMT}	
	Default:	< All applicable directions >
	Addressing:	None
	Description:	Direction, specifies the direction of the condition type being monitored. The value for DIRN is verified, but does not affect the function of the SET-ATTR-OC3 command.
	NA	Not Applicable
TMPER	{15-MIN, 1-DAY}	
	Default:	{15-MIN}
	Addressing:	None
	Description:	Time Period. The value for TMPER is verified, but does not affect the function of the SET-ATTR-OC3 command.
SRVEFF	{NSA, SA}	
	Default:	< Both service effect values >
	Addressing:	None
	Description:	Service Effect, specifies the service effect of the condition type for which the specified NTFCNCDE is to be set. Values are:
	NSA	Non-Service Affecting
	SA	Service Affecting

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent /* Condition type is not consistent with <FACILITY TYPE STRING>. */ /* Location is not consistent with <FACILITY TYPE STRING> <CONDITION TYPE STRING>. */
IDNV	Input, Data Not Valid /* Invalid notification code specified: <NOTIFICATION CODE STRING>. */ /* Invalid service effect specified: <SERVICE EFFECT STRING>. */ /* Invalid condition type specified: <CONDITION TYPE STRING>. */ /* Invalid location specified: <LOCATION STRING>. */ /* Invalid Parameter Value. */
IIAC	Input, Invalid ACcess identifier /* Invalid Access ID specified. */
INUP	Input, Non-Null Unimplemented Parameter /* No matching attributes to update as requested by user. */
SDBE	Status, internal Data Base Error /* Unable to read file <FILENAME>, Error <ERROR NUMBER> */ /* Unable to update file <FILENAME>, Error <ERROR NUMBER> */
SNVS	Status, Not in Valid State /* Facility is unprovisioned. */ /* AID not as provisioned. */

EXAMPLES

In the following example, the notification code is set to major (MJ) for the near-end service affecting LOS condition type for OC-3 port OC3-97.

```
SET-ATTR-OC3::OC3-97:::MJ,LOS,NEND,,SA;
```

In the following example, the notification code for all service affecting and non-service affecting condition types is set to its system default value for OC-3 port OC3-101.

```
SET-ATTR-OC3::OC3-101:::DFLT;
```

RELATED COMMANDS

```
RTRV-ALM-ALL  
RTRV-ALM-OC3  
RTRV-ATTR-OC3  
RTRV-COND-ALL  
RTRV-COND-OC3  
RTRV-DFLTATTR-OC3  
SET-DFLTATTR-OC3
```

RELATED AUTONOMOUS RESPONSES

```
REPT^ALM^OC3  
REPT^EVT^OC3
```

COMMAND CODE: **SET-ATTR-SECUDFLT**
COMMAND NAME: **SET ATTRIBUTE SECURITY DEFAULT**

PURPOSE

The SET-ATTR-SECUDFLT command sets the system-wide values for the user security parameters PAGE (password aging), POUT (password deactivation on inactivity), and UOUT (user account deletion on inactivity).

The PAGE parameter is used to enforce periodic changing of user passwords. If PAGE is enabled (a provisioned value greater than zero), the system keeps track of the age of each user's password, except for user's with a UCAL of 31 (system administrator level) or higher. The system resets a user's password-age when the user logs-on (via ACT-USER) the first time as a new account user, and each time the user changes the user's password identifier (PID) via the ED-PID command. A user's password-age is compared to the provisioned PAGE value each time a user logs-on the system. If the user's password-age has reached the PAGE value, the system prompts the user (via the REPT^EVT^SESSION message) to change the existing user password. If a new password is not entered before the user exits the current session, the system deactivates the user's password when the user logs-off the system.

The POUT and UOUT parameters are used to deactivate a password (PID) or user account (UID), respectively, based on user inactivity (the user has not logged-on to the system). A provisioned POUT or UOUT value of zero disables the parameter. The system maintains a user inactivity timer for each user account, except for user's with a UCAL of 31 (system administrator level) or higher. The system resets a user's inactivity timer when the user account is created (via ENT-USER), and each time the user logs-on to the system. If POUT or UOUT is enabled (a provisioned value greater than zero) and a user does not log-on to the system for a period of time greater than the provisioned POUT or UOUT values, the system deactivates the user's password (PID) or the user's account (UID), respectively.

If a user password (PID) or user account (UID) is deactivated or removed, then only a system administrator account user or the Alcatel account user can enter a new user password or user account database entry.

A SET-ATTR-SECUDFLT command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

SET-ATTR-SECUDFLT: [TID] :: [CTAG] :: : [PAGE=] [, POUT=] [, UOUT=] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

PAGE=	{ 0–999 }	
	Default:	<Previously existing values> or {30} (Factory Default)
	Addressing:	None
	Description:	Password Aging Interval, specifies the number of days that a user's password (PID) is aged before the system prompts the user to change to a new password. The user receives this prompt only if the user password has not already been changed within this interval. A (non–system administrator or non–Alcatel account) user's PID is deactivated if a new PID is not entered (via ED–PID) before the session in which the user receives this prompt is terminated. Values are:
	0	Zero, password aging on user accounts is disabled. User passwords are not deactivated by password aging if 0 is entered.
	1–999	Password Aging Interval in days.
POUT=	{ 0–999 }	
	Default:	<Previously existing values> or {45} (Factory Default)
	Addressing:	None
	Description:	Password Out (Deactivation on Inactivity) Interval, specifies the number of days that a (non–system administrator or non–Alcatel account) user account can be inactive (the user has not logged–on to the system) before the system deactivates the user password identifier (PID). Values are:
	0	Zero, Password Out on user accounts is disabled. User passwords are not deactivated due to user log–in inactivity.
	1–999	Password Out interval in days.
UOUT=	{ 0–999 }	
	Default:	<Previously existing values> or {120} (Factory Default)
	Addressing:	None
	Description:	User Identification (UID) Out (Deactivation on Inactivity Interval, specifies the number of days that a (non–system administrator or non–Alcatel account) user account can be inactive (the user has not logged–on to the system) before the system deactivates the user account (UID). Values are:
	0	Zero, UOUT on user accounts is disabled. User accounts (UIDs) are not deactivated due to user log–in inactivity.
	1–999	User ID Out interval in days.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid
IPNV	Input, Parameter Not Valid
SDBE	Status, internal Data Base Error
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, the password aging interval (PAGE) is set to 45 days, the password out interval (POUT) is set to 60 days, and the UID aging interval (UOUT) is set to 150 days.

```
SET-ATTR-SECUDFLT: : : : : PAGE=45 , POUT=60 , UOUT=150 ;
```

RELATED COMMANDS

```
ACT-USER  
ED-PID  
ENT-USER  
RTRV-DFLT-SECU
```

RELATED AUTONOMOUS RESPONSES

```
REPT^EVT^SESSION
```


COMMAND CODE: **SET-ATTR-STS1**
COMMAND NAME: **SET ATTRIBUTE STS-1**

PURPOSE

The SET-ATTR-STS1 command sets the notification code generated by the system for non-service affecting and service affecting STS-1 standing conditions pertaining to the specified STS-1 port.

Upon execution of the SET-ATTR-STS1 command, any condition that exists for the specified STS-1 port, condition type, and service effect combination is updated with the new notification code.

A SET-ATTR-STS1 command is denied if:

- The specified STS-1 port is not provisioned (via ENT-STS1).
- The specified STS-1 port is embedded within a protection OC3 port.
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

SET-ATTR-STS1: [TID] :AID: [CTAG] :: [NTFCNCDE] , [CONDTYPE] , [LOCN] , [DIRN] ,
[TMPER] , [SRVEFF] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >	
	Default:	<SID>
	Addressing:	None
	Description:	Target Identifier, specifies the network node TID for the command.
AID	STS1_AID:	
	{EC1STS1-{1-3840}}	(EC1STS1-EC1/STS1#)
	{OC3STS1-{1-2240}-{1-3}}	(OC3STS1-OC3#-STS1#)
	{OC12STS1-{1-560}-{1-4}-{1-3}}	(OC12STS1-OC12#-STM1#-STS1#)
	Default:	Entry Required
	Addressing:	&&-ranging and &-grouping
	Description:	STS1 AID, identifies the STS-1 port.
CTAG	< 1-6 VALID CTAG CHARACTERS >	
	Default:	< System assigned CTAG value >
	Addressing:	None
	Description:	Correlation Tag, associates input command with its output responses.
NTFCNCDE	{CR, DFLT, MJ, MN, NA, NR}	
	Default:	{NA}
	Addressing:	None
	Description:	Notification Code, specifies the notification code that is generated by the system upon the occurrence of the event specified by CONDTYPE. Values are:
	CR	Critical Alarm (reported via REPT^ALM autonomous message).
	DFLT	Default, the notification code for the specified near-end and/or far-end condition type and service effect combination is set to the system default value (as set via SET-DFLTATTR-STS1).
	MJ	Major Alarm (reported via REPT^ALM autonomous message).
	MN	Minor Alarm (reported via REPT^ALM autonomous message).
	NA	Not Alarmed (reported via REPT^EVT autonomous message).
	NR	Not Reported.

CONDTYPE	NEAR-END_CONDDTYPE:{ACTLPBK, AIS, EBER, FLTESC, FRCDWKS WBK, FRCDWKS WPR, IDLE, INHPMREPT, LOP, MAN, MANWKS WBK, MANWKS WPR, PDI, SDBER, SLMF}, FAR-END_CONDDTYPE:{RFI}
Default:	< All applicable condition types listed above >
Addressing:	None
Description:	Condition Type, specifies the condition type for which the specified NTFCNCDE is to be set. (Refer to Appendix C for a list of all condition types.) Values are:
	ACTLPBK Active Loopback, the STS-1 port is in loop back. (Near-End only.)
	AIS Alarm Indication Signal, AIS detected. (Near-End only.)
	EBER Excessive Bit Error Rate detected. (Near-End only.)
	FLTESC Facility Fault Escalation active. (Near-End only.)
	FRCDWKS WBK Forced Working Switched Back, working facility was manually force switched from protection to the main facility. (Near-End only.)
	FRCDWKS WPR Forced Working Switched to Protection, working facility was manually force switched to the protection facility. (Near-End only.)
	IDLE Idle, incoming idle detected. (Near-End only.)
	INHPMREPT Inhibit Performance Monitoring Report, PM report capability inhibited. (Near-End only.)
	LOP Loss Of Pointer detected. (Near-End only.)
	MAN Manual removal (logical removal was performed on the facility). (Near-End only.)
	MANWKS WBK Manual Working Switched Back, working facility was manually switched from protection to the main facility. (Near-End only.)
	MANWKS WPR Manual Working Switched to Protection, working facility was manually switched to the protection facility. (Near-End only.)
	PDI Incoming PDI signal detected (STS1)
	RFI Remote Failure Indication detected. (Far-End only.)
	SDBER Signal Degrade Bit Error Rate detected. (Near-End only.)
	SLMF Signal Label Match Failure detected. (Near-End only.)
Restrictions:	SET-ATTR-STS1 is denied if the specified CONDDTYPE value is not supported for the specified LOCN value (e.g., CONDDTYPE of AIS and LOCN of FEND is entered).
LOCN	{FEND, NEND}
Default:	< All location values applicable to the specified condition type >
Addressing:	None
Description:	Location, specifies the location where the condition type is monitored. Values are:
	FEND Far-End, events occurring at a distant network element.
	NEND Near-End, events occurring at the system.
Restrictions:	SET-ATTR-STS1 is denied if the specified LOCN value is not supported for the specified CONDDTYPE value (e.g., CONDDTYPE of AIS and LOCN of FEND is entered).

DIRN	{NA, RCV, TRMT}					
	Default: < All applicable directions >					
	Addressing: None					
	Description: Direction, specifies the direction of the condition type being monitored. The value for DIRN is verified, but does not affect the function of the SET-ATTR-STS1 command.					
	<table> <tr> <td>NA</td><td>Not Applicable</td></tr> <tr> <td>RCV</td><td>Receive side</td></tr> <tr> <td>TRMT</td><td>Transmit direction</td></tr> </table>	NA	Not Applicable	RCV	Receive side	TRMT
NA	Not Applicable					
RCV	Receive side					
TRMT	Transmit direction					
TMPER	{15-MIN, 1-DAY}					
	Default: {15-MIN}					
	Addressing: None					
	Description: Time Period. The value for TMPER is verified, but does not affect the function of the SET-ATTR-STS1 command.					
SRVEFF	{NSA, SA}					
	Default: < Both service effect values >					
	Addressing: None					
	Description: Service Effect, specifies the service effect of the condition type for which the specified NTFCNCDE is to be set. Values are:					
	<table> <tr> <td>NSA</td><td>Non-Service Affecting</td></tr> <tr> <td>SA</td><td>Service Affecting</td></tr> </table>	NSA	Non-Service Affecting	SA	Service Affecting	
NSA	Non-Service Affecting					
SA	Service Affecting					

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent
	/* Condition type is not consistent with <FACILITY TYPE STRING>. */
	/* Location is not consistent with <FACILITY TYPE STRING> <CONDITION TYPE STRING>. */
IDNV	Input, Data Not Valid
	/* Invalid notification code specified: <NOTIFICATION CODE STRING>. */
	/* Invalid service effect specified: <SERVICE EFFECT STRING>. */
	/* Invalid condition type specified: <CONDITION TYPE STRING>. */
	/* Invalid location specified: <LOCATION STRING>. */
	/* Invalid Parameter Value. */
IIAC	Input, Invalid ACcess identifier
	/* Invalid Access ID specified. */

INUP	Input, Non-Null Unimplemented Parameter /* No matching attributes to update as requested by user. */
SDBE	Status, internal Data Base Error /* Unable to read file <FILENAME>, Error <ERROR NUMBER> */ /* Unable to update file <FILENAME>, Error <ERROR NUMBER> */
SNVS	Status, Not in Valid State /* Facility is unprovisioned. */ /* AID not as provisioned. */

EXAMPLES

In the following example, the notification code is set to major (MJ) for the near-end service affecting LOP condition type for STS-1 port EC1STS1-337.

```
SET-ATTR-STS1::EC1STS1-337:::MJ,LOP,NEND,,SA;
```

In the following example, the notification code is set to not alarmed (NA) for both the non-service affecting and service affecting RFI condition type for STS-1 ports EC1STS1-337 through EC1STS1-384.

```
SET-ATTR-STS1::EC1STS1-337&-384:::RFI;
```

In the following example, the notification code for all service affecting and non-service affecting condition types is set to its system default value for STS-1 port EC1STS1-102.

```
SET-ATTR-STS1::EC1STS1-102:::DFLT;
```

RELATED COMMANDS

```
RTRV-ALM-ALL  
RTRV-ALM-STS1  
RTRV-ATTR-STS1  
RTRV-COND-ALL  
RTRV-COND-STS1  
RTRV-DFLTATTR-STS1  
SET-DFLTATTR-STS1
```

RELATED AUTONOMOUS RESPONSES

```
REPT^ALM^STS1  
REPT^EVT^STS1
```

COMMAND CODE: **SET-ATTR-STS3C**
COMMAND NAME: **SET ATTRIBUTE STS-3C**

PURPOSE

The SET-ATTR-STS3C command sets the notification code generated by the system for non-service affecting and service affecting STS-3C standing conditions pertaining to the specified STS-3C port.

Upon execution of the SET-ATTR-STS3C command, any condition that exists for the specified STS-3C port, condition type, and service effect combination is updated with the new notification code.

A SET-ATTR-STS3C command is denied if:

- The specified STS-3C port is not provisioned (via ENT-STS3C).
- The specified STS-3C port is embedded within a protection OC-3 or OC-12 port.
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

SET-ATTR-STS3C: [TID] :AID: [CTAG] :: [NTFCNCDE] , [CONDTYPE] , [LOCN] , [DIRN] ,
[TMPER] , [SRVEFF] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.												
AID	STS3C_AID: {OC3STS3C-{1-2240}} (OC3STS3C-OC3#/STS3C#) {OC12STS3C-{1-560}-{1-4}} (OC12STS3C-OC12#-STM1/STS3C#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: STS3C AID, identifies the STS-3C port.												
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.												
NTFCNCDE	{CR, DFLT, MJ, MN, NA, NR} Default: {NA} Addressing: None Description: Notification Code, specifies the notification code that is generated by the system upon the occurrence of the event specified by CONDTYPE. Values are: <table><tr><td>CR</td><td>Critical Alarm (reported via REPT^ALM autonomous message).</td></tr><tr><td>DFLT</td><td>Default, the notification code for the specified near-end and/or far-end condition type and service effect combination is set to the system default value (as set via SET-DFLTATTR-STS3C).</td></tr><tr><td>MJ</td><td>Major Alarm (reported via REPT^ALM autonomous message).</td></tr><tr><td>MN</td><td>Minor Alarm (reported via REPT^ALM autonomous message).</td></tr><tr><td>NA</td><td>Not Alarmed (reported via REPT^EVT autonomous message).</td></tr><tr><td>NR</td><td>Not Reported.</td></tr></table>	CR	Critical Alarm (reported via REPT^ALM autonomous message).	DFLT	Default, the notification code for the specified near-end and/or far-end condition type and service effect combination is set to the system default value (as set via SET-DFLTATTR-STS3C).	MJ	Major Alarm (reported via REPT^ALM autonomous message).	MN	Minor Alarm (reported via REPT^ALM autonomous message).	NA	Not Alarmed (reported via REPT^EVT autonomous message).	NR	Not Reported.
CR	Critical Alarm (reported via REPT^ALM autonomous message).												
DFLT	Default, the notification code for the specified near-end and/or far-end condition type and service effect combination is set to the system default value (as set via SET-DFLTATTR-STS3C).												
MJ	Major Alarm (reported via REPT^ALM autonomous message).												
MN	Minor Alarm (reported via REPT^ALM autonomous message).												
NA	Not Alarmed (reported via REPT^EVT autonomous message).												
NR	Not Reported.												

CONDTYPE	<p>NEAR-END_CONDDTYPE:{ACTLPBK, AIS, IDLE, INHPMREPT, LOP, MAN, SLMF}, FAR-END_CONDDTYPE:{RFI}</p> <p>Default: < All applicable condition types listed above ></p> <p>Addressing: None</p> <p>Description: Condition Type, specifies the condition type for which the specified NTFNCNDE is to be set. (Refer to Appendix C for a list of all condition types.) Values are:</p> <table> <tr> <td>ACTLPBK</td><td>Active Loopback, the STS-3C port is in loop back. (Near-End only.)</td></tr> <tr> <td>AIS</td><td>Alarm Indication Signal, AIS detected. (Near-End only.)</td></tr> <tr> <td>IDLE</td><td>Idle, incoming idle detected. (Near-End only.)</td></tr> <tr> <td>INHPMREPT</td><td>Inhibit Performance Monitoring Report, PM report capability Inhibited. (Near-End only.)</td></tr> <tr> <td>LOP</td><td>Loss Of Pointer detected. (Near-End only.)</td></tr> <tr> <td>MAN</td><td>Manual removal (logical removal was performed on the facility). (Near-End only.)</td></tr> <tr> <td>RFI</td><td>Remote Failure Indication detected. (Far-End only.)</td></tr> <tr> <td>SLMF</td><td>Signal Label Match Failure detected. (Near-End only.)</td></tr> </table> <p>Restrictions: SET-ATTR-STS3C is denied if the specified CONDDTYPE value is not supported for the specified LOCN value (e.g., CONDDTYPE of AIS and LOCN of FEND is entered).</p>	ACTLPBK	Active Loopback, the STS-3C port is in loop back. (Near-End only.)	AIS	Alarm Indication Signal, AIS detected. (Near-End only.)	IDLE	Idle, incoming idle detected. (Near-End only.)	INHPMREPT	Inhibit Performance Monitoring Report, PM report capability Inhibited. (Near-End only.)	LOP	Loss Of Pointer detected. (Near-End only.)	MAN	Manual removal (logical removal was performed on the facility). (Near-End only.)	RFI	Remote Failure Indication detected. (Far-End only.)	SLMF	Signal Label Match Failure detected. (Near-End only.)
ACTLPBK	Active Loopback, the STS-3C port is in loop back. (Near-End only.)																
AIS	Alarm Indication Signal, AIS detected. (Near-End only.)																
IDLE	Idle, incoming idle detected. (Near-End only.)																
INHPMREPT	Inhibit Performance Monitoring Report, PM report capability Inhibited. (Near-End only.)																
LOP	Loss Of Pointer detected. (Near-End only.)																
MAN	Manual removal (logical removal was performed on the facility). (Near-End only.)																
RFI	Remote Failure Indication detected. (Far-End only.)																
SLMF	Signal Label Match Failure detected. (Near-End only.)																
LOCN	<p>{FEND, NEND}</p> <p>Default: < All location values applicable to the specified condition type ></p> <p>Addressing: None</p> <p>Description: Location, specifies the location where the condition type is monitored. Values are:</p> <table> <tr> <td>FEND</td><td>Far-End, events occurring at a distant network element.</td></tr> <tr> <td>NEND</td><td>Near-End, events occurring at the system.</td></tr> </table> <p>Restrictions: SET-ATTR-STS3C is denied if the specified LOCN value is not supported for the specified CONDDTYPE value (e.g., CONDDTYPE of AIS and LOCN of FEND is entered).</p>	FEND	Far-End, events occurring at a distant network element.	NEND	Near-End, events occurring at the system.												
FEND	Far-End, events occurring at a distant network element.																
NEND	Near-End, events occurring at the system.																
DIRN	<p>{NA, RCV, TRMT}</p> <p>Default: < All applicable directions ></p> <p>Addressing: None</p> <p>Description: Direction, specifies the direction of the condition type being monitored. The value for DIRN is verified, but does not affect the function of the SET-ATTR-STS3C command.</p> <table> <tr> <td>NA</td><td>Not Applicable</td></tr> <tr> <td>RCV</td><td>Receive side</td></tr> <tr> <td>TRMT</td><td>Transmit direction</td></tr> </table>	NA	Not Applicable	RCV	Receive side	TRMT	Transmit direction										
NA	Not Applicable																
RCV	Receive side																
TRMT	Transmit direction																
TMPER	<p>{15-MIN, 1-DAY}</p> <p>Default: {15-MIN}</p> <p>Addressing: None</p> <p>Description: Time Period. The value for TMPER is verified, but does not affect the function of the SET-ATTR-STS3C command.</p>																
SRVEFF	<p>{NSA, SA}</p> <p>Default: < Both service effect values ></p> <p>Addressing: None</p> <p>Description: Service Effect, specifies the service effect of the condition type for which the specified NTFNCNDE is to be set. Values are:</p> <table> <tr> <td>NSA</td><td>Non-Service Affecting</td></tr> <tr> <td>SA</td><td>Service Affecting</td></tr> </table>	NSA	Non-Service Affecting	SA	Service Affecting												
NSA	Non-Service Affecting																
SA	Service Affecting																

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent /* Condition type is not consistent with <FACILITY TYPE STRING>. */ /* Location is not consistent with <FACILITY TYPE STRING> <CONDITION TYPE STRING>. */
IDNV	Input, Data Not Valid /* Invalid notification code specified: <NOTIFICATION CODE STRING>. */ /* Invalid service effect specified: <SERVICE EFFECT STRING>. */ /* Invalid condition type specified: <CONDITION TYPE STRING>. */ /* Invalid location specified: <LOCATION STRING>. */ /* Invalid Parameter Value. */
IIAC	Input, Invalid ACcess identifier /* Invalid Access ID specified. */
INUP	Input, Non-Null Unimplemented Parameter /* No matching attributes to update as requested by user. */
SDBE	Status, internal Data Base Error /* Unable to read file <FILENAME>, Error <ERROR NUMBER> */ /* Unable to update file <FILENAME>, Error <ERROR NUMBER> */
SNVS	Status, Not in Valid State /* Facility is unprovisioned. */ /* AID not as provisioned. */

EXAMPLES

In the following example, the notification code is set to major (MJ) for the near-end service affecting LOP condition type for STS-3C port OC3STS3C-337.

```
SET-ATTR-STS3C::OC3STS3C-337:::MJ,LOP,NEND,,SA;
```

In the following example, the notification code is set to not alarmed (NA) for both the non-service affecting and service affecting RFI condition type for STS-3C ports OC3STS3C-337 through OC3STS3C-384.

```
SET-ATTR-STS3C::OC3STS3C-337&-384:::RFI;
```

In the following example, the notification code for all service affecting and non-service affecting condition types is set to its system default value for STS-3C port OC3STS3C-102.

```
SET-ATTR-STS3C::OC3STS3C-102:::DFLT;
```

RELATED COMMANDS

```
RTRV-ALM-ALL
```

3AL45392AJ

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RTRV-ALM-STS3C
RTRV-ATTR-STS3C
RTRV-COND-ALL
RTRV-COND-STS3C
RTRV-DFLTATTR-STS3C
SET-DFLTATTR-STS3C

RELATED AUTONOMOUS RESPONSES

REPT^ALM^STS3C
REPT^EVT^STS3C

COMMAND CODE: **SET-ATTR-T1**
COMMAND NAME: **SET ATTRIBUTE T1**

PURPOSE

The SET-ATTR-T1 command sets the notification code generated by the system for non-service affecting and service affecting DS1 standing conditions pertaining to the specified DS1 or Timing Reference (TMG) port.

Upon execution of the SET-ATTR-T1 command, any condition that exists for the specified DS1 or TMG port, condition type, and service effect combination is updated with the new notification code.

A SET-ATTR-T1 command is denied if:

- The specified DS1 or TMG port is not provisioned (via ENT-T1).
- The specified DS1 port is embedded within a protection OC3 port.
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

SET-ATTR-T1 : [TID] : AID : [CTAG] : : [NTFCNCDE] , [CONDDTYPE] , [LOCN] , [DIRN] ,
[TMPER] , [SRVEFF] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >	
	Default:	<SID>
	Addressing:	None
	Description:	Target Identifier, specifies the network node TID for the command.
AID	DS1_AID:	
	{T1-{1-59392}}	(T1-DS1#)
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)
	{EC1T1-{1-3840}-{1-28}}	(EC1T1-EC1/STS1/DS3#-DS1#)
	{EC1T1-{1-3840}-{1-7}-{1-4}}	(EC1T1-EC1/STS1#-VTGrp#-VT1/DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-28}}	(OC3T1-OC3#-STS1/DS3#-DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3T1-OC3#-STS1#-VTGrp#-VT1/DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}	(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	(OC12T1-OC12#-STM1#-STS1#-VTGrp#-VT1/DS1#)
	TMG_AID:	
	{TMG-{0, 1}}	
	Default:	Entry Required
	Addressing:	&&-ranging and &-grouping
	Description:	DS1/TMG AID, identifies the DS1 or Timing Reference port.
	Restrictions:	SET-ATTR-T1 is denied if the specified AID does not support the specified CONDDTYPE (e.g., DS1 AID and CONDDTYPE of SYNCSEC).
CTAG	< 1-6 VALID CTAG CHARACTERS >	
	Default:	< System assigned CTAG value >
	Addressing:	None
	Description:	Correlation Tag, associates input command with its output responses.

NTFCNCDE	{CR, DFLT, MJ, MN, NA, NR}
	Default: {NA}
	Addressing: None
	Description: Notification Code, specifies the notification code that is generated by the system upon the occurrence of the event specified by CONDTYPE. Values are:
	CR Critical Alarm (reported via REPT^ALM autonomous message).
	DFLT Default, the notification code for the specified near-end and/or far-end condition type and service effect combination is set to the system default value (as set via SET-DFLTATTR-T1).
	MJ Major Alarm (reported via REPT^ALM autonomous message).
	MN Minor Alarm (reported via REPT^ALM autonomous message).
	NA Not Alarmed (reported via REPT^EVT autonomous message).
	NR Not Reported.
CONDTYPE	DS1_NEAR-END_CONDTYPE:{ACTLPBK, AIS, AIS-CI, ALWCBLPBK, DS1ISD, EOC, INHPMREPT, LOF, LOS, MAN, RCVCLPBK, ROLLMON, XMTCLPBK}, DS1_FAR-END_CONDTYPE:{RAI, RAI-CI}, TMG_NEAR-END_CONDTYPE:{AIS, LOF, LOS, SLTMSIG, SYNCPRI, SYNCSEC, SYNCSTATQUAL}
	Default: < All applicable condition types listed above >
	Addressing: None
	Description: Condition Type, specifies the condition type for which the specified NTFCNCDE is to be set. (Refer to Appendix C for a list of all condition types.) Values are:
	ACTLPBK Active Loopback, the DS1 port is in loop back. (DS1 Near-End only.)
	AIS Alarm Indication Signal, AIS detected. (DS1 or TMG Near-End only.)
	AIS-CI Alarm Indication Signal for Customer Installation, Incoming AIS detected. (DS1 Near-End)
	ALWCBLPBK Allow C-Bit Loopback. (DS1 Near-End only.)
	DS1ISD DS1 Idle Signal Detected, Incoming. (DS1 Near-End.)
	EOC Embedded Operations Channel, EOC failure detected. (DS1 Near-End only.)
	INHPMREPT Inhibit Performance Monitoring Report, PM report capability inhibited. (DS1 Near-End only.)
	LOF Loss Of Frame detected. (DS1 or TMG Near-End only.)
	LOS Loss Of Signal detected. (DS1 or TMG Near-End only.)
	MAN Manual removal (logical removal was performed on the facility). (DS1 Near-End only.)
	RAI Remote Alarm Indication detected. (DS1 Far-End only.)
	RAI-CI Remote Alarm Indication for Customer Installation detected. (DS1 Far-End.)
	RCVCLPBK Receive (DS1) C-Bit Loopback. (DS1 Near-End only.)
	ROLLMON Roll Monitoring, receive-side RTO port being monitored for valid signal. (DS1 Near-End only.)
	SLTMSIG Slipping Timing Reference Signal detected. (TMG Near-End only.)
	SYNCPRI Primary Reference Synchronization failure. (TMG Near-End only.)
	SYNCSEC Secondary Reference Synchronization failure. (TMG Near-End only.)
	SYNCSTATQUAL Synchronization Status Quality. (TMG Near-End only.)
	XMTCLPBK Transmit (DS1) C-Bit Loopback. (DS1 Near-End only.)

	Restrictions:	SET-ATTR-T1 is denied if the specified CONDTYPE is not supported for the specified AID (e.g., CONDTYPE of SYNCSEC and DS1 AID). SET-ATTR-T1 is denied if the specified CONDTYPE value is not supported for the specified LOCN value (e.g., CONDTYPE of RAI and LOCN of NEND is entered). SET-AATTR-T1 is denied if the DS1 CI/NI Trouble Sectionalization Premium Feature Option (PFO) is not enabled and an input value of AIS-CI, DS1ISD or RAI-CI is entered.
LOCN	{FEND, NEND}	
	Default:	< All location values applicable to the specified condition type >
	Addressing:	None
	Description:	Location, specifies the location where the condition type is monitored. Values are:
	FEND	Far-End, events occurring at a distant network element.
	NEND	Near-End, events occurring at the system.
	Restrictions:	SET-ATTR-T1 is denied if the specified LOCN value is not supported for the specified CONDTYPE value (e.g., CONDTYPE of RAI and LOCN of NEND is entered).
DIRN	{NA, RCV, TRMT}	
	Default:	< All applicable directions >
	Addressing:	None
	Description:	Direction, specifies the direction of the condition type being monitored. The value for DIRN is verified, but does not affect the function of the SET-ATTR-T1 command.
	NA	Not Applicable
	RCV	Receive side
	TRMT	Transmit direction
TMPER	{15-MIN, 1-DAY}	
	Default:	{15-MIN}
	Addressing:	None
	Description:	Time Period. The value for TMPER is verified, but does not affect the function of the SET-ATTR-T1 command.
SRVEFF	{NSA, SA}	
	Default:	< Both service effect values >
	Addressing:	None
	Description:	Service Effect, specifies the service effect of the condition type for which the specified NTFCNCDE is to be set. Values are:
	NSA	Non-Service Affecting
	SA	Service Affecting

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

EFON	Equipage, Feature Option Not provided
IDNC	Input, Data Not Consistent /* Condition type is not consistent with <FACILITY TYPE STRING>. */ /* Location is not consistent with <FACILITY TYPE STRING> <CONDITION TYPE STRING>. */ /* The <LOCATION STRING> <CONDITION TYPE STRING> condition does not apply to this facility. */
IDNV	Input, Data Not Valid /* Invalid notification code specified: <NOTIFICATION CODE STRING>. */ /* Invalid service effect specified: <SERVICE EFFECT STRING>. */ /* Invalid condition type specified: <CONDITION TYPE STRING>. */ /* Invalid location specified: <LOCATION STRING>. */ /* Invalid Parameter Value. */
IIAC	Input, Invalid ACcess identifier /* Invalid Access ID specified. */
INUP	Input, Non-Null Unimplemented Parameter /* No matching attributes to update as requested by user. */
SDBE	Status, internal Data Base Error /* Unable to read file <FILENAME>, Error <ERROR NUMBER> */ /* Unable to update file <FILENAME>, Error <ERROR NUMBER> */
SNVS	Status, Not in Valid State /* Facility is unprovisioned. */ /* AID not as provisioned. */
SROF	Status, Requested Operation Failed /* Unable to determine supporting facility entity. */

EXAMPLES

In the following example, the notification code is set to minor (MN) for the service affecting MAN condition type for DS1 port T3T1-1297-1.

```
SET-ATTR-T1::T3T1-1297-1::MN,MAN,NEND,,SA;
```

In the following example, the notification code is set to not alarmed (NA) for both the non-service affecting and service affecting EOC condition type for DS1 ports T3T1-1297-1 through T3T1-1297-28.

```
SET-ATTR-T1::T3T1-1297-1&&-28::,EOC;
```

In the following example, the notification code for all service affecting and non-service affecting condition types is set to its system default value for DS1 port T3T1-1062-20.

```
SET-ATTR-T1::T3T1-1062-20::DFLT;
```

RELATED COMMANDS

RTRV-ALM-ALL
RTRV-ALM-T1
RTRV-ATTR-T1
RTRV-COND-ALL
RTRV-COND-T1
RTRV-PFO
RTRV-DFLTATTR-T1
SET-DFLTATTR-T1

RELATED AUTONOMOUS RESPONSES

REPT^ALM^T1
REPT^EVT^T1

COMMAND CODE: **SET-ATTR-T3**
COMMAND NAME: **SET ATTRIBUTE T3**

PURPOSE

The SET-ATTR-T3 command sets the notification code generated by the system for non-service affecting and service affecting DS3 standing conditions pertaining to the specified DS3 port.

Upon execution of the SET-ATTR-T3 command, any condition that exists for the specified DS3 port, condition type, and service effect combination is updated with the new notification code.

A SET-ATTR-T3 command is denied if:

- The specified DS3 port is not provisioned (via ENT-T3).
- The specified DS3 port is embedded within a protection OC3 port.
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

SET-ATTR-T3 : [TID] : AID : [CTAG] : : [NTFCNCDE] , [CONDTYPE] , [LOCN] , [DIRN] ,
[TMPEP] , [SRVEFF] ;

INPUT PARAMETERS

TID	<p>< 1-20 VALID TID CHARACTERS ></p> <p>Default: <SID></p> <p>Addressing: None</p> <p>Description: Target Identifier, specifies the network node TID for the command.</p>												
AID	<p>DS3_AID:</p> <p>{T3-{1-4800}} (T3-DS3#)</p> <p>{EC1T3-{1-3840}} (EC1T3-EC1/STS1/DS3#)</p> <p>{OC3T3-{1-2240}-{1-3}} (OC3T3-OC3#-STS1/DS3#)</p> <p>{OC12T3-{1-560}-{1-4}-{1-3}} (OC12T3-OC12#-STM1#-STS1/DS3#)</p> <p>Default: Entry Required</p> <p>Addressing: &&-ranging and &-grouping</p> <p>Description: DS3 AID, identifies the DS3 port.</p> <p>Restrictions: SET-ATTR-T3 is denied if the specified AID does not support the specified CONDTYPE (e.g., embedded DS3 AID and CONDTYPE of LOS).</p>												
CTAG	<p>< 1-6 VALID CTAG CHARACTERS ></p> <p>Default: < System assigned CTAG value ></p> <p>Addressing: None</p> <p>Description: Correlation Tag, associates input command with its output responses.</p>												
NTFCNCDE	<p>{CR, DFLT, MJ, MN, NA, NR}</p> <p>Default: {NA}</p> <p>Addressing: None</p> <p>Description: Notification Code, specifies the notification code that is generated by the system upon the occurrence of the event specified by CONDTYPE. Values are:</p> <table> <tr> <td>CR</td><td>Critical Alarm (reported via REPT^ALM autonomous message).</td></tr> <tr> <td>DFLT</td><td>Default, the notification code for the specified near-end and/or far-end condition type and service effect combination is set to the system default value (as set via SET-DFLTATTR-T3).</td></tr> <tr> <td>MJ</td><td>Major Alarm (reported via REPT^ALM autonomous message).</td></tr> <tr> <td>MN</td><td>Minor Alarm (reported via REPT^ALM autonomous message).</td></tr> <tr> <td>NA</td><td>Not Alarmed (reported via REPT^EVT autonomous message).</td></tr> <tr> <td>NR</td><td>Not Reported.</td></tr> </table>	CR	Critical Alarm (reported via REPT^ALM autonomous message).	DFLT	Default, the notification code for the specified near-end and/or far-end condition type and service effect combination is set to the system default value (as set via SET-DFLTATTR-T3).	MJ	Major Alarm (reported via REPT^ALM autonomous message).	MN	Minor Alarm (reported via REPT^ALM autonomous message).	NA	Not Alarmed (reported via REPT^EVT autonomous message).	NR	Not Reported.
CR	Critical Alarm (reported via REPT^ALM autonomous message).												
DFLT	Default, the notification code for the specified near-end and/or far-end condition type and service effect combination is set to the system default value (as set via SET-DFLTATTR-T3).												
MJ	Major Alarm (reported via REPT^ALM autonomous message).												
MN	Minor Alarm (reported via REPT^ALM autonomous message).												
NA	Not Alarmed (reported via REPT^EVT autonomous message).												
NR	Not Reported.												

CONDTYPE	<p>NEAR-END_CONDDTYPE:{1TO6LOF, 7LOF, ACTLPBK, AICMIS, AIS, FLTESC, INHPMREPT, ISD, LOF, LOS, MAN}, FAR-END_CONDDTYPE:{AIS, DS2YEL, FEACEQPT, ISD, LOF, LOS, RAI}</p> <p>Default: < All applicable condition types listed above > Addressing: None Description: Condition Type, specifies the condition type for which the specified NTFCNCDE is to be set. (Refer to Appendix C for a list of all condition types.) Values are:</p> <table> <tr> <td>1TO6LOF</td><td>One To Six Loss Of Frame, Incoming LOF detected on 1 to 6 DS2s embedded in the DS3. (Near-End only.)</td></tr> <tr> <td>7LOF</td><td>Seven Loss Of Frame, Incoming LOF detected on all 7 DS2s embedded in the DS3. (Near-End only.)</td></tr> <tr> <td>ACTLPBK</td><td>Active Loopback, the DS3 port is in loop back. (Near-End only.)</td></tr> <tr> <td>AICMIS</td><td>Application Identification Channel Mismatch, AIC mismatch detected. (Near-End only.)</td></tr> <tr> <td>AIS</td><td>Alarm Indication Signal, AIS detected. (Near-End or Far-End.)</td></tr> <tr> <td>DS2YEL</td><td>DS2 Yellow (Remote Alarm Indication) detected on one of the DS2s embedded in the DS3. (Far-End only.)</td></tr> <tr> <td>FEACEQPT</td><td>Far-End Alarm & Control (FEAC) Equipment detected. (Far-End only.)</td></tr> <tr> <td>FLTESC</td><td>Facility Fault Escalation active. (Near-End only.)</td></tr> <tr> <td>INHPMREPT</td><td>Inhibit Performance Monitoring Report, PM report capability inhibited. (Near-End only.)</td></tr> <tr> <td>ISD</td><td>Idle Signal Detected. (Near-End or Far-End.)</td></tr> <tr> <td>LOF</td><td>Loss Of Frame detected. (Near-End or Far-End.)</td></tr> <tr> <td>LOS</td><td>Loss Of Signal detected. (Near-End or Far-End.)</td></tr> <tr> <td>MAN</td><td>Manual removal (logical removal was performed on the facility. (Near-End only.)</td></tr> <tr> <td>RAI</td><td>Remote Alarm Indication detected. (Far-End only.)</td></tr> </table> <p>Restrictions: SET-ATTR-T3 is denied if the specified AID does not support the specified CONDDTYPE (e.g., CONDDTYPE of LOS and an embedded DS3 AID). SET-ATTR-T3 is denied if the specified CONDDTYPE value is not supported for the specified LOCN value (e.g., CONDDTYPE of 7LOF and LOCN of FEND is entered).</p>	1TO6LOF	One To Six Loss Of Frame, Incoming LOF detected on 1 to 6 DS2s embedded in the DS3. (Near-End only.)	7LOF	Seven Loss Of Frame, Incoming LOF detected on all 7 DS2s embedded in the DS3. (Near-End only.)	ACTLPBK	Active Loopback, the DS3 port is in loop back. (Near-End only.)	AICMIS	Application Identification Channel Mismatch, AIC mismatch detected. (Near-End only.)	AIS	Alarm Indication Signal, AIS detected. (Near-End or Far-End.)	DS2YEL	DS2 Yellow (Remote Alarm Indication) detected on one of the DS2s embedded in the DS3. (Far-End only.)	FEACEQPT	Far-End Alarm & Control (FEAC) Equipment detected. (Far-End only.)	FLTESC	Facility Fault Escalation active. (Near-End only.)	INHPMREPT	Inhibit Performance Monitoring Report, PM report capability inhibited. (Near-End only.)	ISD	Idle Signal Detected. (Near-End or Far-End.)	LOF	Loss Of Frame detected. (Near-End or Far-End.)	LOS	Loss Of Signal detected. (Near-End or Far-End.)	MAN	Manual removal (logical removal was performed on the facility. (Near-End only.)	RAI	Remote Alarm Indication detected. (Far-End only.)
1TO6LOF	One To Six Loss Of Frame, Incoming LOF detected on 1 to 6 DS2s embedded in the DS3. (Near-End only.)																												
7LOF	Seven Loss Of Frame, Incoming LOF detected on all 7 DS2s embedded in the DS3. (Near-End only.)																												
ACTLPBK	Active Loopback, the DS3 port is in loop back. (Near-End only.)																												
AICMIS	Application Identification Channel Mismatch, AIC mismatch detected. (Near-End only.)																												
AIS	Alarm Indication Signal, AIS detected. (Near-End or Far-End.)																												
DS2YEL	DS2 Yellow (Remote Alarm Indication) detected on one of the DS2s embedded in the DS3. (Far-End only.)																												
FEACEQPT	Far-End Alarm & Control (FEAC) Equipment detected. (Far-End only.)																												
FLTESC	Facility Fault Escalation active. (Near-End only.)																												
INHPMREPT	Inhibit Performance Monitoring Report, PM report capability inhibited. (Near-End only.)																												
ISD	Idle Signal Detected. (Near-End or Far-End.)																												
LOF	Loss Of Frame detected. (Near-End or Far-End.)																												
LOS	Loss Of Signal detected. (Near-End or Far-End.)																												
MAN	Manual removal (logical removal was performed on the facility. (Near-End only.)																												
RAI	Remote Alarm Indication detected. (Far-End only.)																												
LOCN	<p>{FEND, NEND}</p> <p>Default: < All location values applicable to the specified condition type > Addressing: None Description: Location, specifies the location where the condition type is monitored. Values are:</p> <table> <tr> <td>FEND</td><td>Far-End, events occurring at a distant network element.</td></tr> <tr> <td>NEND</td><td>Near-End, events occurring at the system.</td></tr> </table> <p>Restrictions: SET-ATTR-T3 is denied if the specified LOCN value is not supported for the specified CONDDTYPE value (e.g., CONDDTYPE of 7LOF and LOCN of FEND is entered).</p>	FEND	Far-End, events occurring at a distant network element.	NEND	Near-End, events occurring at the system.																								
FEND	Far-End, events occurring at a distant network element.																												
NEND	Near-End, events occurring at the system.																												

DIRN	{NA, RCV, TRMT}					
	Default: < All applicable directions >					
	Addressing: None					
	Description: Direction, specifies the direction of the condition type being monitored. The value for DIRN is verified, but does not affect the function of the SET-ATTR-T3 command.					
	<table> <tr> <td>NA</td><td>Not Applicable</td></tr> <tr> <td>RCV</td><td>Receive side</td></tr> <tr> <td>TRMT</td><td>Transmit direction</td></tr> </table>	NA	Not Applicable	RCV	Receive side	TRMT
NA	Not Applicable					
RCV	Receive side					
TRMT	Transmit direction					
TMPER	{15-MIN, 1-DAY}					
	Default: {15-MIN}					
	Addressing: None					
	Description: Time Period. The value for TMPER is verified, but does not affect the function of the SET-ATTR-T3 command.					
SRVEFF	{NSA, SA}					
	Default: < Both service effect values >					
	Addressing: None					
	Description: Service Effect, specifies the service effect of the condition type for which the specified NTFNCODE is to be set. Values are:					
	<table> <tr> <td>NSA</td><td>Non-Service Affecting.</td></tr> <tr> <td>SA</td><td>Service Affecting.</td></tr> </table>	NSA	Non-Service Affecting.	SA	Service Affecting.	
NSA	Non-Service Affecting.					
SA	Service Affecting.					

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent
	/* Condition type is not consistent with <FACILITY TYPE STRING>. */
	/* Location is not consistent with <FACILITY TYPE STRING> <CONDITION TYPE STRING>. */
	/*The <LOCATION STRING> <CONDITION TYPE STRING> condition does not apply to this facility.*/
IDNV	Input, Data Not Valid
	/* Invalid notification code specified: <NOTIFICATION CODE STRING>. */
	/* Invalid service effect specified: <SERVICE EFFECT STRING>. */
	/* Invalid condition type specified: <CONDITION TYPE STRING>. */
	/* Invalid location specified: <LOCATION STRING>. */
	/* Invalid Parameter Value. */

IIAC	Input, Invalid ACcess identifier /* Invalid Access ID specified. */
INUP	Input, Non-Null Unimplemented Parameter /* No matching attributes to update as requested by user. */
SDBE	Status, internal Data Base Error /* Unable to read file <FILENAME>, Error <ERROR NUMBER> */ /* Unable to update file <FILENAME>, Error <ERROR NUMBER> */
SNVS	Status, Not in Valid State /* Facility is unprovisioned. */ /* AID not as provisioned. */
SROF	Status, Requested Operation Failed /* Unable to determine supporting facility entity. */

EXAMPLES

In the following example, the notification code is set to major (MJ) for the near-end service affecting LOS condition type for DS3 port T3-1297.

```
SET-ATTR-T3::T3-1297::MJ,LOS,NEND,,SA;
```

In the following example, the notification code is set to not alarmed (NA) for both the non-service affecting and service affecting DS2YEL condition type for DS3 ports T3-1297 through T3-1344.

```
SET-ATTR-T3::T3-1297&-1344::,DS2YEL;
```

In the following example, the notification code for all service affecting and non-service affecting condition types is set to its system default value for DS3 port EC1T3-102.

```
SET-ATTR-T3::EC1T3-102::DFLT;
```

RELATED COMMANDS

```
RTRV-ALM-ALL  
RTRV-ALM-T3  
RTRV-ATTR-T3  
RTRV-COND-ALL  
RTRV-COND-T3  
RTRV-DFLTATTR-T3  
SET-DFLTATTR-T3
```

RELATED AUTONOMOUS RESPONSES

```
REPT^ALM^T3  
REPT^EVT^T3
```


COMMAND CODE: **SET-ATTR-VT1**
COMMAND NAME: **SET ATTRIBUTE VT1**

PURPOSE

The SET-ATTR-VT1 command sets the notification code generated by the system for non-service affecting and service affecting VT1.5 standing conditions pertaining to the specified VT1.5 port.

Upon execution of the SET-ATTR-VT1 command, any condition that exists for the specified VT1.5 port, condition type, and service effect combination is updated with the new notification code.

A SET-ATTR-VT1 command is denied if:

- The specified VT1.5 port is not provisioned (via ENT-VT1).
- The specified VT1.5 port is embedded within a protection OC3 port.
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

SET-ATTR-VT1: [TID] :AID: [CTAG] :: [NTFCNCDE] , [CONDTYPE] , [LOCN] , [DIRN] ,
[TMPER] , [SRVEFF] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	VT1_AID: {EC1VT1-{1-3840}-{1-7}-{1-4}} (EC1VT1-EC1/STS1#-VTGrp#-VT1.5#) {OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}} (OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#) {OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}} (OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: VT1 AID, identifies the VT1.5 port.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
NTFCNCDE	{CR, DFLT, MJ, MN, NA, NR} Default: {NA} Addressing: None Description: Notification Code, specifies the notification code that is generated by the system upon the occurrence of the event specified by CONDTYPE. Values are: CR Critical Alarm (reported via REPT^ALM autonomous message). DFLT Default, the notification code for the specified near-end and/or far-end condition type and service effect combination is set to the system default value (as set via SET-DFLTATTR-VT1). MJ Major Alarm (reported via REPT^ALM autonomous message). MN Minor Alarm (reported via REPT^ALM autonomous message). NA Not Alarmed (reported via REPT^EVT autonomous message). NR Not Reported.

CONDTYPE	NEAR-END_CONDDTYPE:{ACTLPBK, AIS, EBER, FLTESC, FRCDWKSWBK, FRCDWKSWPR, IDLE, INHPMREPT, LOP, MAN, MANWKSWBK, MANWKSWPR, ROLLMON, SDBER, SLMF},	
	FAR-END_CONDDTYPE:{RFI}	
	Default:	< All applicable condition types listed above >
	Addressing:	None
	Description:	Condition Type, specifies the condition type for which the specified NTFNCNDE is to be set. (Refer to Appendix C for a list of all condition types.) Values are:
	ACTLPBK	Active Loopback, the VT1.5 port is in loop back. (Near-End only.)
	AIS	Alarm Indication Signal, AIS detected. (Near-End only.)
	EBER	Excessive Bit Error Rate detected. (Near-End only.)
	FLTESC	Facility Fault Escalation active. (Near-End only.)
	FRCDWKSWBK	Forced Working Switched Back, working facility was manually force switched from protection to the main facility. (Near-End only.)
	FRCDWKSWPR	Forced Working Switched to Protection, working facility was manually force switched to the protection facility. (Near-End only.)
	IDLE	Idle, incoming idle detected. (Near-End only.)
	INHPMREPT	Inhibit Performance Monitoring Report, PM report capability inhibited. (Near-End only.)
	LOP	Loss Of Pointer detected. (Near-End only.)
	MAN	Manual removal (logical removal was performed on the facility). (Near-End only.)
	MANWKSWBK	Manual Working Switched Back, working facility was manually switched from protection to the main facility. (Near-End only.)
	MANWKSWPR	Manual Working Switched to Protection, working facility was manually switched to the protection facility. (Near-End only.)
	RFI	Remote Failure Indication detected. (Far-End only.)
	ROLLMON	Roll Monitoring, receive-side RTO port being monitored for valid signal. (Near-End only.)
	SDBER	Signal Degrade Bit Error Rate detected. (Near-End only.)
	SLMF	Signal Label Match Failure detected. (Near-End only.)
	Restrictions:	SET-ATTR-VT1 is denied if the specified CONDDTYPE value is not supported for the specified LOCN value (e.g., CONDDTYPE of AIS and LOCN of FEND is entered).
LOCN	{FEND, NEND}	
	Default:	< All location values applicable to the specified condition type >
	Addressing:	None
	Description:	Location, specifies the location where the condition type is monitored. Values are:
	FEND	Far-End, events occurring at a distant network element.
	NEND	Near-End, events occurring at the system.
	Restrictions:	SET-ATTR-VT1 is denied if the specified LOCN value is not supported for the specified CONDDTYPE value (e.g., CONDDTYPE of AIS and LOCN of FEND is entered).

DIRN	{NA, RCV, TRMT}					
	Default: < All applicable directions >					
	Addressing: None					
	Description: Direction, specifies the direction of the condition type being monitored. The value for DIRN is verified, but does not affect the function of the SET-ATTR-VT1 command.					
	<table> <tr> <td>NA</td><td>Not Applicable</td></tr> <tr> <td>RCV</td><td>Receive side</td></tr> <tr> <td>TRMT</td><td>Transmit direction</td></tr> </table>	NA	Not Applicable	RCV	Receive side	TRMT
NA	Not Applicable					
RCV	Receive side					
TRMT	Transmit direction					
TMPER	{15-MIN, 1-DAY}					
	Default: {15-MIN}					
	Addressing: None					
	Description: Time Period. The value for TMPER is verified, but does not affect the function of the SET-ATTR-VT1 command.					
SRVEFF	{NSA, SA}					
	Default: < Both service effect values >					
	Addressing: None					
	Description: Service Effect, specifies the service effect of the condition type for which the specified NTFNCNDE is to be set. Values are:					
	<table> <tr> <td>NSA</td><td>Non-Service Affecting</td></tr> <tr> <td>SA</td><td>Service Affecting</td></tr> </table>	NSA	Non-Service Affecting	SA	Service Affecting	
NSA	Non-Service Affecting					
SA	Service Affecting					

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent
	/* Condition type is not consistent with <FACILITY TYPE STRING>. */
	/* Location is not consistent with <FACILITY TYPE STRING> <CONDITION TYPE STRING>. */
IDNV	Input, Data Not Valid
	/* Invalid notification code specified: <NOTIFICATION CODE STRING>. */
	/* Invalid service effect specified: <SERVICE EFFECT STRING>. */
	/* Invalid condition type specified: <CONDITION TYPE STRING>. */
	/* Invalid location specified: <LOCATION STRING>. */
	/* Invalid Parameter Value. */
IIAC	Input, Invalid ACcess identifier
	/* Invalid Access ID specified. */

INUP	Input, Non-Null Unimplemented Parameter /* No matching attributes to update as requested by user. */
SDBE	Status, internal Data Base Error /* Unable to read file <FILENAME>, Error <ERROR NUMBER> */ /* Unable to update file <FILENAME>, Error <ERROR NUMBER> */
SNVS	Status, Not in Valid State /* Facility is unprovisioned. */ /* AID not as provisioned. */

EXAMPLES

In the following example, the notification code is set to major (MJ) for the near-end service affecting LOP condition type for VT1.5 port EC1VT1-337-4-2.

```
SET-ATTR-VT1::EC1VT1-337-4-2:::MJ,LOP,NEND,,SA;
```

In the following example, the notification code is set to not alarmed (NA) for both the non-service affecting and service affecting RFI condition type for VT1.5 ports EC1VT1-338-7-1 through EC1VT1-338-7-4.

```
SET-ATTR-VT1::EC1VT1-338-7-1&-4:::,RFI;
```

In the following example, the notification code for all service affecting and non-service affecting condition types is set to its system default value for VT1.5 port EC1VT1-102-3-1.

```
SET-ATTR-VT1::EC1VT1-102-3-1:::DFLT;
```

RELATED COMMANDS

```
RTRV-ALM-ALL  
RTRV-ALM-VT1  
RTRV-ATTR-VT1  
RTRV-COND-ALL  
RTRV-COND-VT1  
RTRV-DFLTATTR-VT1  
SET-DFLTATTR-VT1
```

RELATED AUTONOMOUS RESPONSES

```
REPT^ALM^VT1  
REPT^EVT^VT1
```

COMMAND CODE: **SET-DFLT-EC1**
COMMAND NAME: **SET DEFAULT EC1**

PURPOSE

The SET-DFLT-EC1 command changes the system default values for EC1 port parameters specified in the ENT-EC1 command. The parameter system default values, as set by this command, are used for provisioning of EC1 ports when a parameter value is not explicitly specified in the ENT-EC1 command.

Only those parameters specified in the command result in a change to the system database. Parameters not specified retain the value as provided from the factory or as set with a previously executed SET-DFLT-EC1 command. Previously provisioned EC1 ports are not affected by this command. All subsequently provisioned EC1 ports assume the parameter default value entered with the last executed SET-DFLT-EC1 command unless a different value is explicitly specified in the ENT-EC1 command.

The EC1 parameter default database is not affected (changed) by a system restart. The EC1 parameter default database is replaced by the corresponding database on a backup media during a database restoral (i.e., RESTORE-DB command is executed successfully).

A SET-DFLT-EC1 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

SET-DFLT-EC1 : [TID] : : [CTAG] : : : [AINSTH=] : [PST] [, SST] ;

INPUT PARAMETERS

TID	< 1–20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1–6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
AINSTH=	{HH-MM:{00–48} – {00–59} } Default: Default = Previously existing value Factory Default = 8 hours Addressing: None Description: Automatic In-Service Threshold, specifies how long a customer signal must be present on the facility without a LOS, LOF, or AIS-L alarm condition before the system puts the facility into the In-Service state. The factory default is 8 hours. The valid value is: <div style="margin-left: 40px;">HH-MM Time, specifies the duration of an alarm-free signal where value HH indicates the time duration in hours and value MM indicates the time duration in minutes. The valid range of values is 00–48 and 00–59 (in increments of 1 minute), respectively.</div> Restrictions: If 48 is specified in HH, then MM has to be 00.
PST	{IS, OOS} Default: < Previously existing value > or {IS} (Factory Default) Addressing: None Description: Primary State, specifies the primary state to provision the EC1. Values are: <div style="margin-left: 40px;">IS In-Service OOS Out-Of-Service</div> Restrictions: SET-DFLT-EC1 is denied if PST of OOS and SST of AINS is entered.

SST	{AINS, AINS-DEA}
Default:	< Previously existing value > or <Null> (Unpopulated – Factory Default)
Addressing:	None
Description:	Secondary State, specifies the secondary state to provision the EC1. Values are: AINS Automatic In-Service, the SST database value is set to AINS. AINS-DEA Automatic In-Service-Deactivate, the SST database value is set to <NoVal> (unpopulated).
Restrictions:	SET-DFLT-EC1 is denied if SST of AINS and PST of OOS is entered. SET-DFLT-EC1 is denied if SST of AINS-DEA is entered and the current SST database value is not set AINS.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

```

IDNC    Input, Data Not Consistent
IDNV    Input, Data Not Valid
SDBE    Status, internal Data Base Error
        /* DFLT Database Error: <ERROR-STRING> */

```

EXAMPLES

The following example changes the default EC1 provisioning parameter values for PST to OOS. After this command is executed, all subsequent provisioning of EC1 ports with the ENT-EC1 command will be provisioned with these default values unless a different value is explicitly specified in the ENT-EC1 command.

```
SET-DFLT-EC1:::OOS;
```

RELATED COMMANDS

```

DLT-EC1
ED-EC1
ENT-EC1
RMV-EC1
RST-EC1
RTRV-DFLT-EC1
RTRV-EC1

```

COMMAND CODE: **SET-DFLT-OC12**
COMMAND NAME: **SET DEFAULT OC-12**

PURPOSE

The SET-DFLT-OC12 command changes the system default values for OC-12 port parameters specified in the ENT-OC12 command. The parameter system default values, as set by this command, are used for provisioning of OC-12 ports when a parameter value is not explicitly specified in the ENT-OC12 command.

Only those parameters specified in the command result in a change to the system database. Parameters not specified retain the value as provided from the factory or as set with a previously executed SET-DFLT-OC12 command. Previously provisioned OC-12 ports are not affected by this command. All subsequently provisioned OC-12 ports assume the parameter default value entered with the last executed SET-DFLT-OC12 command unless a different value is explicitly specified in the ENT-OC12 command.

The OC-12 parameter default database is not affected (changed) by a system restart. The OC-12 parameter default database is replaced by the corresponding database on a backup media during a database restoral (i.e., RESTORE-DB command is executed successfully).

A SET-DFLT-OC12 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

SET-DFLT-OC12: [TID] :: [CTAG] :: [AINSTH=] [, S1TRANS=] [, SDTHSW=] : [PST] [, SST] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
AINSTH=	{HH-MM:{00-48} – {00-59} } Default: Default = Previously existing value Factory Default = 8 hours Addressing: None Description: Automatic In-Service Threshold, specifies how long a customer signal must be present on the facility without a LOS, LOF, or AIS-L alarm condition before the system puts the facility into the In-Service state. The factory default is 8 hours. The valid value is: HH-MM Time, specifies the duration of an alarm-free signal where value HH indicates the time duration in hours and value MM indicates the time duration in minutes. The valid range of values is 00-48 and 00-59 (in increments of 1 minute), respectively. Restrictions: If 48 is specified in HH, then MM has to be 00.
S1TRANS=	{ DUS, ACT } Default: <Previously existing value> or {DUS} (Factory Default) Addressing: None Description: S1 byte to be transmitted, determines if the S1 byte transmitted will have the "DUS" message or will have the actual traceability of the signal. Values are: DUS Don't USE. The S1 byte is set to "DON'T USE for Synchronization" message. ACT ACTual. The S1 byte is set to the actual traceability of the signal.

SDTHSW=	{5, 6, 7, 8, 9}	
	Default:	<Previously existing value> or {6} (Factory Default)
	Addressing:	None
	Description:	Signal Degrade Threshold Switching level, indicates the signal degrade threshold over which the Signal Degrade protection switching is initiated. Values are:
	5	BER threshold of 10E-5.
	6	BER threshold of 10E-6
	7	BER threshold of 10E-7
	8	BER threshold of 10E-8
	9	BER threshold of 10E-9
PST	{IS, OOS}	
	Default:	< Previously existing value > or {IS} (Factory Default)
	Addressing:	None
	Description:	Primary State, specifies the primary state to provision the OC-12. Values are:
	IS	In-Service
	OOS	Out-Of-Service
	Restrictions:	SET-DFLT-OC12 is denied if PST of OOS and SST of AINS is entered.
SST	{AINS, AINS-DEA}	
	Default:	< Previously existing value > or <Null> (Unpopulated – Factory Default)
	Addressing:	None
	Description:	Secondary State, specifies the secondary state to provision the OC-12. Values are:
	AINS	Automatic In-Service, the SST database value is set to AINS.
	AINS-DEA	Automatic In-Service-Deactivate, the SST database value is set to <NoVal> (unpopulated).
	Restrictions:	SET-DFLT-OC12 is denied if SST of AINS and PST of OOS is entered. SET-DFLT-OC12 is denied is SST of AINS-DEA is entered and the current SST database value is not set AINS.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```


ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent
IDNV	Input, Data Not Valid
SDBE	Status, internal Data Base Error

/* DFLT Database Error: <ERROR-STRING> */

EXAMPLES

The following example changes the default OC-12 provisioning parameter values for SDTHSW to 5 and PST to OOS. After this command is executed, all subsequent provisioning of OC-12 ports with the ENT-OC12 command will be provisioned with these default values unless a different value is explicitly specified in the ENT-OC12 command.

```
SET-DFLT-OC12:::::SDTHSW=5:OOS;
```

RELATED COMMANDS

DLT-OC12
ED-OC12
ENT-OC12
RMV-OC12
RST-OC12
RTRV-DFLT-OC12
RTRV-OC12

COMMAND CODE: **SET-DFLT-OC3**
COMMAND NAME: **SET DEFAULT OC-3**

PURPOSE

The SET-DFLT-OC3 command changes the system default values for OC-3 port parameters specified in the ENT-OC3 command. The parameter system default values, as set by this command, are used for provisioning of OC-3 ports when a parameter value is not explicitly specified in the ENT-OC3 command.

Only those parameters specified in the command result in a change to the system database. Parameters not specified retain the value as provided from the factory or as set with a previously executed SET-DFLT-OC3 command. Previously provisioned OC-3 ports are not affected by this command. All subsequently provisioned OC-3 ports assume the parameter default value entered with the last executed SET-DFLT-OC3 command unless a different value is explicitly specified in the ENT-OC3 command.

The OC-3 parameter default database is not affected (changed) by a system restart. The OC-3 parameter default database is replaced by the corresponding database on a backup media during a database restoral (i.e., RESTORE-DB command is executed successfully).

A SET-DFLT-OC3 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

SET-DFLT-OC3 : [TID] : : [CTAG] : : : [AINSTH=] [, S1TRANS=] [, SDTHSW=] : [PST] [, SST] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
AINSTH	{HH-MM:{00-48} – {00-59} } Default: Default = Previously existing value Factory Default = 8 hours Addressing: None Description: Automatic In-Service Threshold, specifies how long a customer signal must be present on the facility without a LOS, LOF, or AIS-L alarm condition before the system puts the facility into the In-Service state. The factory default is 8 hours. The valid value is: HH-MM Time, specifies the duration of an alarm-free signal where value HH indicates the time duration in hours and value MM indicates the time duration in minutes. The valid range of values is 00-48 and 00-59 (in increments of 1 minute), respectively. Restrictions: If 48 is specified in HH, then MM has to be 00.
S1TRANS=	{ DUS, ACT } Default: <Previously existing value> or {DUS} (Factory Default) Addressing: None Description: S1 byte to be transmitted, determines if the S1 byte transmitted will have the "DUS" message or will have the actual traceability of the signal. Values are: DUS Don't USE. The S1 byte is set to "DON'T USE for Synchronization" message. ACT ACTual. The S1 byte is set to the actual traceability of the signal.

SDTHSW=	{5, 6, 7, 8, 9}	
	Default:	<Previously existing value> or {6} (Factory Default)
	Addressing:	None
	Description:	Signal Degrade Threshold Switching level, indicates the signal degrade threshold over which the Signal Degrade protection switching is initiated. Values are:
	5	BER threshold of 10E-5.
	6	BER threshold of 10E-6
	7	BER threshold of 10E-7
	8	BER threshold of 10E-8
	9	BER threshold of 10E-9
PST	{IS, OOS}	
	Default:	< Previously existing value > or {IS} (Factory Default)
	Addressing:	None
	Description:	Primary State, specifies the primary state to provision the OC-3. Values are:
	IS	In-Service
	OOS	Out-Of-Service
	Restrictions:	SET-DFLT-OC3 is denied if PST of OOS and SST of AINS is entered.
SST	{AINS, AINS-DEA}	
	Default:	< Previously existing value > or <Null> (Unpopulated – Factory Default)
	Addressing:	None
	Description:	Secondary State, specifies the secondary state to provision the OC-3. Values are:
	AINS	Automatic In-Service, the SST database value is set to AINS.
	AINS-DEA	Automatic In-Service-Deactivate, the SST database value is set to <NoVal> (unpopulated).
	Restrictions:	SET-DFLT-OC3 is denied if SST of AINS and PST of OOS is entered. SET-DFLT-OC3 is denied if SST of AINS-DEA is entered and the current SST database value is not set AINS.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent
IDNV	Input, Data Not Valid
SDBE	Status, internal Data Base Error

/* DFLT Database Error: <ERROR-STRING> */

EXAMPLES

The following example changes the default OC-3 provisioning parameter values for SDTHSW to 5 and PST to OOS. After this command is executed, all subsequent provisioning of OC-3 ports with the ENT-OC3 command will be provisioned with these default values unless a different value is explicitly specified in the ENT-OC3 command.

```
SET-DFLT-OC3 : : : : : SDTHSW=5 : OOS ;
```

RELATED COMMANDS

DLT-OC3
ED-OC3
ENT-OC3
RMV-OC3
RST-OC3
RTRV-DFLT-OC3
RTRV-SYSTMSG-OC3
RTRV-OC3

COMMAND CODE: **SET-DFLT-STS1**
COMMAND NAME: **SET DEFAULT STS-1**

PURPOSE

The SET-DFLT-STS1 command changes the system default values for STS1 port parameters specified in the ENT-STS1 command. The parameter system default values, as set by this command, are used for provisioning of STS-1 ports when a parameter value is not explicitly specified in the ENT-STS1 command.

Only those parameters specified in the command result in a change to the system database. Parameters not specified retain the value as provided from the factory or as set with a previously executed SET-DFLT-STS1 command. Previously provisioned STS-1 ports are not affected by this command. All subsequently provisioned STS-1 ports assume the parameter default value entered with the last executed SET-DFLT-STS1 command unless a different value is explicitly specified in the ENT-STS1 command.

The STS1 parameter default database is not affected (changed) by a system restart. The STS1 parameter default database is replaced by the corresponding database on a backup media during a database restoral (i.e., RESTORE-DB command is executed successfully).

A SET-DFLT-STS1 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

```
SET-DFLT-STS1: [TID] :: [CTAG] :: [EXPTRC=] [, STSMAP=] [, STSPTYEL=] [, TRC=]  
[, PDIINS=] : [PST] ;
```

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
EXPTRC=	< 0-62 ASCII printable characters followed by CR and LF> Default: <Previously existing value> Factory default = 62 null characters followed by CR and LF Addressing: None Description: Expected Path Trace message, specifies the expected path trace message. Value consists of 0-62 ASCII printable characters followed by a CR (carriage return) and LF (line feed). If less than 62 characters are entered, the EXPTRC message is filled with ASCII nulls followed by CR and LF. The EXPTRC value must be enclosed within double-quotes if a character other than an alphanumeric, underscore, plus, percent or pound is entered. If "" (i.e., no characters) is entered, the EXPTRC message is 62 ASCII nulls followed by a CR and LF.

STSMAP=	{ALL, ASYNC, VTFLOAT}	
	Default:	<Previously existing value> Factory default = VTFLOAT
	Addressing:	None
	Description:	STS payload Mapping, specifies the expected STS-1 payload type and the value of the expected path signal label (C2). The value of STSMAP is used for comparison in the Signal Label Mismatch function. Values are:
	ALL	Generic STS-1 format. Contains payload of any mapping format (C2 ≠ 000 bin). Since this value matches all signal label values, mismatch alarms can never be generated. The transmitted signal label however depends on how the cross connect has been made.
	ASYNC	Asynchronous mapping for DS3 (i.e. C2=04 hex)
	VTFLOAT	Floating mode VTs (i.e. C2=02 hex).
STSPTYEL=	{N}	
	Default:	{N} (Factory default)
	Addressing:	None
	Description:	STS Path Yellow behavior, specifies whether STS path Yellow or Remote Defect Indicator (RDI) is transmitted/received. Values are:
	N	No. RDI is transmitted/received on appropriate defect states.
TRC=	< 0–62 ASCII printable characters followed by CR and LF >	
	Default:	<Previously existing value> Factory default = 62 null characters followed by CR and LF
	Addressing:	None
	Description:	Path Trace message, specifies the path trace message transmitted when the STS-1 is provisioned. Value consists of 0–62 ASCII printable characters followed by a CR (carriage return) and LF (line feed). If less than 62 characters are entered, the TRC message is filled with ASCII nulls followed by CR and LF. The TRC value must be enclosed within double-quotes if a character other than an alphanumeric, underscore, plus, percent or pound is entered. If "" (i.e., no characters) is entered, the TRC message is 62 ASCII nulls followed by a CR and LF.
PDIINS=	{N,Y}	
	Default:	<Previously existing value> Factory default = N
	Addressing:	None
	Description:	Payload Defect Insertion, specifies whether or not PDI-P values are inserted into the outgoing STS1 upon detection of DS3/VT1.5 failures. Values are:
	N	No. PDI-P values are not inserted into the outgoing signal label when payload defects exist.
	Y	Yes, appropriate PDI-P values are inserted into the outgoing signal label when payload defects exist.
	Restrictions:	If FLTPRO=N is set in the ED-FLTPRO-STs1 command, PDI is inserted per GR-253. If FLTPRO=Y is set in the ED-FLTPRO-STs1 command, PDI is inserted per Alcatel's Fault Escalation type payload defects.

PST	{IS, OOS}	
	Default:	<Previously existing value> Factory Default = IS
	Addressing:	None
	Description:	Primary State, specifies the primary state to provision the STS-1. Values are:
	IS	In-Service
	OOS	Out-Of-Service

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

```

IDNV      Input, Data Not Valid
IIFM      Input, Invalid data ForMat
          /* TRC and/or EXPTRC text strings too long */
SDBE      Status, internal Data Base Error
          /* DFLT Database Error: <ERROR-STRING> */
```

EXAMPLES

The following example changes the default STS-1 provisioning parameter values for EXPTRC and TRC to Null character string, STSMAP to ASYNC, STSPTYEL to N, PDIINS to Y, and PST to OOS. After this command is executed, all subsequent provisioning of STS-1 ports with the ENT-STs1 command is provisioned with these default values unless a different value is explicitly specified in the ENT-STs1 command.

```
SET-DFLT-STs1:::EXPTRC="" , STSMAP=ASYNC, STSPTYEL=N, TRC="" , PDIINS=Y:OOS;
```

RELATED COMMANDS

```

DLT-STs1
ED-FLTPRO-STs1
ED-STs1
ENT-STs1
RMV-STs1
RST-STs1
RTRV-DFLT-STs1
RTRV-FLTPRO-STs1
RTRV-STs1
```


COMMAND CODE: **SET-DFLT-STS3C**
COMMAND NAME: **SET DEFAULT STS-3C**

PURPOSE

The SET-DFLT-STS3C command changes the system default values for STS-3C port parameters specified in the ENT-STS3C command. The parameter system default values, as set by this command, are used for provisioning of STS-3C ports when a parameter value is not explicitly specified in the ENT-STS3C command.

Only those parameters specified in the command result in a change to the system database. Parameters not specified retain the value as provided from the factory or as set with a previously executed SET-DFLT-STS3C command. Previously provisioned STS-3C ports are not affected by this command. All subsequently provisioned STS-3C ports assume the parameter default value entered with the last executed SET-DFLT-STS3C command unless a different value is explicitly specified in the ENT-STS3C command.

The STS-3C parameter default database is not affected (changed) by a system restart. The STS-3C parameter default database is replaced by the corresponding database on a backup media during a database restoral (i.e., RESTORE-DB command is executed successfully).

A SET-DFLT-STS3C command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

SET-DFLT-STS3C: [TID] : : [CTAG] : : : [EXPTRC=] [, STSMAP=] [, TRC=] : [PST] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
EXPTRC=	< 0-62 ASCII printable characters followed by CR and LF> Default: <Previously existing value> or {62 null characters followed by CR and LF} (Factory default) Addressing: None Description: Expected Path Trace message, specifies the expected path trace message. Value consists of 0-62 ASCII printable characters followed by a CR (carriage return) and LF (line feed). If less than 62 characters are entered, the EXPTRC message is filled with ASCII nulls followed by CR and LF. The EXPTRC value must be enclosed within double-quotes if a character other than an alphanumeric, underscore, plus, percent or pound is entered. If "" (i.e., no characters) is entered, the EXPTRC message is 62 ASCII nulls followed by a CR and LF.

STSMAP=	{ALL, ATM, DQDB, DS4NA, FDDI}
	Default: <Previously existing value> or {ALL} (Factory default)
	Addressing: None
	Description: STS payload Mapping, determines the expected STS-3C payload type and the value of the expected path signal label (C2). Used for comparison for the Signal Label Mismatch function. Values are:
	ALL Generic STS-3C format. Contains payload of any mapping format (C2≠000 bin). Since this value will match ALL signal label values, mismatch alarms are never generated.
	ATM STS-3C contains ATM payload (provisioned (C2=13)).
	DQDB STS-3C contains DQDB payload (provisioned (C2=14)).
	DS4NA STS-3C contains DS4NA payload (provisioned (C2=12)).
	FDDI STS-3C contains FDDI payload (provisioned (C2=15)).
TRC=	< 0-62 ASCII printable characters followed by CR and LF >
	Default: <Previously Existing Value>
	Addressing: None
	Description: Path Trace message. Specifies the path trace message to be transmitted when the STS-3c is provisioned. Value consists of 0-62 ASCII printable characters followed by a CR (carriage return) and LF (line feed). If less than 62 characters are entered, the TRC message is filled with ASCII nulls followed by CR and LF. The TRC value must be enclosed within double-quotes if a character other than an alphanumeric, underscore, plus, percent or pound is entered. If "" (i.e., no characters) is entered, the TRC message is 62 ASCII nulls followed by a CR and LF.
PST	{IS, OOS}
	Default: <Previously existing value> or {IS} (Factory Default)
	Addressing: None
	Description: Primary State, specifies the primary state to provision the STS-3C. Values are:
	IS In-Service
	OOS Out-Of-Service

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid
IIFM	Input, Invalid data ForMat
	/* TRC and/or EXPTRC text string is too long */
SDBE	Status, internal Data Base Error
	/* DFLT Database Error: <ERROR-STRING> */

EXAMPLES

The following example changes the default STS-3C provisioning parameter values for EXPTRC to Null character string, STSMAP to ATM, and PST to OOS. After this command is executed, all subsequent provisioning of STS-3C ports with the ENT-ST3C command is provisioned with these default values unless a different value is explicitly specified in the ENT-ST3C command.

```
SET-DFLT-ST3C: : : : : EXPTRC="" , STSMAP=ATM, TRC="" : OOS ;
```

RELATED COMMANDS

DLT-ST3C
ED-ST3C
ENT-ST3C
RMV-ST3C
RST-ST3C
RTRV-DFLT-ST3C
RTRV-ST3C

COMMAND CODE: **SET-DFLT-T1**
COMMAND NAME: **SET DEFAULT T1**

PURPOSE

The SET-DFLT-T1 command changes the system default values for DS1 port parameters specified in the ENT-T1 command. The parameter system default values, as set by this command, are used for provisioning of DS1 ports when a parameter value is not explicitly specified in the ENT-T1 command.

Only those parameters specified in the command result in a change to the system database. Parameters not specified retain the value as provided from the factory or as set with a previously executed SET-DFLT-T1 command. Previously provisioned DS1 ports are not affected by this command. All subsequently provisioned DS1 ports assume the parameter default value entered with the last executed SET-DFLT-T1 command unless a different value is explicitly specified in the ENT-T1 command.

The DS1 parameter default database is not affected (changed) by a system restart. The DS1 parameter default database is replaced by the corresponding database on a backup media during a database restoral (i.e., RESTORE-DB command is executed successfully).

If the default PST,SST is set to IS, AINS, then in order to provision an embedded DS1, the ENT-T1 command must specify the SST of AINS-DEA or else the ENT-T1 command will be denied.

A SET-DFLT-T1 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

```
SET-DFLT-T1: [TID] :: [CTAG] :: [AINSTH=] [, AISC=] [, AISF=] [, FEMETHOD=]  
[, FENDNTE=] [, FMT=] [, IDLE=] [, LINECDE=] : [PST] [, SST] ;
```

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
AINSTH=	{HH-MM:{00-48} – {00-59} } Default: Default= Previously existing value Factory Default = 8 hours Addressing: None Description: Automatic In-Service Threshold, specifies how long a customer signal must be present on the facility without a LOS, LOF, or AIS-L alarm condition before the system puts the facility into the In-Service state. The factory default is 8 hours. The valid value is: <div>HH-MM Time, specifies the duration of an alarm-free signal where value HH indicates the time duration in hours and value MM indicates the time duration in minutes. The valid range of values is 00-48 and 00-59 (in increments of 1 minute), respectively.</div> Restrictions: If 48 is specified in HH, then MM has to be 00.

AISC=	{LOF, LOFLOS, LOS}
Default:	<Previously existing value> or {LOS} (Factory Default)
Addressing:	None
Description:	Alarm Indication Signal insertion Criteria, specifies the condition necessary for insertion of AIS into a failed DS1 signal path. Values are:
LOF	Automatic AIS insertion on detection of LOF.
LOFLOS	Automatic AIS insertion on detection of LOF or LOS.
LOS	Automatic AIS insertion on detection of LOS. LOS only applies to a terminated electrical DS1.
AISF=	{N, Y}
Default:	<Previously existing value> or {Y} (Factory Default)
Addressing:	None
Description:	Alarm Indication Signal Failure substitution, specifies whether a failed upstream signal (as defined by the AISC parameter) should have AIS inserted in the downstream path. Values are:
N	No, AIS is not inserted in the downstream path of a failed signal, the failed signal passes through the system.
Y	Yes, AIS is inserted in the downstream path of a failed signal.
FEMETHOD=	{ANSI, ATTPOLL, NONE}
Default:	<Previously existing value> or {NONE} (Factory Default)
Addressing:	None
Description:	Far-End PM collection Method, specifies the PM collection method for far-end PM data. Values are:
ANSI	Basic ANSI T1.403 PM data collection.
ATTPOLL	Poll for PM data using the AT&T 54016 protocol to poll the data and convert into ANSI format for reporting. (ALCATEL method).
NONE	None, far-end PM is not collected on the DS1.
Restrictions:	SET-DFLT-T1 is denied if FEMETHOD=ANSI and either FENDNTE={ATT, NONE} or FMT={SF,UNFR}. SET-DFLT-T1 is denied if FEMETHOD=ATTPOLL and either FENDNTE={ANSI, NONE} or FMT={SF,UNFR}.
FENDNTE=	{ANSI, ANSIATT, ATT, NONE}
Default:	<Previously existing value> or {NONE} (Factory Default)
Addressing:	None
Description:	Far-End NTE performance monitoring terminal type, specifies whether the far-end network terminal supports standard ANSI performance monitoring (PM) collection and reporting or AT&T TR-54016 polled PM reporting for ESF DS1 signal formats. Values are:
ANSI	ANSI, the far-end NTE supports the ANSI T1.403 PM standard.
ANSIATT	ANSI and AT&T, the far-end NTE supports the ANSI T1.403 PM standard and the AT&T TR-54016 polled PM reporting standard.
ATT	AT&T TR-54016, the far-end NTE supports the AT&T TR-54016 polled PM reporting standard. (Refer to RTRV-FEDATA-T1)
NONE	None, the far-end NTE does not support either the ANSI T1.403 PM standard or the AT&T TR-54016 standard.
Restrictions:	SET-DFLT-T1 is denied if FENDNTE={ANSI} and FEMETHOD={ATT-POLL}. SET-DFLT-T1 is denied if FENDNTE={ATT} and FEMETHOD={ANSI}.

FMT=	{ESF, SF, UNFR}	
	Default:	<Previously existing value> or {UNFR} (Factory Default)
	Addressing:	None
	Description:	DS1 Format, specifies the DS1 signal format for this port. The DS1 FMT parameter determines the type of signal format used for performance monitoring data collection and transmission condition detection, or the format of the Idle Signal Source port if SRC=INTSRC in the ENT-T1 command. Values are:
	ESF	Extended SuperFrame
IDLE=	SF	SuperFrame
	UNFR	Unframed
	Restrictions:	SET-DFLT-T1 is denied if FMT={SF, UNFR} and FEMETHOD= {ANSI, ATTPOLL}. SET-DFLT-T1 is denied if FMT=UNFR and IDLE=QRSF.
LINECDE=	{AIS, QRSF, QRSU}	
	Default:	<Previously existing value> or {AIS} (Factory Default)
	Addressing:	None
	Description:	Idle signal transmit type, specifies the type of Idle signal to be transmitted by this port when it is disconnected, or determines the type of Idle signal of the Idle Signal Source port if SRC={EXTSRC, INTSRC} in the ENT-T1 command. Values are:
	AIS	AIS (Alarm Indication Signal)
PST	QRSF	Framed QRS (Quasi-Random Signal)
	QRSU	Unframed QRS (Quasi-Random Signal)
	Restrictions:	SET-DFLT-T1 is denied if IDLE=QRSF and FMT=UNFR.
LINECDE=	{AMI, B8ZS}	
	Default:	<Previously existing value> or {AMI} (Factory Default for terminated electrical DS1s)
	Addressing:	None
	Description:	DS1 Line Code, specifies the type of DS1 line code for a terminated electrical DS1. Values are:
	AMI	Alternate Mark Insertion
PST	B8ZS	Bipolar with Eight Zero Substitution
PST	{IS, OOS}	
	Default:	<Previously existing value> or {IS} (Factory Default)
	Addressing:	None
	Description:	Primary State, specifies the primary state to provision the DS1. Values are:
	IS	In-Service
PST	OOS	Out-Of-Service
	Restrictions:	SET-DFLT-T1 is denied if PST of OOS and SST of AINS is entered.

SST	{AINS, AINS-DEA}
Default:	<Previously existing value> or <Null> (Unpopulated – Factory Default)
Addressing:	None
Description:	Secondary State, specifies the secondary state to provision the DS1. Values are:
	AINS Automatic In-Service, the SST database value is set to AINS.
	AINS-DEA Automatic In-Service-Deactivate, the SST database value is set to <NoVal> (unpopulated).
Restrictions:	SET-DFLT-T1 is denied if SST of AINS and PST of OOS is entered. SET-DFLT-T1 is denied if SST of AINS-DEA is entered and the current SST database value is not set AINS.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

```

IDNC      Input, Data Not Consistent
          /* Invalid combination of FENDNTE and FEMETHOD */
          /* Invalid combination for FMT and FEMETHOD */
          /* Invalid combination for FMT and IDLE */
IDNV      Input, Data Not Valid
SDBE      Status, internal Data Base Error
          /* DFLT Database Error: <ERROR-STRING> */

```

EXAMPLES

The following example changes the default DS1 provisioning parameter values for FMT to ESF, FENDNTE to ANSI, AISC to LOF, and PST to OOS. After this command is executed, all subsequent provisioning of DS1 ports with the ENT-T1 command will be provisioned with these default values unless a different value is explicitly specified in the ENT-T1 command.

```
SET-DFLT-T1:::FMT=ESF,FENDNTE=ANSI,AISC=LOF:OOS;
```

RELATED COMMANDS

DLT-T1
ED-T1
ENT-T1
RMV-T1
RST-T1
RTRV-DFLT-T1
RTRV-T1

COMMAND CODE: **SET-DFLT-T3**
COMMAND NAME: **SET DEFAULT T3**

PURPOSE

The SET-DFLT-T3 command changes the system default values for DS3 port parameters specified in the ENT-T3 command. The parameter system default values, as set by this command, are used for provisioning of DS3 ports when a parameter value is not explicitly specified in the ENT-T3 command.

Only those parameters specified in the command result in a change to the system database. Parameters not specified retain the value as provided from the factory or as set with a previously executed SET-DFLT-T3 command. Previously provisioned DS3 ports are not affected by this command. All subsequently provisioned DS3 ports assume the parameter default value entered with the last executed SET-DFLT-T3 command unless a different value is explicitly specified in the ENT-T3 command.

The DS3 parameter default database is not affected (changed) by a system restart. The DS3 parameter default database is replaced by the corresponding database on a backup media during a database restoral (i.e., RE-STORE-DB command is executed successfully).

If the default PST,SST is set to IS, AINS, then in order to provision an embedded DS3, the ENT-T3 command must specify the SST of AINS-DEA or else the ENT-T3 command will be denied.

A SET-DFLT-T3 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

```
SET-DFLT-T3 : [TID] : : [CTAG] : : : [AINSTH=] [,AISC=] [,AISPASS=] [,AIST=]
              [,DS3PTYEL=] [,FEAC=] [,FMT=] [,LINECDE=] [,PMMETHOD=]
              [,XBITRCV=] [,XPOL=] : [PST] [,SST] ;
```

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >
Default:	<SID>
Addressing:	None
Description:	Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS >
Default:	< System assigned CTAG value >
Addressing:	None
Description:	Correlation Tag, associates input command with its output responses.
AINSTH=	{HH-MM:{00-48} – {00-59} }
Default:	Default = Previously existing value Factory Default = 8 hours
Addressing:	None
Description:	Automatic In-Service Threshold, specifies how long a customer signal must be present on the facility without a 7LOF, ISD, AICMISM, LOS, LOF, or AIS-L alarm condition before the system puts the facility into the In-Service state. The factory default is 8 hours. The valid value is:
HH-MM	Time, specifies the duration of an alarm-free signal where value HH indicates the time duration in hours and value MM indicates the time duration in minutes. The valid range of values is 00-48 and 00-59 (in increments of 1 minute), respectively.
Restrictions:	If 48 is specified in the HH, then MM has to be 00.

AISC=	{LOFLOS, LOS}	
	Default:	<Previously existing value> or {LOFLOS} (Factory Default)
	Addressing:	None
	Description:	Alarm Indication Signal insertion Criteria, specifies the condition at the input of a DS3 intact cross connect necessary for AIS insertion into the output of the DS3 intact cross connect. Values are:
	LOS	Loss of Signal. Automatic AIS insertion upon detection of LOS.
	LOFLOS	Loss of Frame—Loss of Signal. Automatic AIS insertion upon detection of LOFLOS.
AISPASS=	{Y, N }	
	Default:	<Previously existing value> or {Y} (Factory Default)
	Addressing:	None
	Description:	Alarm Indication Signal Passed, specifies whether the AIS generated by the input port which is connected to the output port is passed through the output port, or whether AIS is generated by the output port itself. Values are:
	Y	Yes, the AIS generated by the input port is passed through the output port.
	N	No, AIS is regenerated by the output port instead of being passed through the output port.
AIST=	{NAS, ONES, OAIS}	
	Default:	<Previously existing value> or {NAS} (Factory Default)
	Addressing:	None
	Description:	Alarm Indication Signal Type, specifies the expected input AIS signal and generated output AIS signal for the DS3 port should a failure condition exist. Values are:
	NAS	North American Standard
	ONES	Unframed All Ones (Nonstandard)
	OAIS	Old AIS, the same sequence of information bits as North American Standard but with no regard to how the C—bits are set.
DS3PTYEL=	{N, Y}	
	Default:	<Previously existing value> or {Y} (Factory Default)
	Addressing:	None
	Description:	DS3 Yellow behavior, identifies whether DS3 path yellow or RDI (remote defect indication) will be sent and detected. Values are:
	N	RDI will be sent/detected by the DS3.
	Y	DS3 path yellow will be sent/detected by the DS3.
FEAC=	{N, Y}	
	Default:	<Previously existing value> or {N} (Factory Default)
	Addressing:	None
	Description:	Far End Alarm and Control, specifies the far end alarm and control enable setting for C—bit parity format. Values are:
	N	FEAC inhibited
	Y	FEAC enabled
	Restrictions:	SET—DFLT—T3 is denied if FEAC=Y and FMT=ASYN.

FMT=	{ASYNC, CBIT, FRCC, UNCBIT, UNFR}
Default:	<Previously existing value> or {ASYNC} (Factory Default)
Addressing:	None
Description:	DS3 Format, specifies the DS3 signal format for this port. Values are: ASYNC Asynchronous (M13 format) CBIT C-Bit parity format FRCC Framed Clear Channel. UNCBIT Unchannelized C-Bit parity format UNFR Unframed format
Restrictions:	SET-DFLT-T3 is denied if FMT=ASYNC and FEAC=Y. SET-DFLT-T3 is denied if FMT=ASYNC and PMMETHOD=CP or NONE. SET-DFLT-T3 is denied if FMT=UNFR and PMMETHOD is any value other than NONE.
LINECDE=	{B3ZS}
Default:	{B3ZS}
Addressing:	None
Description:	DS3 Line Code, indicates the DS3 line coding type. Only B3ZS code is supported. B3ZS Bipolar with Three Zero Substitution.
PMMETHOD=	{CP, FM, FMA, NONE, P}
Default:	<Previously existing value> or {P} (Factory Default)
Addressing:	None
Description:	Performance Monitoring Method, specifies the type of performance monitoring to be performed on the DS3. Values are: If FMT=ASYNC (M13 format): FM F&M bit monitoring FMA F&M bit Adjusted monitoring P P-bit monitoring If FMT=CBIT (C-Bit parity format): CP Only CP-bit monitoring FM F&M bit and CP-bit monitoring FMA F&M bit Adjusted and CP-bit monitoring P P-bit and CP-bit monitoring If FMT=FRCC (Framed Clear Channel): FM F&M bit and CP-bit monitoring FMA F&M bit Adjusted and CP-bit monitoring P P-bit and CP-bit monitoring If FMT=UNCBIT (Unchannelized C-Bit parity format): CP Only CP-bit monitoring FM F&M bit and CP-bit monitoring FMA F&M bit adjusted and CP-bit monitoring P P-bit and CP-bit monitoring If FMT=UNFR (Unframed): NONE Null value specified for PMMTEHOD
Restrictions:	SET-DFLT-T3 is denied if PMMETHOD=CP and FMT=ASYNC, FRCC, or UNFR. SET-DFLT-T3 is denied if PMMETHOD=NONE and FMT=ASYNC, CBIT, FRCC, or UNCBIT.

XBITRCV=	{ALM0, ALM1, IGNORE}
	Default: <Previously existing value> or {ALM0} (Factory Default)
	Addressing: None
	Description: Receive X-Bit Translation, specifies how incoming DS3 and DS2 X-bits are translated. Values are: ALM0 Incoming X-bit of 0 indicates a remote alarm ALM1 Incoming X-bit of 1 indicates a remote alarm IGNORE Ignore incoming X-bits
XPOL=	{0, 1, ALM0, ALM1}
	Default: <Previously existing value> or {ALM0} (Factory Default)
	Addressing: None
	Description: Transmit X-bit Polarity, indicates the value to which outgoing DS3 and DS2 X-bits are set. Values are: 0 Force outgoing X-bits to 0 1 Force outgoing X-bits to 1 ALM0 Set X-bits to 0 for indicating alarm ALM1 Set X-bits to 1 for indicating alarm
PST	{IS, OOS}
	Default: <Previously existing value> or {IS} (Factory Default)
	Addressing: None
	Description: Primary State, specifies the primary state to provision the DS3. Values are: IS In-Service OOS Out-Of-Service
	Restrictions: SET-DFLT-T3 is denied if PST of OOS and SST of AINS is entered.
SST	{AINS, AINS-DEA}
	Default: < Previously existing value > or <Null> (Unpopulated – Factory Default)
	Addressing: None
	Description: Secondary State, specifies the secondary state to provision the DS3. Values are: AINS Automatic In-Service, the SST database value is set to AINS. AINS-DEA Automatic In-Service-Deactivate, the SST database value is set to <NoVal> (unpopulated).
	Restrictions: SET-DFLT-T3 is denied if SST of AINS and PST of OOS is entered. SET-DFLT-T3 is denied is SST of AINS-DEA is entered and the current SST database value is not set AINS.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```


UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent /* Invalid combination of FMT and FEAC */ /* Invalid combination of FMT and PMMETHOD */ /* Invalid combination of PST and SST */ /* AINS already deactivated */
IDNV	Input, Data Not Valid
SDBE	Status, internal Data Base Error /* DFLT Database Error: <ERROR-STRING> */
SROF	Status, Requested Operation Failed

EXAMPLES

The following example changes the default DS3 provisioning parameter values for FMT to CBIT and PST,SST to IS,AINS. After this command is executed, all subsequent provisioning of DS3 ports with the ENT-T3 command will be provisioned with these default values unless a different value is explicitly specified in the ENT-T3 command.

```
SET-DFLT-T3 : : : : : FMT=CBIT:IS,AINS;
```

RELATED COMMANDS

```
DLT-T3
ED-T3
ENT-T3
RMV-T3
RST-T3
RTRV-DFLT-T3
RTRV-T3
```


COMMAND CODE: **SET-DFLT-VT1**
COMMAND NAME: **SET DEFAULT VT1**

PURPOSE

The SET-DFLT-VT1 command changes the system default values for VT1.5 port parameters specified in the ENT-VT1 command. The parameter system default values, as set by this command, are used for provisioning of VT1.5 ports when a parameter value is not explicitly specified in the ENT-VT1 command.

Only those parameters specified in the command result in a change to the system database. Parameters not specified retain the value as provided from the factory or as set with a previously executed SET-DFLT-VT1 command. Previously provisioned VT1.5 ports are not affected by this command. All subsequently provisioned VT1.5 ports assume the parameter default value entered with the last executed SET-DFLT-VT1 command unless a different value is explicitly specified in the ENT-VT1 command.

The VT1.5 parameter default database is not affected (changed) by a system restart. The VT1.5 parameter default database is replaced by the corresponding database on a backup media during a database restoral (i.e., RESTORE-DB command is executed successfully).

A SET-DFLT-VT1 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

SET-DFLT-VT1 : [TID] : : [CTAG] : : : [VTMAP=] [, VTPTYEL=] : [PST] ;

INPUT PARAMETERS

TID	< 1–20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1–6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
VTMAP=	{ALL, ASYNC, VTBYTE} Default: <Previously existing value> or {ASYNC} (Factory default) Addressing: None Description: VT Map, specifies the system default provisioning for the expected VT1.5 payload type. Values are: ALL Generic VT1.5 format. Contains payload of any mapping format (L1–L3 ≠ 000 bin). Since this value will match all signal label values, mismatch alarms can never be generated. ASYNC VT Asynchronous mapping – VTFLOAT mode. (L1–L3 = 010 bin). VTBYTE VT Byte synchronous mapping, applicable for DS0s being mapped into VT SPE – VTFLOAT mode (L1–L3 = 100 hex).
VTPTYEL=	{N,Y} Default: <Previously existing value> or {N} (Factory default) Addressing: None Description: VT Path Yellow behavior, specifies whether VT1.5 path yellow or RDI will be transmitted/received. Values are: N No. RDI will be transmitted/received on appropriate defect states. Y Yes. VT1.5 path yellow will be transmitted/received on appropriate fault conditions.

PST	{IS, OOS}	
	Default:	< Previously existing value > or {IS} (Factory Default)
	Addressing:	None
	Description:	Primary State, specifies the primary state to provision the VT1.5. Values are:
	IS	In-Service
	OOS	Out-Of-Service

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

```

IDNV      Input, Data Not Valid
SDBE      Status, internal Data Base Error
          /* DFLT Database Error: <ERROR-STRING> */
```

EXAMPLES

The following example changes the default VT1.5 provisioning parameter values for VTMAP to ASYNC, VTPTYEL to N, and PST to OOS. After this command is executed, all subsequent provisioning of VT1.5 ports with the ENT-VT1 command will be provisioned with these default values unless a different value is explicitly specified in the ENT-VT1 command.

```
SET-DFLT-VT1:::VTMAP=ASYNC,VTPTYEL=N:OOS;
```

RELATED COMMANDS

DLT-VT1
ED-VT1
ENT-VT1
RMV-VT1
RST-VT1
RTRV-DFLT-VT1
RTRV-VT1

COMMAND CODE: **SET-DFLTATTR-EC1**
COMMAND NAME: **SET DEFAULT ATTRIBUTE EC1**

PURPOSE

The SET-DFLTATTR-EC1 command changes the system provisioning default EC1 condition type attributes (the default notification codes for non-service affecting and service affecting EC1 standing conditions).

An EC1 port is provisioned with the system default EC1 condition type attributes, as set by this command, when the EC1 port is assigned and provisioned via the ENT-EC1 command. After an EC1 port is provisioned, the EC1 port's condition type attributes can be set to any (valid) value via the SET-ATTR-EC1 command.

Only the system default EC1 notification code for the condition type and service effect (identified by NTFNCODE, CONDTYPE, LOCN, and SERVEFF) specified in the command is changed in the system database. System default EC1 condition type attributes that are not specified retain the value as provided from the factory (refer to Appendix C for factory default notification codes) or as set with a previously executed SET-DFLTATTR-EC1 command. Previously provisioned EC1 ports are not affected by this command. All subsequently provisioned EC1 ports assume the condition type attributes entered with the last executed SET-DFLTATTR-EC1 command when the EC1 port is provisioned (via ENT-EC1).

The EC1 default condition type database is not affected (changed) by a system restart. The EC1 default condition type database is replaced by the corresponding database on a backup media during a database restoral (i.e., RESTORE-DB command is executed successfully).

A SET-DFLTATTR-EC1 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

SET-DFLTATTR-EC1 : [TID] : : [CTAG] : : [NTFCNCODE] , [CONDTYPE] , [LOCN] , [DIRN] ,
[TMPEFF] , [SRVEFF] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
NTFCNCODE	{CR, MJ, MN, NA, NR} Default: <Previously Existing Value> Addressing: None Description: Notification Code, specifies the system default provisioning notification code (that is generated by the system upon the occurrence of the event specified by CONDTYPE). (Refer to Appendix C for a list of factory default notification codes for all condition types.) Values are: <div><div>CR</div><div>MJ</div><div>MN</div><div>NA</div><div>NR</div></div> <div><div>Critical Alarm (reported via REPT^ALM autonomous message).</div><div>Major Alarm (reported via REPT^ALM autonomous message).</div><div>Minor Alarm (reported via REPT^ALM autonomous message).</div><div>Not Alarmed (reported via REPT^EVT autonomous message).</div><div>Not Reported.</div></div>

CONDTYPE	<p>NEAR-END_CONDDTYPE:{ACTLPBK, AIS, INHPMREPT, LOF, LOS, MAN}, FAR-END_CONDDTYPE:{RFI}</p> <p>Default: < All applicable condition types listed above ></p> <p>Addressing: None</p> <p>Description: Condition Type, specifies the condition type for which the specified NTFNCNDE is to be set. (Refer to Appendix C for a list of all condition types.) Values are:</p> <table> <tr> <td>ACTLPBK</td><td>Active Loopback, the EC1 port is in loop back. (Near-End only.)</td></tr> <tr> <td>AIS</td><td>Alarm Indication Signal, AIS detected. (Near-End only.)</td></tr> <tr> <td>INHPMREPT</td><td>Inhibit Performance Monitoring Report, PM report capability inhibited. (Near-End only.)</td></tr> <tr> <td>LOF</td><td>Loss Of Frame detected. (Near-End only.)</td></tr> <tr> <td>LOS</td><td>Loss Of Signal detected. (Near-End only.)</td></tr> <tr> <td>MAN</td><td>Manual removal (logical removal was performed on the facility). (Near-End only.)</td></tr> <tr> <td>RFI</td><td>Remote Failure Indication detected. (Far-End only.)</td></tr> </table> <p>Restrictions: SET-DFLTATTR-EC1 is denied if the specified CONDDTYPE value is not supported for the specified LOCN value (e.g., CONDDTYPE of AIS and LOCN of FEND is entered).</p>	ACTLPBK	Active Loopback, the EC1 port is in loop back. (Near-End only.)	AIS	Alarm Indication Signal, AIS detected. (Near-End only.)	INHPMREPT	Inhibit Performance Monitoring Report, PM report capability inhibited. (Near-End only.)	LOF	Loss Of Frame detected. (Near-End only.)	LOS	Loss Of Signal detected. (Near-End only.)	MAN	Manual removal (logical removal was performed on the facility). (Near-End only.)	RFI	Remote Failure Indication detected. (Far-End only.)
ACTLPBK	Active Loopback, the EC1 port is in loop back. (Near-End only.)														
AIS	Alarm Indication Signal, AIS detected. (Near-End only.)														
INHPMREPT	Inhibit Performance Monitoring Report, PM report capability inhibited. (Near-End only.)														
LOF	Loss Of Frame detected. (Near-End only.)														
LOS	Loss Of Signal detected. (Near-End only.)														
MAN	Manual removal (logical removal was performed on the facility). (Near-End only.)														
RFI	Remote Failure Indication detected. (Far-End only.)														
LOCN	<p>{FEND, NEND}</p> <p>Default: < All location values applicable to the specified condition type ></p> <p>Addressing: None</p> <p>Description: Location, specifies the location where the condition type is monitored. Values are:</p> <table> <tr> <td>FEND</td><td>Far-End, events occurring at a distant network element.</td></tr> <tr> <td>NEND</td><td>Near-End, events occurring at the system.</td></tr> </table> <p>Restrictions: SET-DFLTATTR-EC1 is denied if the specified LOCN value is not supported for the specified CONDDTYPE value (e.g., CONDDTYPE of AIS and LOCN of FEND is entered).</p>	FEND	Far-End, events occurring at a distant network element.	NEND	Near-End, events occurring at the system.										
FEND	Far-End, events occurring at a distant network element.														
NEND	Near-End, events occurring at the system.														
DIRN	<p>{NA, RCV, TRMT}</p> <p>Default: < All applicable directions ></p> <p>Addressing: None</p> <p>Description: Direction, specifies the direction of the condition type being monitored. The value for DIRN is verified, but does not affect the function of the SET-DFLTATTR-EC1 command.</p> <table> <tr> <td>NA</td><td>Not Applicable</td></tr> <tr> <td>RCV</td><td>Receive side</td></tr> <tr> <td>TRMT</td><td>Transmit direction</td></tr> </table>	NA	Not Applicable	RCV	Receive side	TRMT	Transmit direction								
NA	Not Applicable														
RCV	Receive side														
TRMT	Transmit direction														
TMPER	<p>{15-MIN, 1-DAY}</p> <p>Default: {15-MIN}</p> <p>Addressing: None</p> <p>Description: Time Period. The value for TMPER is verified, but does not affect the function of the SET-DFLTATTR-EC1 command.</p>														
SRVEFF	<p>{NSA, SA}</p> <p>Default: < Both service effect values ></p> <p>Addressing: None</p> <p>Description: Service Effect, specifies the service effect of the condition type for which the specified system default NTFNCNDE is to be set. Values are:</p> <table> <tr> <td>NSA</td><td>Non-Service Affecting.</td></tr> <tr> <td>SA</td><td>Service Affecting.</td></tr> </table>	NSA	Non-Service Affecting.	SA	Service Affecting.										
NSA	Non-Service Affecting.														
SA	Service Affecting.														

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent /* Condition type is not consistent with <FACILITY TYPE STRING>. */ /* Location is not consistent with <FACILITY TYPE STRING> <CONDITION TYPE STRING>. */
IDNV	Input, Data Not Valid /* Invalid notification code specified: <NOTIFICATION CODE STRING>. */ /* Invalid service effect specified: <SERVICE EFFECT STRING>. */ /* Invalid condition type specified: <CONDITION TYPE STRING>. */ /* Invalid location specified: <LOCATION STRING>. */ /* Invalid parameter specified. */
INUP	Input, Non-Null Unimplemented Parameter /* No matching attributes to update as requested by user. */
SDBE	Status, internal Data Base Error /* Unable to read file <FILENAME>, Error <ERROR NUMBER> */ /* Unable to update default attribute database. */

EXAMPLES

In the following example, the system default notification code for the near-end service affecting LOS condition type is set to major (MJ).

```
SET-DFLTATTR-EC1::::MJ,LOS,NEND,,SA;
```

In the following example, the system default notification code for both the non-service affecting and service affecting RFI condition type is set to not alarmed (NA).

```
SET-DFLTATTR-EC1::::,RFI;
```

RELATED COMMANDS

RTRV-ALM-ALL

RTRV-ALM-EC1

RTRV-ATTR-EC1

RTRV-COND-ALL

RTRV-COND-EC1

RTRV-DFLTATTR-EC1

SET-ATTR-EC1

RELATED AUTONOMOUS RESPONSES

REPT^ALM^EC1

REPT^EVT^EC1

COMMAND CODE: **SET-DFLTATTR-F3**
COMMAND NAME: **SET DEFAULT ATTRIBUTE F3**

PURPOSE

The SET-DFLTATTR-F3 command changes the system provisioning default F3 condition type attributes (the default notification codes for non-service affecting and service affecting F3 standing conditions).

An F3 port is provisioned with the system default F3 condition type attributes, as set by this command, when the F3 port is assigned and provisioned via the ENT-F3 command. After an F3 port is provisioned, the F3 port's condition type attributes can be set to any (valid) value via the SET-ATTR-F3 command.

Only the system default F3 notification code for the condition type and service effect (identified by NTFCNCDE, CONDTYPE, LOCN, and SERVEFF) specified in the command is changed in the system database. System default F3 condition type attributes that are not specified retain the value as provided from the factory (refer to Appendix C for factory default notification codes) or as set with a previously executed SET-DFLTATTR-F3 command. Previously provisioned F3 ports are not affected by this command. All subsequently provisioned F3 ports assume the condition type attributes entered with the last executed SET-DFLTATTR-F3 command when the F3 port is provisioned (via ENT-F3).

The F3 default condition type database is not affected (changed) by a system restart. The F3 default condition type database is replaced by the corresponding database on a backup media during a database restoral (i.e., RESTORE-DB command is executed successfully).

A SET-DFLTATTR-F3 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

SET-DFLTATTR-F3 : [TID] :: [CTAG] :: [NTFCNCDE] , [CONDTYPE] , [LOCN] , [DIRN] ,
[TMPER] , [SRVEFF] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
NTFCNCDE	{CR, MJ, MN, NA, NR} Default: <Previously Existing Value> Addressing: None Description: Notification Code, specifies the system default provisioning notification code (that is generated by the system upon the occurrence of the event specified by CONDTYPE). (Refer to Appendix C for a list of factory default notification codes for all condition types.) Values are: <div><div>CR</div><div>MJ</div><div>MN</div><div>NA</div><div>NR</div></div> <div><div>Critical Alarm (reported via REPT^ALM autonomous message).</div><div>Major Alarm (reported via REPT^ALM autonomous message).</div><div>Minor Alarm (reported via REPT^ALM autonomous message).</div><div>Not Alarmed (reported via REPT^EVT autonomous message).</div><div>Not Reported.</div></div>

CONDTYPE	{INHMPREPT}	
	Default:	< All applicable condition types listed above >
	Addressing:	None
	Description:	Condition Type, specifies the condition type for which the specified NTFCNCDE is to be set. (Refer to Appendix C for a list of all condition types.) Values are:
	INHMPREPT	Inhibit Performance Monitoring Report, PM report capability inhibited.
LOCN	{NEND}	
	Default:	< All location values applicable to the specified condition type >
	Addressing:	None
	Description:	Location, specifies the location where the condition type is monitored. Values are:
	NEND	Near-End, events occurring at the system.
DIRN	{NA, RCV}	
	Default:	{NA}
	Addressing:	None
	Description:	Direction, specifies the direction of the condition type being monitored. The value for DIRN is verified, but does not affect the function of the SET-DFLTATTR-F3 command.
	NA	Not Applicable
	RCV	Receive side
TMPER	{15-MIN, 1-DAY}	
	Default:	{15-MIN}
	Addressing:	None
	Description:	Time Period. The value for TMPER is verified, but does not affect the function of the SET-DFLTATTR-F3 command.
SRVEFF	{NSA, SA}	
	Default:	< Both service effect values >
	Addressing:	None
	Description:	Service Effect, specifies the service effect of the condition type for which the specified system default NTFCNCDE is to be set. Values are:
	NSA	Non-Service Affecting.
	SA	Service Affecting.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent /* Condition type is not consistent with <FACILITY TYPE STRING>. */ /* Location is not consistent with <FACILITY TYPE STRING> <CONDITION TYPE STRING>. */
IDNV	Input, Data Not Valid /* Invalid notification code specified: <NOTIFICATION CODE STRING>. */ /* Invalid service effect specified: <SERVICE EFFECT STRING>. */ /* Invalid condition type specified: <CONDITION TYPE STRING>. */ /* Invalid location specified: <LOCATION STRING>. */ /* Invalid Parameter Value. */
INUP	Input, Non-Null Unimplemented Parameter /* No matching attributes to update as requested by user. */
SDBE	Status, internal Data Base Error /* Unable to read file <FILENAME>, Error <ERROR NUMBER> */ /* Unable to update file <FILENAME>, Error <ERROR NUMBER> */

EXAMPLES

In the following example, the system default notification code for the near-end service affecting INHPMREPT condition type is set to major (MJ).

```
SET-DFLTATTR-F3:::::MJ, INHPMREPT, NEND, , , SA;
```

In the following example, the system default notification code for both the non-service affecting and service affecting RFI condition type is set to not alarmed (NA).

```
SET-DFLTATTR-F3:::::, INHPMREPT;
```

RELATED COMMANDS

```
RTRV-ALM-ALL  
RTRV-ALM-F3  
RTRV-ATTR-F3  
RTRV-COND-ALL  
RTRV-COND-F3  
RTRV-DFLTATTR-F3  
SET-ATTR-F3
```

RELATED AUTONOMOUS RESPONSES

```
REPT^ALM^F3  
REPT^EVT^F3
```


COMMAND CODE: **SET-DFLTATTR-OC12**
COMMAND NAME: **SET DEFAULT ATTRIBUTE OC-12**

PURPOSE

The SET-DFLTATTR-OC12 command changes the system provisioning default OC-12 condition type attributes (the default notification codes for non-service affecting and service affecting OC-12 standing conditions).

An OC-12 port is provisioned with the system default OC-12 condition type attributes, as set by this command, when the OC-12 port is assigned and provisioned via the ENT-OC12 command. After an OC-12 port is provisioned, the OC-12 port's condition type attributes can be set to any (valid) value via the SET-ATTR-OC12 command.

Only the system default OC-12 notification code for the condition type and service effect (identified by NTFNCNDE, CONDTYPE, LOCN, and SERVEFF) specified in the command is changed in the system database. System default OC-12 condition type attributes that are not specified retain the value as provided from the factory (refer to Appendix C for factory default notification codes) or as set with a previously executed SET-DFLTATTR-OC12 command. Previously provisioned OC-12 ports are not affected by this command. All subsequently provisioned OC-12 ports assume the condition type attributes entered with the last executed SET-DFLTATTR-OC12 command when the OC-12 port is provisioned (via ENT-OC12).

The OC-12 default condition type database is not affected (changed) by a system restart. The OC-12 default condition type database is replaced by the corresponding database on a backup media during a database restore (i.e., RESTORE-DB command is executed successfully).

A SET-DFLTATTR-OC12 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

```
SET-DFLTATTR-OC12 : [TID] :: [CTAG] :: [NTFCNCDE] , [CONDTYPE] , [LOCN] , [DIRN] ,  
[TMPER] , [SRVEFF] ;
```

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
NTFCNCDE	{CR, MJ, MN, NA, NR} Default: <Previously Existing Value> Addressing: None Description: Notification Code, specifies the system default provisioning notification code (that is generated by the system upon the occurrence of the event specified by CONDTYPE). (Refer to Appendix C for a list of factory default notification codes for all condition types.) Values are: <div><div>CR</div><div>MJ</div><div>MN</div><div>NA</div><div>NR</div><div>Critical Alarm (reported via REPT^ALM autonomous message).</div><div>Major Alarm (reported via REPT^ALM autonomous message).</div><div>Minor Alarm (reported via REPT^ALM autonomous message).</div><div>Not Alarmed (reported via REPT^EVT autonomous message).</div><div>Not Reported.</div></div>

CONDTYPE	NEAR-END_CONDDTYPE:{ACTLPBK, AIS, DUPTARPENRY, EBER, ESW, FRCDWKS WBK, FRCDWKS WPR, INHPMREPT, L2LCONFAIL, L2S CONFAIL, LDCCDLFL, LOCKOUTOFPR, LOF, LOS, MAN, MANWKS WBK, MANWKS WPR, SDBER, SDCCDLFL, WTR}, FAR-END_CONDDTYPE:{RFI}
Default:	< All applicable condition types listed above >
Addressing:	None
Description:	Condition Type, specifies the condition type for which the specified NTFNCODE is to be set. (Refer to Appendix C for a list of all condition types.) Values are:
ACTLPBK	Active Loopback, the OC-12 port is in loopback. (Near-End only.)
AIS	Alarm Indication Signal, AIS detected. (Near-End only.)
DUPTARPENRY	Duplicate TARP adjacency table. (Near-End only.)
EBER	Excessive Bit Error Rate detected. (Near-End only.)
ESW	Excessive Switching, lockout of automatic revertive (OC-12) switching due to excessive switching. (Near-End only.)
FRCDWKS WBK	Forced Working Switched Back, working facility was manually force switched from protection to the main facility. (Near-End only.)
FRCDWKS WPR	Forced Working Switched to Protection, working facility was manually force switched to the protection facility. (Near-End only.)
INHPMREPT	Inhibit Performance Monitoring Report, PM report capability Inhibited. (Near-End only.)
L2LCONFAIL	Layer 2 Line DCC Connection Failure. (Near-End only.)
L2S CONFAIL	Layer 2 Section DCC Connection Failure. (Near-End only.)
LDCCDLFL	Line DCC Data Link Failure. (Near-End only.)
LOCKOUTOFPR	LockOut Of Protection facility. (Near-End only.)
LOF	Loss Of Frame detected. (Near-End only.)
LOS	Loss Of Signal detected. (Near-End only.)
MAN	Manual removal (logical removal was performed on the facility). (Near-End only.)
MANWKS WBK	Manual Working Switched Back, working facility was manually switched from protection to the main facility. (Near-End only.)
MANWKS WPR	Manual Working Switched to Protection, working facility was manually switched to the protection facility. (Near-End only.)
RFI	Remote Failure Indication detected. (Far-End only.)
SDBER	Signal Degrade Bit Error Rate detected. (Near-End only.)
SDCCDLFL	Section DCC Data Link Failure. (Near-End only.)
WTR	Wait To Restore of protection facility. (Near-End only.)
Restrictions:	SET-DFLTATTR-OC12 is denied if the specified CONDDTYPE value is not supported for the specified LOCN value (e.g., CONDDTYPE of RFI and LOCN of NEND is entered).

LOCN	{FEND, NEND}
Default:	< All location values applicable to the specified condition type >
Addressing:	None
Description:	Location, specifies the location where the condition type is monitored. Values are:
	FEND Far-End, events occurring at a distant network element.
	NEND Near-End, events occurring at the system.
Restrictions:	SET-DFLTATTR-OC12 is denied if the specified LOCN value is not supported for the specified CONDTYPE value (e.g., CONDTYPE of RFI and LOCN of NEND is entered).
DIRN	{NA, RCV, TRMT}
Default:	< All applicable directions >
Addressing:	None
Description:	Direction, specifies the direction of the condition type being monitored. The value for DIRN is verified, but does not affect the function of the SET-DFLTATTR-OC12 command.
	NA Not Applicable
	RCV Receive side
	TRMT Transmit direction
TMPER	{15-MIN, 1-DAY}
Default:	{15-MIN}
Addressing:	None
Description:	Time Period. The value for TMPER is verified, but does not affect the function of the SET-DFLTATTR-OC12 command.
SRVEFF	{NSA, SA}
Default:	< Both service effect values >
Addressing:	None
Description:	Service Effect, specifies the service effect of the condition type for which the specified system default NTFCNCDE is to be set. Values are:
	NSA Non-Service Affecting.
	SA Service Affecting.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent /* Condition type is not consistent with <FACILITY TYPE STRING>. */ /* Location is not consistent with <FACILITY TYPE STRING> <CONDITION TYPE STRING>. */
IDNV	Input, Data Not Valid /* Invalid notification code specified: <NOTIFICATION CODE STRING>. */ /* Invalid service effect specified: <SERVICE EFFECT STRING>. */ /* Invalid condition type specified: <CONDITION TYPE STRING>. */ /* Invalid location specified: <LOCATION STRING>. */ /* Invalid parameter specified. */
INUP	Input, Non-Null Unimplemented Parameter /* No matching attributes to update as requested by user. */
SDBE	Status, internal Data Base Error /* Unable to read file <FILENAME>, Error <ERROR NUMBER> */ /* Unable to update default attribute database. */

EXAMPLES

In the following example, the system default notification code for the near-end service affecting LOS condition type is set to major (MJ).

```
SET-DFLTATTR-OC12:::::MJ,LOS,NEND,,SA;
```

In the following example, the system default notification code for both the non-service affecting and service affecting MAN condition type is set to not alarmed (NA).

```
SET-DFLTATTR-OC12:::::,MAN;
```

RELATED COMMANDS

```
RTRV-ALM-ALL  
RTRV-ALM-OC12  
RTRV-ATTR-OC12  
RTRV-COND-ALL  
RTRV-COND-OC12  
RTRV-DFLTATTR-OC12  
SET-ATTR-OC12
```

RELATED AUTONOMOUS RESPONSES

```
REPT^ALM^OC12  
REPT^EVT^OC12
```

COMMAND CODE: **SET-DFLTATTR-OC3**
COMMAND NAME: **SET DEFAULT ATTRIBUTE OC-3**

PURPOSE

The SET-DFLTATTR-OC3 command changes the system provisioning default OC-3 condition type attributes (the default notification codes for non-service affecting and service affecting OC-3 standing conditions).

An OC-3 port is provisioned with the system default OC-3 condition type attributes, as set by this command, when the OC-3 port is assigned and provisioned via the ENT-OC3 command. After an OC-3 port is provisioned, the OC-3 port's condition type attributes can be set to any (valid) value via the SET-ATTR-OC3 command.

Only the system default OC-3 notification code for the condition type and service effect (identified by NTFNCODE, CONDTYPE, LOCN, and SERVEFF) specified in the command is changed in the system database. System default OC-3 condition type attributes that are not specified retain the value as provided from the factory (refer to Appendix C for factory default notification codes) or as set with a previously executed SET-DFLTATTR-OC3 command. Previously provisioned OC-3 ports are not affected by this command. All subsequently provisioned OC-3 ports assume the condition type attributes entered with the last executed SET-DFLTATTR-OC3 command when the OC-3 port is provisioned (via ENT-OC3).

The OC-3 default condition type database is not affected (changed) by a system restart. The OC-3 default condition type database is replaced by the corresponding database on a backup media during a database restoral (i.e., RESTORE-DB command is executed successfully).

A SET-DFLTATTR-OC3 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

SET-DFLTATTR-OC3 : [TID] :: [CTAG] :: [NTFCNCODE] , [CONDTYPE] , [LOCN] , [DIRN] ,
[TMPER] , [SRVEFF] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
NTFCNCODE	{CR, MJ, MN, NA, NR} Default: <Previously Existing Value> Addressing: None Description: Notification Code, specifies the system default provisioning notification code (that is generated by the system upon the occurrence of the event specified by CONDTYPE). (Refer to Appendix C for a list of factory default notification codes for all condition types.) Values are: <div><div>CR</div><div>MJ</div><div>MN</div><div>NA</div><div>NR</div></div> <div><div>Critical Alarm (reported via REPT^ALM autonomous message).</div><div>Major Alarm (reported via REPT^ALM autonomous message).</div><div>Minor Alarm (reported via REPT^ALM autonomous message).</div><div>Not Alarmed (reported via REPT^EVT autonomous message).</div><div>Not Reported.</div></div>

CONDTYPE	NEAR-END_CONDDTYPE:{ACTLPBK, AIS, DUPTARPENRY, EBER, ESW, FRCDWKSWBK, FRCDWKSWPR, INHPMREPT, L2LCONFAIL, L2SCONFAIL, LDCCDLFL, LOCKOUTOFPR, LOF, LOS, MAN, MANWKSWBK, MANWKSWPR, SDBER, SDCCDLFL, WTR}, FAR-END_CONDDTYPE:{RFI}
Default:	< All applicable condition types listed above >
Addressing:	None
Description:	Condition Type, specifies the condition type for which the specified NTFNCODE is to be set. (Refer to Appendix C for a list of all condition types.) Values are:
ACTLPBK	Active Loopback, the OC-3 port is in loopback. (Near-End only.)
AIS	Alarm Indication Signal, AIS detected. (Near-End only.)
DUPTARPENRY	Duplicate TARP adjacency table. (Near-End only.)
EBER	Excessive Bit Error Rate detected. (Near-End only.)
ESW	Excessive Switching, lockout of automatic revertive (OC-3) switching due to excessive switching. (Near-End only.)
FRCDWKSWBK	Forced Working Switched Back, working facility was manually force switched from protection to the main facility. (Near-End only.)
FRCDWKSWPR	Forced Working Switched to Protection, working facility was manually force switched to the protection facility. (Near-End only.)
INHPMREPT	Inhibit Performance Monitoring Report, PM report capability Inhibited. (Near-End only.)
L2LCONFAIL	Layer 2 Line DCC Connection Failure. (Near-End only.)
L2SCONFAIL	Layer 2 Section DCC Connection Failure. (Near-End only.)
LDCCDLFL	Line DCC Data Link Failure. (Near-End only.)
LOCKOUTOFPR	LockOut Of Protection facility. (Near-End only.)
LOF	Loss Of Frame detected. (Near-End only.)
LOS	Loss Of Signal detected. (Near-End only.)
MAN	Manual removal (logical removal was performed on the facility). (Near-End only.)
MANWKSWBK	Manual Working Switched Back, working facility was manually switched from protection to the main facility. (Near-End only.)
MANWKSWPR	Manual Working Switched to Protection, working facility was manually switched to the protection facility. (Near-End only.)
RFI	Remote Failure Indication detected. (Far-End only.)
SDBER	Signal Degrade Bit Error Rate detected. (Near-End only.)
SDCCDLFL	Section DCC Data Link Failure. (Near-End only.)
WTR	Wait To Restore of protection facility. (Near-End only.)
Restrictions:	SET-DFLTATTR-OC3 is denied if the specified CONDDTYPE value is not supported for the specified LOCN value (e.g., CONDDTYPE of RFI and LOCN of NEND is entered).

LOCN	{FEND, NEND}
Default:	< All location values applicable to the specified condition type >
Addressing:	None
Description:	Location, specifies the location where the condition type is monitored. Values are:
	FEND Far-End, events occurring at a distant network element.
	NEND Near-End, events occurring at the system.
Restrictions:	SET-DFLTATTR-OC3 is denied if the specified LOCN value is not supported for the specified CONDTYPE value (e.g., CONDTYPE of RFI and LOCN of NEND is entered).
DIRN	{NA, RCV, TRMT}
Default:	< All applicable directions >
Addressing:	None
Description:	Direction, specifies the direction of the condition type being monitored. The value for DIRN is verified, but does not affect the function of the SET-DFLTATTR-OC3 command.
	NA Not Applicable
	RCV Receive side
	TRMT Transmit direction
TMPER	{15-MIN, 1-DAY}
Default:	{15-MIN}
Addressing:	None
Description:	Time Period. The value for TMPER is verified, but does not affect the function of the SET-DFLTATTR-OC3 command.
SRVEFF	{NSA, SA}
Default:	< Both service effect values >
Addressing:	None
Description:	Service Effect, specifies the service effect of the condition type for which the specified system default NTFCNCDE is to be set. Values are:
	NSA Non-Service Affecting.
	SA Service Affecting.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent /* Condition type is not consistent with <FACILITY TYPE STRING>. */ /* Location is not consistent with <FACILITY TYPE STRING> <CONDITION TYPE STRING>. */
IDNV	Input, Data Not Valid /* Invalid notification code specified: <NOTIFICATION CODE STRING>. */ /* Invalid service effect specified: <SERVICE EFFECT STRING>. */ /* Invalid condition type specified: <CONDITION TYPE STRING>. */ /* Invalid location specified: <LOCATION STRING>. */ /* Invalid parameter specified. */
INUP	Input, Non-Null Unimplemented Parameter /* No matching attributes to update as requested by user. */
SDBE	Status, internal Data Base Error /* Unable to read file <FILENAME>, Error <ERROR NUMBER> */ /* Unable to update default attribute database. */

EXAMPLES

In the following example, the system default notification code for the near-end service affecting LOS condition type is set to major (MJ).

```
SET-DFLTATTR-OC3 : : : : MJ, LOS, NEND, , , SA;
```

In the following example, the system default notification code for both the non-service affecting and service affecting MAN condition type is set to not alarmed (NA).

```
SET-DFLTATTR-OC3 : : : : , MAN;
```

RELATED COMMANDS

```
RTRV-ALM-ALL  
RTRV-ALM-OC3  
RTRV-ATTR-OC3  
RTRV-COND-ALL  
RTRV-COND-OC3  
RTRV-DFLTATTR-OC3  
SET-ATTR-OC3
```

RELATED AUTONOMOUS RESPONSES

```
REPT^ALM^OC3  
REPT^EVT^OC3
```

COMMAND CODE: **SET-DFLTATTR-STS1**
COMMAND NAME: **SET DEFAULT ATTRIBUTE STS-1**

PURPOSE

The SET-DFLTATTR-STS1 command changes the system provisioning default STS-1 condition type attributes (the default notification codes for non-service affecting and service affecting STS-1 standing conditions).

An STS-1 port is provisioned with the system default STS-1 condition type attributes, as set by this command, when the STS-1 port is assigned and provisioned via the ENT-STS1 command. After an STS-1 port is provisioned, the STS-1 port's condition type attributes can be set to any (valid) value via the SET-ATTR-STS1 command.

Only the system default STS-1 notification code for the condition type and service effect (identified by NTFNCNDE, CONDTYPE, LOCN, and SERVEFF) specified in the command is changed in the system database. System default STS-1 condition type attributes that are not specified retain the value as provided from the factory (refer to Appendix C for factory default notification codes) or as set with a previously executed SET-DFLTATTR-STS1 command. Previously provisioned STS-1 ports are not affected by this command. All subsequently provisioned STS-1 ports assume the condition type attributes entered with the last executed SET-DFLTATTR-STS1 command when the STS-1 port is provisioned (via ENT-STS1).

The STS-1 default condition type database is not affected (changed) by a system restart. The STS-1 default condition type database is replaced by the corresponding database on a backup media during a database restore (i.e., RESTORE-DB command is executed successfully).

A SET-DFLTATTR-STS1 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

```
SET-DFLTATTR-STS1 : [TID] :: [CTAG] :: [NTFCNCDE] , [CONDTYPE] , [LOCN] , [DIRN] ,  
[TMPER] , [SRVEFF] ;
```

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.										
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.										
NTFCNCDE	{CR, MJ, MN, NA, NR} Default: <Previously Existing Value> Addressing: None Description: Notification Code, specifies the system default provisioning notification code (that is generated by the system upon the occurrence of the event specified by CONDTYPE). (Refer to Appendix C for a list of factory default notification codes for all condition types.) Values are: <table><tr><td>CR</td><td>Critical Alarm (reported via REPT^ALM autonomous message).</td></tr><tr><td>MJ</td><td>Major Alarm (reported via REPT^ALM autonomous message).</td></tr><tr><td>MN</td><td>Minor Alarm (reported via REPT^ALM autonomous message).</td></tr><tr><td>NA</td><td>Not Alarmed (reported via REPT^EVT autonomous message).</td></tr><tr><td>NR</td><td>Not Reported.</td></tr></table>	CR	Critical Alarm (reported via REPT^ALM autonomous message).	MJ	Major Alarm (reported via REPT^ALM autonomous message).	MN	Minor Alarm (reported via REPT^ALM autonomous message).	NA	Not Alarmed (reported via REPT^EVT autonomous message).	NR	Not Reported.
CR	Critical Alarm (reported via REPT^ALM autonomous message).										
MJ	Major Alarm (reported via REPT^ALM autonomous message).										
MN	Minor Alarm (reported via REPT^ALM autonomous message).										
NA	Not Alarmed (reported via REPT^EVT autonomous message).										
NR	Not Reported.										

CONDTYPE	NEAR-END_CONDDTYPE:{ACTLPBK, AIS, EBER, FLTESC, FRCDWKS WBK, FRCDWKS WPR, IDLE, INHPMREPT, LOP, MAN, MANWKS WBK, MANWKS WPR, PDI, SDBER, SLMF}, FAR-END_CONDDTYPE:{RFI}
Default:	< All applicable condition types listed above >
Addressing:	None
Description:	Condition Type, specifies the condition type for which the specified NTFCNCDE is to be set. (Refer to Appendix C for a list of all condition types.) Values are:
	ACTLPBK Active Loopback, the STS-1 port is in loop back. (Near-End only.)
	AIS Alarm Indication Signal, AIS detected. (Near-End only.)
	EBER Excessive Bit Error Rate detected. (Near-End only.)
	FLTESC Facility Fault Escalation active. (Near-End only.)
	FRCDWKS WBK Forced Working Switched Back, working facility was manually force switched from protection to the main facility. (Near-End only.)
	FRCDWKS WPR Forced Working Switched to Protection, working facility was manually force switched to the protection facility. (Near-End only.)
	IDLE Idle, incoming idle detected. (Near-End only.)
	INHPMREPT Inhibit Performance Monitoring Report, PM report capability inhibited. (Near-End only.)
	LOP Loss Of Pointer detected. (Near-End only.)
	MAN Manual removal (logical removal was performed on the facility). (Near-End only.)
	MANWKS WBK Manual Working Switched Back, working facility was manually switched from protection to the main facility. (Near-End only.)
	MANWKS WPR Manual Working Switched to Protection, working facility was manually switched to the protection facility. (Near-End only.)
	PDI Incoming PDI signal detected (STS1)
	RFI Remote Failure Indication detected. (Far-End only.)
	SDBER Signal Degrade Bit Error Rate detected. (Near-End only.)
	SLMF Signal Label Match Failure detected. (Near-End only.)
Restrictions:	SET-DFLTATTR-STS1 is denied if the specified CONDDTYPE value is not supported for the specified LOCN value (e.g., CONDDTYPE of AIS and LOCN of FEND is entered).
LOCN	{FEND, NEND}
Default:	< All location values applicable to the specified condition type >
Addressing:	None
Description:	Location, specifies the location where the condition type is monitored. Values are:
	FEND Far-End, events occurring at a distant network element.
	NEND Near-End, events occurring at the system.
Restrictions:	SET-DFLTATTR-STS1 is denied if the specified LOCN value is not supported for the specified CONDDTYPE value (e.g., CONDDTYPE of AIS and LOCN of FEND is entered).

DIRN	{NA, RCV, TRMT}					
	Default: < All applicable directions >					
	Addressing: None					
	Description: Direction, specifies the direction of the condition type being monitored. The value for DIRN is verified, but does not affect the function of the SET-DFLTATTR-STS1 command.					
	<table> <tr> <td>NA</td><td>Not Applicable</td></tr> <tr> <td>RCV</td><td>Receive side</td></tr> <tr> <td>TRMT</td><td>Transmit direction</td></tr> </table>	NA	Not Applicable	RCV	Receive side	TRMT
NA	Not Applicable					
RCV	Receive side					
TRMT	Transmit direction					
TMPER	{15-MIN, 1-DAY}					
	Default: {15-MIN}					
	Addressing: None					
	Description: Time Period. The value for TMPER is verified, but does not affect the function of the SET-DFLTATTR-STS1 command.					
SRVEFF	{NSA, SA}					
	Default: < Both service effect values >					
	Addressing: None					
	Description: Service Effect, specifies the service effect of the condition type for which the specified system default NTFNCODE is to be set. Values are:					
	<table> <tr> <td>NSA</td><td>Non-Service Affecting.</td></tr> <tr> <td>SA</td><td>Service Affecting.</td></tr> </table>	NSA	Non-Service Affecting.	SA	Service Affecting.	
NSA	Non-Service Affecting.					
SA	Service Affecting.					

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent
	/* Condition type is not consistent with <FACILITY TYPE STRING>. */
	/* Location is not consistent with <FACILITY TYPE STRING> <CONDITION TYPE STRING>. */
IDNV	Input, Data Not Valid
	/* Invalid notification code specified: <NOTIFICATION CODE STRING>. */
	/* Invalid service effect specified: <SERVICE EFFECT STRING>. */
	/* Invalid condition type specified: <CONDITION TYPE STRING>. */
	/* Invalid location specified: <LOCATION STRING>. */
	/* Invalid parameter specified. */
INUP	Input, Non-Null Unimplemented Parameter
	/* No matching attributes to update as requested by user. */

SDBE Status, internal Data Base Error
 /* Unable to read file <FILENAME>, Error <ERROR NUMBER> */
 /* Unable to update default attribute database. */

EXAMPLES

In the following example, the system default notification code for the near-end service affecting LOP condition type is set to major (MJ).

```
SET-DFLTATTR-STS1::::MJ,LOP,NEND,,,SA;
```

In the following example, the system default notification code for both the non-service affecting and service affecting RFI condition type is set to not alarmed (NA).

```
SET-DFLTATTR-STS1::::,RFI;
```

RELATED COMMANDS

```
RTRV-ALM-ALL  
RTRV-ALM-STS1  
RTRV-ATTR-STS1  
RTRV-COND-ALL  
RTRV-COND-STS1  
RTRV-DFLTATTR-STS1  
SET-ATTR-STS1
```

RELATED AUTONOMOUS RESPONSES

```
REPT^ALM^STS1  
REPT^EVT^STS1
```

COMMAND CODE: **SET-DFLTATTR-STS3C**
COMMAND NAME: **SET DEFAULT ATTRIBUTE STS-3C**

PURPOSE

The SET-DFLTATTR-STS3C command changes the system provisioning default STS-3C condition type attributes (the default notification codes for non-service affecting and service affecting STS-3C standing conditions).

An STS-3C port is provisioned with the system default STS-3C condition type attributes, as set by this command, when the STS-3C port is assigned and provisioned via the ENT-STS3C command. After an STS-3C port is provisioned, the STS-3C port's condition type attributes can be set to any (valid) value via the SET-ATTR-STS3C command.

Only the system default STS-3C notification code for the condition type and service effect (identified by NTFNCDE, CONDTYPE, LOCN, and SERVEFF) specified in the command is changed in the system database. System default STS-3C condition type attributes that are not specified retain the value as provided from the factory (refer to Appendix C for factory default notification codes) or as set with a previously executed SET-DFLTATTR-STS3C command. Previously provisioned STS-3C ports are not affected by this command. All subsequently provisioned STS-3C ports assume the condition type attributes entered with the last executed SET-DFLTATTR-STS3C command when the STS-3C port is provisioned (via ENT-STS3C).

The STS-3C default condition type database is not affected (changed) by a system restart. The STS-3C default condition type database is replaced by the corresponding database on a backup media during a database restore (i.e., RESTORE-DB command is executed successfully).

A SET-DFLTATTR-STS3C command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

SET-DFLTATTR-STS3C: [TID] :: [CTAG] :: [NTFCNCDE] , [CONDTYPE] , [LOCN] , [DIRN] ,
[TMPER] , [SRVEFF] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
NTFCNCDE	{CR, MJ, MN, NA, NR} Default: <Previously Existing Value> Addressing: None Description: Notification Code, specifies the system default provisioning notification code (that is generated by the system upon the occurrence of the event specified by CONDTYPE). (Refer to Appendix C for a list of factory default notification codes for all condition types.) Values are: <div><div>CR</div><div>MJ</div><div>MN</div><div>NA</div><div>NR</div><div>Critical Alarm (reported via REPT^ALM autonomous message).</div><div>Major Alarm (reported via REPT^ALM autonomous message).</div><div>Minor Alarm (reported via REPT^ALM autonomous message).</div><div>Not Alarmed (reported via REPT^EVT autonomous message).</div><div>Not Reported.</div></div>

CONDTYPE	<p>NEAR-END_CONDDTYPE:{ACTLPBK, AIS, IDLE, INHPMREPT, LOP, MAN, SLMF}, FAR-END_CONDDTYPE:{RFI}</p> <p>Default: < All applicable condition types listed above ></p> <p>Addressing: None</p> <p>Description: Condition Type, specifies the condition type for which the specified NTFCNCDE is to be set. (Refer to Appendix C for a list of all condition types.) Values are:</p> <table> <tr> <td>ACTLPBK</td><td>Active Loopback, the STS-3C port is in loop back. (Near-End only.)</td></tr> <tr> <td>AIS</td><td>Alarm Indication Signal, AIS detected. (Near-End only.)</td></tr> <tr> <td>IDLE</td><td>Idle, incoming idle detected. (Near-End only.)</td></tr> <tr> <td>INHPMREPT</td><td>Inhibit Performance Monitoring Report, PM report capability Inhibited. (Near-End only.)</td></tr> <tr> <td>LOP</td><td>Loss Of Pointer detected. (Near-End only.)</td></tr> <tr> <td>MAN</td><td>Manual removal (logical removal was performed on the facility). (Near-End only.)</td></tr> <tr> <td>RFI</td><td>Remote Failure Indication detected. (Far-End only.)</td></tr> <tr> <td>SLMF</td><td>Signal Label Match Failure detected. (Near-End only.)</td></tr> </table> <p>Restrictions: SET-ATTR-STS3C is denied if the specified CONDDTYPE value is not supported for the specified LOCN value (e.g., CONDDTYPE of AIS and LOCN of FEND is entered).</p>	ACTLPBK	Active Loopback, the STS-3C port is in loop back. (Near-End only.)	AIS	Alarm Indication Signal, AIS detected. (Near-End only.)	IDLE	Idle, incoming idle detected. (Near-End only.)	INHPMREPT	Inhibit Performance Monitoring Report, PM report capability Inhibited. (Near-End only.)	LOP	Loss Of Pointer detected. (Near-End only.)	MAN	Manual removal (logical removal was performed on the facility). (Near-End only.)	RFI	Remote Failure Indication detected. (Far-End only.)	SLMF	Signal Label Match Failure detected. (Near-End only.)
ACTLPBK	Active Loopback, the STS-3C port is in loop back. (Near-End only.)																
AIS	Alarm Indication Signal, AIS detected. (Near-End only.)																
IDLE	Idle, incoming idle detected. (Near-End only.)																
INHPMREPT	Inhibit Performance Monitoring Report, PM report capability Inhibited. (Near-End only.)																
LOP	Loss Of Pointer detected. (Near-End only.)																
MAN	Manual removal (logical removal was performed on the facility). (Near-End only.)																
RFI	Remote Failure Indication detected. (Far-End only.)																
SLMF	Signal Label Match Failure detected. (Near-End only.)																
LOCN	<p>{FEND, NEND}</p> <p>Default: < All location values applicable to the specified condition type ></p> <p>Addressing: None</p> <p>Description: Location, specifies the location where the condition type is monitored. Values are:</p> <table> <tr> <td>FEND</td><td>Far-End, events occurring at a distant network element.</td></tr> <tr> <td>NEND</td><td>Near-End, events occurring at the system.</td></tr> </table> <p>Restrictions: SET-DFLTATTR-STS3C is denied if the specified LOCN value is not supported for the specified CONDDTYPE value (e.g., CONDDTYPE of AIS and LOCN of FEND is entered).</p>	FEND	Far-End, events occurring at a distant network element.	NEND	Near-End, events occurring at the system.												
FEND	Far-End, events occurring at a distant network element.																
NEND	Near-End, events occurring at the system.																
DIRN	<p>{NA, RCV, TRMT}</p> <p>Default: < All applicable directions ></p> <p>Addressing: None</p> <p>Description: Direction, specifies the direction of the condition type being monitored. The value for DIRN is verified, but does not affect the function of the SET-DFLTATTR-STS3C command.</p> <table> <tr> <td>NA</td><td>Not Applicable</td></tr> <tr> <td>RCV</td><td>Receive side</td></tr> <tr> <td>TRMT</td><td>Transmit direction</td></tr> </table>	NA	Not Applicable	RCV	Receive side	TRMT	Transmit direction										
NA	Not Applicable																
RCV	Receive side																
TRMT	Transmit direction																
TMPER	<p>{15-MIN, 1-DAY}</p> <p>Default: {15-MIN}</p> <p>Addressing: None</p> <p>Description: Time Period. The value for TMPER is verified, but does not affect the function of the SET-DFLTATTR-STS3C command.</p>																
SRVEFF	<p>{NSA, SA}</p> <p>Default: < Both service effect values ></p> <p>Addressing: None</p> <p>Description: Service Effect, specifies the service effect of the condition type for which the specified system default NTFCNCDE is to be set. Values are:</p> <table> <tr> <td>NSA</td><td>Non-Service Affecting.</td></tr> <tr> <td>SA</td><td>Service Affecting.</td></tr> </table>	NSA	Non-Service Affecting.	SA	Service Affecting.												
NSA	Non-Service Affecting.																
SA	Service Affecting.																

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent
	/* Condition type is not consistent with <FACILITY TYPE STRING>. */
	/* Location is not consistent with <FACILITY TYPE STRING> <CONDITION TYPE STRING>. */
IDNV	Input, Data Not Valid
	/* Invalid notification code specified: <NOTIFICATION CODE STRING>. */
	/* Invalid service effect specified: <SERVICE EFFECT STRING>. */
	/* Invalid condition type specified: <CONDITION TYPE STRING>. */
	/* Invalid location specified: <LOCATION STRING>. */
	/* Invalid parameter specified. */
INUP	Input, Non-Null Unimplemented Parameter
	/* No matching attributes to update as requested by user. */
ISPC	Input, Syntax PunCtuation
SDBE	Status, internal Data Base Error
	/* Unable to read file <FILENAME>, Error <ERROR NUMBER> */
	/* Unable to update default attribute database. */

EXAMPLES

In the following example, the system default notification code for the near-end service affecting LOP condition type is set to major (MJ).

```
SET-DFLTATTR-STS3C: : : : MJ, LOP, NEND, , , SA;
```

In the following example, the system default notification code for both the non-service affecting and service affecting RFI condition type is set to not alarmed (NA).

```
SET-DFLTATTR-STS3C: : : : , RFI;
```

RELATED COMMANDS

RTRV-ALM-ALL

RTRV-ALM-STS3C

RTRV-ATTR-STS3C

RTRV-COND-ALL

RTRV-COND-STS3C

RTRV-DFLTATTR-STS3C

SET-ATTR-STS3C

RELATED AUTONOMOUS RESPONSES

REPT^ALM^STS3C

REPT^EVT^STS3C

COMMAND CODE: **SET-DFLTATTR-T1**
COMMAND NAME: **SET DEFAULT ATTRIBUTE T1**

PURPOSE

The SET-DFLTATTR-T1 command changes the system provisioning default DS1 condition type attributes (the default notification codes for non-service affecting and service affecting DS1 standing conditions).

A DS1 port is provisioned with the system default DS1 condition type attributes, as set by this command, when the DS1 port is assigned and provisioned via the ENT-T1 command. After a DS1 port is provisioned, the DS1 port's condition type attributes can be set to any (valid) value via the SET-ATTR-T1 command.

Only the system default DS1 notification code for the condition type and service effect (identified by NTFNCNDE, CONDTYPE, LOCN, and SERVEFF) specified in the command is changed in the system database. System default DS1 condition type attributes that are not specified retain the value as provided from the factory (refer to Appendix C for factory default notification codes) or as set with a previously executed SET-DFLTATTR-T1 command. Previously provisioned DS1 ports are not affected by this command. All subsequently provisioned DS1 ports assume the condition type attributes entered with the last executed SET-DFLTATTR-T1 command when the DS1 port is provisioned (via ENT-T1).

The DS1 default condition type database is not affected (changed) by a system restart. The DS1 default condition type database is replaced by the corresponding database on a backup media during a database restoral (i.e., RESTORE-DB command is executed successfully).

A SET-DFLTATTR-T1 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

SET-DFLTATTR-T1 : [TID] :: [CTAG] :: [NTFCNCNDE] , [CONDTYPE] , [LOCN] , [DIRN] ,
[TMPPER] , [SRVEFF] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
NTFCNCNDE	{CR, MJ, MN, NA, NR} Default: <Previously Existing Value> Addressing: None Description: Notification Code, specifies the system default provisioning notification code (that is generated by the system upon the occurrence of the event specified by CONDTYPE). (Refer to Appendix C for a list of factory default notification codes for all condition types.) Values are: <div><div>CR</div><div>MJ</div><div>MN</div><div>NA</div><div>NR</div></div> <div><div>Critical Alarm (reported via REPT^ALM autonomous message).</div><div>Major Alarm (reported via REPT^ALM autonomous message).</div><div>Minor Alarm (reported via REPT^ALM autonomous message).</div><div>Not Alarmed (reported via REPT^EVT autonomous message).</div><div>Not Reported.</div></div>

CONDTYPE	DS1_NEAR-END_CONDDTYPE:{ACTLPBK, AIS, AIS-CI, ALWCBLPBK, DS1ISD, EOC, INHPMREPT, LOF, LOS, MAN, RCVCLPBK, ROLLMON, XMTCLPBK}, DS1_FAR-END_CONDDTYPE:{RAI, RAI-CI}, TMG_NEAR-END_CONDDTYPE:{AIS, AIS-C, LOF, LOS, SLTMSIG, SYNCPRI, SYNCSEC, SYNCSTATQUAL}
Default:	< All applicable condition types listed above >
Addressing:	None
Description:	Condition Type, specifies the condition type for which the specified NTFCNCDE is to be set. (Refer to Appendix C for a list of all condition types.) Values are:
ACTLPBK	Active Loopback, the DS1 port is in loop back. (DS1 Near-End only.)
AIS	Alarm Indication Signal, AIS detected. (DS1 or TMG Near-End only.)
AIS-CI	Alarm Indication Signal for Customer Installation, Incoming AIS detected. (DS1 Near-End)
ALWCBLPBK	Allow C-Bit Loopback. (DS1 Near-End only.)
DS1ISD	DS1 Idle Signal Detected, Incoming. (DS1 Near-End.)
EOC	Embedded Operations Channel, EOC failure detected. (DS1 Near-End only.)
INHPMREPT	Inhibit Performance Monitoring Report, PM report capability inhibited. (DS1 Near-End only.)
LOF	Loss Of Frame detected. (DS1 or TMG Near-End only.)
LOS	Loss Of Signal detected. (DS1 or TMG Near-End only.)
MAN	Manual removal (logical removal was performed on the facility). (DS1 Near-End only.)
RAI	Remote Alarm Indication detected. (DS1 Far-End only.)
RAI-CI	Remote Alarm Indication for Customer Installation detected. (DS1 Far-End.)
RCVCLPBK	Receive (DS1) C-Bit Loopback. (DS1 Near-End only.)
ROLLMON	Roll Monitoring, receive-side RTO port being monitored for valid signal. (DS1 Near-End only.)
SLTMSIG	Slipping Timing Reference Signal detected. (TMG Near-End only.)
SYNCPRI	Primary Reference Synchronization failure. (TMG Near-End only.)
SYNCSEC	Secondary Reference Synchronization failure. (TMG Near-End only.)
SYNCSTATQUAL	Synchronization Status Quality. (TMG Near-End only.)
XMTCLPBK	Transmit (DS1) C-Bit Loopback. (DS1 Near-End only.)
Restrictions:	SET-DFLTATTR-T1 is denied if the specified CONDDTYPE value is not supported for the specified LOCN value (e.g., CONDDTYPE of RAI and LOCN of NEND is entered). SET-DFLTATTR-T1 is denied if the DS1 CI/NI Trouble Sectionalization Premium Feature Option (PFO) is not enabled and an input value of AIS-CI, DS1ISD or RAI-CI is entered.

LOCN	{FEND, NEND}	
	Default:	< All location values applicable to the specified condition type >
	Addressing:	None
	Description:	Location, specifies the location where the condition type is monitored. Values are:
	FEND	Far-End, events occurring at a distant network element.
DIRN	{NA, RCV, TRMT}	
	Default:	< All applicable directions >
	Addressing:	None
	Description:	Direction, specifies the direction of the condition type being monitored. The value for DIRN is verified, but does not affect the function of the SET-DFLTATTR-T1 command.
	NA	Not Applicable
TMPER	{15-MIN, 1-DAY}	
	Default:	{15-MIN}
	Addressing:	None
	Description:	Time Period. The value for TMPER is verified, but does not affect the function of the SET-DFLTATTR-T1 command.
SRVEFF	{NSA, SA}	
	Default:	< Both service effect values >
	Addressing:	None
	Description:	Service Effect, specifies the service effect of the condition type for which the specified system default NTFCNCDE is to be set. Values are:
	NSA	Non-Service Affecting.
	SA	Service Affecting.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

EFON	Equipment, Feature Option Not provided
IDNC	Input, Data Not Consistent /* Condition type is not consistent with <FACILITY TYPE STRING>. */ /* Location is not consistent with <FACILITY TYPE STRING> <CONDITION TYPE STRING>. */
IDNV	Input, Data Not Valid /* Invalid notification code specified: <NOTIFICATION CODE STRING>. */ /* Invalid service effect specified: <SERVICE EFFECT STRING>. */ /* Invalid condition type specified: <CONDITION TYPE STRING>. */ /* Invalid location specified: <LOCATION STRING>. */ /* Invalid parameter specified. */
INUP	Input, Non-Null Unimplemented Parameter /* No matching attributes to update as requested by user. */
SDBE	Status, internal Data Base Error /* Unable to read file <FILENAME>, Error <ERROR NUMBER> */ /* Unable to update default attribute database. */

EXAMPLES

In the following example, the system default notification code for the service affecting MAN condition type is set to minor (MN).

```
SET-DFLTATTR-T1::::MN,MAN,NEND,,SA;
```

In the following example, the system default notification code for both the non-service affecting and service affecting EOC condition type is set to not alarmed (NA).

```
SET-DFLTATTR-T1::::,EOC;
```

RELATED COMMANDS

```
RTRV-ALM-ALL  
RTRV-ALM-T1  
RTRV-ATTR-T1  
RTRV-COND-ALL  
RTRV-COND-T1  
RTRV-DFLTATTR-T1  
RTRV-PFO  
SET-ATTR-T1
```

RELATED AUTONOMOUS RESPONSES

```
REPT^ALM^T1  
REPT^EVT^T1
```

COMMAND CODE: **SET-DFLTATTR-T3**
COMMAND NAME: **SET DEFAULT ATTRIBUTE T3**

PURPOSE

The SET-DFLTATTR-T3 command changes the system provisioning default DS3 condition type attributes (the default notification codes for non-service affecting and service affecting DS3 standing conditions).

A DS3 port is provisioned with the system default DS3 condition type attributes, as set by this command, when the DS3 port is assigned and provisioned via the ENT-T3 command. After a DS3 port is provisioned, the DS3 port's condition type attributes can be set to any (valid) value via the SET-ATTR-T3 command.

Only the system default DS3 notification code for the condition type and service effect (identified by NTFNCNDE, CONDTYPE, LOCN, and SERVEFF) specified in the command is changed in the system database. System default DS3 condition type attributes that are not specified retain the value as provided from the factory (refer to Appendix C for factory default notification codes) or as set with a previously executed SET-DFLTATTR-T3 command. Previously provisioned DS3 ports are not affected by this command. All subsequently provisioned DS3 ports assume the condition type attributes entered with the last executed SET-DFLTATTR-T3 command when the DS3 port is provisioned (via ENT-T3).

The DS3 default condition type database is not affected (changed) by a system restart. The DS3 default condition type database is replaced by the corresponding database on a backup media during a database restoral (i.e., RESTORE-DB command is executed successfully).

A SET-DFLTATTR-T3 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

SET-DFLTATTR-T3 : [TID] :: [CTAG] :: [NTFCNCDE] , [CONDTYPE] , [LOCN] , [DIRN] ,
[TMPER] , [SRVEFF] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
NTFCNCDE	{CR, MJ, MN, NA, NR} Default: <Previously Existing Value> Addressing: None Description: Notification Code, specifies the system default provisioning notification code (that is generated by the system upon the occurrence of the event specified by CONDTYPE). (Refer to Appendix C for a list of factory default notification codes for all condition types.) Values are: <div><div>CR</div><div>MJ</div><div>MN</div><div>NA</div><div>NR</div></div> <div><div>Critical Alarm (reported via REPT^ALM autonomous message).</div><div>Major Alarm (reported via REPT^ALM autonomous message).</div><div>Minor Alarm (reported via REPT^ALM autonomous message).</div><div>Not Alarmed (reported via REPT^EVT autonomous message).</div><div>Not Reported.</div></div>

CONDTYPE	<p>NEAR-END_CONDDTYPE:{1TO6LOF, 7LOF, ACTLPBK, AICMIS, AIS, FLTESC, INHPMREPT, ISD, LOF, LOS, MAN}, FAR-END_CONDDTYPE:{AIS, DS2YEL, FEACEQPT, ISD, LOF, LOS, RAI}</p> <p>Default: < All applicable condition types listed above > Addressing: None Description: Condition Type, specifies the condition type for which the specified NTFCNCDE is to be set. (Refer to Appendix C for a list of all condition types.) Values are:</p> <table> <tr> <td>1TO6LOF</td><td>One To Six Loss Of Frame, Incoming LOF detected on 1 to 6 DS2s embedded in the DS3. (Near-End only.)</td></tr> <tr> <td>7LOF</td><td>Seven Loss Of Frame, Incoming LOF detected on all 7 DS2s embedded in the DS3. (Near-End only.)</td></tr> <tr> <td>ACTLPBK</td><td>Active Loopback, the DS3 port is in loop back. (Near-End only.)</td></tr> <tr> <td>AICMIS</td><td>Application Identification Channel Mismatch, AIC mismatch detected. (Near-End only.)</td></tr> <tr> <td>AIS</td><td>Alarm Indication Signal, AIS detected. (Near-End or Far-End.)</td></tr> <tr> <td>DS2YEL</td><td>DS2 Yellow (Remote Alarm Indication) detected on one of the DS2s embedded in the DS3. (Far-End only.)</td></tr> <tr> <td>FEACEQPT</td><td>Far-End Alarm & Control (FEAC) Equipment detected. (Far-End only.)</td></tr> <tr> <td>FLTESC</td><td>Facility Fault Escalation active. (Near-End only.)</td></tr> <tr> <td>INHPMREPT</td><td>Inhibit Performance Monitoring Report, PM report capability inhibited. (Near-End only.)</td></tr> <tr> <td>ISD</td><td>Idle Signal Detected. (Near-End or Far-End.)</td></tr> <tr> <td>LOF</td><td>Loss Of Frame detected. (Near-End or Far-End.)</td></tr> <tr> <td>LOS</td><td>Loss Of Signal detected. (Near-End or Far-End.)</td></tr> <tr> <td>MAN</td><td>Manual removal (logical removal was performed on the facility. (Near-End only.)</td></tr> <tr> <td>RAI</td><td>Remote Alarm Indication detected. (Far-End only.)</td></tr> </table> <p>Restrictions: SET-DFLTATTR-T3 is denied if the specified CONDDTYPE value is not supported for the specified LOCN value (e.g., CONDDTYPE of 7LOF and LOCN of FEND is entered).</p>	1TO6LOF	One To Six Loss Of Frame, Incoming LOF detected on 1 to 6 DS2s embedded in the DS3. (Near-End only.)	7LOF	Seven Loss Of Frame, Incoming LOF detected on all 7 DS2s embedded in the DS3. (Near-End only.)	ACTLPBK	Active Loopback, the DS3 port is in loop back. (Near-End only.)	AICMIS	Application Identification Channel Mismatch, AIC mismatch detected. (Near-End only.)	AIS	Alarm Indication Signal, AIS detected. (Near-End or Far-End.)	DS2YEL	DS2 Yellow (Remote Alarm Indication) detected on one of the DS2s embedded in the DS3. (Far-End only.)	FEACEQPT	Far-End Alarm & Control (FEAC) Equipment detected. (Far-End only.)	FLTESC	Facility Fault Escalation active. (Near-End only.)	INHPMREPT	Inhibit Performance Monitoring Report, PM report capability inhibited. (Near-End only.)	ISD	Idle Signal Detected. (Near-End or Far-End.)	LOF	Loss Of Frame detected. (Near-End or Far-End.)	LOS	Loss Of Signal detected. (Near-End or Far-End.)	MAN	Manual removal (logical removal was performed on the facility. (Near-End only.)	RAI	Remote Alarm Indication detected. (Far-End only.)
1TO6LOF	One To Six Loss Of Frame, Incoming LOF detected on 1 to 6 DS2s embedded in the DS3. (Near-End only.)																												
7LOF	Seven Loss Of Frame, Incoming LOF detected on all 7 DS2s embedded in the DS3. (Near-End only.)																												
ACTLPBK	Active Loopback, the DS3 port is in loop back. (Near-End only.)																												
AICMIS	Application Identification Channel Mismatch, AIC mismatch detected. (Near-End only.)																												
AIS	Alarm Indication Signal, AIS detected. (Near-End or Far-End.)																												
DS2YEL	DS2 Yellow (Remote Alarm Indication) detected on one of the DS2s embedded in the DS3. (Far-End only.)																												
FEACEQPT	Far-End Alarm & Control (FEAC) Equipment detected. (Far-End only.)																												
FLTESC	Facility Fault Escalation active. (Near-End only.)																												
INHPMREPT	Inhibit Performance Monitoring Report, PM report capability inhibited. (Near-End only.)																												
ISD	Idle Signal Detected. (Near-End or Far-End.)																												
LOF	Loss Of Frame detected. (Near-End or Far-End.)																												
LOS	Loss Of Signal detected. (Near-End or Far-End.)																												
MAN	Manual removal (logical removal was performed on the facility. (Near-End only.)																												
RAI	Remote Alarm Indication detected. (Far-End only.)																												
LOCN	<p>{FEND, NEND}</p> <p>Default: < All location values applicable to the specified condition type > Addressing: None Description: Location, specifies the location where the condition type is monitored. Values are:</p> <table> <tr> <td>FEND</td><td>Far-End, events occurring at a distant network element.</td></tr> <tr> <td>NEND</td><td>Near-End, events occurring at the system.</td></tr> </table> <p>Restrictions: SET-DFLTATTR-T3 is denied if the specified LOCN value is not supported for the specified CONDDTYPE value (e.g., CONDDTYPE of 7LOF and LOCN of FEND is entered).</p>	FEND	Far-End, events occurring at a distant network element.	NEND	Near-End, events occurring at the system.																								
FEND	Far-End, events occurring at a distant network element.																												
NEND	Near-End, events occurring at the system.																												
DIRN	<p>{NA, RCV, TRMT}</p> <p>Default: < All applicable directions > Addressing: None Description: Direction, specifies the direction of the condition type being monitored. The value for DIRN is verified, but does not affect the function of the SET-DFLTATTR-T3 command.</p> <table> <tr> <td>NA</td><td>Not Applicable</td></tr> <tr> <td>RCV</td><td>Receive side</td></tr> <tr> <td>TRMT</td><td>Transmit direction</td></tr> </table>	NA	Not Applicable	RCV	Receive side	TRMT	Transmit direction																						
NA	Not Applicable																												
RCV	Receive side																												
TRMT	Transmit direction																												

TMPER	{15-MIN, 1-DAY}	
	Default:	{15-MIN}
	Addressing:	None
	Description:	Time Period. The value for TMPER is verified, but does not affect the function of the SET-DFLTATTR-T3 command.
SRVEFF	{NSA, SA}	
	Default:	< Both service effect values >
	Addressing:	None
	Description:	Service Effect, specifies the service effect of the condition type for which the specified system default NTFCNCDE is to be set. Values are:
	NSA	Non-Service Affecting.
	SA	Service Affecting.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent
	/* Condition type is not consistent with <FACILITY TYPE STRING>. */
	/* Location is not consistent with <FACILITY TYPE STRING> <CONDITION TYPE STRING>. */
IDNV	Input, Data Not Valid
	/* Invalid notification code specified: <NOTIFICATION CODE STRING>. */
	/* Invalid service effect specified: <SERVICE EFFECT STRING>. */
	/* Invalid condition type specified: <CONDITION TYPE STRING>. */
	/* Invalid location specified: <LOCATION STRING>. */
	/* Invalid parameter specified. */
INUP	Input, Non-Null Unimplemented Parameter
	/* No matching attributes to update as requested by user. */
SDBE	Status, internal Data Base Error
	/* Unable to read file <FILENAME>, Error <ERROR NUMBER> */
	/* Unable to update default attribute database. */

EXAMPLES

In the following example, the system default notification code for the near-end service affecting LOS condition type is set to major (MJ).

```
SET-DFLTATTR-T3 : : : : MJ, LOS, NEND, , , SA;
```

In the following example, the system default notification code for both the non-service affecting and service affecting DS2YEL condition type is set to not alarmed (NA).

```
SET-DFLTATTR-T3::::,DS2YEL;
```

RELATED COMMANDS

```
RTRV-ALM-ALL
```

```
RTRV-ALM-T3
```

```
RTRV-ATTR-T3
```

```
RTRV-COND-ALL
```

```
RTRV-COND-T3
```

```
RTRV-DFLTATTR-T3
```

```
SET-ATTR-T3
```

RELATED AUTONOMOUS RESPONSES

```
REPT^ALM^T3
```

```
REPT^EVT^T3
```

COMMAND CODE: **SET-DFLTATTR-VT1**
COMMAND NAME: **SET DEFAULT ATTRIBUTE VT1**

PURPOSE

The SET-DFLTATTR-VT1 command changes the system provisioning default VT1.5 condition type attributes (the default notification codes for non-service affecting and service affecting VT1.5 standing conditions).

A VT1.5 port is provisioned with the system default VT1.5 condition type attributes, as set by this command, when the VT1.5 port is assigned and provisioned via the ENT-VT1 command. After a VT1.5 port is provisioned, the VT1.5 port's condition type attributes can be set to any (valid) value via the SET-ATTR-VT1 command.

Only the system default VT1.5 notification code for the condition type and service effect (identified by NTFNCNDE, CONDTYPE, LOCN, and SERVEFF) specified in the command is changed in the system database. System default VT1.5 condition type attributes that are not specified retain the value as provided from the factory (refer to Appendix C for factory default notification codes) or as set with a previously executed SET-DFLTATTR-VT1 command. Previously provisioned VT1.5 ports are not affected by this command. All subsequently provisioned VT1.5 ports assume the condition type attributes entered with the last executed SET-DFLTATTR-VT1 command when the VT1.5 port is provisioned (via ENT-VT1).

The VT1.5 default condition type database is not affected (changed) by a system restart. The VT1.5 default condition type database is replaced by the corresponding database on a backup media during a database restore (i.e., RESTORE-DB command is executed successfully).

A SET-DFLTATTR-VT1 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

SET-DFLTATTR-VT1 : [TID] : : [CTAG] : : [NTFCNCDE] , [CONDTYPE] , [LOCN] , [DIRN] ,
[TMPPER] , [SRVEFF] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
NTFCNCDE	{CR, MJ, MN, NA, NR} Default: <Previously Existing Value> Addressing: None Description: Notification Code, specifies the system default provisioning notification code (that is generated by the system upon the occurrence of the event specified by CONDTYPE). (Refer to Appendix C for a list of factory default notification codes for all condition types.) Values are: <div><div>CR</div><div>MJ</div><div>MN</div><div>NA</div><div>NR</div></div> <div><div>Critical Alarm (reported via REPT^ALM autonomous message).</div><div>Major Alarm (reported via REPT^ALM autonomous message).</div><div>Minor Alarm (reported via REPT^ALM autonomous message).</div><div>Not Alarmed (reported via REPT^EVT autonomous message).</div><div>Not Reported.</div></div>

CONDTYPE	NEAR-END_CONDDTYPE:{ACTLPBK, AIS, EBER, FLTESC, FRCDWKSWBK, FRCDWKSWPR, IDLE, INHPMREPT, LOP, MAN, MANWKSWBK, MANWKSWPR, ROLLMON, SDBER, SLMF}, FAR-END_CONDDTYPE:{RFI}	
	Default:	< All applicable condition types listed above >
	Addressing:	None
	Description:	Condition Type, specifies the condition type for which the specified NTFNCNDE is to be set. (Refer to Appendix C for a list of all condition types.) Values are:
	ACTLPBK	Active Loopback, the VT1.5 port is in loop back. (Near-End only.)
	AIS	Alarm Indication Signal, AIS detected. (Near-End only.)
	EBER	Excessive Bit Error Rate detected. (Near-End only.)
	FLTESC	Facility Fault Escalation active. (Near-End only.)
	FRCDWKSWBK	Forced Working Switched Back, working facility was manually force switched from protection to the main facility. (Near-End only.)
	FRCDWKSWPR	Forced Working Switched to Protection, working facility was manually force switched to the protection facility. (Near-End only.)
	IDLE	Idle, incoming idle detected. (Near-End only.)
	INHPMREPT	Inhibit Performance Monitoring Report, PM report capability inhibited. (Near-End only.)
	LOP	Loss Of Pointer detected. (Near-End only.)
	MAN	Manual removal (logical removal was performed on the facility). (Near-End only.)
	MANWKSWBK	Manual Working Switched Back, working facility was manually switched from protection to the main facility. (Near-End only.)
	MANWKSWPR	Manual Working Switched to Protection, working facility was manually switched to the protection facility. (Near-End only.)
	RFI	Remote Failure Indication detected. (Far-End only.)
	ROLLMON	Roll Monitoring, receive-side RTO port being monitored for valid signal. (Near-End only.)
	SDBER	Signal Degrade Bit Error Rate detected. (Near-End only.)
	SLMF	Signal Label Match Failure detected. (Near-End only.)
	Restrictions:	SET-DFLTATTR-VT1 is denied if the specified CONDDTYPE value is not supported for the specified LOCN value (e.g., CONDDTYPE of AIS and LOCN of FEND is entered).
LOCN	{FEND, NEND}	
	Default:	< All location values applicable to the specified condition type >
	Addressing:	None
	Description:	Location, specifies the location where the condition type is monitored. Values are:
	FEND	Far-End, events occurring at a distant network element.
	NEND	Near-End, events occurring at the system.
	Restrictions:	SET-DFLTATTR-VT1 is denied if the specified LOCN value is not supported for the specified CONDDTYPE value (e.g., CONDDTYPE of AIS and LOCN of FEND is entered).

DIRN	{NA, RCV, TRMT}					
	Default: < All applicable directions >					
	Addressing: None					
	Description: Direction, specifies the direction of the condition type being monitored. The value for DIRN is verified, but does not affect the function of the SET-DFLTATTR-VT1 command.					
	<table> <tr> <td>NA</td><td>Not Applicable</td></tr> <tr> <td>RCV</td><td>Receive side</td></tr> <tr> <td>TRMT</td><td>Transmit direction</td></tr> </table>	NA	Not Applicable	RCV	Receive side	TRMT
NA	Not Applicable					
RCV	Receive side					
TRMT	Transmit direction					
TMPER	{15-MIN, 1-DAY}					
	Default: {15-MIN}					
	Addressing: None					
	Description: Time Period. The value for TMPER is verified, but does not affect the function of the SET-DFLTATTR-VT1 command.					
SRVEFF	{NSA, SA}					
	Default: < Both service effect values >					
	Addressing: None					
	Description: Service Effect, specifies the service effect of the condition type for which the specified system default NTFNCODE is to be set. Values are:					
	<table> <tr> <td>NSA</td><td>Non-Service Affecting.</td></tr> <tr> <td>SA</td><td>Service Affecting.</td></tr> </table>	NSA	Non-Service Affecting.	SA	Service Affecting.	
NSA	Non-Service Affecting.					
SA	Service Affecting.					

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent
	/* Condition type is not consistent with <FACILITY TYPE STRING>. */
	/* Location is not consistent with <FACILITY TYPE STRING> <CONDITION TYPE STRING>. */
IDNV	Input, Data Not Valid
	/* Invalid notification code specified: <NOTIFICATION CODE STRING>. */
	/* Invalid service effect specified: <SERVICE EFFECT STRING>. */
	/* Invalid condition type specified: <CONDITION TYPE STRING>. */
	/* Invalid location specified: <LOCATION STRING>. */
	/* Invalid parameter specified. */
INUP	Input, Non-Null Unimplemented Parameter
	/* No matching attributes to update as requested by user. */

SDBE Status, internal Data Base Error
 /* Unable to read file <FILENAME>, Error <ERROR NUMBER> */
 /* Unable to update default attribute database. */

EXAMPLES

In the following example, the system default notification code for the near-end service affecting LOP condition type is set to major (MJ).

```
SET-DFLTATTR-VT1::::MJ,LOP,NEND,,SA;
```

In the following example, the system default notification code for both the non-service affecting and service affecting RFI condition type is set to not alarmed (NA).

```
SET-DFLTATTR-VT1::::,RFI;
```

RELATED COMMANDS

```
RTRV-ALM-ALL  
RTRV-ALM-VT1  
RTRV-ATTR-VT1  
RTRV-COND-ALL  
RTRV-COND-VT1  
RTRV-DFLTATTR-VT1  
SET-ATTR-VT1
```

RELATED AUTONOMOUS RESPONSES

```
REPT^ALM^VT1  
REPT^EVT^VT1
```

COMMAND CODE: **SET-DFLTPMREPT-EC1**
COMMAND NAME: **SET DEFAULT PERFORMANCE
MONITORING REPORT EC1**

PURPOSE

The SET-DFLTPMREPT-EC1 command sets the current default provisioning pertaining to scheduled Performance Monitoring (PM) reporting (e.g., reporting enabled, the discriminating threshold level of reported PM parameters, etc.) of EC1 PM parameters.

A SET-DFLTPMREPT-EC1 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

SET-DFLTPMREPT-EC1 : [TID] :: [CTAG] :: [NUMREPT] , [MONLEV] , [TMPER] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
NUMREPT	{0-254, <NoVal>} Default: {<NoVal>} Addressing: None Description: Number of Reports, specifies the number of PM report messages that are generated. Values are: 0 Zero, scheduled PM reporting is disabled. 1-254 1 to 254 reports are to be generated. When the CPU is in an IS state and the system has successfully completed a restart, NUMREPT is decremented even if the schedule has been inhibited by the INH-PMREPT-EC1 command. <NoVal> No Value (Null), PM report messages continue to be generated until disabled via a NUMREPT value of 0.
MONLEV	{LEVEL-DIRECTION:{0-4294967295} - {DN, UP} } Default: {1-UP} Addressing: None Description: Monitoring Level, identifies the discriminating level of PM parameter event counts that are reported in PM messages for monitored PM parameters. The format of MONLEV is <LEVEL> - <DIRECTION>. Values are: {0-4294967295}-DN Only PM data for monitored PM parameters that are less-than or equal-to (<) the value of <LEVEL> are reported. {0-4294967295}-UP Only PM data for monitored PM parameters that are greater-than or equal-to (>) the value of <LEVEL> are reported.

TMPER	{15-MIN, 1-DAY}
	Default: {15-MIN}
	Addressing: None
	Description: Time Period, identifies the accumulation time period of the PM parameters reported in the PM report messages. Values are:
	15-MIN 15-Minute PM collection registers are reported.
	1-DAY 1-Day (24 hour) PM collection registers are reported.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid
SROF	Status, Requested Operation Failed
	/* Unable to determine facility type. */

EXAMPLES

In the following example, the current default provisioning pertaining to 15-minute scheduled Performance Monitoring (PM) reporting of EC1 PM parameters is set.

```
SET-DFLT-PMREPT-EC1:::250,16-UP,15-MIN;
```

RELATED COMMANDS

```

ALW-PMREPT-EC1
INH-PMREPT-EC1
RTRV-DFLT-PMREPT-EC1
RTRV-PMSCHED-ALL
RTRV-PMSCHED-EC1
SCHED-PMREPT-ALL
SCHED-PMREPT-EC1
```

COMMAND CODE: **SET-DFLTPMREPT-F3**
COMMAND NAME: **SET DEFAULT PERFORMANCE
MONITORING REPORT F3**

PURPOSE

The SET-DFLTPMREPT-F3 command sets the current default provisioning pertaining to scheduled Performance Monitoring (PM) reporting (e.g., reporting enabled, the discriminating threshold level of reported PM parameters, etc.) of F3 PM parameters.

A SET-DFLTPMREPT-F3 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

SET-DFLTPMREPT-F3 : [TID] :: [CTAG] :: [NUMREPT] , [MONLEV] , [TMPER] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
NUMREPT	{0-254, <NoVal>} Default: {<NoVal>} Addressing: None Description: Number of Reports, specifies the number of PM report messages that are generated. Values are: 0 Zero, scheduled PM reporting is disabled. 1-254 1 to 254 reports are to be generated. When the CPU is in an IS state and the system has successfully completed a restart, NUMREPT is decremented even if the schedule has been inhibited by the INH-PMREPT-F3 command. <NoVal> No Value (Null), PM report messages continue to be generated until disabled via a NUMREPT value of 0.
MONLEV	{LEVEL-DIRECTION:{0-4294967295} - {DN, UP} } Default: {1-UP} Addressing: None Description: Monitoring Level, identifies the discriminating level of PM parameter event counts that are reported in PM messages for monitored PM parameters. The format of MONLEV is <LEVEL> - <DIRECTION>. Values are: {0-4294967295}-DN Only PM data for monitored PM parameters that are less-than or equal-to (<) the value of <LEVEL> are reported. {0-4294967295}-UP Only PM data for monitored PM parameters that are greater-than or equal-to (>) the value of <LEVEL> are reported.

TMPER	{15-MIN, 1-DAY}
	Default: {15-MIN}
	Addressing: None
	Description: Time Period, identifies the accumulation time period of the PM parameters reported in the PM report messages. Values are:
	15-MIN 15-Minute PM collection registers are reported.
	1-DAY 1-Day (24 hour) PM collection registers are reported.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid
SROF	Status, Requested Operation Failed
	/* Unable to determine facility type. */

EXAMPLES

In the following example, the current default provisioning pertaining to 15-minute scheduled Performance Monitoring (PM) reporting of F3 PM parameters is set.

```
SET-DFLTPMREPT-F3:::250,16-UP,15-MIN;
```

RELATED COMMANDS

```

ALW-PMREPT-F3
INH-PMREPT-F3
RTRV-DFLTPMREPT-F3
RTRV-PMSCHED-ALL
RTRV-PMSCHED-F3
SCHED-PMREPT-ALL
SCHED-PMREPT-F3
```

COMMAND CODE: **SET-DFLTPMREPT-OC12**
COMMAND NAME: **SET DEFAULT PERFORMANCE
MONITORING REPORT OC-12**

PURPOSE

The SET-DFLTPMREPT-OC12 command sets the current default provisioning pertaining to scheduled Performance Monitoring (PM) reporting (e.g., reporting enabled, the discriminating threshold level of reported PM parameters, etc.) of OC-12 PM parameters.

A SET-DFLTPMREPT-OC12 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

SET-DFLTPMREPT-OC12 : [TID] :: [CTAG] :: [NUMREPT] , [MONLEV] , [TMPER] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
NUMREPT	{0-254, <NoVal>} Default: {<NoVal>} Addressing: None Description: Number of Reports, specifies the number of PM report messages that are generated. Values are: 0 Zero, scheduled PM reporting is disabled. 1-254 1 to 254 reports are to be generated. When the CPU is in an IS state and the system has successfully completed a restart, NUMREPT is decremented even if the schedule has been inhibited by the INH-PMREPT-OC12 command. <NoVal> No Value (Null), PM report messages continue to be generated until disabled via a NUMREPT value of 0.
MONLEV	{[LEVEL-DIRECTION:{0-4294967295} - {DN, UP} } Default: {1-UP} Addressing: None Description: Monitoring Level, identifies the discriminating level of PM parameter event counts that are reported in PM messages for monitored PM parameters. The format of MONLEV is <LEVEL> - <DIRECTION>. Values are: {0-4294967295}-DN Only PM data for monitored PM parameters that are less-than or equal-to (<) the value of <LEVEL> are reported. {0-4294967295}-UP Only PM data for monitored PM parameters that are greater-than or equal-to (>) the value of <LEVEL> are reported.

TMPER	{15-MIN, 1-DAY}
	Default: {15-MIN}
	Addressing: None
	Description: Time Period, identifies the accumulation time period of the PM parameters reported in the PM report messages. Values are:
	15-MIN 15-Minute PM collection registers are reported.
	1-DAY 1-Day (24 hour) PM collection registers are reported.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid
SROF	Status, Requested Operation Failed
	/* Unable to determine facility type. */

EXAMPLES

In the following example, the current default provisioning pertaining to 15-minute scheduled Performance Monitoring (PM) reporting of OC-12 PM parameters is set.

```
SET-DFLTPMREPT-OC12:::250,16-UP,15-MIN;
```

RELATED COMMANDS

```

ALW-PMREPT-OC12
INH-PMREPT-OC12
RTRV-DFLTPMREPT-OC12
RTRV-PMSCHED-ALL
RTRV-PMSCHED-OC12
SCHED-PMREPT-ALL
SCHED-PMREPT-OC12
```


COMMAND CODE: **SET-DFLTPMREPT-OC3**
COMMAND NAME: **SET DEFAULT PERFORMANCE
MONITORING REPORT OC-3**

PURPOSE

The SET-DFLTPMREPT-OC3 command sets the current default provisioning pertaining to scheduled Performance Monitoring (PM) reporting (e.g., reporting enabled, the discriminating threshold level of reported PM parameters, etc.) of OC-3 PM parameters.

A SET-DFLTPMREPT-OC3 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

SET-DFLTPMREPT-OC3 : [TID] :: [CTAG] :: [NUMREPT] , [MONLEV] , [TMPER] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
NUMREPT	{0-254, <NoVal>} Default: {<NoVal>} Addressing: None Description: Number of Reports, specifies the number of PM report messages that are generated. Values are: 0 Zero, scheduled PM reporting is disabled. 1-254 1 to 254 reports are to be generated. When the CPU is in an IS state and the system has successfully completed a restart, NUMREPT is decremented even if the schedule has been inhibited by the INH-PMREPT-OC3 command. <NoVal> No Value (Null), PM report messages continue to be generated until disabled via a NUMREPT value of 0.
MONLEV	{LEVEL-DIRECTION:{0-4294967295} - {DN, UP} } Default: {1-UP} Addressing: None Description: Monitoring Level, identifies the discriminating level of PM parameter event counts that are reported in PM messages for monitored PM parameters. The format of MONLEV is <LEVEL> - <DIRECTION>. Values are: {0-4294967295}-DN Only PM data for monitored PM parameters that are less-than or equal-to (<) the value of <LEVEL> are reported. {0-4294967295}-UP Only PM data for monitored PM parameters that are greater-than or equal-to (>) the value of <LEVEL> are reported.

TMPER	{15-MIN, 1-DAY}
	Default: {15-MIN}
	Addressing: None
	Description: Time Period, identifies the accumulation time period of the PM parameters reported in the PM report messages. Values are:
	15-MIN 15-Minute PM collection registers are reported.
	1-DAY 1-Day (24 hour) PM collection registers are reported.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid
SROF	Status, Requested Operation Failed
	/* Unable to determine facility type. */

EXAMPLES

In the following example, the current default provisioning pertaining to 15-minute scheduled Performance Monitoring (PM) reporting of OC-3 PM parameters is set.

```
SET-DFLTPMREPT-OC3:::250,16-UP,15-MIN;
```

RELATED COMMANDS

```

ALW-PMREPT-OC3
INH-PMREPT-OC3
RTRV-DFLTPMREPT-OC3
RTRV-PMSCHED-ALL
RTRV-PMSCHED-OC3
SCHED-PMREPT-ALL
SCHED-PMREPT-OC3
```

COMMAND CODE: **SET-DFLTPMREPT-STS1**
COMMAND NAME: **SET DEFAULT PERFORMANCE
MONITORING REPORT STS-1**

PURPOSE

The SET-DFLTPMREPT-STS1 command sets the current default provisioning pertaining to scheduled Performance Monitoring (PM) reporting (e.g., reporting enabled, the discriminating threshold level of reported PM parameters, etc.) of STS-1 PM parameters.

A SET-DFLTPMREPT-STS1 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

SET-DFLTPMREPT-STS1 : [TID] :: [CTAG] :: [NUMREPT] , [MONLEV] , [TMPER] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
NUMREPT	{0-254, <NoVal>} Default: {<NoVal>} Addressing: None Description: Number of Reports, specifies the number of PM report messages that are generated. Values are: 0 Zero, scheduled PM reporting is disabled. 1-254 1 to 254 reports are to be generated. When the CPU is in an IS state and the system has successfully completed a restart, NUMREPT is decremented even if the schedule has been inhibited by the INH-PMREPT-STS1 command. <NoVal> No Value (Null), PM report messages continue to be generated until disabled via a NUMREPT value of 0.
MONLEV	{[LEVEL-DIRECTION:{0-4294967295} - {DN, UP} } Default: {1-UP} Addressing: None Description: Monitoring Level, identifies the discriminating level of PM parameter event counts that are reported in PM messages for monitored PM parameters. The format of MONLEV is <LEVEL> - <DIRECTION>. Values are: {0-4294967295}-DN Only PM data for monitored PM parameters that are less-than or equal-to (<) the value of <LEVEL> are reported. {0-4294967295}-UP Only PM data for monitored PM parameters that are greater-than or equal-to (>) the value of <LEVEL> are reported.

TMPER	{15-MIN, 1-DAY}
	Default: {15-MIN}
	Addressing: None
	Description: Time Period, identifies the accumulation time period of the PM parameters reported in the PM report messages. Values are:
	15-MIN 15-Minute PM collection registers are reported.
	1-DAY 1-Day (24 hour) PM collection registers are reported.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid
SROF	Status, Requested Operation Failed
	/* Unable to determine facility type. */

EXAMPLES

In the following example, the current default provisioning pertaining to 15-minute scheduled Performance Monitoring (PM) reporting of STS-1 PM parameters is set.

```
SET-DFLTPMREPT-STs1:::250,16-UP,15-MIN;
```

RELATED COMMANDS

```

ALW-PMREPT-STs1
INH-PMREPT-STs1
RTRV-DFLTPMREPT-STs1
RTRV-PMSCHED-ALL
RTRV-PMSCHED-STs1
SCHED-PMREPT-ALL
SCHED-PMREPT-STs1
```

COMMAND CODE: **SET-DFLTPMREPT-STS3C**
COMMAND NAME: **SET DEFAULT PERFORMANCE
MONITORING REPORT STS-3C**

PURPOSE

The SET-DFLTPMREPT-STS3C command sets the current default provisioning pertaining to scheduled Performance Monitoring (PM) reporting (e.g., reporting enabled, the discriminating threshold level of reported PM parameters, etc.) of STS-3C PM parameters.

A SET-DFLTPMREPT-STS3C command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

SET-DFLTPMREPT-STS3C: [TID] :: [CTAG] :: [NUMREPT] , [MONLEV] , [TMPER] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
NUMREPT	{0-254, <NoVal>} Default: {<NoVal>} Addressing: None Description: Number of Reports, specifies the number of PM report messages that are generated. Values are: 0 Zero, scheduled PM reporting is disabled. 1-254 1 to 254 reports are to be generated. When the CPU is in an IS state and the system has successfully completed a restart, NUMREPT is decremented even if the schedule has been inhibited by the INH-PMREPT-STS3C command. <NoVal> No Value (Null), PM report messages continue to be generated until disabled via a NUMREPT value of 0.
MONLEV	{LEVEL-DIRECTION:{0-4294967295} - {DN, UP} } Default: {1-UP} Addressing: None Description: Monitoring Level, identifies the discriminating level of PM parameter event counts that are reported in PM messages for monitored PM parameters. The format of MONLEV is <LEVEL> - <DIRECTION>. Values are: {0-4294967295}-DN Only PM data for monitored PM parameters that are less-than or equal-to (<) the value of <LEVEL> are reported. {0-4294967295}-UP Only PM data for monitored PM parameters that are greater-than or equal-to (>) the value of <LEVEL> are reported.

TMPER	{15-MIN, 1-DAY}
	Default: {15-MIN}
	Addressing: None
	Description: Time Period, identifies the accumulation time period of the PM parameters reported in the PM report messages. Values are:
	15-MIN 15-Minute PM collection registers are reported.
	1-DAY 1-Day (24 hour) PM collection registers are reported.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid
SROF	Status, Requested Operation Failed
	/* Unable to determine facility type. */

EXAMPLES

In the following example, the current default provisioning pertaining to 15-minute scheduled Performance Monitoring (PM) reporting of STS-3C PM parameters is set.

```
SET-DFLTPMREPT-ST3C:::250,16-UP,15-MIN;
```

RELATED COMMANDS

```

ALW-PMREPT-ST3C
INH-PMREPT-ST3C
RTRV-DFLTPMREPT-ST3C
RTRV-PMSCHED-ALL
RTRV-PMSCHED-ST3C
SCHED-PMREPT-ALL
SCHED-PMREPT-ST3C
```

COMMAND CODE: **SET-DFLTPMREPT-T1**
COMMAND NAME: **SET DEFAULT PERFORMANCE
MONITORING REPORT T1**

PURPOSE

The SET-DFLTPMREPT-T1 command sets the current default provisioning pertaining to scheduled Performance Monitoring (PM) reporting (e.g., reporting enabled, the discriminating threshold level of reported PM parameters, etc.) of DS1 PM parameters.

A SET-DFLTPMREPT-T1 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

SET-DFLTPMREPT-T1 : [TID] :: [CTAG] :: [NUMREPT] , [MONLEV] , [TMPER] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
NUMREPT	{0-254, <NoVal>} Default: {<NoVal>} Addressing: None Description: Number of Reports, specifies the number of PM report messages that are generated. Values are: 0 Zero, scheduled PM reporting is disabled. 1-254 1 to 254 reports are to be generated. When the CPU is in an IS state and the system has successfully completed a restart, NUMREPT is decremented even if the schedule has been inhibited by the INH-PMREPT-T1 command. <NoVal> No Value (Null), PM report messages continue to be generated until disabled via a NUMREPT value of 0.
MONLEV	{LEVEL-DIRECTION:{0-4294967295} - {DN, UP} } Default: {1-UP} Addressing: None Description: Monitoring Level, identifies the discriminating level of PM parameter event counts that are reported in PM messages for monitored PM parameters. The format of MONLEV is <LEVEL> - <DIRECTION>. Values are: {0-4294967295}-DN Only PM data for monitored PM parameters that are less-than or equal-to (<) the value of <LEVEL> are reported. {0-4294967295}-UP Only PM data for monitored PM parameters that are greater-than or equal-to (>) the value of <LEVEL> are reported.

TMPER	{15-MIN, 1-DAY}
	Default: {15-MIN}
	Addressing: None
	Description: Time Period, identifies the accumulation time period of the PM parameters reported in the PM report messages. Values are:
	15-MIN 15-Minute PM collection registers are reported.
	1-DAY 1-Day (24 hour) PM collection registers are reported.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid
SROF	Status, Requested Operation Failed
	/* Unable to determine facility type. */

EXAMPLES

In the following example, the current default provisioning pertaining to 15-minute scheduled Performance Monitoring (PM) reporting of DS1 PM parameters is set.

```
SET-DFLTPMREPT-T1:::250,16-UP,15-MIN;
```

RELATED COMMANDS

```

ALW-PMREPT-T1
INH-PMREPT-T1
RTRV-DFLTPMREPT-T1
RTRV-PMSCHED-ALL
RTRV-PMSCHED-T1
SCHED-PMREPT-ALL
SCHED-PMREPT-T1
```


COMMAND CODE: **SET-DFLTPMREPT-T3**
COMMAND NAME: **SET DEFAULT PERFORMANCE
MONITORING REPORT T3**

PURPOSE

The SET-DFLTPMREPT-T3 command sets the current default provisioning pertaining to scheduled Performance Monitoring (PM) reporting (e.g., reporting enabled, the discriminating threshold level of reported PM parameters, etc.) of DS3 PM parameters.

A SET-DFLTPMREPT-T3 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

SET-DFLTPMREPT-T3 : [TID] :: [CTAG] :: [NUMREPT] , [MONLEV] , [TMPER] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
NUMREPT	{0-254, <NoVal>} Default: {<NoVal>} Addressing: None Description: Number of Reports, specifies the number of PM report messages that are generated. Values are: 0 Zero, scheduled PM reporting is disabled. 1-254 1 to 254 reports are to be generated. When the CPU is in an IS state and the system has successfully completed a restart, NUMREPT is decremented even if the schedule has been inhibited by the INH-PMREPT-T3 command. <NoVal> No Value (Null), PM report messages continue to be generated until disabled via a NUMREPT value of 0.
MONLEV	{LEVEL-DIRECTION:{0-4294967295} - {DN, UP} } Default: {1-UP} Addressing: None Description: Monitoring Level, identifies the discriminating level of PM parameter event counts that are reported in PM messages for monitored PM parameters. The format of MONLEV is <LEVEL> - <DIRECTION>. Values are: {0-4294967295}-DN Only PM data for monitored PM parameters that are less-than or equal-to (<) the value of <LEVEL> are reported. {0-4294967295}-UP Only PM data for monitored PM parameters that are greater-than or equal-to (>) the value of <LEVEL> are reported.

TMPER	{15-MIN, 1-DAY}
	Default: {15-MIN}
	Addressing: None
	Description: Time Period, identifies the accumulation time period of the PM parameters reported in the PM report messages. Values are:
	15-MIN 15-Minute PM collection registers are reported.
	1-DAY 1-Day (24 hour) PM collection registers are reported.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid
SROF	Status, Requested Operation Failed
	/* Unable to determine facility type. */

EXAMPLES

In the following example, the current default provisioning pertaining to 15-minute scheduled Performance Monitoring (PM) reporting of DS3 PM parameters is set.

```
SET-DFLTPMREPT-T3:::250,16-UP,15-MIN;
```

RELATED COMMANDS

```

ALW-PMREPT-T3
INH-PMREPT-T3
RTRV-DFLTPMREPT-T3
RTRV-PMSCHED-ALL
RTRV-PMSCHED-T3
SCHED-PMREPT-ALL
SCHED-PMREPT-T3
```

COMMAND CODE: **SET-DFLTPMREPT-VT1**
COMMAND NAME: **SET DEFAULT PERFORMANCE
MONITORING REPORT VT1**

PURPOSE

The SET-DFLTPMREPT-VT1 command sets the current default provisioning pertaining to scheduled Performance Monitoring (PM) reporting (e.g., reporting enabled, the discriminating threshold level of reported PM parameters, etc.) of VT1.5 PM parameters.

A SET-DFLTPMREPT-VT1 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

SET-DFLTPMREPT-VT1: [TID] :: [CTAG] :: [NUMREPT] , [MONLEV] , [TMPER] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
NUMREPT	{0-254, <NoVal>} Default: {<NoVal>} Addressing: None Description: Number of Reports, specifies the number of PM report messages that are generated. Values are: 0 Zero, scheduled PM reporting is disabled. 1-254 1 to 254 reports are to be generated. When the CPU is in an IS state and the system has successfully completed a restart, NUMREPT is decremented even if the schedule has been inhibited by the INH-PMREPT-VT1 command. <NoVal> No Value (Null), PM report messages continue to be generated until disabled via a NUMREPT value of 0.
MONLEV	{LEVEL-DIRECTION:{0-4294967295} - {DN, UP} } Default: {1-UP} Addressing: None Description: Monitoring Level, identifies the discriminating level of PM parameter event counts that are reported in PM messages for monitored PM parameters. The format of MONLEV is <LEVEL> - <DIRECTION>. Values are: {0-4294967295}-DN Only PM data for monitored PM parameters that are less-than or equal-to (<) the value of <LEVEL> are reported. {0-4294967295}-UP Only PM data for monitored PM parameters that are greater-than or equal-to (>) the value of <LEVEL> are reported.

TMPER	{15-MIN, 1-DAY}
	Default: {15-MIN}
	Addressing: None
	Description: Time Period, identifies the accumulation time period of the PM parameters reported in the PM report messages. Values are:
	15-MIN 15-Minute PM collection registers are reported.
	1-DAY 1-Day (24 hour) PM collection registers are reported.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid
SROF	Status, Requested Operation Failed
	/* Unable to determine facility type. */

EXAMPLES

In the following example, the current default provisioning pertaining to 15-minute scheduled Performance Monitoring (PM) reporting of VT1.5 PM parameters is set.

```
SET-DFLTPMREPT-VT1:::250,16-UP,15-MIN;
```

RELATED COMMANDS

```

ALW-PMREPT-VT1
INH-PMREPT-VT1
RTRV-DFLTPMREPT-VT1
RTRV-PMSCHED-ALL
RTRV-PMSCHED-VT1
SCHED-PMREPT-ALL
SCHED-PMREPT-VT1
```

COMMAND CODE: **SET-DFLTTH-EC1**
COMMAND NAME: **SET DEFAULT THRESHOLD EC1**

PURPOSE

The SET-DFLTTH-EC1 command changes the system provisioning default PM (Performance Monitoring) threshold level (THLEV) for which a threshold-crossing event message is generated for the monitored parameter, identified by MONTYPE (monitored parameter type), LOCN (near-end or far-end location), and TMPER (15-minute or 1-day).

A EC1 port is provisioned with the system default PM threshold level, as set by this command, when the EC1 port is assigned and provisioned by the ENT-EC1 command. After a EC1 port is provisioned (via ENT-EC1), the EC1 port's PM threshold level can be set to any (valid) value via the SET-TH-EC1 command.

Only the system default PM THLEV for the monitored parameter (identified by MONTYPE, LOCN, and TMPER) specified in the command is changed in the system database. System default threshold levels for monitored parameters that are not specified retain the value as provided from the factory or as set with a previously executed SET-DFLTTH-EC1 command. Previously provisioned EC1 ports are not affected by this command. All subsequently provisioned EC1 ports assume the THLEV default value entered with the last executed SET-DFLTTH-EC1 command when the EC1 port is provisioned (via ENT-EC1).

The EC1 THLEV default database is not affected (changed) by a system restart. The EC1 THLEV default database is replaced by the corresponding database on a backup media during a database restoral (i.e., RESTORE-DB command is executed successfully).

A SET-DFLTTH-EC1 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

SET-DFLTTH-EC1 : [TID] : : [CTAG] : : MONTYPE, THLEV, [LOCN] , [DIRN] , [TMPER] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

MONTYPE {ALL},
NEAR_END_PARAMETERS:{CV-L, CVL, ES-L, ESL, ESA-L, ESAL, ESB-L, ESBL,
LOSS, LOSS-S, SEFS, SEFS-S, SES-L, SESL, UAS-L, UASL},
FAR_END_PARAMETERS:{AISS, AISS-L, AISSL, ES-L, ESL, FC-L, FCL, SES-L,
SESL, UAS-L, UASL}
Default: Entry Required
Addressing: None
Description: Monitored Parameter Type, identifies the type of monitored parameter whose system default threshold level is to be set. A parameter may be specified by more than one value, e.g., parameter values may be entered with or without the dash (-). Refer to Appendix F, Monitored PM Parameters for a list of all monitored PM parameters. Values are:

ALL	All monitored parameter PM registers.
AISS, AISS-L, AISSL	Alarm Indication Signal Seconds – Line, AISS register. (Far-end only.)
CV-L, CVL	Coding Violations – Line, CV-L register. (Near-end only.)
ES-L, ESL	Errored Seconds – Line, ES-L register.
ESA-L, ESAL	Errored Seconds type A – Line, ESA-L register. (Near-end only.)
ESB-L, ESBL	Errored Seconds type B – Line, ESB-L register. (Near-end only.)
FC-L, FCL	Failure Counts – Line, FC-L register. (Far-end only.)
LOSS, LOSS-S	Loss Of Signal Seconds – Section, LOSS register. (Near-end only.)
SEFS, SEFS-S	Severely Errored Frame Seconds – Section, SEFS-S register. (Near-end only.)
SES-L, SESL	Severely Errored Seconds – Line, SES-L register.
UAS-L, UASL	Unavailable Seconds – Line, UAS-L register.

Restrictions: SET-DFLTTH-EC1 is denied if the specified MONTYPE value is not supported for the specified LOCN value (e.g., MONTYPE of AISS and LOCN of NEND is entered).

THLEV {0-4294967295}
Default: Entry Required
Addressing: None
Description: System Default Threshold Level, specifies the system provisioning default threshold level for which threshold-crossing event messages are generated for the monitored parameter identified by MONTYPE, LOCN, and TMPER. Uniquely defined values are:

0 Specifies no threshold-crossing events are generated.
THLEV values and the factory default for each MONTYPE are:

THLEV Values vs. MONTYPE				
MONTYPE	15-Minute Register		1-Day Register	
	Valid Values	Factory Default	Valid Values	Factory Default
ALL	{0-150}	–	{0-14400}	–
CV-L	{0-4294967295}	{4666}	{0-4294967295}	{44790}
FC-L	{0-150}	{5}	{0-14400}	{14}
<All other MONTYPES>	{0-900}	{9}	{0-65535}	{86}

Restrictions: SET-DFLTTH-EC1 is denied if the entered THLEV value is not valid for the specified MONTYPE.

LOCN	{FEND, NEND}	
	Default:	< All applicable locations for the selected monitored parameters >
	Addressing:	None
	Description:	Location, specifies whether system default threshold levels for near-end or far-end monitored parameters are to be set. Values are:
	FEND	Far-End
DIRN	NEND	Near-End
	Restrictions:	SET-DFLTTH-EC1 is denied if the specified MONTYPE value is not supported for the specified LOCN value (e.g., MONTYPE of AISS and LOCN of NEND is entered).
	{NA, RCV, TRMT}	
	Default:	< All applicable directions >
	Addressing:	None
TMPER	Description:	Direction, specifies the direction of the signal being monitored. The value for DIRN is verified, but does not affect the function of the SET-DFLTTH-EC1 command.
	NA	Not Applicable
	RCV	Receive side
	TRMT	Transmit direction
	{15-MIN, 1-DAY}	
	Default:	{15-MIN}
	Addressing:	None
	Description:	Time Period, specifies whether system default threshold levels for the 15-minute or the daily (24 hour) PM collection register for the specified parameter is to be set. Values are:
	15-MIN	15-Minute PM collection register
	1-DAY	1-Day (24 hour) PM collection register

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

```

IDNV      Input, Data Not Valid
          /* Invalid direction in request message. */
          /* Invalid location in request message. */
          /* Invalid montype in request message. */
          /* Invalid time period in request message. */
          /* Invalid threshold level in request message. */
          /* Threshold level is out of range. */
```

IIPG	Input, Invalid Parameter Grouping /* Invalid location for requested montype. */
SDBE	Status, internal Data Base Error /* Error reading EC1 PM Default database */ /* Error <ERRNO> updating EC1 PM Default database. */
SROF	Status, Requested Operation Failed /* Unable to determine facility type. */

EXAMPLES

In the following example, the system provisioning default threshold level for the daily (1-Day) near-end coding violations, line (CV-L) PM register is set to 5000.

```
SET-DFLTTH-EC1::::CVL,5000,NEND,,1-DAY;
```

In the following example, the system provisioning default threshold level for all 15-Minute near-end and far-end monitored PM parameters is set to 0.

```
SET-DFLTTH-EC1::::ALL,0;
```

RELATED COMMANDS

```
ENT-EC1  
INIT-REG-EC1  
RTRV-DFLTTH-EC1  
RTRV-PM-EC1  
RTRV-PMATTR-ALL  
RTRV-PMODE-EC1  
RTRV-TH-EC1  
SET-PMATTR-ALL  
SET-PMODE-EC1  
SET-TH-EC1
```

RELATED AUTONOMOUS RESPONSES

```
REPT^EVT^EC1
```


COMMAND CODE: **SET-DFLTTH-OC12**
COMMAND NAME: **SET DEFAULT THRESHOLD OC-12**

PURPOSE

The SET-DFLTTH-OC12 command changes the system provisioning default PM (Performance Monitoring) threshold level (THLEV) for which a threshold-crossing event message is generated for the monitored parameter, identified by MONTYPE (monitored parameter type), LOCN (near-end or far-end location), and TMPER (15-minute or 1-day).

An OC-12 port is provisioned with the system default PM threshold level, as set by this command, when the OC-12 port is assigned and provisioned by the ENT-OC12 command. After an OC-12 port is provisioned (via ENT-OC12), the OC-12 port's PM threshold level can be set to any (valid) value via the SET-TH-OC12 command.

Only the system default PM THLEV for the monitored parameter (identified by MONTYPE, LOCN, and TMPER) specified in the command is changed in the system database. System default threshold levels for monitored parameters that are not specified retain the value as provided from the factory or as set with a previously executed SET-DFLTTH-OC12 command. Previously provisioned OC-12 ports are not affected by this command. All subsequently provisioned OC-12 ports assume the THLEV default value entered with the last executed SET-DFLTTH-OC12 command when the OC-12 port is provisioned (via ENT-OC12).

The OC-12 THLEV default database is not affected (changed) by a system restart. The OC-12 THLEV default database is replaced by the corresponding database on a backup media during a database restoral (i.e., RE-STORE-DB command is executed successfully).

A SET-DFLTTH-OC12 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

SET-DFLTTH-OC12 : [TID] : : [CTAG] : : MONTYPE, THLEV, [LOCN] , [DIRN] , [TMPER] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

MONTYPE	{ALL}, NEAR_END_PARAMETERS:{AISS, AISS-L, AISSL, CV-L, CVL, CV-S, CVS, ES-L, ESL, ES-S, ESS, ESA-L, ESAL, ESA-S, ESAS, ESB-L, ESBL, ESB-S, ESBS, FC-L, FCL, LOSS, LOSS-S, PSC, PSC-L, PSCL, PSD, PSD-L, PSDL, SEFS, SEFS-S, SES-L, SESL, SES-S, SESS, UAS-L, UASL}, FAR_END_PARAMETERS:{AISS, AISS-L, AISSL, CV-L, CVL, ES-L, ESL, ESA-L, ESAL, ESB-L, ESBL, FC-L, FCL, SES-L, SESL, UAS-L, UASL}
Default:	Entry Required
Addressing:	None
Description:	Monitored Parameter Type, identifies the type of monitored parameter whose system default threshold level is to be set. A parameter may be specified by more than one value, e.g., parameter values may be entered with or without the dash (-). Refer to Appendix F, Monitored PM Parameters for a list of all monitored PM parameters. Values are:
ALL	All monitored parameter PM registers.
AISS, AISS-L, AISSL	Alarm Indication Signal Seconds – Line, AISS register.
CV-L, CVL	Coding Violations – Line, CV-L register.
CV-S, CVS	Coding Violations – Section, CV-S register. (Near-end only.)
ES-L, ESL	Errored Seconds – Line, ES-L register.
ES-S, ESS	Errored Seconds – Section, ES-S register. (Near-end only.)
ESA-L, ESAL	Errored Seconds type A – Line, ESA-L register.
ESA-S, ESAS	Errored Seconds type A – Section, ESA-S register. (Near-end only.)
ESB-L, ESBL	Errored Seconds type B – Line, ESB-L register.
ESB-S, ESBS	Errored Seconds type B – Section, ESB-S register. (Near-end only.)
FC-L, FCL	Failure Counts – Line, FC-L register.
LOSS, LOSS-S	Loss Of Signal Seconds – Section, LOSS register. (Near-end only.)
PSC, PSC-L, PSCL	Protection Switch Counts – Line, PSC-L register. (Near-end only.)
PSD, PSD-L, PSDL	Protection Switch Duration – Line, PSD-L register. (Near-end only.)
SEFS, SEFS-S	Severely Errored Frame Seconds – Section, SEFS-S register. (Near-end only.)
SES-L, SESL	Severely Errored Seconds – Line, SES-L register.
SES-S, SESS	Severely Errored Seconds – Section, SES-S register. (Near-end only.)
UAS-L, UASL	Unavailable Seconds – Line, UAS-L register.
Restrictions:	SET-DFLTTH-OC12 is denied if the specified MONTYPE value is not supported for the specified LOCN value (e.g., MONTYPE of CV-S and LOCN of FEND is entered).

THLEV {0–4294967295}
Default: Entry Required
Addressing: None
Description: System Default Threshold Level, specifies the system provisioning default threshold level for which threshold-crossing event messages are generated for the monitored parameter identified by MONTYPE, LOCN, and TMPER. Uniquely defined values are:
 0 Specifies no threshold-crossing events are generated.
 THLEV values and the factory default for each MONTYPE are:

THLEV Values vs. MONTYPE				
MONTYPE	15–Minute Register		1–Day Register	
	Valid Values	Factory Default	Valid Values	Factory Default
ALL	{0–150}	–	{0–14400}	–
CV–L, CV–S	{0–4294967295}	{4666}	{0–4294967295}	{44790}
FC–L	{0–150}	{5}	{0–14400}	{14}
<All other MONTYPES>	{0–900}	{9}	{0–65535}	{86}

Restrictions: SET–DFLTTH–OC12 is denied if the entered THLEV value is not valid for the specified MONTYPE.

LOCN {FEND, NEND}
Default: < All applicable locations for the selected monitored parameters >
Addressing: None
Description: Location, specifies whether system default threshold levels for near-end or far-end monitored parameters are to be set. Values are:
 FEND Far–End
 NEND Near–End
Restrictions: SET–DFLTTH–OC12 is denied if the specified MONTYPE value is not supported for the specified LOCN value (e.g., MONTYPE of CV–S and LOCN of FEND is entered).

DIRN {NA, RCV, TRMT}
Default: < All applicable directions >
Addressing: None
Description: Direction, specifies the direction of the signal being monitored. The value for DIRN is verified, but does not affect the function of the SET–DFLTTH–OC12 command.
 NA Not Applicable
 RCV Receive side
 TRMT Transmit direction

TMPER {15–MIN, 1–DAY}
Default: {15–MIN}
Addressing: None
Description: Time Period, specifies whether system default threshold levels for the 15-minute or the daily (24 hour) PM collection register for the specified parameter is to be set. Values are:
 15–MIN 15–Minute PM collection register
 1–DAY 1–Day (24 hour) PM collection register

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid
	/* Invalid direction in request message. */
	/* Invalid location in request message. */
	/* Invalid montype in request message. */
	/* Invalid time period in request message. */
	/* Invalid threshold level in request message. */
	/* Threshold level is out of range. */
IIPG	Input, Invalid Parameter Grouping
	/* Invalid location for requested montype. */
SDBE	Status, internal Data Base Error
	/* Error reading OC12 PM Default database */
	/* Error <ERRNO> updating OC12 PM Default database. */
SROF	Status, Requested Operation Failed
	/* Unable to determine facility type. */

EXAMPLES

In the following example, the system provisioning default threshold level for the daily (1-Day) near-end coding violations, line (CV-L) PM register is set to 5000.

```
SET-DFLTTH-OC12:::::CVL,5000,NEND,,1-DAY;
```

In the following example, the system provisioning default threshold level for all 15-Minute near-end and far-end monitored PM parameters is set to 0.

```
SET-DFLTTH-OC12:::::ALL,0;
```

RELATED COMMANDS

```
ENT-OC12
INIT-REG-OC12
RTRV-DFLTTH-OC12
RTRV-PM-OC12
RTRV-PMATTR-ALL
RTRV-PMODE-OC12
RTRV-TH-OC12
SET-PMATTR-ALL
```

SET-PMODE-OC12
SET-TH-OC12

RELATED AUTONOMOUS RESPONSES

REPT^EVT^OC12

COMMAND CODE: **SET-DFLTTH-OC3**
COMMAND NAME: **SET DEFAULT THRESHOLD OC-3**

PURPOSE

The SET-DFLTTH-OC3 command changes the system provisioning default PM (Performance Monitoring) threshold level (THLEV) for which a threshold-crossing event message is generated for the monitored parameter, identified by MONTYPE (monitored parameter type), LOCN (near-end or far-end location), and TMPER (15-minute or 1-day).

An OC-3 port is provisioned with the system default PM threshold level, as set by this command, when the OC-3 port is assigned and provisioned by the ENT-OC3 command. After an OC-3 port is provisioned (via ENT-OC3), the OC-3 port's PM threshold level can be set to any (valid) value via the SET-TH-OC3 command.

Only the system default PM THLEV for the monitored parameter (identified by MONTYPE, LOCN, and TMPER) specified in the command is changed in the system database. System default threshold levels for monitored parameters that are not specified retain the value as provided from the factory or as set with a previously executed SET-DFLTTH-OC3 command. Previously provisioned OC-3 ports are not affected by this command. All subsequently provisioned OC-3 ports assume the THLEV default value entered with the last executed SET-DFLTTH-OC3 command when the OC-3 port is provisioned (via ENT-OC3).

The OC-3 THLEV default database is not affected (changed) by a system restart. The OC-3 THLEV default database is replaced by the corresponding database on a backup media during a database restoral (i.e., RESTORE-DB command is executed successfully).

A SET-DFLTTH-OC3 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

SET-DFLTTH-OC3 : [TID] : : [CTAG] : : MONTYPE, THLEV, [LOCN] , [DIRN] , [TMPER] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

MONTYPE	{ALL}, NEAR_END_PARAMETERS:{AISS, AISS-L, AISSL, CV-L, CVL, CV-S, CVS, ES-L, ESL, ES-S, ESS, ESA-L, ESAL, ESA-S, ESAS, ESB-L, ESBL, ESB-S, ESBS, FC-L, FCL, LOSS, LOSS-S, PSC, PSC-L, PSCL, PSD, PSD-L, PSDL, SEFS, SEFS-S, SES-L, SESL, SES-S, SESS, UAS-L, UASL}, FAR_END_PARAMETERS:{AISS, AISS-L, AISSL, CV-L, CVL, ES-L, ESL, ESA-L, ESAL, ESB-L, ESBL, FC-L, FCL, SES-L, SESL, UAS-L, UASL}
Default:	Entry Required
Addressing:	None
Description:	Monitored Parameter Type, identifies the type of monitored parameter whose system default threshold level is to be set. A parameter may be specified by more than one value, e.g., parameter values may be entered with or without the dash (-). Refer to Appendix F, Monitored PM Parameters for a list of all monitored PM parameters. Values are:
ALL	All monitored parameter PM registers.
AISS, AISS-L, AISSL	Alarm Indication Signal Seconds – Line, AISS register.
CV-L, CVL	Coding Violations – Line, CV-L register.
CV-S, CVS	Coding Violations – Section, CV-S register. (Near-end only.)
ES-L, ESL	Errored Seconds – Line, ES-L register.
ES-S, ESS	Errored Seconds – Section, ES-S register. (Near-end only.)
ESA-L, ESAL	Errored Seconds type A – Line, ESA-L register.
ESA-S, ESAS	Errored Seconds type A – Section, ESA-S register. (Near-end only.)
ESB-L, ESBL	Errored Seconds type B – Line, ESB-L register.
ESB-S, ESBS	Errored Seconds type B – Section, ESB-S register. (Near-end only.)
FC-L, FCL	Failure Counts – Line, FC-L register.
LOSS, LOSS-S	Loss Of Signal Seconds – Section, LOSS register. (Near-end only.)
PSC, PSC-L, PSCL	Protection Switch Counts – Line, PSC-L register. (Near-end only.)
PSD, PSD-L, PSDL	Protection Switch Duration – Line, PSD-L register. (Near-end only.)
SEFS, SEFS-S	Severely Errored Frame Seconds – Section, SEFS-S register. (Near-end only.)
SES-L, SESL	Severely Errored Seconds – Line, SES-L register.
SES-S, SESS	Severely Errored Seconds – Section, SES-S register. (Near-end only.)
UAS-L, UASL	Unavailable Seconds – Line, UAS-L register.
Restrictions:	SET-DFLTTH-OC3 is denied if the specified MONTYPE value is not supported for the specified LOCN value (e.g., MONTYPE of CV-S and LOCN of FEND is entered).

THLEV {0–4294967295}
Default: Entry Required
Addressing: None
Description: System Default Threshold Level, specifies the system provisioning default threshold level for which threshold-crossing event messages are generated for the monitored parameter identified by MONTYPE, LOCN, and TMPER. Uniquely defined values are:
 0 Specifies no threshold-crossing events are generated.
 THLEV values and the factory default for each MONTYPE are:

THLEV Values vs. MONTYPE				
MONTYPE	15–Minute Register		1–Day Register	
	Valid Values	Factory Default	Valid Values	Factory Default
ALL	{0–150}	–	{0–14400}	–
CV–L, CV–S	{0–4294967295}	{4666}	{0–4294967295}	{44790}
FC–L	{0–150}	{5}	{0–14400}	{14}
<All other MONTYPES>	{0–900}	{9}	{0–65535}	{86}

Restrictions: SET–DFLTTH–OC3 is denied if the entered THLEV value is not valid for the specified MONTYPE.

LOCN {FEND, NEND}
Default: < All applicable locations for the selected monitored parameters >
Addressing: None
Description: Location, specifies whether system default threshold levels for near-end or far-end monitored parameters are to be set. Values are:
 FEND Far–End
 NEND Near–End
Restrictions: SET–DFLTTH–OC3 is denied if the specified MONTYPE value is not supported for the specified LOCN value (e.g., MONTYPE of CV–S and LOCN of FEND is entered).

DIRN {NA, RCV, TRMT}
Default: < All applicable directions >
Addressing: None
Description: Direction, specifies the direction of the signal being monitored. The value for DIRN is verified, but does not affect the function of the SET–DFLTTH–OC3 command.
 NA Not Applicable
 RCV Receive side
 TRMT Transmit direction

TMPER {15–MIN, 1–DAY}
Default: {15–MIN}
Addressing: None
Description: Time Period, specifies whether system default threshold levels for the 15-minute or the daily (24 hour) PM collection register for the specified parameter is to be set. Values are:
 15–MIN 15–Minute PM collection register
 1–DAY 1–Day (24 hour) PM collection register

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid
	/* Invalid direction in request message. */
	/* Invalid location in request message. */
	/* Invalid montype in request message. */
	/* Invalid time period in request message. */
	/* Invalid threshold level in request message. */
	/* Threshold level is out of range. */
IIPG	Input, Invalid Parameter Grouping
	/* Invalid location for requested montype. */
SDBE	Status, internal Data Base Error
	/* Error reading OC3 PM Default database */
	/* Error <ERRNO> updating OC3 PM Default database. */
SROF	Status, Requested Operation Failed
	/* Unable to determine facility type. */

EXAMPLES

In the following example, the system provisioning default threshold level for the daily (1-Day) near-end coding violations, line (CV-L) PM register is set to 5000.

```
SET-DFLTTH-OC3 : : : : CVL, 5000, NEND, , 1-DAY;
```

In the following example, the system provisioning default threshold level for all 15-Minute near-end and far-end monitored PM parameters is set to 0.

```
SET-DFLTTH-OC3 : : : : ALL, 0;
```

RELATED COMMANDS

```
ENT-OC3
INIT-REG-OC3
RTRV-DFLTTH-OC3
RTRV-PM-OC3
RTRV-PMATTR-ALL
RTRV-PMODE-OC3
RTRV-TH-OC3
SET-PMATTR-ALL
```

SET-PMODE-OC3
SET-TH-OC3

RELATED AUTONOMOUS RESPONSES

REPT^EVT^OC3

COMMAND CODE: **SET-DFLTTH-STS1**
COMMAND NAME: **SET DEFAULT THRESHOLD STS-1**

PURPOSE

The SET-DFLTTH-STS1 command changes the system provisioning default PM (Performance Monitoring) threshold level (THLEV) for which a threshold-crossing event message is generated for the monitored parameter, identified by MONTYPE (monitored parameter type), LOCN (near-end or far-end location), and TMPER (15-minute or 1-day).

an STS-1 port is provisioned with the system default PM threshold level, as set by this command, when the STS-1 port is assigned and provisioned by the ENT-STS1 command. After an STS-1 port is provisioned (via ENT-STS1), the STS-1 port's PM threshold level can be set to any (valid) value via the SET-TH-STS1 command.

Only the system default PM THLEV for the monitored parameter (identified by MONTYPE, LOCN, and TMPER) specified in the command is changed in the system database. System default threshold levels for monitored parameters that are not specified retain the value as provided from the factory or as set with a previously executed SET-DFLTTH-STS1 command. Previously provisioned STS-1 ports are not affected by this command. All subsequently provisioned STS-1 ports assume the THLEV default value entered with the last executed SET-DFLTTH-STS1 command when the STS-1 port is provisioned (via ENT-STS1).

The STS-1 THLEV default database is not affected (changed) by a system restart. The STS-1 THLEV default database is replaced by the corresponding database on a backup media during a database restoral (i.e., RE-STORE-DB command is executed successfully).

A SET-DFLTTH-STS1 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

SET-DFLTTH-STS1 : [TID] :: [CTAG] :: MONTYPE, THLEV, [LOCN] , [DIRN] , [TMPER] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

MONTYPE {ALL},
NEAR_END_PARAMETERS:{ALS-P, ALSP, CV-P, CVP, ES-P, ESP, ESA-P, ESAP, ESB-P, ESBP, FC-P, FCP, SES-P, SESP, UAS-P, UASP},
FAR_END_PARAMETERS:{ALS-P, ALSP, CV-P, CVP, ES-P, ESP, ESA-P, ESAP, ESB-P, ESBP, FC-P, FCP, SES-P, SESP, UAS-P, UASP}
Default: Entry Required
Addressing: None
Description: Monitored Parameter Type, identifies the type of monitored parameter whose system default threshold level is to be set. A parameter may be specified by more than one value, e.g., parameter values may be entered with or without the dash (-). Refer to Appendix F, Monitored PM Parameters for a list of all monitored PM parameters. Values are:

ALL	All monitored parameter PM registers.
ALS-P, ALSP	Alarm Indication Signal/Loss of Pointer – Path, ALS-P register.
CV-P, CVP	Coding Violations – Path, CV-P register.
ES-P, ESP	Errored Seconds – Path, ES-P register.
ESA-P, ESAP	Errored Seconds type A – Path, ESA-P register.
ESB-P, ESBP	Errored Seconds type B – Path, ESB-P register.
FC-P, FCP	Failure Counts – Path, FC-P register.
SES-P, SESP	Severely Errored Seconds – Path, SES-P register.
UAS-P, UASP	Unavailable Seconds – Path, UAS-P register.

THLEV {0-4294967295}
Default: Entry Required
Addressing: None
Description: System Default Threshold Level, specifies the system provisioning default threshold level for which threshold-crossing event messages are generated for the monitored parameter identified by MONTYPE, LOCN, and TMPER. Uniquely defined values are:

0	Specifies no threshold-crossing events are generated.
---	---

THLEV values and the factory default for each MONTYPE are:

THLEV Values vs. MONTYPE				
MONTYPE	15-Minute Register		1-Day Register	
	Valid Values	Factory Default	Valid Values	Factory Default
ALL	{0-150}	–	{0-14400}	–
CV-P	{0-4294967295}	{4666}	{0-4294967295}	{44790}
FC-P	{0-150}	{5}	{0-14400}	{14}
<All other MONTYPES>	{0-900}	{9}	{0-65535}	{86}

Restrictions: SET-DFLTTH-STS1 is denied if the entered THLEV value is not valid for the specified MONTYPE.

LOCN {FEND, NEND}
Default: < All applicable locations for the selected monitored parameters >
Addressing: None
Description: Location, specifies whether system default threshold levels for near-end or far-end monitored parameters are to be set. Values are:

FEND	Far-End
NEND	Near-End

DIRN	{NA, RCV, TRMT}					
	Default: < All applicable directions >					
	Addressing: None					
	Description: Direction, specifies the direction of the signal being monitored. The value for DIRN is verified, but does not affect the function of the SET-DFLTTH-STS1 command.					
	<table> <tr> <td>NA</td><td>Not Applicable</td></tr> <tr> <td>RCV</td><td>Receive side</td></tr> <tr> <td>TRMT</td><td>Transmit direction</td></tr> </table>	NA	Not Applicable	RCV	Receive side	TRMT
NA	Not Applicable					
RCV	Receive side					
TRMT	Transmit direction					
TMPER	{15-MIN, 1-DAY}					
	Default: {15-MIN}					
	Addressing: None					
	Description: Time Period, specifies whether system default threshold levels for the 15-minute or the daily (24 hour) PM collection register for the specified parameter is to be set. Values are:					
	<table> <tr> <td>15-MIN</td><td>15-Minute PM collection register</td></tr> <tr> <td>1-DAY</td><td>1-Day (24 hour) PM collection register</td></tr> </table>	15-MIN	15-Minute PM collection register	1-DAY	1-Day (24 hour) PM collection register	
15-MIN	15-Minute PM collection register					
1-DAY	1-Day (24 hour) PM collection register					

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid
	/* Invalid direction in request message. */
	/* Invalid location in request message. */
	/* Invalid montype in request message. */
	/* Invalid time period in request message. */
	/* Invalid threshold level in request message. */
	/* Threshold level is out of range. */
IIPG	Input, Invalid Parameter Grouping
	/* Invalid location for requested montype. */
SDBE	Status, internal Data Base Error
	/* Error reading STS1 PM Default database */
	/* Error <ERRNO> updating STS1 PM Default database. */
SROF	Status, Requested Operation Failed
	/* Unable to determine facility type. */

EXAMPLES

In the following example, the system provisioning default threshold level for the daily (1-Day) near-end coding violations, path (CV-P) PM register is set to 5000.

```
SET-DFLTTH-STs1:::::CVP,5000,NEND,,1-DAY;
```

In the following example, the system provisioning default threshold level for all 15-Minute near-end and far-end monitored PM parameters is set to 0.

```
SET-DFLTTH-STs1:::::ALL,0;
```

RELATED COMMANDS

```
ENT-STs1  
INIT-REG-STs1  
RTRV-DFLTTH-STs1  
RTRV-PM-STs1  
RTRV-PMATTR-ALL  
RTRV-PMODE-STs1  
RTRV-TH-STs1  
SET-PMATTR-ALL  
SET-PMODE-STs1  
SET-TH-STs1
```

RELATED AUTONOMOUS RESPONSES

```
REPT^EVT^STs1
```


COMMAND CODE: **SET-DFLTTH-STS3C**
COMMAND NAME: **SET DEFAULT THRESHOLD STS-3C**

PURPOSE

The SET-DFLTTH-STS3C command changes the system provisioning default PM (Performance Monitoring) threshold level (THLEV) for which a threshold-crossing event message is generated for the monitored parameter, identified by MONTYPE (monitored parameter type), LOCN (near-end or far-end location), and TMPER (15-minute or 1-day).

An STS-3C port is provisioned with the system default PM threshold level, as set by this command, when the STS-1 port is assigned and provisioned by the ENT-STS3C command. After an STS-3C port is provisioned (via ENT-STS3C), the STS-3C port's PM threshold level can be set to any (valid) value via the SET-TH-STS3C command.

Only the system default PM THLEV for the monitored parameter (identified by MONTYPE, LOCN, and TMPER) specified in the command is changed in the system database. System default threshold levels for monitored parameters that are not specified retain the value as provided from the factory or as set with a previously executed SET-DFLTTH-STS3C command. Previously provisioned STS-3C ports are not affected by this command. All subsequently provisioned STS-3C ports assume the THLEV default value entered with the last executed SET-DFLTTH-STS3C command when the STS-3C port is provisioned (via ENT-STS3C).

The STS-3C THLEV default database is not affected (changed) by a system restart. The STS-3C THLEV default database is replaced by the corresponding database on a backup media during a database restoral (i.e., RESTORE-DB command is executed successfully).

A SET-DFLTTH-STS3C command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

SET-DFLTTH-STS3C: [TID] : : [CTAG] : : MONTYPE, THLEV, [LOCN] , [DIRN] , [TMPER] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

MONTYPE {ALL},
NEAR_END_PARAMETERS:{ALS-P, ALSP, CV-P, CVP, ES-P, ESP, ESA-P, ESAP, ESB-P, ESBP, FC-P, FCP, SES-P, SESP, UAS-P, UASP},
FAR_END_PARAMETERS:{ALS-P, ALSP, CV-P, CVP, ES-P, ESP, ESA-P, ESAP, ESB-P, ESBP, FC-P, FCP, SES-P, SESP, UAS-P, UASP}
Default: Entry Required
Addressing: None
Description: Monitored Parameter Type, identifies the type of monitored parameter whose system default threshold level is to be set. A parameter may be specified by more than one value, e.g., parameter values may be entered with or without the dash (-). Refer to Appendix F, Monitored PM Parameters for a list of all monitored PM parameters. Values are:

ALL	All monitored parameter PM registers.
ALS-P, ALSP	Alarm Indication Signal/Loss of Pointer – Path, ALS-P register.
CV-P, CVP	Coding Violations – Path, CV-P register.
ES-P, ESP	Errored Seconds – Path, ES-P register.
ESA-P, ESAP	Errored Seconds type A – Path, ESA-P register.
ESB-P, ESBP	Errored Seconds type B – Path, ESB-P register.
FC-P, FCP	Failure Counts – Path, FC-P register.
SES-P, SESP	Severely Errored Seconds – Path, SES-P register.
UAS-P, UASP	Unavailable Seconds – Path, UAS-P register.

THLEV {0-4294967295}
Default: Entry Required
Addressing: None
Description: System Default Threshold Level, specifies the system provisioning default threshold level for which threshold-crossing event messages are generated for the monitored parameter identified by MONTYPE, LOCN, and TMPER. Uniquely defined values are:

0	Specifies no threshold-crossing events are generated.
---	---

THLEV values and the factory default for each MONTYPE are:

THLEV Values vs. MONTYPE				
MONTYPE	15-Minute Register		1-Day Register	
	Valid Values	Factory Default	Valid Values	Factory Default
ALL	{0-150}	–	{0-14400}	–
CV-P	{0-4294967295}	{4666}	{0-4294967295}	{44790}
FC-P	{0-150}	{5}	{0-14400}	{14}
<All other MONTYPES>	{0-900}	{9}	{0-65535}	{86}

Restrictions: SET-DFLTTH-ST53C is denied if the entered THLEV value is not valid for the specified MONTYPE.

LOCN {FEND, NEND}
Default: < All applicable locations for the selected monitored parameters >
Addressing: None
Description: Location, specifies whether system default threshold levels for near-end or far-end monitored parameters are to be set. Values are:

FEND	Far-End
NEND	Near-End

DIRN	{NA, RCV, TRMT}
	Default: < All applicable directions >
	Addressing: None
	Description: Direction, specifies the direction of the signal being monitored. The value for DIRN is verified, but does not affect the function of the SET-DFLTTH-STS3C command.
	NA Not Applicable
	RCV Receive side
	TRMT Transmit direction
TMPER	{15-MIN, 1-DAY}
	Default: {15-MIN}
	Addressing: None
	Description: Time Period, specifies whether system default threshold levels for the 15-minute or the daily (24 hour) PM collection register for the specified parameter is to be set. Values are:
	15-MIN 15-Minute PM collection register
	1-DAY 1-Day (24 hour) PM collection register

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid
	/* Invalid direction in request message. */
	/* Invalid location in request message. */
	/* Invalid montype in request message. */
	/* Invalid time period in request message. */
	/* Invalid threshold level in request message. */
	/* Threshold level is out of range. */
IIPG	Input, Invalid Parameter Grouping
	/* Invalid location for requested montype. */
ISPC	Input, Syntax PunCtuation
SDBE	Status, internal Data Base Error
	/* Error reading STS3C PM Default database */
	/* Error <ERRNO> updating STS3C PM Default database. */
SROF	Status, Requested Operation Failed
	/* Unable to determine facility type. */

EXAMPLES

In the following example, the system provisioning default threshold level for the daily (1-Day) near-end coding violations, path (CV-P) PM register is set to 5000.

```
SET-DFLTTH-STS3C: ::::CVP, 5000, NEND, , 1-DAY;
```

In the following example, the system provisioning default threshold level for all 15-Minute near-end and far-end monitored PM parameters is set to 0.

```
SET-DFLTTH-STS3C: ::::ALL, 0;
```

RELATED COMMANDS

```
ENT-STS3C  
INIT-REG-STS3C  
RTRV-DFLTTH-STS3C  
RTRV-PM-STS3C  
RTRV-PMATTR-ALL  
RTRV-PMODE-STS3C  
RTRV-TH-STS3C  
SET-PMATTR-ALL  
SET-PMODE-STS3C  
SET-TH-STS3C
```

RELATED AUTONOMOUS RESPONSES

```
REPT^EVT^STS3C
```

COMMAND CODE: **SET-DFLTTH-T1**
COMMAND NAME: **SET DEFAULT THRESHOLD T1**

PURPOSE

The SET-DFLTTH-T1 command changes the system provisioning default PM (Performance Monitoring) threshold level (THLEV) for which a threshold-crossing event message is generated for the monitored parameter, identified by MONTYPE (monitored parameter type), LOCN (near-end or far-end location), and TMPER (15-minute or 1-day).

A DS1 port is provisioned with the system default PM threshold level, as set by this command, when the DS1 port is assigned and provisioned by the ENT-T1 command. After a DS1 port is provisioned (via ENT-T1), the DS1 port's PM threshold level can be set to any (valid) value via the SET-TH-T1 command.

Only the system default PM THLEV for the monitored parameter (identified by MONTYPE, LOCN, and TMPER) specified in the command is changed in the system database. System default threshold levels for monitored parameters that are not specified retain the value as provided from the factory or as set with a previously executed SET-DFLTTH-T1 command. Previously provisioned DS1 ports are not affected by this command. All subsequently provisioned DS1 ports assume the THLEV default value entered with the last executed SET-DFLTTH-T1 command when the DS1 port is provisioned (via ENT-T1).

The DS1 THLEV default database is not affected (changed) by a system restart. The DS1 THLEV default database is replaced by the corresponding database on a backup media during a database restoral (i.e., RESTORE-DB command is executed successfully).

A SET-DFLTTH-T1 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

SET-DFLTTH-T1 : [TID] : : [CTAG] : : MONTYPE, THLEV, [LOCN] , [DIRN] , [TMPER] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

MONTYPE	{ALL}, NEAR_END_PARAMETERS:{AISS, AISS-P, AISSP, CV-L, CVL, CV-P, CVP, ES-L, ESL, ES-P, ESP, ESA-P, ESAP, ESB-P, ESBP, FC-P, FCP, LOSS, LOSS-L, LOSSL, QRSSS, QRSSS-P, QRSSSP, SAS-P, SASP, SES-L, SESL, SES-P, SESP, UAS-P, UASP}, FAR_END_PARAMETERS:{CSS, CSS-P, CSSP, CV-P, CVP, ES-L, ESL, ES-P, ESP, ESA-P, ESAP, ESB-P, ESBP, FC-P, FCP, SEFS, SEFS-P, SESP, SEFSP, SES-P, SESP, UAS-P, UASP}
Default:	Entry Required
Addressing:	None
Description:	Monitored Parameter Type, identifies the type of monitored parameter whose system default threshold level is to be set. A parameter may be specified by more than one value, e.g., parameter values may be entered with or without the dash (-). Refer to Appendix F, Monitored PM Parameters for a list of all monitored PM parameters. Values are:
ALL	All monitored parameter PM registers.
AISS, AISS-P, AISSP	Alarm Indication Signal Seconds – Path, AISS register. (Near-end only.)
CSS, CSS-P, CSSP	Controlled Slip Seconds – Path, CSS register. (Far-end only.)
CV-L, CVL	Coding Violations – Line, CV-L register. (Near-end only.)
CV-P, CVP	Coding Violations – Path, CV-P register.
ES-L, ESL	Errored Seconds – Line, ES-L register.
ES-P, ESP	Errored Seconds – Path, ES-P register.
ESA-P, ESAP	Errored Seconds type A – Path, ESA-P register.
ESB-P, ESBP	Errored Seconds type B – Path, ESB-P register.
FC-P, FCP	Failure Count – Path, FC-P register.
LOSS, LOSS-L, LOSSL	Loss of Signal Seconds – Line, LOSS register. (Near-end only.)
QRSSS, QRSSS-P, QRSSSP	QRSS Seconds – Path, QRSSS-P register. (Near-end only.)
SAS-P, SASP	Severe AIS Seconds – Path, SAS-P register. (Near-end only.)
SEFS, SEFS-P, SEFSP	Severely Errored Frame Seconds, SEFS register. (Far-end only.)
SES-L, SESL	Severely Errored Seconds – Line, SES-L register. (Near-end only.)
SES-P, SESP	Severely Errored Seconds – Path, SES-P register.
UAS-P, UASP	Unavailable Seconds – Path, UAS-P register.
Restrictions:	SET-DFLTTH-T1 is denied if the specified MONTYPE value is not supported for the specified LOCN value (e.g., MONTYPE of AISS and LOCN of FEND is entered).

THLEV {0–4294967295}
Default: Entry Required
Addressing: None
Description: System Default Threshold Level, specifies the system provisioning default threshold level for which threshold-crossing event messages are generated for the monitored parameter identified by MONTYPE, LOCN, and TMPER. Uniquely defined values are:
 0 Specifies no threshold-crossing events are generated.
 THLEV values and the factory default for each MONTYPE are:

THLEV Values vs. MONTYPE				
MONTYPE	15–Minute Register		1–Day Register	
	Valid Values	Factory Default	Valid Values	Factory Default
ALL	{0–150}	–	{0–14400}	–
CV–L, CV–P	{0–4294967295}	{13340}	{0–4294967295}	{133400}
ES–L, ES–P, QRSSS, QRSSS–P	{0–900}	{65}	{0–65535}	{648}
FC–P	{0–150}	{10}	{0–14400}	{100}
<All other MONTYPES>	{0–900}	{10}	{0–65535}	{100}

Restrictions: SET–DFLTTH–T1 is denied if the entered THLEV value is not valid for the specified MONTYPE.

LOCN {FEND, NEND}
Default: < All applicable locations for the selected monitored parameters >
Addressing: None
Description: Location, specifies whether system default threshold levels for near-end or far-end monitored parameters are to be set. Values are:
 FEND Far–End
 NEND Near–End
Restrictions: SET–DFLTTH–T1 is denied if the specified MONTYPE value is not supported for the specified LOCN value (e.g., MONTYPE of AISS and LOCN of FEND is entered).

DIRN {NA, RCV, TRMT}
Default: < All applicable directions >
Addressing: None
Description: Direction, specifies the direction of the signal being monitored. The value for DIRN is verified, but does not affect the function of the SET–DFLTTH–T1 command.
 NA Not Applicable
 RCV Receive side
 TRMT Transmit direction

TMPER {15–MIN, 1–DAY}
Default: {15–MIN}
Addressing: None
Description: Time Period, specifies whether system default threshold levels for the 15-minute or the daily (24 hour) PM collection register for the specified parameter is to be set. Values are:
 15–MIN 15–Minute PM collection register
 1–DAY 1–Day (24 hour) PM collection register

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid
	/* Invalid direction in request message. */
	/* Invalid location in request message. */
	/* Invalid montype in request message. */
	/* Invalid time period in request message. */
	/* Invalid threshold level in request message. */
	/* Threshold level is out of range. */
IIPG	Input, Invalid Parameter Grouping
	/* Invalid location for requested montype. */
SDBE	Status, internal Data Base Error
	/* Error reading T1 PM Default database */
	/* Error <ERRNO> updating T1 PM Default database. */
SROF	Status, Requested Operation Failed
	/* Unable to determine facility type. */

EXAMPLES

In the following example, the system provisioning default threshold level for the daily (1-Day) near-end coding violations, path (CV-P) PM register is set to 50000.

```
SET-DFLTTH-T1::::CVP,50000,NEND,,1-DAY;
```

In the following example, the system provisioning default threshold level for all 15-Minute near-end and far-end monitored PM parameters is set to 0.

```
SET-DFLTTH-T1::::ALL,0;
```


RELATED COMMANDS

ENT-T1
INIT-REG-T1
RTRV-DFLTTH-T1
RTRV-PM-T1
RTRV-PMATTR-ALL
RTRV-PMODE-T1
RTRV-TH-T1
SET-PMATTR-ALL
SET-PMODE-T1
SET-TH-T1

RELATED AUTONOMOUS RESPONSES

REPT^EVT^T1

COMMAND CODE: **SET-DFLTTH-T3**
COMMAND NAME: **SET DEFAULT THRESHOLD T3**

PURPOSE

The SET-DFLTTH-T3 command changes the system provisioning default PM (Performance Monitoring) threshold level (THLEV) for which a threshold-crossing event message is generated for the monitored parameter, identified by MONTYPE (monitored parameter type), LOCN (near-end or far-end location), and TMPER (15-minute or 1-day).

A DS3 port is provisioned with the system default PM threshold level, as set by this command, when the DS3 port is assigned and provisioned by the ENT-T3 command. After a DS3 port is provisioned (via ENT-T3), the DS3 port's PM threshold level can be set to any (valid) value via the SET-TH-T3 command.

Only the system default PM THLEV for the monitored parameter (identified by MONTYPE, LOCN, and TMPER) specified in the command is changed in the system database. System default threshold levels for monitored parameters that are not specified retain the value as provided from the factory or as set with a previously executed SET-DFLTTH-T3 command. Previously provisioned DS3 ports are not affected by this command. All subsequently provisioned DS3 ports assume the THLEV default value entered with the last executed SET-DFLTTH-T3 command when the DS3 port is provisioned (via ENT-T3).

The DS3 THLEV default database is not affected (changed) by a system restart. The DS3 THLEV default database is replaced by the corresponding database on a backup media during a database restoral (i.e., RESTORE-DB command is executed successfully).

A SET-DFLTTH-T3 command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

SET-DFLTTH-T3 : [TID] : : [CTAG] : : MONTYPE, THLEV, [LOCN] , [DIRN] , [TMPER] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

MONATYPE	{ALL},
	NEAR_END_PARAMETERS:{AISS, AISS-P, AISSP, CV-L, CVL, CV-P, CVP, CVCP-P, CVCPP, ES-L, ESL, ES-P, ESP, ESA-L, ESAL, ESA-P, ESAP, ESACP-P, ESACPP, ESB-L, ESBP, ESB-P, ESBP, ESBP-P, ESBP-P, ESCP-P, ESCPP, FC-P, FCP, LOSS, LOSS-L, LOSSL, SAS-P, SASP, SES-L, SESL, SES-P, SESP, SESCO-P, SESCO-P, UAS-P, UASP, UASCP-P, UASCPP},
	FAR_END_PARAMETERS:{CVCP-P, CVCPP, ESACP-P, ESACPP, ESBP-P, ESBP-P, ESCP-P, ESCPP, FCCP-P, FCCPP, SASCP-P, SASCPP, SESCO-P, SESCO-P, UASCP-P, UASCPP}
	Default: Entry Required
	Addressing: None
	Description: Monitored Parameter Type, identifies the type of monitored parameter whose system default threshold level is to be set. A parameter may be specified by more than one value, e.g., parameter values may be entered with or without the dash (-). Refer to Appendix F, Monitored PM Parameters for a list of all monitored PM parameters. Values are:
	ALL All monitored parameter PM registers.
	AISS, AISS-P, AISSP Alarm Indication Signal Seconds – Path, AISS register. (Near-end only.)
	CV-L, CVL Coding Violations – Line, CV-L register. (Near-end only.)
	CV-P, CVP Coding Violations – Path, CV-P register. (Near-end only.)
	CVCP-P, CVCPP Code Violations, CP-bit parity – Path, CVCP-P register.
	ES-L, ESL Errored Seconds – Line, ES-L register. (Near-end only.)
	ES-P, ESP Errored Seconds – Path, ES-P register. (Near-end only.)
	ESA-L, ESAL Errored Seconds type A – Line, ESA-L register. (Near-end only.)
	ESA-P, ESAP Errored Seconds type A – Path, ESA-P register. (Near-end only.)
	ESACP-P, ESACPP Errored Seconds type A, CP-bit parity – Path, ESACP-P register.
	ESB-L, ESBP Errored Seconds type B – Line, ESB-L register. (Near-end only.)
	ESB-P, ESBP Errored Seconds type B – Path, ESB-P register. (Near-end only.)
	ESBPC-P, ESBPCPP Errored Seconds type B, CP-bit parity – Path, ESBPC-P register.
	ESCP-P, ESCPP Errored Seconds, CP-bit parity – Path, ESCP-P register.
	FC-P, FCP Failure Counts – Path, FC-P register. (Near-end only.)
	FCCP-P, FCCPP Failure Counts, CP-bit parity – Path, FC-P register. (Far-end only.)
	LOSS, LOSS-L, LOSSL Loss Of Signal Seconds – Line, LOSS register. (Near-end only.)
	SAS-P, SASP Severe AIS Seconds – Path, SAS-P register. (Near-end only.)
	SASCP-P, SASCPP Severe AIS Seconds, CP-bit parity – Path, SASCP-P register. (Far-end only.)
	SES-L, SESL Severely Errored Seconds – Line, SES-L register. (Near-end only.)
	SES-P, SESP Severely Errored Seconds – Path, SES-P register. (Near-end only.)
	SESCP-P, SESCOPP Severely Errored Seconds, CP-bit parity – Path, SESCO-P register.
	UAS-P, UASP Unavailable Seconds – Path, UAS-P register. (Near-end only.)

UASCP-P, UASCPP Unavailable Seconds, CP-bit parity – Path, UASCP-P register.

Restrictions: SET-DFLTTH-T3 is denied if the specified MONTYPE value is not supported for the specified LOCN value (e.g., MONTYPE of AISS and LOCN of FEND is entered).

THLEV

{0-4294967295}

Default: Entry Required

Addressing: None

Description: System Default Threshold Level, specifies the system provisioning default threshold level for which threshold-crossing event messages are generated for the monitored parameter identified by MONTYPE, LOCN, and TMPER. Uniquely defined values are:

0 Specifies no threshold-crossing events are generated.

THLEV values and the factory default for each MONTYPE are:

THLEV Values vs. MONTYPE				
MONTYPE	15-Minute Register		1-Day Register	
	Valid Values	Factory Default	Valid Values	Factory Default
ALL	{0-150}	–	{0-14400}	–
CV-L, CV-P, CVCP-P	{0-4294967295}	{13340}	{0-4294967295}	{133400}
ES-L, ES-P, ESCP-P	{0-900}	{65}	{0-65535}	{648}
FC-P, FCCP-P	{0-150}	{5}	{0-14400}	{14}
<All other MONTYPES>	{0-900}	{10}	{0-65535}	{100}

Restrictions: SET-DFLTTH-T3 is denied if the entered THLEV value is not valid for the specified MONTYPE.

LOCN

{FEND, NEND}

Default: < All applicable locations for the selected monitored parameters >

Addressing: None

Description: Location, specifies whether system default threshold levels for near-end or far-end monitored parameters are to be set. Values are:

FEND Far-End

NEND Near-End

Restrictions: SET-DFLTTH-T3 is denied if the specified MONTYPE value is not supported for the specified LOCN value (e.g., MONTYPE of AISS and LOCN of FEND is entered).

DIRN

{NA, RCV, TRMT}

Default: < All applicable directions >

Addressing: None

Description: Direction, specifies the direction of the signal being monitored. The value for DIRN is verified, but does not affect the function of the SET-DFLTTH-T3 command.

NA Not Applicable

RCV Receive side

TRMT Transmit direction

TMPER	{15-MIN, 1-DAY} Default: {15-MIN} Addressing: None Description: Time Period, specifies whether system default threshold levels for the 15-minute or the daily (24 hour) PM collection register for the specified parameter is to be set. Values are: <div style="margin-left: 40px;"> 15-MIN 15-Minute PM collection register 1-DAY 1-Day (24 hour) PM collection register </div>
-------	---

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid /* Invalid direction in request message. */ /* Invalid location in request message. */ /* Invalid montype in request message. */ /* Invalid time period in request message. */ /* Invalid threshold level in request message. */ /* Threshold level is out of range. */
IIPG	Input, Invalid Parameter Grouping /* Invalid location for requested montype. */
SDBE	Status, internal Data Base Error /* Error reading T3 PM Default database */ /* Error <ERRNO> updating T3 PM Default database. */
SROF	Status, Requested Operation Failed /* Unable to determine facility type. */

EXAMPLES

In the following example, the system provisioning default threshold level for the daily (1-Day) near-end coding violations, path (CV-P) PM register is set to 50000.

```
SET-DFLTTH-T3:::::CVP,50000,NEND,,1-DAY;
```

In the following example, the system provisioning default threshold level for all 15-Minute near-end and far-end monitored PM parameters is set to 0.

```
SET-DFLTTH-T3:::::ALL,0;
```

RELATED COMMANDS

```
ENT-T3
```

INIT-REG-T3
RTRV-DFLTTH-T3
RTRV-PM-T3
RTRV-PMATTR-ALL
RTRV-PMODE-T3
RTRV-TH-T3
SET-PMATTR-ALL
SET-PMODE-T3
SET-TH-T3

RELATED AUTONOMOUS RESPONSES

REPT^EVT^T3

COMMAND CODE: **SET-DFLTTH-VT1**
COMMAND NAME: **SET DEFAULT THRESHOLD VT1**

PURPOSE

The SET-DFLTTH-VT1 command changes the system provisioning default PM (Performance Monitoring) threshold level (THLEV) for which a threshold-crossing event message is generated for the monitored parameter, identified by MONTYPE (monitored parameter type), LOCN (near-end or far-end location), and TMPER (15-minute or 1-day).

A VT1.5 port is provisioned with the system default PM threshold level, as set by this command, when the VT1.5 port is assigned and provisioned by the ENT-VT1 command. After a VT1.5 port is provisioned (via ENT-VT1), the VT1.5 port's PM threshold level can be set to any (valid) value via the SET-TH-VT1 command.

Only the system default PM THLEV for the monitored parameter (identified by MONTYPE, LOCN, and TMPER) specified in the command is changed in the system database. System default threshold levels for monitored parameters that are not specified retain the value as provided from the factory or as set with a previously executed SET-DFLTTH-VT1 command. Previously provisioned VT1.5 ports are not affected by this command. All subsequently provisioned VT1.5 ports assume the THLEV default value entered with the last executed SET-DFLTTH-VT1 command when the VT1.5 port is provisioned (via ENT-VT1).

The VT1.5 THLEV default database is not affected (changed) by a system restart. The VT1.5 THLEV default database is replaced by the corresponding database on a backup media during a database restoral (i.e., RESTORE-DB command is executed successfully).

A SET-DFLTTH-VT1 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

SET-DFLTTH-VT1 : [TID] : : [CTAG] : : MONTYPE, THLEV, [LOCN] , [DIRN] , [TMPER] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >	
	Default:	<SID>
	Addressing:	None
	Description:	Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS >	
	Default:	< System assigned CTAG value >
	Addressing:	None
	Description:	Correlation Tag, associates input command with its output responses.

MONTYPE {ALL},
NEAR_END_PARAMETERS:{ALS-V, ALSV, CV-V, CVV, ES-V, ESV, ESA-V, ESAV, ESB-V, ESBV, FC-V, FCV, SES-V, SESV, UAS-V, UASV},
FAR_END_PARAMETERS:{ALS-V, ALSV, CV-V, CVV, ES-V, ESV, ESA-V, ESAV, ESB-V, ESBV, FC-V, FCV, SES-V, SESV, UAS-V, UASV}
Default: Entry Required
Addressing: None
Description: Monitored Parameter Type, identifies the type of monitored parameter whose system default threshold level is to be set. A parameter may be specified by more than one value, e.g., parameter values may be entered with or without the dash (-). Refer to Appendix F, Monitored PM Parameters for a list of all monitored PM parameters. Values are:

ALL	All monitored parameter PM registers.
ALS-V, ALSV	Alarm Indication Signal/Loss of Pointer – VT Path, ALS-V register.
CV-V, CVV	Coding Violations – VT Path, CV-V register.
ES-V, ESV	Errored Seconds – VT Path, ES-V register.
ESA-V, ESAV	Errored Seconds type A – VT Path, ESA-V register.
ESB-V, ESBV	Errored Seconds type B – VT Path, ESB-V register.
FC-V, FCV	Failure Counts – VT Path, FC-V register.
SES-V, SESV	Severely Errored Seconds – VT Path, SES-V register.
UAS-V, UASV	Unavailable Seconds – VT Path, UAS-V register.

THLEV {0-4294967295}
Default: Entry Required
Addressing: None
Description: System Default Threshold Level, specifies the system provisioning default threshold level for which threshold-crossing event messages are generated for the monitored parameter identified by MONTYPE, LOCN, and TPER. Uniquely defined values are:

0	Specifies no threshold-crossing events are generated.
---	---

THLEV values and the factory default for each MONTYPE are:

THLEV Values vs. MONTYPE				
MONTYPE	15-Minute Register		1-Day Register	
	Valid Values	Factory Default	Valid Values	Factory Default
ALL	{0-150}	–	{0-14400}	–
CV-V	{0-4294967295}	4666	{0-4294967295}	44790
FC-V	{0-150}	5	{0-14400}	14
<All other MONTYPES>	{0-900}	15	{0-65535}	86

Restrictions: SET-DFLTTH-VT1 is denied if the entered THLEV value is not valid for the specified MONTYPE.

LOCN {FEND, NEND}
Default: < All applicable locations for the selected monitored parameters >
Addressing: None
Description: Location, specifies whether system default threshold levels for near-end or far-end monitored parameters are to be set. Values are:

FEND	Far-End
NEND	Near-End

DIRN	{NA, RCV, TRMT}	
	Default:	< All applicable directions >
	Addressing:	None
	Description:	Direction, specifies the direction of the signal being monitored. The value for DIRN is verified, but does not affect the function of the SET-DFLTTH-VT1 command.
	NA	Not Applicable
TMPER	RCV	Receive side
	TRMT	Transmit direction
	{15-MIN, 1-DAY}	
	Default:	{15-MIN}
	Addressing:	None
	Description:	Time Period, specifies whether system default threshold levels for the 15-minute or the daily (24 hour) PM collection register for the specified parameter is to be set. Values are:
	15-MIN	15-Minute PM collection register
	1-DAY	1-Day (24 hour) PM collection register

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid
	/* Invalid direction in request message. */
	/* Invalid location in request message. */
	/* Invalid montype in request message. */
	/* Invalid time period in request message. */
	/* Invalid threshold level in request message. */
	/* Threshold level is out of range. */
IIPG	Input, Invalid Parameter Grouping
	/* Invalid location for requested montype. */
SDBE	Status, internal Data Base Error
	/* Error reading VT1 PM Default database */
	/* Error <ERRNO> updating VT1 PM Default database. */
SROF	Status, Requested Operation Failed
	/* Unable to determine facility type. */

EXAMPLES

In the following example, the system provisioning default threshold level for the daily (1–Day) near–end coding violations, VT path (CV–V) PM register is set to 5000.

```
SET-DFLTTH-VT1::::CVV,5000,NEND,,1-DAY;
```

In the following example, the system provisioning default threshold level for all 15–Minute near–end and far–end monitored PM parameters is set to 0.

```
SET-DFLTTH-VT1::::ALL,0;
```

RELATED COMMANDS

```
ENT-VT1  
INIT-REG-VT1  
RTRV-DFLTTH-VT1  
RTRV-PM-VT1  
RTRV-PMATTR-ALL  
RTRV-PMODE-VT1  
RTRV-TH-VT1  
SET-PMATTR-ALL  
SET-PMODE-VT1  
SET-TH-VT1
```

RELATED AUTONOMOUS RESPONSES

```
REPT^EVT^VT1
```

COMMAND CODE: **SET-GOS-EC1**
COMMAND NAME: **SET GRADE-OF-SERVICE EC1**

PURPOSE

The SET-GOS-EC1 command sets the threshold level for the number of service affecting EC1 facility alarms required to generate a (system-level) common Grade-Of-Service-EC1 (GOS-EC1) condition.

The GOS-EC1 condition type attributes are set by the SET-ATTR-COM command. The factory default GOS-EC1 threshold level is zero (0).

A SET-GOS-EC1 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

SET-GOS-EC1 : [TID] :: [CTAG] :: THRESHOLD ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
THRESHOLD	{0-3072} Default: Entry Required Addressing: None Description: Threshold, specifies the number of service affecting EC1 facility alarms required to generate a (system-level) common GOS-EC1 condition. A value of zero (0) specifies no GOS-EC1 condition is generated. The factory default GOS-EC1 threshold level is zero (0).

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IPNV	Input, Parameter Not Valid /* Input GOS threshold <INPUT VALUE> is out of range. */
SDBE	Status, internal Data Base Error /* Error reading the GOS thresholds database, error code <ERROR CODE>. */ /* Error updating the GOS thresholds database, error code <ERROR CODE>. */

EXAMPLES

In the following example, the GOS-EC1 alarm threshold level is set to zero (0), disabling the EC1 GOS-EC1 alarm.

```
SET-GOS-EC1:::0;
```

RELATED COMMANDS

```
RTRV-ALM-ALL  
RTRV-ALM-COM  
RTRV-COND-ALL  
RTRV-COND-COM  
RTRV-GOS-EC1  
RTRV-GOS-OC3  
RTRV-GOS-STS1  
RTRV-GOS-STS3C  
RTRV-GOS-T1  
RTRV-GOS-T3  
RTRV-GOS-VT1  
SET-ATTR-COM  
SET-GOS-OC3  
SET-GOS-STS1  
SET-GOS-STS3C  
SET-GOS-T1  
SET-GOS-T3  
SET-GOS-VT1
```

RELATED AUTONOMOUS RESPONSES

```
REPT^ALM^COM  
REPT^EVT^COM
```

COMMAND CODE: **SET-GOS-OC12**
COMMAND NAME: **SET GRADE-OF-SERVICE OC-12**

PURPOSE

The SET-GOS-OC12 command sets the threshold level for the number of service affecting OC-12 facility alarms required to generate a (system-level) common Grade-Of-Service-OC-12 (GOS-OC12) condition.

The GOS-OC12 condition type attributes are set by the SET-ATTR-COM command. The factory default GOS-OC12 threshold level is zero (0).

A SET-GOS-OC12 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

```
SET-GOS-OC12: [TID] : : [CTAG] : : THRESHOLD;
```

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
THRESHOLD	{0-560} Default: Entry Required Addressing: None Description: Threshold, specifies the number of service affecting OC-12 facility alarms required to generate a (system-level) common GOS-OC12 condition. A value of zero (0) specifies no GOS-OC12 condition is generated. The factory default GOS-OC12 threshold level is zero (0).

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M <CTAG> COMPLD  
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]  
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M <CTAG> DENY  
  <ERROR CODE>  
  [/* <Informational Error Description Text> */]  
  [/* <Expanded Error Code Description> */]  
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]  
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IPNV	Input, Parameter Not Valid /*Input GOS threshold <INPUT VALUE> is out of range.*/
SDBE	Status, internal Data Base Error /*Error reading the GOS thresholds database, error code <DATABASE ERROR CODE>.*/ /*Error updating the GOS thresholds database, error code <DATABASE ERROR CODE>.*/*

EXAMPLES

In the following example, the GOS-OC12 alarm threshold level is set to zero (0), disabling the OC-12 GOS-OC12 alarm.

```
SET-GOS-OC12:::::0;
```

RELATED COMMANDS

```
RTRV-ALM-ALL  
RTRV-ALM-COM  
RTRV-COND-ALL  
RTRV-COND-COM  
RTRV-GOS-EC1  
RTRV-GOS-OC12  
RTRV-GOS-STS1  
RTRV-GOS-STS3C  
RTRV-GOS-T1  
RTRV-GOS-T3  
RTRV-GOS-VT1  
SET-ATTR-COM  
SET-GOS-EC1  
SET-GOS-STS1  
SET-GOS-STS3C  
SET-GOS-T1  
SET-GOS-T3  
SET-GOS-VT1
```

RELATED AUTONOMOUS RESPONSES

```
REPT^ALM^COM  
REPT^EVT^COM
```


COMMAND CODE: **SET-GOS-OC3**
COMMAND NAME: **SET GRADE-OF-SERVICE OC-3**

PURPOSE

The SET-GOS-OC3 command sets the threshold level for the number of service affecting OC-3 facility alarms required to generate a (system-level) common Grade-Of-Service-OC-3 (GOS-OC3) condition.

The GOS-OC3 condition type attributes are set by the SET-ATTR-COM command. The factory default GOS-OC3 threshold level is zero (0).

A SET-GOS-OC3 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

SET-GOS-OC3 : [TID] : : [CTAG] : : THRESHOLD ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
THRESHOLD	{0-1024} Default: Entry Required Addressing: None Description: Threshold, specifies the number of service affecting OC-3 facility alarms required to generate a (system-level) common GOS-OC3 condition. A value of zero (0) specifies no GOS-OC3 condition is generated. The factory default GOS-OC3 threshold level is zero (0).

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are: ICNV Input, Command Not Valid

IPNV	Input, Parameter Not Valid /* Input GOS thresholds <INPUT VALUE> is out of range. */
SDBE	Status, internal Data Base Error /* Error reading the GOS thresholds database, error code <ERROR CODE>. */ /* Error updating the GOS thresholds database, error code <ERROR CODE>. */

EXAMPLES

In the following example, the GOS-OC3 alarm threshold level is set to zero (0), disabling the OC-3 GOS-OC3 alarm.

```
SET-GOS-OC3 : : : : 0 ;
```

RELATED COMMANDS

```
RTRV-ALM-ALL  
RTRV-ALM-COM  
RTRV-COND-ALL  
RTRV-COND-COM  
RTRV-GOS-EC1  
RTRV-GOS-OC3  
RTRV-GOS-STS1  
RTRV-GOS-STS3C  
RTRV-GOS-T1  
RTRV-GOS-T3  
RTRV-GOS-VT1  
SET-ATTR-COM  
SET-GOS-EC1  
SET-GOS-STS1  
SET-GOS-STS3C  
SET-GOS-T1  
SET-GOS-T3  
SET-GOS-VT1
```

RELATED AUTONOMOUS RESPONSES

```
REPT^ALM^COM  
REPT^EVT^COM
```

COMMAND CODE: **SET-GOS-STS1**
COMMAND NAME: **SET GRADE-OF-SERVICE STS-1**

PURPOSE

The SET-GOS-STS1 command sets the threshold level for the number of service affecting STS-1 facility alarms required to generate a (system-level) common Grade-Of-Service-STS1 (GOS-STS1) condition.

The GOS-STS1 condition type attributes are set by the SET-ATTR-COM command. The factory default GOS-STS1 threshold level is zero (0).

A SET-GOS-STS1 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

```
SET-GOS-STS1: [TID] : : [CTAG] : : THRESHOLD;
```

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
THRESHOLD	{0-3072} Default: Entry Required Addressing: None Description: Threshold, specifies the number of service affecting STS-1 facility alarms required to generate a (system-level) common GOS-STS1 condition. A value of zero (0) specifies no GOS-STS1 condition is generated. The factory default GOS-STS1 threshold level is zero (0).

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M <CTAG> COMPLD  
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]  
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M <CTAG> DENY  
  <ERROR CODE>  
  [/* <Informational Error Description Text> */]  
  [/* <Expanded Error Code Description> */]  
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]  
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IPNV	Input, Parameter Not Valid /* Input GOS threshold <INPUT VALUE> is out of range. */
SDBE	Status, internal Data Base Error /* Error reading the GOS thresholds database, error code <DATABASE ERROR CODE>. */ /* Error updating the GOS thresholds database, error code <DATABASE ERROR CODE>. */

EXAMPLES

In the following example, the GOS–STS1 alarm threshold level is set to zero (0), disabling the STS–1 GOS–STS1 alarm.

```
SET-GOS-STs1:::::0;
```

RELATED COMMANDS

RTRV-ALM-ALL
RTRV-ALM-COM
RTRV-COND-ALL
RTRV-COND-COM
RTRV-GOS-EC1
RTRV-GOS-OC3
RTRV-GOS-STs1
RTRV-GOS-STs3C
RTRV-GOS-T1
RTRV-GOS-T3
RTRV-GOS-VT1
SET-ATTR-COM
SET-GOS-EC1
SET-GOS-OC3
SET-GOS-STs3C
SET-GOS-T1
SET-GOS-T3
SET-GOS-VT1

RELATED AUTONOMOUS RESPONSES

REPT^ALM^COM
REPT^EVT^COM

COMMAND CODE: **SET-GOS-STS3C**
COMMAND NAME: **SET GRADE-OF-SERVICE STS-3C**

PURPOSE

The SET-GOS-STS3C command sets the threshold level for the number of service affecting STS-3C facility alarms required to generate a (system-level) common Grade-Of-Service-STS3C (GOS-STS3C) condition.

The GOS-STS3C condition type attributes are set by the SET-ATTR-COM command. The factory default GOS-STS3C threshold level is zero (0).

A SET-GOS-STS3C command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

SET-GOS-STS3C: [TID] :: [CTAG] :: THRESHOLD;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
THRESHOLD	{0-1024} Default: Entry Required Addressing: None Description: Threshold, specifies the number of service affecting STS-3C facility alarms required to generate a (system-level) common GOS-STS3C condition. A value of zero (0) specifies no GOS-STS3C condition is generated. The factory default GOS-STS3C threshold level is zero (0).

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IPNV	Input, Parameter Not Valid /* Input GOS threshold <INPUT VALUE> is out of range. */
SDBE	Status, internal Data Base Error /* Error reading the GOS thresholds database, error code <DATABASE ERROR CODE>. */ /* Error updating the GOS thresholds database, error code <DATABASE ERROR CODE>. */

EXAMPLES

In the following example, the GOS–STS3C alarm threshold level is set to zero (0), disabling the STS–3C GOS–STS3C alarm.

```
SET-GOS-ST33C:::0;
```

RELATED COMMANDS

RTRV-ALM-ALL
RTRV-ALM-COM
RTRV-COND-ALL
RTRV-COND-COM
RTRV-GOS-EC1
RTRV-GOS-OC3
RTRV-GOS-ST31
RTRV-GOS-ST33C
RTRV-GOS-T1
RTRV-GOS-T3
RTRV-GOS-VT1
SET-ATTR-COM
SET-GOS-EC1
SET-GOS-OC3
SET-GOS-ST31
SET-GOS-T1
SET-GOS-T3
SET-GOS-VT1

RELATED AUTONOMOUS RESPONSES

REPT^ALM^COM
REPT^EVT^COM

COMMAND CODE: **SET-GOS-T1**
COMMAND NAME: **SET GRADE-OF-SERVICE T1**

PURPOSE

The SET-GOS-T1 command sets the threshold level for the number of service affecting DS1 facility alarms required to generate a (system-level) common Grade-Of-Service-T1 (GOS-T1) condition.

The GOS-T1 condition type attributes are set by the SET-ATTR-COM command. The factory default GOS-T1 threshold level is six (6).

A SET-GOS-T1 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

SET-GOS-T1 : [TID] : : [CTAG] : : THRESHOLD ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
THRESHOLD	{0-103936} Default: Entry Required Addressing: None Description: Threshold, specifies the number of service affecting DS1 facility alarms required to generate a (system-level) common GOS-T1 condition. A value of zero (0) specifies no GOS-T1 condition is generated. The factory default GOS-T1 threshold level is six (6).

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

ICNV	Input, Command Not Valid
IPNV	Input, Parameter Not Valid
	/* Input GOS threshold <INPUT VALUE> is out of range. */
SDBE	Status, internal Data Base Error
	/* Error reading the GOS thresholds database, error code <DATABASE ERROR CODE>.
	*/
	/* Error updating the GOS thresholds database, error code <DATABASE ERROR CODE>. */

EXAMPLES

In the following example, the GOS–T1 alarm threshold level is set to zero (0), disabling the DS1 GOS–T1 alarm.

```
SET-GOS-T1:::0;
```

RELATED COMMANDS

```
RTRV-ALM-ALL
RTRV-ALM-COM
RTRV-COND-ALL
RTRV-COND-COM
RTRV-GOS-EC1
RTRV-GOS-OC3
RTRV-GOS-STS1
RTRV-GOS-STS3C
RTRV-GOS-T1
RTRV-GOS-T3
RTRV-GOS-VT1
SET-ATTR-COM
SET-GOS-EC1
SET-GOS-OC3
SET-GOS-STS1
SET-GOS-STS3C
SET-GOS-T3
SET-GOS-VT1
```

RELATED AUTONOMOUS RESPONSES

```
REPT^ALM^COM
REPT^EVT^COM
```


COMMAND CODE: **SET-GOS-T3**
COMMAND NAME: **SET GRADE-OF-SERVICE T3**

PURPOSE

The SET-GOS-T3 command sets the threshold level for the number of service affecting DS3 facility alarms required to generate a (system-level) common Grade-Of-Service-T3 (GOS-T3) condition.

The GOS-T3 condition type attributes are set by the SET-ATTR-COM command. The factory default GOS-T3 threshold level is zero (0).

A SET-GOS-T3 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

SET-GOS-T3 : [TID] : : [CTAG] : : THRESHOLD ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
THRESHOLD	{0-3712} Default: Entry Required Addressing: None Description: Threshold, specifies the number of service affecting DS3 facility alarms required to generate a (system-level) common GOS-T3 condition. A value of zero (0) specifies no GOS-T3 condition is generated. The factory default GOS-T3 threshold level is zero (0).

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IPNV	Input, Parameter Not Valid /* Input GOS threshold <INPUT VALUE> is out of range. */
SDBE	Status, internal Data Base Error /* Error reading the GOS thresholds database, error code <DATABASE ERROR CODE>. */ /* Error updating the GOS thresholds database, error code <DATABASE ERROR CODE>. */

EXAMPLES

In the following example, the GOS–T3 alarm threshold level is set to zero (0), disabling the DS3 GOS–T3 alarm.

```
SET-GOS-T3:::0;
```

RELATED COMMANDS

RTRV-ALM-ALL
RTRV-ALM-COM
RTRV-COND-ALL
RTRV-COND-COM
RTRV-GOS-EC1
RTRV-GOS-OC3
RTRV-GOS-STS1
RTRV-GOS-STS3C
RTRV-GOS-T1
RTRV-GOS-T3
RTRV-GOS-VT1
SET-ATTR-COM
SET-GOS-EC1
SET-GOS-OC3
SET-GOS-STS1
SET-GOS-STS3C
SET-GOS-T1
SET-GOS-VT1

RELATED AUTONOMOUS RESPONSES

REPT^ALM^COM
REPT^EVT^COM

COMMAND CODE: **SET-GOS-VT1**
COMMAND NAME: **SET GRADE-OF-SERVICE VT1**

PURPOSE

The SET-GOS-VT1 command sets the threshold level for the number of service affecting VT1.5 facility alarms required to generate a (system-level) common Grade-Of-Service-VT1 (GOS-VT1) condition.

The GOS-VT1 condition type attributes are set by the SET-ATTR-COM command. The factory default GOS-VT1 threshold level is zero (0).

A SET-GOS-VT1 command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

```
SET-GOS-VT1 : [TID] :: [CTAG] :: THRESHOLD ;
```

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
THRESHOLD	{0-86016} Default: Entry Required Addressing: None Description: Threshold, specifies the number of service affecting VT1.5 facility alarms required to generate a (system-level) common GOS-VT1 condition. A value of zero (0) specifies no GOS-VT1 condition is generated. The factory default GOS-VT1 threshold level is zero (0).

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M <CTAG> COMPLD  
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]  
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M <CTAG> DENY  
  <ERROR CODE>  
  [/* <Informational Error Description Text> */]  
  [/* <Expanded Error Code Description> */]  
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]  
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IPNV	Input, Parameter Not Valid /* Input GOS threshold <INPUT VALUE> is out of range. */
SDBE	Status, internal Data Base Error /* Error reading the GOS thresholds database, error code <DATABASE ERROR CODE>. */ /* Error updating the GOS thresholds database, error code <DATABASE ERROR CODE>. */

EXAMPLES

In the following example, the GOS-VT1 alarm threshold level is set to zero (0), disabling the VT1.5 GOS-VT1 alarm.

```
SET-GOS-VT1:::::0;
```

RELATED COMMANDS

RTRV-ALM-ALL
RTRV-ALM-COM
RTRV-COND-ALL
RTRV-COND-COM
RTRV-GOS-EC1
RTRV-GOS-OC3
RTRV-GOS-STS1
RTRV-GOS-STS3C
RTRV-GOS-T1
RTRV-GOS-T3
RTRV-GOS-VT1
SET-ATTR-COM
SET-GOS-EC1
SET-GOS-OC3
SET-GOS-STS1
SET-GOS-STS3C
SET-GOS-T1
SET-GOS-T3

RELATED AUTONOMOUS RESPONSES

REPT^ALM^COM
REPT^EVT^COM

COMMAND CODE: **SET-NODEID**
COMMAND NAME: **SET (BPM) NODE IDENTIFIER**

PURPOSE

The SET-NODEID command sets the value of the Node Identifier transmitted in any Binary Performance Monitoring (BPM) report message.

A SET-NODEID command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

SET-NODEID: [TID] : : [CTAG] : : NODEID;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
NODEID	{0-65535} Default: Entry Required Addressing: None Description: (BPM) Node Identifier, specifies the value of the Node ID transmitted in any Binary PM report message.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IPMS	Input, Parameter MiSsing
SDBE	Status, internal Data Base Error
	/* Unable to read platparm db record – status = <status>. */
	/* Node ID modified to <NODEID>. */

EXAMPLES

In the following example, the Node ID transmitted in any Binary PM report message is set to 320.

```
SET-NODEID:::::320;
```

RELATED COMMANDS

```
ED-CID  
ED-PRVG-USER  
ENT-CID  
ENT-USER  
SCHED-PMREPT-EC1  
SCHED-PMREPT-F3  
SCHED-PMREPT-STS1  
SCHED-PMREPT-STS3C  
SCHED-PMREPT-T1  
SCHED-PMREPT-T3  
SCHED-PMREPT-VT1  
RTRV-NODEID  
RTRV-PMSCHED-EC1  
RTRV-PMSCHED-F3  
RTRV-PMSCHED-STS1  
RTRV-PMSCHED-STS3C  
RTRV-PMSCHED-T1  
RTRV-PMSCHED-T3  
RTRV-PMSCHED-VT1  
RTRV-PRVG-USER  
RTRV-CID
```

COMMAND CODE: **SET-PMATTR-ALL**
COMMAND NAME: **SET PERFORMANCE MONITORING ATTRIBUTES ALL**

PURPOSE

The SET-PMATTR-ALL command sets the system-wide PM attributes for all facility types in the system. Threshold Crossing Alert (TCA) attributes and the REPTPMFILERDY attribute are supported.

If the TCA parameter is set to a value of R (restricted), autonomous threshold crossing messages (REPT^EVT^rr) that are affected by a facility failure are suppressed for the remainder of the 15-minute monitoring time period for which the failure exists. Threshold crossing alerts not affected by the facility failure continue to be generated when they occur.

When the Report Event for Common alarms is activated, the transient event PMFILERDY message is activated as well. Since this is not an alarming condition, users do not necessarily desire to see this event message generated once every 15 minutes. This event message is controlled by activating or deactivating the REPTPMFILERDY parameter in the SET-PMATTR-ALL command.

A SET-PMATTR-ALL command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

SET-PMATTR-ALL: [TID] : : [CTAG] : : [TCA] [, REPTPMFILERDY] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
TCA	{A, R} Default: {Already Existing Value} Addressing: None Description: Threshold Crossing Alert, specifies whether autonomous messages for the indicated threshold crossing alerts (TCAs) are allowed or restricted during the remainder of a 15-minute monitor period for which a corresponding facility failure is detected. The following TCAs are affected:

Facility Type	Facility Failure	Threshold Crossing Alerts (TCAs) Affected
OC12	LOS or LOF	T-CVS, T-ESS, T-ESA-S, T-ESB-S, T-LOSS, T-SEFS, T-SESS
	AIS-L	T-CVL, T-ESL, T-ESA-L, T-ESB-L, T-FC-L, T-SESL, T-UASL
	RFI-L	(Far-End):T-CVL, T-ESL, T-ESA-L, T-ESB-L, T-FC-L, T-SESL, T-UASL

Facility Type	Facility Failure	Threshold Crossing Alerts (TCAs) Affected
OC3	LOS or LOF	T-CVS, T-ESS, T-ESA-S, T-ESB-S, T-LOSS, T-SEFS, T-SESS
	AIS-L	T-CVL, T-ESL, T-ESA-L, T-ESB-L, T-FC-L, T-SESL, T-UASL
	RFI-L	(Far-End):T-CVL, T-ESL, T-ESA-L, T-ESB-L, T-FC-L, T-SESL, T-UASL
EC1	LOS or LOF	T-LOSS, T-SEFS
	AIS-L	T-CVL, T-ESL, T-ESA-L, T-ESB-L, T-SESL, T-UASL
	RFI-L	(Far-End):T-ESL, T-FC-L, T-SESL, T-UASL
STS-1	AIS-P or LOP-P	T-ALS-P, T-CVP T-ESP, T-ESA-P, T-ESB-P, T-FC-P, T-SESP, T-UASP
	RFI-P	(Far-End):T-ALS-P, T-CVP, T-ESP, T-ESA-P, T-ESB-P, T-FC-P, T-SESP, T-UASP
STS-3C	AIS-P or LOP-P	T-ALS-P, T-CVP T-ESP, T-ESA-P, T-ESB-P, T-FC-P, T-SESP, T-UASP
	RFI-P	(Far-End):T-ALS-P, T-CVP, T-ESP, T-ESA-P, T-ESB-P, T-FC-P, T-SESP, T-UASP
VT1.5	AIS-V or LOP-V	T-ALS-V, T-CVV, T-ESV, T-ESA-V, T-ESB-V, T-FC-V, T-SESV, T-UASV
	RFI-V	(Far-End):T-ALS-V, T-CVV, T-ESV, T-ESA-V, T-ESB-V, T-FC-V, T-SESV, T-UASV
DS3	LOS	T-CVL, T-ESL, T-ESA-L, T-ESB-L, T-LOSS, T-SESL
	LOF or AIS	T-AISS, T-CVP, T-ESP, T-ESA-P, T-ESB-P, T-FC-P, T-SAS-P, T-SESP, T-UASP, T-CVCP-P, T-ESCP-P, T-ESACP-P, T-ESBCP-P, T-SESCP-P, T-UASCP-P
	RAI	(Far-End):T-CVCP-P, T-ESCP-P, T-ESACP-P, T-ESBCP-P, T-FCCP-P, T-SASCP-P, T-SESCP-P, T-UASCP-P
DS1	LOS	T-CVL, T-ESL, T-LOSS, T-SESL
	LOF, AIS, or AIS-CI	T-AISS, T-CVP, T-ESP, T-ESA-P, T-ESB-P, T-FC-P, T-SAS-P, T-SESP, T-UASP, T-ESNP, T-SESNP, T-UASNP
	RAI or RAI-CI	(Far-End):T-CSS, T-CVP, T-ESP, T-ESA-P, T-ESB-P, T-FC-P, T-SEFS, T-SESP, T-UASP, T-ESNP, T-SESNP, T-UASNP

Other TCAs for other PM parameters are not affected. Refer to Appendix F, Monitored PM Parameters for a list of all monitored PM parameters. Values are:

- | | |
|---|---|
| A | Allowed, specifies that threshold crossing alerts are to be generated regardless of whether the associated facility has failed. |
| R | Restricted, specifies that threshold crossing alerts for the affected PM parameters (see above) are not generated for the remainder of any 15-minute monitor period for which the associated facility has failed. |

REPTPMFILERDY {Y, N} Default: Addressing: Description:	REPORT PM FILE READY {Already Existing Value} None Report PM File Ready is a flag that indicates if the event message of PMFILERDY needs to be generated and displayed to the customer. Values are: Y Yes, the transient event PMFILERDY message needs to be generated and displayed. N No, the transient event PMFILERDY message does not need to be generated and displayed.
---	---

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid /* Invalid TCA entered. */ /* Invalid REPTPMFILERDY entered. */
SDBE	Status, internal Data Base Error /* Error reading pm attribute database. */ /* Error updating pm attribute database. */

EXAMPLES

In the following example, threshold crossing alerts (TCAs) for all affected PM parameters for all ports in the system are restricted during the remainder of any 15-minute monitoring time period for which a facility failure is detected on an associated facility.

```
SET-PMATTR-ALL:::R;
```

RELATED COMMANDS

INIT-REG-EC1
INIT-REG-OC3
INIT-REG-OC12
INIT-REG-STs1
INIT-REG-STs3C
INIT-REG-T1
INIT-REG-T3
INIT-REG-VT1
RTRV-PM-EC1
RTRV-PM-OC3
RTRV-PM-OC12
RTRV-PM-STs1
RTRV-PM-STs3C
RTRV-PM-T1
RTRV-PM-T3
RTRV-PM-VT1
RTRV-PMATTR-ALL
RTRV-PMODE-EC1
RTRV-PMODE-OC3
RTRV-PMODE-OC12
RTRV-PMODE-STs1
RTRV-PMODE-STs3C
RTRV-PMODE-T1
RTRV-PMODE-T3
RTRV-PMODE-VT1
RTRV-TH-EC1
RTRV-TH-OC3
RTRV-TH-OC12
RTRV-TH-STs1
RTRV-TH-STs3C
RTRV-TH-T1
RTRV-TH-T3
RTRV-TH-VT1
SET-PMODE-EC1
SET-PMODE-OC3
SET-PMODE-OC12
SET-PMODE-STs1
SET-PMODE-STs3C
SET-PMODE-T1
SET-PMODE-T3
SET-PMODE-VT1
SET-TH-EC1
SET-TH-OC3
SET-TH-OC12
SET-TH-STs1
SET-TH-STs3C
SET-TH-T1
SET-TH-T3
SET-TH-VT1

RELATED AUTONOMOUS RESPONSES

REPT^EVT^EC1

REPT^EVT^OC3
REPT^EVT^OC12
REPT^EVT^STS1
REPT^EVT^STS3C
REPT^EVT^T1
REPT^EVT^T3
REPT^EVT^VT1

COMMAND CODE: **SET-PMMODE-EC1**
COMMAND NAME: **SET PERFORMANCE MONITORING
MODE EC1**

PURPOSE

The SET-PMMODE-EC1 command sets the mode of PM data collection for the specified EC1 port. The command enables or disables PM data collection for the specified type (Section, Line, or both) of PM data.

Executing a SET-PMMODE-EC1 command with PMSTATE of OFF specified sets an EC1 SST of PMI for the specified EC1 port. Executing a SET-PMMODE-EC1 command with PMSTATE of ON specified clears the EC1 SST of PMI for the specified EC1 port.

If the SET-PMMODE-EC1 command is set to PMSTATE=OFF for an entire 15-minute period and no PM occurs on that port, and if the PMSTATE is set to ON within several minutes after the 15-minute period, then the retrieved VLDTY value (via RTRV-PM-EC1) for the previous 15-minute period *may not* be displayed as OFF.

A SET-PMMODE-EC1 command is denied if:

- The specified EC1 port is not provisioned (via ENT-EC1).
- PM data collection is already enabled for the specified EC1 port and PMSTATE of ON is entered, or PM data collection is already disabled (a EC1 SST of PMI) for the specified EC1 port and PMSTATE of OFF is entered, unless a range of EC1 ports is specified.
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

SET-PMMODE-EC1 : [TID] : AID : [CTAG] : : LOCN, MODETYPE, [PMSTATE] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	EC1_AID: {EC1-{1-3840} } (EC1-EC1/STS1#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: EC1 AID, identifies the EC1 port.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
LOCN	{ALL, FEND, NEND} Default: Entry Required Addressing: None Description: Location, specifies the location where the PM parameter is monitored. Values are: ALL All applicable locations FEND Far-End NEND Near-End Restrictions: SET-PMMODE-EC1 is denied if LOCN of FEND and MODETYPE of S is entered.

MODETYPE	{ALL, L, S}	
	Default:	Entry Required
	Addressing:	None
	Description:	Mode Type, specifies the type of PM parameters to be monitored for the entity. Values are:
	ALL	All applicable Line and Section PM parameters are to be monitored.
	L	Line, only Line PM parameters are to be monitored.
	S	Section, only Section PM parameters are to be monitored.
	Restrictions:	SET-PMMODE-EC1 is denied if MODETYPE of S and LOCN of FEND is entered.
PMSTATE	{OFF, ON}	
	Default:	{ON}
	Addressing:	None
	Description:	PM State, specifies whether the PM data collection for the specified mode type (MODETYPE) is enabled or disabled. Values are:
	ON	On, enable PM data collection for the specified MODETYPE.
	OFF	Off, disable PM data collection for the specified MODETYPE.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  /* EC1 PMMODE Database updated. */
  /* Error occurred while provisioning equipment. */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid	/* Invalid location in request message. */
		/* Invalid modetype in request message. */
		/* Modetype P is not valid for EC1. */
		/* Modetype S with Location FEND is not valid for EC1. */
		/* Invalid pmstate in request message. */
		/* Invalid pm mode in request message. */
IIAC	Input, Invalid ACcess identifier	/* AID not in Partition. */
		/* Invalid AID entered. */
SAIN	Status, Already INhibited	/* PMSTATE is already OFF. */
SAOP	Status Already OPerated	/* PMSTATE is already ON. */

SDBE Status, internal Data Base Error
 /* Failed to set pointer to FM EC1 record. */
 /* Error <errno> reading from PMMODE database. */
 /* Error <errno> writing to PMMODE database. */

SNVS Status, Not in Valid State
 /* Facility is unprovisioned. */
 /* AID not as provisioned. */

SROF Status, Requested Operation Failed
 /* Unable to determine facility type.*/
 /* Unable to determine supporting facility entity. */
 /* Unable to process request for tp type <TP_TYPE>. */
 /* EC1 PMMODE Database updated. */
 /* Could not get controlling level 2 processor id. */
 /* Unable to allocate memory for user data. */

EXAMPLES

In the following example, the collection of all PM data is disabled for EC1 port EC1–340.

```
SET-PMODE-EC1::EC1-340:::ALL,ALL,OFF;
```

In the following example, the collection of near–end and far–end line PM data is enabled for EC1 port EC1–340.

```
SET-PMODE-EC1::EC1-340:::ALL,L,ON;
```

RELATED COMMANDS

```
ENT-EC1  
INIT-REG-EC1  
RTRV-DFLTTH-EC1  
RTRV-PM-EC1  
RTRV-PMATTR-ALL  
RTRV-PMODE-EC1  
RTRV-TH-EC1  
SET-DFLTTH-EC1  
SET-PMATTR-ALL  
SET-TH-EC1
```

RELATED AUTONOMOUS RESPONSES

```
REPT^EVT^EC1
```


COMMAND CODE: **SET-PMMODE-F3**
COMMAND NAME: **SET PERFORMANCE MONITORING
MODE F3**

PURPOSE

The SET-PMMODE-F3 command sets the mode of PM data collection for the specified Fractional-T3 (F3). The command enables or disables PM data collection for the specified type (Line, Path, or both) of PM data.

Executing a SET-PMMODE-F3 command with PMSTATE of OFF specified sets a F3 SST of PMI for the specified Fractional-T3. Executing a SET-PMMODE-F3 command with PMSTATE of ON specified clears the F3 SST of PMI for the specified Fractional-T3.

If the SET-PMMODE-F3 command is set to PMSTATE=OFF for an entire 15-minute period and no PM occurs on that port, and if the PMSTATE is set to ON within several minutes after the 15-minute period, then the retrieved VLDTY value (via RTRV-PM-F3) for the previous 15-minute period *may not* be displayed as OFF.

A SET-PMMODE-F3 command is denied if:

- The specified Fractional-T3 is not provisioned (via ENT-F3).
- PM data collection is already enabled for the specified Fractional-T3 and PMSTATE of ON is entered, or PM data collection is already disabled (a F3 SST of PMI) for the specified Fractional-T3 and PMSTATE of OFF is entered, unless a range of Fractional-T3s is specified.
- An invalid parameter value is entered.

INPUT FORMAT

SET-PMMODE-F3 : [TID] : AID : [CTAG] : : LOCN, MODETYPE, [PMSTATE] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	F3_AID: {T3F3-{1-4800}-{1-14}} (T3F3-DS3#-Fractional_DS3#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: F3 AID, identifies the Fractional-T3.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
LOCN	{ALL, NEND} Default: Entry Required Addressing: None Description: Location, specifies the location where the PM parameters are monitored. Value is: ALL All applicable locations NEND Near-End

MODETYPE	{ALL, N}	
	Default:	Entry Required
	Addressing:	None
	Description:	Mode Type, specifies the type of PM parameters to be monitored for the entity. Values are:
	ALL	All applicable Path PM parameters are to be monitored and summarized for all DS1s assigned to the F3.
	N	N T1 Path, Path PM parameters are to be monitored and summarized for all DS1s assigned to the F3.
PMSTATE	{OFF, ON}	
	Default:	{ON}
	Addressing:	None
	Description:	PM State, specifies whether the PM data collection for the specified mode type (MODETYPE) is enabled or disabled. Values are:
	ON	On, enable PM data collection for the specified MODETYPE.
	OFF	Off, disable PM data collection for the specified MODETYPE.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  /* F3 PPMODE Database updated. */
  /* Error occurred while provisioning equipment. */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid
	/* Invalid location in request message. */
	/* Invalid modetype in request message. */
	/* Location FEND is not valid for F3. */
	/* Modetype S is not valid for F3 */
	/* Modetype L is not valid for F3. */
	/* Invalid pmstate in request message. */
IIAC	Input, Invalid ACcess identifier
	/* AID not in Partition. */
	/* Invalid AID entered. */
SAIN	Status, Already INhibited
	/* PMSTATE is already OFF. */
SAOP	Status Already OPerated
	/* PMSTATE is already ON. */

SDBE	Status, internal Data Base Error /* Failed to set pointer to FM F3 record. */ /* Error <ERRNO> reading from PMMODE database. */ /* Error <ERRNO> writing to PMMODE database. */
SNVS	Status, Not in Valid State /* Facility is unprovisioned. */ /* AID not as provisioned. */
SROF	Status, Requested Operation Failed /* Unable to determine facility type.*/ /* Unable to determine supporting facility entity. */ /* Unable to process request for tp type <TP_TYPE>. */ /* F3 PMMODE Database updated. */ /* Could not get controlling level 2 processor id. */ /* Unable to allocate memory for user data. */

EXAMPLES

In the following example, the collection of all PM data is disabled for Fractional-T3 T3F3-1297-4.

```
SET-PMODE-F3::T3F3-1297-4:::ALL,ALL,OFF;
```

In the following example, the collection of PM data is enabled for Fractional-T3 T3F3-1297-4.

```
SET-PMODE-F3::T3F3-1297-4:::ALL,N,ON;
```

RELATED COMMANDS

```
ENT-F3  
INIT-REG-F3  
RTRV-PM-F3  
RTRV-PMODE-F3
```


COMMAND CODE: SET-PMMODE-OC12
COMMAND NAME: SET PERFORMANCE MONITORING
MODE OC-12

PURPOSE

The SET-PMMODE-OC12 command sets the mode of PM data collection for the specified OC-12 port. The command enables or disables PM data collection for the specified type (Section, Line, or both) of PM data.

Executing a SET-PMMODE-OC12 command with PMSTATE of OFF specified sets an OC-12 SST of PMI for the specified OC-12 port. Executing a SET-PMMODE-OC12 command with PMSTATE of ON specified clears the OC-12 SST of PMI for the specified OC-12 port.

If the SET-PMMODE-OC12 command is set to PMSTATE=OFF for an entire 15-minute period and no PM occurs on that port, and if the PMSTATE is set to ON within several minutes after the 15-minute period, then the retrieved VLDTY value (via RTRV-PM-OC12) for the previous 15-minute period *may not* be displayed as OFF.

A SET-PMMODE-OC12 command is denied if:

- The specified OC-12 port is not provisioned (via ENT-OC12).
- PM data collection is already enabled for the specified OC-12 port and PMSTATE of ON is entered, or PM data collection is already disabled (an OC-12 SST of PMI) for the specified OC-12 port and PMSTATE of OFF is entered, unless a range of OC-12 ports is specified.
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

SET-PMMODE-OC12 : [TID] : AID : [CTAG] : : LOCN, MODETYPE, [PMSTATE] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	OC12_AID: {OC12-{1-560}} (OC12-OC12#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: OC12 AID, identifies the OC-12 port.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
LOCN	{ALL, FEND, NEND} Default: Entry Required Addressing: None Description: Location, specifies the location where the PM parameter is monitored. Values are: ALL All applicable locations FEND Far-End NEND Near-End Restrictions: SET-PMMODE-OC12 is denied if LOCN of FEND and MODETYPE of S is entered.

MODETYPE	{ALL, L, S}	
	Default:	Entry Required
	Addressing:	None
	Description:	Mode Type, specifies the type of PM parameters to be monitored for the entity. Values are:
	ALL	All applicable Line and Section PM parameters are to be monitored.
	L	Line, only Line PM parameters are to be monitored.
	S	Section, only Section PM parameters are to be monitored.
	Restrictions:	SET-PMMODE-OC12 is denied if MODETYPE of S and LOCN of FEND is entered.
PMSTATE	{OFF, ON}	
	Default:	{ON}
	Addressing:	None
	Description:	PM State, specifies whether the PM data collection for the specified mode type (MODETYPE) is enabled or disabled. Values are:
	ON	On, enable PM data collection for the specified MODETYPE.
	OFF	Off, disable PM data collection for the specified MODETYPE.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  /* OC12 PMMODE Database updated. */
  /* Error occurred while provisioning equipment. */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid	/* Invalid location in request message. */
		/* Invalid modetype in request message. */
		/* Modetype P is not valid for OC12. */
		/* Modetype S with Location FEND is not valid for OC12. */
		/* Invalid pmstate in request message. */
		/* Invalid pm mode in request message. */
IIAC	Input, Invalid ACcess identifier	/* AID not in Partition. */
		/* Invalid AID entered. */
SAIN	Status, Already INhibited	/* PMSTATE is already OFF. */
SAOP	Status Already OPerated	/* PMSTATE is already ON. */

SDBE	Status, internal Data Base Error /* Failed to set pointer to FM OC12 record. */ /* Error <ERRNO> reading from PMMODE database. */ /* Error <ERRNO> writing to PMMODE database. */
SNVS	Status, Not in Valid State /* Facility is unprovisioned. */ /* AID not as provisioned. */
SROF	Status, Requested Operation Failed /* Unable to determine facility type.*/ /* Unable to determine supporting facility entity. */ /* Unable to process request for tp type <TP_TYPE>. */ /* OC12 PMMODE Database updated. */ /* Could not get controlling level 2 processor id. */ /* Unable to allocate memory for user data. */

EXAMPLES

In the following example, the collection of all PM data is disabled for OC–12 port OC12–117.

```
SET-PMODE-OC12::OC12-117:::ALL,ALL,OFF;
```

In the following example, the collection of near–end and far–end line PM data is enabled for OC–12 port OC12–117.

```
SET-PMODE-OC12::OC12-117:::ALL,L,ON;
```

RELATED COMMANDS

```
ENT-OC12  
INIT-REG-OC12  
RTRV-DFLTTH-OC12  
RTRV-PM-OC12  
RTRV-PMATTR-ALL  
RTRV-PMODE-OC12  
RTRV-TH-OC12  
SET-DFLTTH-OC12  
SET-PMATTR-ALL  
SET-TH-OC12
```

RELATED AUTONOMOUS RESPONSES

```
REPT^EVT^OC12
```


COMMAND CODE: **SET-PMMODE-OC3**
COMMAND NAME: **SET PERFORMANCE MONITORING
MODE OC-3**

PURPOSE

The SET-PMMODE-OC3 command sets the mode of PM data collection for the specified OC-3 port. The command enables or disables PM data collection for the specified type (Section, Line, or both) of PM data.

Executing a SET-PMMODE-OC3 command with PMSTATE of OFF specified sets an OC-3 SST of PMI for the specified OC-3 port. Executing a SET-PMMODE-OC3 command with PMSTATE of ON specified clears the OC-3 SST of PMI for the specified OC-3 port.

If the SET-PMMODE-OC3 command is set to PMSTATE=OFF for an entire 15-minute period and no PM occurs on that port, and if the PMSTATE is set to ON within several minutes after the 15-minute period, then the retrieved VLDTY value (via RTRV-PM-OC3) for the previous 15-minute period *may not* be displayed as OFF.

A SET-PMMODE-OC3 command is denied if:

- The specified OC-3 port is not provisioned (via ENT-OC3).
- PM data collection is already enabled for the specified OC-3 port and PMSTATE of ON is entered, or PM data collection is already disabled (an OC-3 SST of PMI) for the specified OC-3 port and PMSTATE of OFF is entered, unless a range of OC-3 ports is specified.
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

SET-PMMODE-OC3 : [TID] : AID : [CTAG] : : LOCN, MODETYPE, [PMSTATE] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	OC3_AID: {OC3-{1-2240}} (OC3-OC3#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: OC3 AID, identifies the OC-3 port.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
LOCN	{ALL, FEND, NEND} Default: Entry Required Addressing: None Description: Location, specifies the location where the PM parameter is monitored. Values are: ALL All applicable locations FEND Far-End NEND Near-End Restrictions: SET-PMMODE-OC3 is denied if LOCN of FEND and MODETYPE of S is entered.

MODETYPE	{ALL, L, S}	
	Default:	Entry Required
	Addressing:	None
	Description:	Mode Type, specifies the type of PM parameters to be monitored for the entity. Values are:
	ALL	All applicable Line and Section PM parameters are to be monitored.
	L	Line, only Line PM parameters are to be monitored.
	S	Section, only Section PM parameters are to be monitored.
	Restrictions:	SET-PMMODE-OC3 is denied if MODETYPE of S and LOCN of FEND is entered.
PMSTATE	{OFF, ON}	
	Default:	{ON}
	Addressing:	None
	Description:	PM State, specifies whether the PM data collection for the specified mode type (MODETYPE) is enabled or disabled. Values are:
	ON	On, enable PM data collection for the specified MODETYPE.
	OFF	Off, disable PM data collection for the specified MODETYPE.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  /* OC3 PMMODE Database updated. */
  /* Error occurred while provisioning equipment. */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid	/* Invalid location in request message. */
		/* Invalid modetype in request message. */
		/* Modetype P is not valid for OC3. */
		/* Modetype S with Location FEND is not valid for OC3. */
		/* Invalid pmstate in request message. */
		/* Invalid pm mode in request message. */
IIAC	Input, Invalid ACcess identifier	/* AID not in Partition. */
		/* Invalid AID entered. */
SAIN	Status, Already INhibited	/* PMSTATE is already OFF. */
SAOP	Status Already OPerated	/* PMSTATE is already ON. */

SDBE Status, internal Data Base Error
 /* Failed to set pointer to FM OC3 record. */
 /* Error <ERRNO> reading from PMMODE database. */
 /* Error <ERRNO> writing to PMMODE database. */

SNVS Status, Not in Valid State
 /* Facility is unprovisioned. */
 /* AID not as provisioned. */

SROF Status, Requested Operation Failed
 /* Unable to determine facility type.*/
 /* Unable to determine supporting facility entity. */
 /* Unable to process request for tp type <TP_TYPE>. */
 /* OC3 PMMODE Database updated. */
 /* Could not get controlling level 2 processor id. */
 /* Unable to allocate memory for user data. */

EXAMPLES

In the following example, the collection of all PM data is disabled for OC–3 port OC3–117.

```
SET-PMODE-OC3::OC3-117:::ALL,ALL,OFF;
```

In the following example, the collection of near–end and far–end line PM data is enabled for OC–3 port OC3–117.

```
SET-PMODE-OC3::OC3-117:::ALL,L,ON;
```

RELATED COMMANDS

```
ENT-OC3  
INIT-REG-OC3  
RTRV-DFLTTH-OC3  
RTRV-PM-OC3  
RTRV-PMATTR-ALL  
RTRV-PMODE-OC3  
RTRV-TH-OC3  
SET-DFLTTH-OC3  
SET-PMATTR-ALL  
SET-TH-OC3
```

RELATED AUTONOMOUS RESPONSES

```
REPT^EVT^OC3
```


COMMAND CODE: **SET-PMMODE-STS1**
COMMAND NAME: **SET PERFORMANCE MONITORING
MODE STS-1**

PURPOSE

The SET-PMMODE-STS1 command sets the mode of PM data collection for the specified STS-1 port. The command enables or disables PM data collection for the specified type (Path) of PM data.

Executing a SET-PMMODE-STS1 command with PMSTATE of OFF specified sets an STS-1 SST of PMI for the specified STS-1 port. Executing a SET-PMMODE-STS1 command with PMSTATE of ON specified clears the STS-1 SST of PMI for the specified STS-1 port.

If the SET-PMMODE-STS1 command is set to PMSTATE=OFF for an entire 15-minute period and no PM occurs on that port, and if the PMSTATE is set to ON within several minutes after the 15-minute period, then the retrieved VLDTY value (via RTRV-PM-STS1) for the previous 15-minute period *may not* be displayed as OFF.

A SET-PMMODE-STS1 command is denied if:

- The specified STS-1 port is not provisioned (via ENT-STS1).
- The specified STS-1 port is embedded within a protection OC-3 or OC-12.
- PM data collection is already enabled for the specified STS-1 port and PMSTATE of ON is entered, or PM data collection is already disabled (an STS-1 SST of PMI) for the specified STS-1 port and PMSTATE of OFF is entered, unless a range of STS-1 ports is specified.
- An invalid parameter value is entered.

INPUT FORMAT

SET-PMMODE-STS1 : [TID] : AID : [CTAG] : : LOCN, MODETYPE, [PMSTATE] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >		
	Default:	<SID>	
	Addressing:	None	
	Description:	Target Identifier, specifies the network node TID for the command.	
AID	STS1_AID:		
	{EC1STS1-{1-3840}}	(EC1STS1-EC1/STS1#)	
	{OC3STS1-{1-2240}-{1-3}}	(OC3STS1-OC3#-STS1#)	
	{OC12STS1-{1-560}-{1-4}-{1-3}}	(OC12STS1-OC12#-STM1#-STS1#)	
	Default:	Entry Required	
	Addressing:	&&-ranging and &-grouping	
	Description:	STS1 AID, identifies the STS-1 port.	
CTAG	< 1-6 VALID CTAG CHARACTERS >		
	Default:	< System assigned CTAG value >	
	Addressing:	None	
	Description:	Correlation Tag, associates input command with its output responses.	
LOCN	{ALL, FEND, NEND}		
	Default:	Entry Required	
	Addressing:	None	
	Description:	Location, specifies the location where the PM parameter is monitored. Values are:	
	ALL	All applicable locations	
	FEND	Far-End	
	NEND	Near-End	

MODETYPE	{ALL, P}	
	Default:	Entry Required
	Addressing:	None
	Description:	Mode Type, specifies the type of PM parameters to be monitored for the entity. Values are:
	ALL	All applicable Path PM parameters are to be monitored.
	P	Path, only Path PM parameters are to be monitored.
PMSTATE	{OFF, ON}	
	Default:	{ON}
	Addressing:	None
	Description:	PM State, specifies whether the PM data collection for the specified mode type (MODETYPE) is enabled or disabled. Values are:
	ON	On, enable PM data collection for the specified MODETYPE.
	OFF	Off, disable PM data collection for the specified MODETYPE.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  /* STS1 PMMODE Database updated. */
  /* Error occurred while provisioning equipment. */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid	/* Invalid location in request message. */
		/* Invalid modetype in request message. */
		/* Modetype S is not valid for STS1. */
		/* Modetype L is not valid for STS1. */
		/* Invalid pmstate in request message. */
		/* Invalid pm mode in request message. */
IIAC	Input, Invalid ACcess identifier	/* AID not in Partition. */
		/* Invalid AID entered. */
SAIN	Status, Already INhibited	/* PMSTATE is already OFF. */
SAOP	Status Already OPerated	/* PMSTATE is already ON. */
SDBE	Status, internal Data Base Error	/* Failed to set pointer to FM STS1 record. */
		/* Error <ERRNO> reading from PMMODE database. */
		/* Error <ERRNO> writing to PMMODE database. */

SNVS Status, Not in Valid State
 /* Facility is unprovisioned. */
 /* AID not as provisioned. */

SROF Status, Requested Operation Failed
 /* Unable to determine facility type.*/
 /* Unable to determine supporting facility entity. */
 /* Unable to process request for tp type <TP_TYPE>. */
 /* STS1 PMMODE Database updated. */
 /* Could not get controlling level 2 processor id. */
 /* Unable to allocate memory for user data. */

EXAMPLES

In the following example, the collection of all PM data is disabled for STS–1 port EC1STS1–340.

```
SET-PMODE-STS1 : : EC1STS1-340 : : ALL, ALL, OFF;
```

In the following example, the collection of PM data is enabled for STS–1 port EC1STS1–340.

```
SET-PMODE-STS1 : : EC1STS1-340 : : ALL, P, ON;
```

RELATED COMMANDS

ENT-STS1
INIT-REG-STS1
RTRV-DFLTTH-STS1
RTRV-PM-STS1
RTRV-PMATTR-ALL
RTRV-PMODE-STS1
RTRV-TH-STS1
SET-DFLTTH-STS1
SET-PMATTR-ALL
SET-TH-STS1

RELATED AUTONOMOUS RESPONSES

REPT^EVT^STS1

COMMAND CODE: **SET-PMMODE-STS3C**
COMMAND NAME: **SET PERFORMANCE MONITORING
MODE STS-3C**

PURPOSE

The SET-PMMODE-STS3C command sets the mode of PM data collection for the specified STS-3C port. The command enables or disables PM data collection for the specified type (Path) of PM data.

Executing a SET-PMMODE-STS3C command with PMSTATE of OFF specified sets an STS-3C SST of PMI for the specified STS-3C port. Executing a SET-PMMODE-STS3C command with PMSTATE of ON specified clears the STS-3C SST of PMI for the specified STS-3C port.

If the SET-PMMODE-STS3C command is set to PMSTATE=OFF for an entire 15-minute period and no PM occurs on that port, and if the PMSTATE is set to ON within several minutes after the 15-minute period, then the retrieved VLDTY value (via RTRV-PM-STS3C) for the previous 15-minute period *may not* be displayed as OFF.

A SET-PMMODE-STS3C command is denied if:

- The specified STS-3C port is not provisioned (via ENT-STS3C).
- The specified STS-3C port is embedded within a protection OC-3 or OC-12.
- PM data collection is already enabled for the specified STS-3C port and PMSTATE of ON is entered, or PM data collection is already disabled (an STS-3C SST of PMI) for the specified STS-3C port and PMSTATE of OFF is entered, unless a range of STS-3C ports is specified.
- An invalid parameter value is entered.

INPUT FORMAT

SET-PMMODE-STS3C: [TID] :AID: [CTAG] : :LOCN,MODETYPE, [PMSTATE] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
AID	STS3C_AID: {OC3STS3C-{1-2240}} (OC3STS3C-OC3#/STS3C#) {OC12STS3C-{1-560}-{1-4}} (OC12STS3C-OC12#-STM1/STS3C#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: STS3C AID, identifies the STS-3C port.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
LOCN	{ALL, FEND, NEND} Default: < All applicable locations > Addressing: None Description: Location, specifies the location where the PM parameter is monitored. Values are: ALL All applicable locations FEND Far-End NEND Near-End

MODETYPE	{ALL, P}	
	Default:	{ALL}
	Addressing:	None
	Description:	Mode Type, specifies the type of PM parameters to be monitored for the entity. Values are:
	ALL	All applicable Path PM parameters are to be monitored.
	P	Path, only Path PM parameters are to be monitored.
PMSTATE	{OFF, ON}	
	Default:	{ON}
	Addressing:	None
	Description:	PM State, specifies whether the PM data collection for the specified mode type (MODETYPE) is enabled or disabled. Values are:
	ON	On, enable PM data collection for the specified MODETYPE.
	OFF	Off, disable PM data collection for the specified MODETYPE.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  /* STS3C PMMODE Database updated. */
  /* Error occurred while provisioning equipment. */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid
	/* Invalid location in request message. */
	/* Invalid modetype in request message. */
	/* Modetype S is not valid for STS3C. */
	/* Modetype L is not valid for STS3C. */
	/* Invalid pmstate in request message. */
	/* Invalid pm mode in request message. */
IIAC	Input, Invalid ACcess identifier
	/* AID not in Partition. */
	/* Invalid AID entered. */
IPMS	Input, Parameter MiSsing
SAIN	Status, Already INhibited
	/* PMSTATE is already OFF. */
SAOP	Status Already OPerated
	/* PMSTATE is already ON. */
SDBE	Status, internal Data Base Error
	/* Failed to set pointer to FM STS3C record. */
	/* Error <ERRNO> reading from PMMODE database. */
	/* Error <ERRNO> writing to PMMODE database. */

SNVS Status, Not in Valid State
 /* Facility is unprovisioned. */
 /* AID not as provisioned. */
SROF Status, Requested Operation Failed
 /* Unable to determine facility type.*/
 /* Unable to determine supporting facility entity. */
 /* Unable to process request for tp type <TP_TYPE>. */
 /* STS3C PMMODE Database updated. */
 /* Could not get controlling level 2 processor id. */
 /* Unable to allocate memory for user data. */

EXAMPLES

In the following example, the collection of all PM data is disabled for STS-3C port OC3STS3C-8.

```
SET-PMODE-STS3C: :OC3STS3C-8: : :ALL, ALL, OFF;
```

In the following example, the collection of PM data is enabled for STS-3C port OC3STS3C-8.

```
SET-PMODE-STS3C: :OC3STS3C-8: : :ALL, P, ON;
```

RELATED COMMANDS

```
ENT-STS3C  
INIT-REG-STS3C  
RTRV-DFLTTH-STS3C  
RTRV-PM-STS3C  
RTRV-PMATTR-ALL  
RTRV-PMODE-STS3C  
RTRV-TH-STS3C  
SET-DFLTTH-STS3C  
SET-PMATTR-ALL  
SET-TH-STS3C
```

RELATED AUTONOMOUS RESPONSES

```
REPT^EVT^STS3C
```


COMMAND CODE: **SET-PMMODE-T1**
COMMAND NAME: **SET PERFORMANCE MONITORING
MODE T1**

PURPOSE

The SET-PMMODE-T1 command sets the mode of PM data collection for the specified DS1 port. The command enables or disables PM data collection for the specified type (Line, Path, or both) of PM data.

Executing a SET-PMMODE-T1 command with PMSTATE of OFF specified sets a DS1 SST of PMI for the specified DS1 port. Executing a SET-PMMODE-T1 command with PMSTATE of ON specified clears the DS1 SST of PMI for the specified DS1 port.

If the SET-PMMODE-T1 command is set to PMSTATE=OFF for an entire 15-minute period and no PM occurs on that port, and if the PMSTATE is set to ON within several minutes after the 15-minute period, then the retrieved VLDTY value (via RTRV-PM-T1) for the previous 15-minute period *may not* be displayed as OFF.

A SET-PMMODE-T1 command is denied if:

- The specified DS1 port is not provisioned (via ENT-T1).
- The specified DS1 port is embedded within a protection OC3.
- PM data collection is already enabled for the specified DS1 port and PMSTATE of ON is entered, or PM data collection is already disabled (a DS1 SST of PMI) for the specified DS1 port and PMSTATE of OFF is entered, unless a range of DS1 ports is specified.
- An invalid parameter value or combination of parameter values is entered.

NOTE: If a LOCN of ALL or FEND, a MODETYPE of P or ALL and a PMSTATE of ON is selected, it is also necessary to execute an ENT-T1 command with an FEMETHOD value other than NONE (ie, either ANSI or ATPOLL) to enable collection of far end T1 PM data.

INPUT FORMAT

SET-PMMODE-T1 : [TID] : AID : [CTAG] : : LOCN, MODETYPE, [PMSTATE] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >	
	Default:	<SID>
	Addressing:	None
	Description:	Target Identifier, specifies the network node TID for the command.
AID	DS1_AID:	
	{T1-{1-59392}}	(T1-DS1#)
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)
	{EC1T1-{1-3840}-{1-28}}	(EC1T1-EC1/STS1/DS3#-DS1#)
	{EC1T1-{1-3840}-{1-7}-{1-4}}	(EC1T1-EC1/STS1#-VTGrp#-VT1/DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3T1-OC3#-STS1#-VTGrp#-VT1/DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-28}}	(OC3T1-OC3#-STS1/DS3#-DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}	(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	(OC12T1-OC12#-STM1#-STS1#-VTGrp#-VT1/DS1#)
	Default:	Entry Required
	Addressing:	&&-ranging and &-grouping
	Description:	DS1 AID, identifies the DS1 port.
	Restrictions:	SET-PMMODE-T1 is denied if the specified AID identifies an embedded DS1 and MODETYPE of L is entered.
CTAG	< 1-6 VALID CTAG CHARACTERS >	
	Default:	< System assigned CTAG value >
	Addressing:	None
	Description:	Correlation Tag, associates input command with its output responses.

LOCN	{ALL, FEND, NEND}	
	Default:	Entry Required
	Addressing:	None
	Description:	Location, specifies the location where the PM parameter is monitored. Values are:
	ALL	All applicable locations
MODETYPE	FEND	Far-End
	NEND	Near-End
	Restrictions:	SET-PMMODE-T1 is denied if a value of LOCN=FEND is used and the "FDL based Far End Performance Monitoring" PFO is not enabled.
	{ALL, L, P}	
	Default:	Entry Required
	Addressing:	None
	Description:	Mode Type, specifies the type of PM parameters to be monitored for the entity. Values are:
	ALL	All applicable Line and Path PM parameters are to be monitored.
	L	Line, only Line PM parameters are to be monitored.
	P	Path, only Path PM parameters are to be monitored.
PMSTATE	Restrictions:	SET-PMMODE-T1 is denied if MODETYPE of L is entered and the specified AID identifies an embedded DS1.
	{OFF, ON}	
	Default:	{ON}
	Addressing:	None
	Description:	PM State, specifies whether the PM data collection for the specified mode type (MODETYPE) is enabled or disabled. Values are:
	ON	On, enable PM data collection for the specified MODETYPE.
	OFF	Off, disable PM data collection for the specified MODETYPE.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  /* T1 PMMODE Database updated. */
  /* Error occurred while provisioning equipment. */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid /* Invalid location in request message. */ /* Invalid modetype in request message. */ /* Modetype S is not valid for T1. */ /* Modetype L with Location NEND is not valid for embedded T1. */ /* Invalid pmstate in request message. */ /* Invalid pm mode in request message. */
IIAC	Input, Invalid ACcess identifier /* AID not in Partition. */ /* Invalid AID entered. */
SAIN	Status, Already INhibited /* PMSTATE is already OFF. */
SAOP	Status Already OPerated /* PMSTATE is already ON. */
SDBE	Status, internal Data Base Error /* Failed to set pointer to FM T1 record. */ /* Error <ERRNO> reading from PMMODE database. */ /* Error <ERRNO> writing to PMMODE database. */
SNVS	Status, Not in Valid State /* Facility is unprovisioned. */ /* AID not as provisioned. */
SROF	Status, Requested Operation Failed /* Unable to determine facility type.*/ /* Unable to determine supporting facility entity. */ /* Unable to process request for tp type <TP_TYPE>. */ /* T1 PMMODE Database updated. */ /* Could not get controlling level 2 processor id. */ /* Unable to allocate memory for user data. */

EXAMPLES

In the following example, the collection of all PM data is disabled for DS1 port T3T1-1297-4.

```
SET-PMODE-T1::T3T1-1297-4:::ALL,ALL,OFF;
```

In the following example, the collection of near-end and far-end path PM data is enabled for DS1 port T3T1-1297-4.

```
SET-PMODE-T1::T3T1-1297-4:::ALL,P,ON;
```

RELATED COMMANDS

ENT-T1

INIT-REG-T1

RTRV-DFLTTH-T1

RTRV-PM-T1

RTRV-PMATTR-ALL

RTRV-PMODE-T1

RTRV-TH-T1

SET-DFLTTH-T1

SET-PMATTR-ALL

SET-TH-T1

RELATED AUTONOMOUS RESPONSES

REPT^EVT^T1

COMMAND CODE: **SET-PMMODE-T3**
COMMAND NAME: **SET PERFORMANCE MONITORING
MODE T3**

PURPOSE

The SET-PMMODE-T3 command sets the mode of PM data collection for the specified DS3 port. The command enables or disables PM data collection for the specified type (Line, Path, or both) of PM data.

Executing a SET-PMMODE-T3 command with PMSTATE of OFF specified sets a DS3 SST of PMI for the specified DS3 port. Executing a SET-PMMODE-T3 command with PMSTATE of ON specified clears the DS3 SST of PMI for the specified DS3 port.

If the SET-PMMODE-T3 command is set to PMSTATE=OFF for an entire 15-minute period and no PM occurs on that port, and if the PMSTATE is set to ON within several minutes after the 15-minute period, then the retrieved VLDTY value (via RTRV-PM-T3) for the previous 15-minute period *may not* be displayed as OFF.

A SET-PMMODE-T3 command is denied if:

- The specified DS3 port is not provisioned (via ENT-T3).
- The specified DS3 port is embedded within a protection OC-3 or OC-12.
- PM data collection is already enabled for the specified DS3 port and PMSTATE of ON is entered, or PM data collection is already disabled (a DS3 SST of PMI) for the specified DS3 port and PMSTATE of OFF is entered, unless a range of DS3 ports is specified.
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

SET-PMMODE-T3 : [TID] : AID : [CTAG] : : LOCN, MODETYPE, [PMSTATE] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >		
	Default:	<SID>	
	Addressing:	None	
	Description:	Target Identifier, specifies the network node TID for the command.	
AID	DS3_AID:		
	{T3-{1-4800}}	(T3-DS3#)	
	{EC1T3-{1-3840}}	(EC1T3-EC1/STS1/DS3#)	
	{OC3T3-{1-2240}-{1-3}}	(OC3T3-OC3#-STS1/DS3#)	
	{OC12T3-{1-560}-{1-4}-{1-3}}	(OC12T3-OC12#-STM1#-STS1/DS3#)	
	Default:	Entry Required	
	Addressing:	&&-ranging and &-grouping	
	Description:	DS3 AID, identifies the DS3 port.	
CTAG	< 1-6 VALID CTAG CHARACTERS >		
	Default:	< System assigned CTAG value >	
	Addressing:	None	
	Description:	Correlation Tag, associates input command with its output responses.	
LOCN	{ALL, FEND, NEND}		
	Default:	Entry Required	
	Addressing:	None	
	Description:	Location, specifies the location where the PM parameter is monitored. Values are:	
	ALL	All applicable locations	
	FEND	Far-End	
	NEND	Near-End	
	Restrictions:	SET-PMMODE-T3 is denied if LOCN of FEND and MODETYPE of L is entered.	

MODETYPE	{ALL, L, P}	
	Default:	Entry Required
	Addressing:	None
	Description:	Mode Type, specifies the type of PM parameters to be monitored for the entity. Values are:
	ALL	All applicable Line and Path PM parameters are to be monitored.
	L	Line, only Line PM parameters are to be monitored.
	P	Path, only Path PM parameters are to be monitored.
	Restrictions:	SET-PMMODE-T3 is denied if MODETYPE of L and LOCN of FEND is entered.
PMSTATE	{OFF, ON}	
	Default:	{ON}
	Addressing:	None
	Description:	PM State, specifies whether the PM data collection for the specified mode type (MODETYPE) is enabled or disabled. Values are:
	ON	On, enable PM data collection for the specified MODETYPE.
	OFF	Off, disable PM data collection for the specified MODETYPE.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* T3 PMMODE Database updated. */]
  [/* Error occurred while provisioning equipment. */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid /* Invalid location in request message. */ /* Invalid modetype in request message. */ /* Invalid pmstate in request message. */ /* Invalid pm mode in request message. */ /* Modetype S is not valid for T3. */ /* Modetype L is not valid for embedded T3. */ /* Modetype L with Location FEND is not valid for T3. */
IIAC	Input, Invalid ACcess identifier /* AID not in Partition. */ /* Invalid AID entered. */
SAIN	Status, Already INhibited /* PMSTATE is already OFF. */
SAOP	Status Already OPERated /* PMSTATE is already ON. */
SDBE	Status, internal Data Base Error /* Failed to set pointer to FM T3 record. */ /* Error <ERRNO> reading from PMMODE database. */ /* Error <ERRNO> writing to PMMODE database. */
SNVS	Status, Not in Valid State /* Facility is unprovisioned. */ /* AID not as provisioned. */
SROF	Status, Requested Operation Failed /* Unable to determine facility type.*/ /* Unable to determine supporting facility entity. */ /* Unable to process request for tp type <TP_TYPE>. */ /* T3 PMMODE Database updated. */ /* Could not get controlling level 2 processor id. */ /* Unable to allocate memory for user data. */

EXAMPLES

In the following example, the collection of all PM data is disabled for DS3 port T3-1214.

```
SET-PMODE-T3::T3-1214:::ALL,ALL,OFF;
```

In the following example, the collection of near-end path PM data is enabled for DS3 port T3-1214.

```
SET-PMODE-T3::T3-1214:::NEND,P,ON;
```

RELATED COMMANDS

```
ENT-T3
INIT-REG-T3
RTRV-DFLTH-T3
RTRV-PM-T3
RTRV-PMATTR-ALL
RTRV-PMODE-T3
RTRV-TH-T3
SET-DFLTH-T3
SET-PMATTR-ALL
SET-TH-T3
```

3AL45392AJ

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RELATED AUTONOMOUS RESPONSES

REPT^EVT^T3

COMMAND CODE: **SET-PMMODE-VT1**
COMMAND NAME: **SET PERFORMANCE MONITORING
MODE VT1**

PURPOSE

The SET-PMMODE-VT1 command sets the mode of PM data collection for the specified VT1.5 port. The command enables or disables PM data collection for the specified type (Path) of PM data.

Executing a SET-PMMODE-VT1 command with PMSTATE of OFF specified sets a VT1.5 SST of PMI for the specified VT1.5 port. Executing a SET-PMMODE-VT1 command with PMSTATE of ON specified clears the VT1.5 SST of PMI for the specified VT1.5 port.

If the SET-PMMODE-VT1 command is set to PMSTATE=OFF for an entire 15-minute period and no PM occurs on that port, and if the PMSTATE is set to ON within several minutes after the 15-minute period, then the retrieved VLDTY value (via RTRV-PM-VT1) for the previous 15-minute period *may not* be displayed as OFF.

A SET-PMMODE-VT1 command is denied if:

- The specified VT1.5 port is not provisioned (via ENT-VT1).
- The specified VT1.5 port is embedded within a protection OC-3 or OC-12.
- PM data collection is already enabled for the specified VT1.5 port and PMSTATE of ON is entered, or PM data collection is already disabled (a VT1.5 SST of PMI) for the specified VT1.5 port and PMSTATE of OFF is entered, unless a range of VT1.5 ports is specified.
- An invalid parameter value is entered.

INPUT FORMAT

SET-PMMODE-VT1 : [TID] : AID : [CTAG] : : LOCN, MODETYPE, [PMSTATE] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >	
	Default:	<SID>
	Addressing:	None
	Description:	Target Identifier, specifies the network node TID for the command.
AID	VT1_AID:	
	{EC1VT1-{1-3840}-{1-7}-{1-4}}	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)
	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)
	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	
	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)	
	Default:	Entry Required
	Addressing:	&&-ranging and &-grouping
	Description:	VT1 AID, identifies the VT1.5 port.
CTAG	< 1-6 VALID CTAG CHARACTERS >	
	Default:	< System assigned CTAG value >
	Addressing:	None
	Description:	Correlation Tag, associates input command with its output responses.
LOCN	{ALL, FEND, NEND}	
	Default:	Entry Required
	Addressing:	None
	Description:	Location, specifies the location where the PM parameter is monitored. Values are:
	ALL	All applicable locations
	FEND	Far-End
	NEND	Near-End

MODETYPE	{ALL, P}	
	Default:	Entry Required
	Addressing:	None
	Description:	Mode Type, specifies the type of PM parameters to be monitored for the entity. Values are:
	ALL	All applicable Path PM parameters are to be monitored.
	P	Path, only Path PM parameters are to be monitored.
PMSTATE	{OFF, ON}	
	Default:	{ON}
	Addressing:	None
	Description:	PM State, specifies whether the PM data collection for the specified mode type (MODETYPE) is enabled or disabled. Values are:
	ON	On, enable PM data collection for the specified MODETYPE.
	OFF	Off, disable PM data collection for the specified MODETYPE.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  /* VT1 PMMODE Database updated. */
  /* Error occurred while provisioning equipment. */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid	/* Invalid location in request message. */
		/* Invalid modetype in request message. */
		/* Modetype S is not valid for VT1. */
		/* Modetype L is not valid for VT1. */
		/* Invalid pmstate in request message. */
		/* Invalid pm mode in request message. */
IIAC	Input, Invalid ACcess identifier	/* AID not in Partition. */
		/* Invalid AID entered. */
SAIN	Status, Already INhibited	/* PMSTATE is already OFF. */
SAOP	Status Already OPerated	/* PMSTATE is already ON. */
SDBE	Status, internal Data Base Error	/* Failed to set pointer to FM VT1 record. */
		/* Error <ERRNO> reading from PMMODE database. */
		/* Error <ERRNO> writing to PMMODE database. */

SNVS Status, Not in Valid State
 /* Facility is unprovisioned. */
 /* AID not as provisioned. */
SROF Status, Requested Operation Failed
 /* Unable to determine facility type.*/
 /* Unable to determine supporting facility entity. */
 /* Unable to process request for tp type <TP_TYPE>. */
 /* VT1 PMMODE Database updated. */
 /* Could not get controlling level 2 processor id. */
 /* Unable to allocate memory for user data. */

EXAMPLES

In the following example, the collection of all PM data is disabled for VT1.5 port EC1VT1-340-7-3.

```
SET-PMODE-VT1 : : EC1VT1-340-7-3 : : ALL, ALL, OFF;
```

In the following example, the collection of PM data is enabled for VT1.5 port EC1VT1-340-7-4.

```
SET-PMODE-VT1 : : EC1VT1-340-7-4 : : ALL, P, ON;
```

RELATED COMMANDS

```
ENT-VT1  
INIT-REG-VT1  
RTRV-DFLTTH-VT1  
RTRV-PM-VT1  
RTRV-PMATTR-ALL  
RTRV-PMODE-VT1  
RTRV-TH-VT1  
SET-DFLTTH-VT1  
SET-PMATTR-ALL  
SET-TH-VT1
```

RELATED AUTONOMOUS RESPONSES

```
REPT^EVT^VT1
```


COMMAND CODE: **SET-SID**
COMMAND NAME: **SET SITE IDENTIFIER**

PURPOSE

The SET-SID command is used to set the Site Identifier (SID) code that is compared to any Target Identifier (TID) value entered in a command.

The SID value can be entered as an upper or lower case value, but the system converts the entered SID value to upper case for comparison to any TID value (also converted to upper case) entered in a command.

The SET-SID command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

SET-SID: [TID] :: [CTAG] :: SID;

INPUT PARAMETERS

TID	< 1–20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1–6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
SID	<1–20 VALID SID CHARACTERS> Default: Entry Required Addressing: None Description: Site Identifier, specifies the new SID. The SID value can be up to 20 non–case sensitive alphanumeric characters, including the special dash (–) character. No other special characters are allowed. The SID must start with an alphabetic character and may include up to 4 non–consecutive dashes (–), but the SID cannot end with the special character dash (–). If a lower–case character string is entered for the SID, it is automatically converted to an upper–case character string for comparison to any TID value entered in a command.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
/* <SID> */
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
```

OUTPUT PARAMETERS

SID	<1–20 VALID SID CHARACTERS> Site Identifier, indicates the new SID.
-----	--

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Optional Suggested Action Text> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IBEX	Input, Block EXtra
IDNV	Input, Data Not Valid /* Illegal Input: SID */ /* Site ID must begin with a letter */
IISP	Input, Invalid Syntax or Punctuation /* Site ID must begin with a letter */ /* Illegal Input: SID length */
ISCH	Input, invalid Syntax invalid CHaracter /* Site ID must be alphanumeric or dash */ /* Illegal Input: <nnn> */
SDBE	Status, internal Data Base Error /* Unable to read plat_parm db record nnn – status = <status number> */
SROF	Status, Requested Operation Failed /* Platparm database error, status = <nnn> */ /* Unable to update plat_parm, db record nnn, status = <status number> */

EXAMPLES

In the following example, SET-SID is used to set the SID to AM1520.

```
SET-SID:::::AM1520;
```

The output response, shown below, assumes CID 1 was used to enter the command, a system generated CTAG value of P12010, and that the command was executed on 3/7/94 at 9:08:33 a.m.

```
AM1520 94-07-03 09:08:33
M P12010 COMPLD
/* AM1520 */
/* SET-SID:::::AM1520 [P12010] (1) */
;
```

RELATED COMMANDS

ED-DAT
RTRV-HDR

COMMAND CODE: **SET-SYNCN**
COMMAND NAME: **SET SYNCHRONIZATION MODE**

PURPOSE

The SET-SYNCN command sets the clock synchronization mode of the MCB clock subsystem.

A SET-SYNCN command is denied if:

- The MCB subsystem is provisioned for the internal timing reference mode of operation (refer to the MCB TMG parameter in the ED-EQPT command).
- An OPR-SYNCNSW command is currently active (OPR-SYNCNSW entered but not released via a RLS-SYNCNSW command).
- A SYNCMODE of FRNG, FST, or HLDOVR is entered and a FSTSYNC, FRNGSYNC, or HLDOVR-SYNC alarm / condition is already active.
- An invalid parameter value is entered.

INPUT FORMAT

SET-SYNCN: [TID] : AID: [CTAG] : : SYNCNMODE;

INPUT PARAMETERS

TID	< 1–20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.								
AID	EQUIPMENT_AID {MCB-{2,3}–3–1} {MCB-{5}–{1, 3}–{1}} Default: Entry Required Addressing: None Description: Equipment AID, identifies the equipment entity. Either copy of MCB can be specified. Refer to Appendix B, Access Identifiers (AIDs) for a definition of equipment mnemonics.								
CTAG	< 1–6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.								
SYNCNMODE	{FRNG, FST, HLDOVR, NORM} Default: Entry Required Addressing: None Description: Synchronization Mode, specifies the clock synchronization mode of the MCB clock subsystem. Values are: <table><tr><td>FRNG</td><td>Free Running, the master MCB operates in the Free Running clock synchronization mode and does not synchronize to any of the clock reference sources.</td></tr><tr><td>FST</td><td>Fast Acquisition, the master MCB operates in the Fast Acquisition clock synchronization mode to achieve fast synchronization to the Primary or Secondary clock reference source. The MCB remains in the Fast Acquisition mode until a SYNCNMODE of NORM is entered.</td></tr><tr><td>HLDOVR</td><td>Holdover, the master MCB operates in the Holdover clock synchronization mode maintaining the previously known clock frequency.</td></tr><tr><td>NORM</td><td>Normal, the master MCB operates in the Normal clock synchronization mode for slow tracking to the Primary or Secondary clock reference sources.</td></tr></table>	FRNG	Free Running, the master MCB operates in the Free Running clock synchronization mode and does not synchronize to any of the clock reference sources.	FST	Fast Acquisition, the master MCB operates in the Fast Acquisition clock synchronization mode to achieve fast synchronization to the Primary or Secondary clock reference source. The MCB remains in the Fast Acquisition mode until a SYNCNMODE of NORM is entered.	HLDOVR	Holdover, the master MCB operates in the Holdover clock synchronization mode maintaining the previously known clock frequency.	NORM	Normal, the master MCB operates in the Normal clock synchronization mode for slow tracking to the Primary or Secondary clock reference sources.
FRNG	Free Running, the master MCB operates in the Free Running clock synchronization mode and does not synchronize to any of the clock reference sources.								
FST	Fast Acquisition, the master MCB operates in the Fast Acquisition clock synchronization mode to achieve fast synchronization to the Primary or Secondary clock reference source. The MCB remains in the Fast Acquisition mode until a SYNCNMODE of NORM is entered.								
HLDOVR	Holdover, the master MCB operates in the Holdover clock synchronization mode maintaining the previously known clock frequency.								
NORM	Normal, the master MCB operates in the Normal clock synchronization mode for slow tracking to the Primary or Secondary clock reference sources.								

SUCCESSFUL RESPONSE FORMAT

```

    <SID> <YY-MM-DD> <HH:MM:SS>
M  <CTAG> COMPLD
    [/* <Free Form Informational Text> */]
    [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

    <SID> <YY-MM-DD> <HH:MM:SS>
M  <CTAG> DENY
    <ERROR CODE>
    [/* <Informational Error Description Text> */]
    [/* <Expanded Error Code Description> */]
    [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

ENSI	Equipage, Not equipped for Setting specified Information
IDNV	Input, Data Not Valid
IIAC	Input, Invalid ACcess identifier
	/* The command was rejected. */
	/* Invalid or unassigned equipment identifier specified. */
	/* The command was aborted. */
	/* MCB data base access failure. */
IPNV	Input, Parameter Not Valid
SAOP	Status Already OPerated
	/* Current mode: <CLKMODE> */
SARB	Status, All Resources Busy
	/* Command already in progress on equipment. */
SDBE	Status, internal Data Base Error
	/* Error accessing auxiliary EM data area. */
	/* Error accessing TMG database */
	/* Error accessing data base for <AID> */
	/* Error accessing database for mate mcb <AID>. */
	/* Error accessing auxiliary EM data area for <AID>. */
	/* Error updating database for <AID> */
	/* Unable to access TMG database */
	/* MCB data base access failure. */
SNVS	Status, Not in Valid State
	/* Command not valid for current state of equipment.*/
SROF	Status, Requested Operation Failed
SSRD	Status, Switch Request Denied
	/* OPR-SYNCNSW:::PRI should be followed by RLS-SYNCNSW. */
	/* OPR-SYNCNSW:::SEC should be followed by RLS-SYNCNSW. */
	/* SET-SYNCN::%s::%s should be followed by SET-SYNCN::%s:::NORM */
	/* Current mode: <CLKMODE> */
	/* Unrecognized clock mode: <CLKMODE> */
	/* The SET-SYNCN for <AID> was rejected. */
SSRE	Status, System Resources Exceeded
	/* The command was rejected. */
	/* Unable to allocate USI response buffer. */

SWFA Status, Working unit FAiled
 /* <AID> has failed. */

EXAMPLES

In the following example, the MCB clock subsystem clock synchronization mode is set to Holdover.

```
SET-SYCN::MCB-2-3-1::HLDVR;
```

RELATED COMMANDS

ED-EQPT
OPR-SYCN
RLS-SYCN
RTRV-EQPT

COMMAND CODE: **SET-TH-EC1**
COMMAND NAME: **SET THRESHOLD EC1**

PURPOSE

The SET-TH-EC1 command sets the threshold level for which a threshold-crossing event message is generated for the monitored parameter, identified by MONTYPE (monitored parameter type), LOCN (near-end or far-end location), and TMPER (15-minute or 1-day), pertaining to the specified EC1 port to the value specified by THLEV.

A SET-TH-EC1 command is denied if:

- The specified EC1 port is not provisioned (via ENT-EC1).
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

SET-TH-EC1 : [TID] : AID : [CTAG] : : MONTYPE, THLEV, [LOCN] , [DIRN] , [TMPER] ;

INPUT PARAMETERS

TID	< 1–20 VALID TID CHARACTERS >		
	Default:	<SID>	
	Addressing:	None	
	Description:	Target Identifier, specifies the network node TID for the command.	
AID	EC1_AID:		
	{EC1–{1–3840} }		(EC1–EC1/STS1#)
	Default:	Entry Required	
	Addressing:	&&–ranging and &–grouping	
	Description:	EC1 AID, identifies the EC1 port.	
CTAG	< 1–6 VALID CTAG CHARACTERS >		
	Default:	< System assigned CTAG value >	
	Addressing:	None	
	Description:	Correlation Tag, associates input command with its output responses.	

MONTYPE {ALL},
NEAR_END_PARAMETERS:{CV-L, CVL, ES-L, ESL, ESA-L, ESAL, ESB-L, ESBL,
LOSS, LOSS-S, SEFS, SEFS-S, SES-L, SESL, UAS-L, UASL},
FAR_END_PARAMETERS:{AISS, AISS-L, AISSL, ES-L, ESL, FC-L, FCL, SES-L,
SESL, UAS-L, UASL}
Default: Entry Required
Addressing: None
Description: Monitored Parameter Type, identifies the type of monitored parameter whose threshold level is to be set. A parameter may be specified by more than one value, e.g., parameter values may be entered with or without the dash (-). Refer to Appendix F, Monitored PM Parameters for a list of all monitored PM parameters. Values are:

ALL	All monitored parameter PM registers.
AISS, AISS-L, AISSL	Alarm Indication Signal Seconds – Line, AISS register. (Far-end only.)
CV-L, CVL	Coding Violations – Line, CV-L register. (Near-end only.)
ES-L, ESL	Errored Seconds – Line, ES-L register.
ESA-L, ESAL	Errored Seconds type A – Line, ESA-L register. (Near-end only.)
ESB-L, ESBL	Errored Seconds type B – Line, ESB-L register. (Near-end only.)
FC-L, FCL	Failure Counts – Line, FC-L register. (Far-end only.)
LOSS, LOSS-S	Loss Of Signal Seconds – Section, LOSS register. (Near-end only.)
SEFS, SEFS-S	Severely Errored Frame Seconds – Section, SEFS-S register. (Near-end only.)
SES-L, SESL	Severely Errored Seconds – Line, SES-L register.
UAS-L, UASL	Unavailable Seconds – Line, UAS-L register.

Restrictions: SET-TH-EC1 is denied if the specified MONTYPE value is not supported for the specified LOCN value (e.g., MONTYPE of AISS and LOCN of NEND is entered).

THLEV {0-4294967295, DFLT}
Default: Entry Required
Addressing: None
Description: Threshold Level, specifies the threshold level for which threshold-crossing event messages are generated for the monitored parameter identified by MONTYPE, LOCN, and TMPER. Uniquely defined values are:

0	Specifies no threshold-crossing events are generated.
DFLT	Default, set the threshold level to the system-wide default value retrieved by the RTRV-DFLTTH-EC1 command.

THLEV values for each MONTYPE are shown below:

THLEV Values vs. MONTYPE		
MONTYPE	15-Minute Register	1-Day Register
ALL	{0-150, DFLT}	{0-14400, DFLT}
CV-L	{0-4294967295, DFLT}	{0-4294967295, DFLT}
FC-L	{0-150, DFLT}	{0-14400, DFLT}
<All other MONTYPES>	{0-900, DFLT}	{0-65535, DFLT}

Restrictions: SET-TH-EC1 is denied if the entered THLEV value is not valid for the specified MONTYPE.

LOCN	{FEND, NEND}	
	Default:	< All applicable locations for the selected monitored parameters >
	Addressing:	None
	Description:	Location, specifies whether threshold levels for near-end or far-end monitored parameters are to be set. Values are:
	FEND	Far-End
DIRN	NEND	Near-End
	Restrictions:	SET-TH-EC1 is denied if the specified MONTYPE value is not supported for the specified LOCN value (e.g., MONTYPE of AISS and LOCN of NEND is entered).
	{NA, RCV, TRMT}	
	Default:	< All applicable directions >
	Addressing:	None
TMPER	Description:	Direction, specifies the direction of the signal being monitored. The value for DIRN is verified, but does not affect the function of the SET-TH-EC1 command.
	NA	Not Applicable
	RCV	Receive side
	TRMT	Transmit direction
	{15-MIN, 1-DAY}	
	Default:	{15-MIN}
	Addressing:	None
	Description:	Time Period, specifies whether threshold levels for the 15-minute or the daily (24 hour) PM collection register for the specified parameter is to be set. Values are:
	15-MIN	15-Minute PM collection register
	1-DAY	1-Day (24 hour) PM collection register

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  /* EC1 PM threshold Database updated. */
  /* Error occurred while provisioning equipment. */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid /* Invalid location in request message. */ /* Invalid direction in request message. */ /* Invalid time period in request message. */ /* Invalid threshold level in request message. */ /* Invalid montype in request message. */ /* Threshold level is out of range. */
IIAC	Input, Invalid ACcess identifier /* AID not in Partition. */ /* Invalid AID entered. */
IIPG	Input, Invalid Parameter Grouping /* Invalid location for requested montype. */
SDBE	Status, internal Data Base Error /* Failed to set pointer to FM EC1 record. */ /* Error reading default database. */ /* Error <ERRNO> reading from EC1 Threshold database. */ /* Error <ERRNO> updating EC1 Threshold database. */
SNVS	Status, Not in Valid State /* Facility is unprovisioned. */ /* AID not as provisioned. */
SROF	Status, Requested Operation Failed /* EC1 Threshold Database updated. */ /* Could not get controlling level 2 processor id. */ /* Unable to allocate memory for user data. */ /* Unable to determine supporting facility entity. */ /* Unable to determine facility type. */

EXAMPLES

In the following example, the threshold level for the daily (1-Day) near-end and far-end unavailable seconds, line (UAS-L) PM register for EC1 port EC1-626 is set to 46.

```
SET-TH-EC1::EC1-626:::UASL,46,,1-DAY;
```

In the following example, the threshold level for the 15-Minute near-end coding violations, line (CV-L) PM register for EC1 port EC1-626 is set to the system default value.

```
SET-TH-EC1::EC1-626:::CVL,DFLT;
```

RELATED COMMANDS

```
ENT-EC1  
INIT-REG-EC1  
RTRV-DFLTTH-EC1  
RTRV-PM-EC1  
RTRV-PMATTR-ALL  
RTRV-PMODE-EC1  
RTRV-TH-EC1  
SET-DFLTTH-EC1  
SET-PMATTR-ALL  
SET-PMODE-EC1
```

RELATED AUTONOMOUS RESPONSES

```
REPT^EVT^EC1
```

COMMAND CODE: **SET-TH-OC12**
COMMAND NAME: **SET THRESHOLD OC-12**

PURPOSE

The SET-TH-OC12 command sets the threshold level for which a threshold-crossing event message is generated for the monitored parameter, identified by MONTYPE (monitored parameter type), LOCN (near-end or far-end location), and TMPER (15-minute or 1-day), pertaining to the specified OC-12 port to the value specified by THLEV.

A SET-TH-OC12 command is denied if:

- The specified OC-12 port is not provisioned (via ENT-OC12).
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

SET-TH-OC12 : [TID] : AID : [CTAG] : : MONTYPE, THLEV, [LOCN] , [DIRN] , [TMPER] ;

INPUT PARAMETERS

TID	< 1–20 VALID TID CHARACTERS >		
	Default:	<SID>	
	Addressing:	None	
	Description:	Target Identifier, specifies the network node TID for the command.	
AID	OC12_AID:		
	{OC12–{1–560}}		(OC12–OC12#)
	Default:	Entry Required	
	Addressing:	&&–ranging and &–grouping	
	Description:	OC12 AID, identifies the OC–12 port.	
CTAG	< 1–6 VALID CTAG CHARACTERS >		
	Default:	< System assigned CTAG value >	
	Addressing:	None	
	Description:	Correlation Tag, associates input command with its output responses.	

MONTYPE	{ALL}, NEAR_END_PARAMETERS:{AISS, AISS-L, AISSL, CV-L, CVL, CV-S, CVS, ES-L, ESL, ES-S, ESS, ESA-L, ESAL, ESA-S, ESAS, ESB-L, ESBL, ESB-S, ESBS, FC-L, FCL, LOSS, LOSS-S, PSC, PSC-L, PSCL, PSD, PSD-L, PSDL, SEFS, SEFS-S, SES-L, SESL, SES-S, SESS, UAS-L, UASL}, FAR_END_PARAMETERS:{AISS, AISS-L, AISSL, CV-L, CVL, ES-L, ESL, ESA-L, ESAL, ESB-L, ESBL, FC-L, FCL, SES-L, SESL, UAS-L, UASL}
Default:	Entry Required
Addressing:	None
Description:	Monitored Parameter Type, identifies the type of monitored parameter whose threshold level is to be set. A parameter may be specified by more than one value, e.g., parameter values may be entered with or without the dash (-). Refer to Appendix F, Monitored PM Parameters for a list of all monitored PM parameters. Values are:
ALL	All monitored parameter PM registers.
AISS, AISS-L, AISSL	Alarm Indication Signal Seconds – Line, AISS register.
CV-L, CVL	Coding Violations – Line, CV-L register.
CV-S, CVS	Coding Violations – Section, CV-S register. (Near-end only.)
ES-L, ESL	Errored Seconds – Line, ES-L register.
ES-S, ESS	Errored Seconds – Section, ES-S register. (Near-end only.)
ESA-L, ESAL	Errored Seconds type A – Line, ESA-L register.
ESA-S, ESAS	Errored Seconds type A – Section, ESA-S register. (Near-end only.)
ESB-L, ESBL	Errored Seconds type B – Line, ESB-L register.
ESB-S, ESBS	Errored Seconds type B – Section, ESB-S register. (Near-end only.)
FC-L, FCL	Failure Counts – Line, FC-L register.
LOSS, LOSS-S	Loss Of Signal Seconds – Section, LOSS register. (Near-end only.)
PSC, PSC-L, PSCL	Protection Switch Counts – Line, PSC-L register. (Near-end only.)
PSD, PSD-L, PSDL	Protection Switch Duration – Line, PSD-L register. (Near-end only.)
SEFS, SEFS-S	Severely Errored Frame Seconds – Section, SEFS-S register. (Near-end only.)
SES-L, SESL	Severely Errored Seconds – Line, SES-L register.
SES-S, SESS	Severely Errored Seconds – Section, SES-S register. (Near-end only.)
UAS-L, UASL	Unavailable Seconds – Line, UAS-L register.
Restrictions:	SET-TH-OC12 is denied if the specified MONTYPE value is not supported for the specified LOCN value (e.g., MONTYPE of CV-S and LOCN of FEND is entered).

THLEV {0–4294967295, DFLT}
Default: Entry Required
Addressing: None
Description: Threshold Level, specifies the threshold level for which threshold–crossing event messages are generated for the monitored parameter identified by MONTYPE, LOCN, and TMPER. Uniquely defined values are:
 0 Specifies no threshold–crossing events are generated.
 DFLT Default, set the threshold level to the system–wide default value retrieved by the RTRV–DFLTTH–OC12 command.
 THLEV values for each MONTYPE are shown below:

THLEV Values vs. MONTYPE		
MONTYPE	15–Minute Register	1–Day Register
ALL	{0–150, DFLT}	{0–14400, DFLT}
CV–L, CV–S	{0–4294967295, DFLT}	{0–4294967295, DFLT}
FC–L	{0–150, DFLT}	{0–14400, DFLT}
<All other MONTYPES>	{0–900, DFLT}	{0–65535, DFLT}

Restrictions: SET–TH–OC12 is denied if the entered THLEV value is not valid for the specified MONTYPE.

LOCN {FEND, NEND}
Default: < All applicable locations for the selected monitored parameters >
Addressing: None
Description: Location, specifies whether threshold levels for near–end or far–end monitored parameters are to be set. Values are:
 FEND Far–End
 NEND Near–End
Restrictions: SET–TH–OC12 is denied if the specified MONTYPE value is not supported for the specified LOCN value (e.g., MONTYPE of CV–S and LOCN of FEND is entered).

DIRN {NA, RCV, TRMT}
Default: < All applicable directions >
Addressing: None
Description: Direction, specifies the direction of the signal being monitored. The value for DIRN is verified, but does not affect the function of the SET–TH–OC12 command.
 NA Not Applicable
 RCV Receive side
 TRMT Transmit direction

TMPER {15–MIN, 1–DAY}
Default: {15–MIN}
Addressing: None
Description: Time Period, specifies whether threshold levels for the 15–minute or the daily (24 hour) PM collection register for the specified parameter is to be set. Values are:
 15–MIN 15–Minute PM collection register
 1–DAY 1–Day (24 hour) PM collection register

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  /* OC12 PM threshold Database updated. */
  /* Error occurred while provisioning equipment. */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid /* Invalid location in request message. */ /* Invalid direction in request message. */ /* Invalid time period in request message. */ /* Invalid threshold level in request message. */ /* Invalid montype in request message. */ /* Threshold level is out of range. */
IIAC	Input, Invalid ACcess identifier /* AID not in Partition. */ /* Invalid AID entered. */
IIPG	Input, Invalid Parameter Grouping /* Invalid location for requested montype. */
SDBE	Status, internal Data Base Error /* Failed to set pointer to FM OC12 record. */ /* Error reading default database. */ /* Error <ERRNO> reading from OC12 Threshold database. */ /* Error <ERRNO> updating OC12 Threshold database. */
SNVS	Status, Not in Valid State /* Facility is unprovisioned. */ /* AID not as provisioned. */
SROF	Status, Requested Operation Failed /* OC12 Threshold Database updated. */ /* Could not get controlling level 2 processor id. */ /* Unable to allocate memory for user data. */ /* Unable to determine supporting facility entity. */ /* Unable to determine facility type. */

EXAMPLES

In the following example, the threshold level for the daily (1-Day) near-end and far-end unavailable seconds, line (UAS-L) PM register for OC-12 port OC12-98 is set to 46.

```
SET-TH-OC12::OC12-98::UASL,46,,1-DAY;
```

In the following example, the threshold level for the 15–Minute near–end coding violations, line (CV–L) PM register for OC–12 port OC12–98 is set to the system default value.

```
SET-TH-OC12::OC12-98::CVP,DFLT,NEND;
```

RELATED COMMANDS

```
ENT-OC12  
INIT-REG-OC12  
RTRV-DFLTTH-OC12  
RTRV-PM-OC12  
RTRV-PMATTR-ALL  
RTRV-PMODE-OC12  
RTRV-TH-OC12  
SET-DFLTTH-OC12  
SET-PMATTR-ALL  
SET-PMODE-OC12
```

RELATED AUTONOMOUS RESPONSES

```
REPT^EVT^OC12
```


COMMAND CODE: **SET-TH-OC3**
COMMAND NAME: **SET THRESHOLD OC-3**

PURPOSE

The SET-TH-OC3 command sets the threshold level for which a threshold-crossing event message is generated for the monitored parameter, identified by MONTYPE (monitored parameter type), LOCN (near-end or far-end location), and TMPER (15-minute or 1-day), pertaining to the specified OC-3 port to the value specified by THLEV.

A SET-TH-OC3 command is denied if:

- The specified OC-3 port is not provisioned (via ENT-OC3).
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

SET-TH-OC3 : [TID] : AID : [CTAG] : : MONTYPE, THLEV, [LOCN] , [DIRN] , [TMPER] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >	
	Default:	<SID>
	Addressing:	None
	Description:	Target Identifier, specifies the network node TID for the command.
AID	OC3_AID:	
	{OC3-{1-2240}}	(OC3-OC3#)
	Default:	Entry Required
	Addressing:	&&-ranging and &-grouping
CTAG	< 1-6 VALID CTAG CHARACTERS >	
	Default:	< System assigned CTAG value >
	Addressing:	None
	Description:	Correlation Tag, associates input command with its output responses.

MONTYPE	{ALL}, NEAR_END_PARAMETERS:{AISS, AISS-L, AISSL, CV-L, CVL, CV-S, CVS, ES-L, ESL, ES-S, ESS, ESA-L, ESAL, ESA-S, ESAS, ESB-L, ESBL, ESB-S, ESBS, FC-L, FCL, LOSS, LOSS-S, PSC, PSC-L, PSCL, PSD, PSD-L, PSDL, SEFS, SEFS-S, SES-L, SESL, SES-S, SESS, UAS-L, UASL}, FAR_END_PARAMETERS:{AISS, AISS-L, AISSL, CV-L, CVL, ES-L, ESL, ESA-L, ESAL, ESB-L, ESBL, FC-L, FCL, SES-L, SESL, UAS-L, UASL}
Default:	Entry Required
Addressing:	None
Description:	Monitored Parameter Type, identifies the type of monitored parameter whose threshold level is to be set. A parameter may be specified by more than one value, e.g., parameter values may be entered with or without the dash (-). Refer to Appendix F, Monitored PM Parameters for a list of all monitored PM parameters. Values are:
ALL	All monitored parameter PM registers.
AISS, AISS-L, AISSL	Alarm Indication Signal Seconds – Line, AISS register.
CV-L, CVL	Coding Violations – Line, CV-L register.
CV-S, CVS	Coding Violations – Section, CV-S register. (Near-end only.)
ES-L, ESL	Errored Seconds – Line, ES-L register.
ES-S, ESS	Errored Seconds – Section, ES-S register. (Near-end only.)
ESA-L, ESAL	Errored Seconds type A – Line, ESA-L register.
ESA-S, ESAS	Errored Seconds type A – Section, ESA-S register. (Near-end only.)
ESB-L, ESBL	Errored Seconds type B – Line, ESB-L register.
ESB-S, ESBS	Errored Seconds type B – Section, ESB-S register. (Near-end only.)
FC-L, FCL	Failure Counts – Line, FC-L register.
LOSS, LOSS-S	Loss Of Signal Seconds – Section, LOSS register. (Near-end only.)
PSC, PSC-L, PSCL	Protection Switch Counts – Line, PSC-L register. (Near-end only.)
PSD, PSD-L, PSDL	Protection Switch Duration – Line, PSD-L register. (Near-end only.)
SEFS, SEFS-S	Severely Errored Frame Seconds – Section, SEFS-S register. (Near-end only.)
SES-L, SESL	Severely Errored Seconds – Line, SES-L register.
SES-S, SESS	Severely Errored Seconds – Section, SES-S register. (Near-end only.)
UAS-L, UASL	Unavailable Seconds – Line, UAS-L register.
Restrictions:	SET-TH-OC3 is denied if the specified MONTYPE value is not supported for the specified LOCN value (e.g., MONTYPE of CV-S and LOCN of FEND is entered).

THLEV {0–4294967295, DFLT}
Default: Entry Required
Addressing: None
Description: Threshold Level, specifies the threshold level for which threshold–crossing event messages are generated for the monitored parameter identified by MONTYPE, LOCN, and TMPER. Uniquely defined values are:

0 Specifies no threshold–crossing events are generated.
DFLT Default, set the threshold level to the system–wide default value retrieved by the RTRV–DFLTTH–OC3 command.

THLEV values for each MONTYPE are shown below:

THLEV Values vs. MONTYPE		
MONTYPE	15–Minute Register	1–Day Register
ALL	{0–150, DFLT}	{0–14400, DFLT}
CV–L, CV–S	{0–4294967295, DFLT}	{0–4294967295, DFLT}
FC–L	{0–150, DFLT}	{0–14400, DFLT}
<All other MONTYPES>	{0–900, DFLT}	{0–65535, DFLT}

Restrictions: SET–TH–OC3 is denied if the entered THLEV value is not valid for the specified MONTYPE.

LOCN {FEND, NEND}
Default: < All applicable locations for the selected monitored parameters >
Addressing: None
Description: Location, specifies whether threshold levels for near–end or far–end monitored parameters are to be set. Values are:

FEND Far–End
NEND Near–End

Restrictions: SET–TH–OC3 is denied if the specified MONTYPE value is not supported for the specified LOCN value (e.g., MONTYPE of CV–S and LOCN of FEND is entered).

DIRN {NA, RCV, TRMT}
Default: < All applicable directions >
Addressing: None
Description: Direction, specifies the direction of the signal being monitored. The value for DIRN is verified, but does not affect the function of the SET–TH–OC3 command.

NA Not Applicable
RCV Receive side
TRMT Transmit direction

TMPER {15–MIN, 1–DAY}
Default: {15–MIN}
Addressing: None
Description: Time Period, specifies whether threshold levels for the 15–minute or the daily (24 hour) PM collection register for the specified parameter is to be set. Values are:

15–MIN 15–Minute PM collection register
1–DAY 1–Day (24 hour) PM collection register

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  /* OC3 PM threshold Database updated. */
  /* Error occurred while provisioning equipment. */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid
	/* Invalid location in request message. */
	/* Invalid direction in request message. */
	/* Invalid time period in request message. */
	/* Invalid threshold level in request message. */
	/* Invalid montype in request message. */
	/* Threshold level is out of range. */
IIAC	Input, Invalid ACcess identifier
	/* AID not in Partition. */
	/* Invalid AID entered. */
IIPG	Input, Invalid Parameter Grouping
	/* Invalid location for requested montype. */
SDBE	Status, internal Data Base Error
	/* Failed to set pointer to FM OC3 record. */
	/* Error reading default database. */
	/* Error <ERRNO> reading from OC3 Threshold database. */
	/* Error <ERRNO> updating OC3 Threshold database. */
SNVS	Status, Not in Valid State
	/* Facility is unprovisioned. */
	/* AID not as provisioned. */
SROF	Status, Requested Operation Failed
	/* OC3 Threshold Database updated. */
	/* Could not get controlling level 2 processor id. */
	/* Unable to allocate memory for user data. */
	/* Unable to determine supporting facility entity. */
	/* Unable to determine facility type. */

EXAMPLES

In the following example, the threshold level for the daily (1-Day) near-end and far-end unavailable seconds, line (UAS-L) PM register for OC-3 port OC3-98 is set to 46.

```
SET-TH-OC3::OC3-98:::UASL,46,,,1-DAY;
```

In the following example, the threshold level for the 15–Minute near–end coding violations, line (CV–L) PM register for OC–3 port OC3–98 is set to the system default value.

```
SET-TH-OC3 : : OC3-98 : : CVP, DFLT, NEND ;
```

RELATED COMMANDS

```
ENT-OC3  
INIT-REG-OC3  
RTRV-DFLTTH-OC3  
RTRV-PM-OC3  
RTRV-PMATTR-ALL  
RTRV-PMODE-OC3  
RTRV-TH-OC3  
SET-DFLTTH-OC3  
SET-PMATTR-ALL  
SET-PMODE-OC3
```

RELATED AUTONOMOUS RESPONSES

```
REPT^EVT^OC3
```


COMMAND CODE: **SET-TH-STS1**
COMMAND NAME: **SET THRESHOLD STS-1**

PURPOSE

The SET-TH-STS1 command sets the threshold level for which a threshold-crossing event message is generated for the monitored parameter, identified by MONTYPE (monitored parameter type), LOCN (near-end or far-end location), and TMPER (15-minute or 1-day), pertaining to the specified STS-1 port to the value specified by THLEV.

A SET-TH-STS1 command is denied if:

- The specified STS-1 port is not provisioned (via ENT-STS1).
- The specified STS-1 port is embedded within a protection OC-3 or OC-12.
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

SET-TH-STS1 : [TID] : AID : [CTAG] : : MONTYPE, THLEV, [LOCN], [DIRN], [TMPER] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.																		
AID	STS1_AID: {EC1STS1-{1-3840}} (EC1STS1-EC1/STS1#) {OC3STS1-{1-2240}-{1-3}} (OC3STS1-OC3#-STS1#) {OC12STS1-{1-560}-{1-4}-{1-3}} (OC12STS1-OC12#-STM1#-STS1#) Default: Entry Required Addressing: &&-ranging and &-grouping Description: STS1 AID, identifies the STS-1 port.																		
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.																		
MONTYPE	{ALL}, NEAR_END_PARAMETERS:{ALS-P, ALSP, CV-P, CVP, ES-P, ESP, ESA-P, ESAP, ESB-P, ESBP, FC-P, FCP, SES-P, SESP, UAS-P, UASP}, FAR_END_PARAMETERS:{ALS-P, ALSP, CV-P, CVP, ES-P, ESP, ESA-P, ESAP, ESB-P, ESBP, FC-P, FCP, SES-P, SESP, UAS-P, UASP} Default: Entry Required Addressing: None Description: Monitored Parameter Type, identifies the type of monitored parameter whose threshold level is to be set. A parameter may be specified by more than one value, e.g., parameter values may be entered with or without the dash (-). Refer to Appendix F, Monitored PM Parameters for a list of all monitored PM parameters. Values are: <table> <tr> <td>ALL</td><td>All monitored parameter PM registers.</td></tr> <tr> <td>ALS-P, ALSP</td><td>Alarm Indication Signal/Loss of Pointer - Path, ALS-P register.</td></tr> <tr> <td>CV-P, CVP</td><td>Coding Violations - Path, CV-P register.</td></tr> <tr> <td>ES-P, ESP</td><td>Errored Seconds - Path, ES-P register.</td></tr> <tr> <td>ESA-P, ESAP</td><td>Errored Seconds type A - Path, ESA-P register.</td></tr> <tr> <td>ESB-P, ESBP</td><td>Errored Seconds type B - Path, ESB-P register.</td></tr> <tr> <td>FC-P, FCP</td><td>Failure Counts - Path, FC-P register.</td></tr> <tr> <td>SES-P, SESP</td><td>Severely Errored Seconds - Path, SES-P register.</td></tr> <tr> <td>UAS-P, UASP</td><td>Unavailable Seconds - Path, UAS-P register.</td></tr> </table>	ALL	All monitored parameter PM registers.	ALS-P, ALSP	Alarm Indication Signal/Loss of Pointer - Path, ALS-P register.	CV-P, CVP	Coding Violations - Path, CV-P register.	ES-P, ESP	Errored Seconds - Path, ES-P register.	ESA-P, ESAP	Errored Seconds type A - Path, ESA-P register.	ESB-P, ESBP	Errored Seconds type B - Path, ESB-P register.	FC-P, FCP	Failure Counts - Path, FC-P register.	SES-P, SESP	Severely Errored Seconds - Path, SES-P register.	UAS-P, UASP	Unavailable Seconds - Path, UAS-P register.
ALL	All monitored parameter PM registers.																		
ALS-P, ALSP	Alarm Indication Signal/Loss of Pointer - Path, ALS-P register.																		
CV-P, CVP	Coding Violations - Path, CV-P register.																		
ES-P, ESP	Errored Seconds - Path, ES-P register.																		
ESA-P, ESAP	Errored Seconds type A - Path, ESA-P register.																		
ESB-P, ESBP	Errored Seconds type B - Path, ESB-P register.																		
FC-P, FCP	Failure Counts - Path, FC-P register.																		
SES-P, SESP	Severely Errored Seconds - Path, SES-P register.																		
UAS-P, UASP	Unavailable Seconds - Path, UAS-P register.																		

THLEV {0–4294967295, DFLT}
Default: Entry Required
Addressing: None
Description: Threshold Level, specifies the threshold level for which threshold–crossing event messages are generated for the monitored parameter identified by MONTYPE, LOCN, and TMPER. Uniquely defined values are:
 0 Specifies no threshold–crossing events are generated.
 DFLT Default, set the threshold level to the system–wide default value retrieved by the RTRV–DFLTTH–STS1 command.
 THLEV values for each MONTYPE are shown below:

THLEV Values vs. MONTYPE		
MONTYPE	15–Minute Register	1–Day Register
ALL	{0–150, DFLT}	{0–14400, DFLT}
CV–P	{0–4294967295, DFLT}	{0–4294967295, DFLT}
FC–P	{0–150, DFLT}	{0–14400, DFLT}
<All other MONTYPES>	{0–900, DFLT}	{0–65535, DFLT}

Restrictions: SET–TH–STS1 is denied if the entered THLEV value is not valid for the specified MONTYPE.

LOCN {FEND, NEND}
Default: < All applicable locations for the selected monitored parameters >
Addressing: None
Description: Location, specifies whether threshold levels for near–end or far–end monitored parameters are to be set. Values are:
 FEND Far–End
 NEND Near–End

DIRN {NA, RCV, TRMT}
Default: < All applicable directions >
Addressing: None
Description: Direction, specifies the direction of the signal being monitored. The value for DIRN is verified, but does not affect the function of the SET–TH–STS1 command.
 NA Not Applicable
 RCV Receive side
 TRMT Transmit direction

TMPER {15–MIN, 1–DAY}
Default: {15–MIN}
Addressing: None
Description: Time Period, specifies whether threshold levels for the 15–minute or the daily (24 hour) PM collection register for the specified parameter is to be set. Values are:
 15–MIN 15–Minute PM collection register
 1–DAY 1–Day (24 hour) PM collection register

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  /* STS1 PM threshold Database updated. */
  /* Error occurred while provisioning equipment. */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;
```


UNSUCCESSFUL RESPONSE FORMAT

```

    <SID> <YY-MM-DD> <HH:MM:SS>
M  <CTAG> DENY
    <ERROR CODE>
    [/* <Informational Error Description Text> */]
    [/* <Expanded Error Code Description> */]
    [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid
	/* Invalid location in request message. */
	/* Invalid direction in request message. */
	/* Invalid time period in request message. */
	/* Invalid threshold level in request message. */
	/* Invalid montype in request message. */
	/* Threshold level is out of range. */
IIAC	Input, Invalid ACcess identifier
	/* AID not in Partition. */
	/* Invalid AID entered. */
IIPG	Input, Invalid Parameter Grouping
	/* Invalid location for requested montype. */
SDBE	Status, internal Data Base Error
	/* Failed to set pointer to FM STS1 record. */
	/* Error reading default database. */
	/* Error <ERRNO> reading from STS1 Threshold database. */
	/* Error <ERRNO> updating STS1 Threshold database. */
SNVS	Status, Not in Valid State
	/* Facility is unprovisioned. */
	/* AID not as provisioned. */
SROF	Status, Requested Operation Failed
	/* STS1 Threshold Database updated. */
	/* Could not get controlling level 2 processor id. */
	/* Unable to allocate memory for user data. */
	/* Unable to determine supporting facility entity. */
	/* Unable to determine facility type. */

EXAMPLES

In the following example, the threshold level for the daily (1-Day) near-end and far-end unavailable seconds, path (UAS-P) PM register for STS-1 port EC1STS1-626 is set to 46.

```
SET-TH-STs1::EC1STS1-626::UASP,46,,1-DAY;
```

In the following example, the threshold level for the 15-Minute near-end coding violations, path (CV-P) PM register for STS-1 port EC1STS1-626 is set to the system default value.

```
SET-TH-STs1::EC1STS1-626::CVP,DFLT,NEND;
```

RELATED COMMANDS

```

ENT-STs1
INIT-REG-STs1
RTRV-DFLTTH-STs1

```

3AL45392AJ

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RTRV-PM-STS1
RTRV-PMATTR-ALL
RTRV-PMODE-STS1
RTRV-TH-STS1
SET-DFLTH-STS1
SET-PMATTR-ALL
SET-PMODE-STS1

RELATED AUTONOMOUS RESPONSES

REPT^EVT^STS1

COMMAND CODE: **SET-TH-STS3C**
COMMAND NAME: **SET THRESHOLD STS-3C**

PURPOSE

The SET-TH-STS3C command sets the threshold level for which a threshold-crossing event message is generated for the monitored parameter, identified by MONTYPE (monitored parameter type), LOCN (near-end or far-end location), and TMPER (15-minute or 1-day), pertaining to the specified STS-3C port to the value specified by THLEV.

A SET-TH-STS3C command is denied if:

- The specified STS-3C port is not provisioned (via ENT-STS3C).
- The specified STS-3C port is embedded within a protection OC-3 or OC-12.
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

SET-TH-STS3C: [TID] :AID: [CTAG] : :MONTYPE, THLEV, [LOCN] , [DIRN] , [TMPER] ;

INPUT PARAMETERS

TID	< 1–20 VALID TID CHARACTERS >		
	Default:	<SID>	
	Addressing:	None	
	Description:	Target Identifier, specifies the network node TID for the command.	
AID	STS3C_AID:		
	{OC3STS3C–{1–2240}}	(OC3STS3C–OC3#/STS3C#)	
	{OC12STS3C–{1–560}–{1–4}}	(OC12STS3C–OC12#–STM1/STS3C#)	
	Default:	Entry Required	
	Addressing:	&&–ranging and &–grouping	
	Description:	STS3C AID, identifies the STS–3C port.	
CTAG	< 1–6 VALID CTAG CHARACTERS >		
	Default:	< System assigned CTAG value >	
	Addressing:	None	
	Description:	Correlation Tag, associates input command with its output responses.	

MONTYPE {ALL},
NEAR_END_PARAMETERS:{ALS-P, ALSP, CV-P, CVP, ES-P, ESP, ESA-P, ESAP, ESB-P, ESBP, FC-P, FCP, SES-P, SESP, UAS-P, UASP},
FAR_END_PARAMETERS:{ALS-P, ALSP, CV-P, CVP, ES-P, ESP, ESA-P, ESAP, ESB-P, ESBP, FC-P, FCP, SES-P, SESP, UAS-P, UASP}
Default: Entry Required
Addressing: None
Description: Monitored Parameter Type, identifies the type of monitored parameter whose threshold level is to be set. A parameter may be specified by more than one value, e.g., parameter values may be entered with or without the dash (-). Refer to Appendix F, Monitored PM Parameters for a list of all monitored PM parameters. Values are:

ALL All monitored parameter PM registers.
ALS-P, ALSP Alarm Indication Signal/Loss of Pointer – Path, ALS-P register.
CV-P, CVP Coding Violations – Path, CV-P register.
ES-P, ESP Errored Seconds – Path, ES-P register.
ESA-P, ESAP Errored Seconds type A – Path, ESA-P register.
ESB-P, ESBP Errored Seconds type B – Path, ESB-P register.
FC-P, FCP Failure Counts – Path, FC-P register.
SES-P, SESP Severely Errored Seconds – Path, SES-P register.
UAS-P, UASP Unavailable Seconds – Path, UAS-P register.

THLEV {0-4294967295, DFLT}
Default: Entry Required
Addressing: None
Description: Threshold Level, specifies the threshold level for which threshold-crossing event messages are generated for the monitored parameter identified by MONTYPE, LOCN, and TMPER. Uniquely defined values are:

0 Specifies no threshold-crossing events are generated.
DFLT Default, set the threshold level to the system-wide default value retrieved by the RTRV-DFLTTH-STS3C command.

THLEV values for each MONTYPE are shown below:

THLEV Values vs. MONTYPE		
MONTYPE	15-Minute Register	1-Day Register
ALL	{0-150, DFLT}	{0-14400, DFLT}
CV-P	{0-4294967295, DFLT}	{0-4294967295, DFLT}
FC-P	{0-150, DFLT}	{0-14400, DFLT}
<All other MONTYPES>	{0-900, DFLT}	{0-65535, DFLT}

Restrictions: SET-TH-STS3C is denied if the entered THLEV value is not valid for the specified MONTYPE.

LOCN {FEND, NEND}
Default: < All applicable locations for the selected monitored parameters >
Addressing: None
Description: Location, specifies whether threshold levels for near-end or far-end monitored parameters are to be set. Values are:

FEND Far-End
NEND Near-End

DIRN	{NA, RCV, TRMT}					
	Default: {NA}					
	Addressing: None					
	Description: Direction, specifies the direction of the signal being monitored. The value for DIRN is verified, but does not affect the function of the SET-TH-STS3C command.					
	<table> <tr> <td>NA</td><td>Not Applicable</td></tr> <tr> <td>RCV</td><td>Receive side</td></tr> <tr> <td>TRMT</td><td>Transmit direction</td></tr> </table>	NA	Not Applicable	RCV	Receive side	TRMT
NA	Not Applicable					
RCV	Receive side					
TRMT	Transmit direction					
TMPER	{15-MIN, 1-DAY}					
	Default: {15-MIN}					
	Addressing: None					
	Description: Time Period, specifies whether threshold levels for the 15-minute or the daily (24 hour) PM collection register for the specified parameter is to be set. Values are:					
	<table> <tr> <td>15-MIN</td><td>15-Minute PM collection register</td></tr> <tr> <td>1-DAY</td><td>1-Day (24 hour) PM collection register</td></tr> </table>	15-MIN	15-Minute PM collection register	1-DAY	1-Day (24 hour) PM collection register	
15-MIN	15-Minute PM collection register					
1-DAY	1-Day (24 hour) PM collection register					

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  /* STS3C PM threshold Database updated. */
  /* Error occurred while provisioning equipment. */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid
	/* Invalid location in request message. */
	/* Invalid direction in request message. */
	/* Invalid time period in request message. */
	/* Invalid threshold level in request message. */
	/* Invalid montype in request message. */
	/* Threshold level is out of range. */
IIAC	Input, Invalid ACcess identifier
	/* AID not in Partition. */
	/* Invalid AID entered. */
IIPG	Input, Invalid Parameter Grouping
	/* Invalid location for requested montype. */
IPMS	Input, Parameter MiSsing

SDBE	Status, internal Data Base Error /* Failed to set pointer to FM STS3C record. */ /* Error reading default database. */ /* Error <ERRNO> reading from STS3C Threshold database. */ /* Error <ERRNO> updating STS3C Threshold database. */
SNVS	Status, Not in Valid State /* Facility is unprovisioned. */ /* AID not as provisioned. */
SROF	Status, Requested Operation Failed /* STS3C Threshold Database updated. */ /* Could not get controlling level 2 processor id. */ /* Unable to allocate memory for user data. */ /* Unable to determine supporting facility entity. */ /* Unable to determine facility type. */

EXAMPLES

In the following example, the threshold level for the daily (1-Day) near-end and far-end unavailable seconds, path (UAS-P) PM register for STS-3C port OC3STS3C-2 is set to 46.

```
SET-TH-STS3C::OC3STS3C-2:::UASP,46,,1-DAY;
```

In the following example, the threshold level for the 15-Minute near-end coding violations, path (CV-P) PM register for STS-3C port OC3STS3C-2 is set to the system default value.

```
SET-TH-STS3C::OC3STS3C-2:::CVP,DFLT,NEND;
```

RELATED COMMANDS

```
ENT-STS3C  
INIT-REG-STS3C  
RTRV-DFLTTH-STS3C  
RTRV-PM-STS3C  
RTRV-PMATTR-ALL  
RTRV-PMODE-STS3C  
RTRV-TH-STS3C  
SET-DFLTTH-STS3C  
SET-PMATTR-ALL  
SET-PMODE-STS3C
```

RELATED AUTONOMOUS RESPONSES

```
REPT^EVT^STS3C
```

COMMAND CODE: **SET-TH-T1**
COMMAND NAME: **SET THRESHOLD T1**

PURPOSE

The SET-TH-T1 command sets the threshold level for which a threshold-crossing event message is generated for the monitored parameter, identified by MONTYPE (monitored parameter type), LOCN (near-end or far-end location), and TMPER (15-minute or 1-day), pertaining to the specified DS1 port to the value specified by THLEV.

A SET-TH-T1 command is denied if:

- The specified DS1 port is not provisioned (via ENT-T1).
- The specified DS1 port is embedded within a protection OC3.
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

SET-TH-T1 : [TID] : AID : [CTAG] : : MONTYPE, THLEV, [LOCN], [DIRN], [TMPER] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >		
	Default:	<SID>	
	Addressing:	None	
	Description:	Target Identifier, specifies the network node TID for the command.	
AID	DS1_AID:		
	{T1-{1-59392}}	(T1-DS1#)	
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)	
	{EC1T1-{1-3840}-{1-28}}	(EC1T1-EC1/STS1/DS3#-DS1#)	
	{EC1T1-{1-3840}-{1-7}-{1-4}}	(EC1T1-EC1/STS1#-VTGrp#-VT1/DS1#)	
	{OC3T1-{1-2240}-{1-3}-{1-28}}	(OC3T1-OC3#-STS1/DS3#-DS1#)	
	{OC3T1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3T1-OC3#-STS1#-VTGrp#-VT1/DS1#)	
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}	(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)	
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	(OC12T1-OC12#-STM1#-STS1#-VTGrp#-VT1/DS1#)	
	Default:	Entry Required	
	Addressing:	&&-ranging and &-grouping	
	Description:	DS1 AID, identifies the DS1 port.	
CTAG	< 1-6 VALID CTAG CHARACTERS >		
	Default:	< System assigned CTAG value >	
	Addressing:	None	
	Description:	Correlation Tag, associates input command with its output responses.	

MONTYPE	{ALL}, NEAR_END_PARAMETERS:{AISS, AISS-P, AISSP, CV-L, CVL, CV-P, CVP, ES-L, ESL, ES-P, ESP, ESA-P, ESAP, ESB-P, ESBP, FC-P, FCP, LOSS, LOSS-L, LOSSL, QRSSS, QRSSS-P, QRSSSP, SAS-P, SASP, SES-L, SESL, SES-P, SESP, UAS-P, UASP}, FAR_END_PARAMETERS:{CSS, CSS-P, CSSP, CV-P, CVP, ES-L, ESL, ES-P, ESP, ESA-P, ESAP, ESB-P, ESBP, FC-P, FCP, SEFS, SEFS-P, SEFSP, SES-P, SESP, UAS-P, UASP}
Default:	Entry Required
Addressing:	None
Description:	Monitored Parameter Type, identifies the type of monitored parameter whose threshold level is to be set. A parameter may be specified by more than one value, e.g., parameter values may be entered with or without the dash (-). Refer to Appendix F, Monitored PM Parameters for a list of all monitored PM parameters. Values are:
ALL	All monitored parameter PM registers.
AISS, AISS-P, AISSP	Alarm Indication Signal Seconds – Path, AISS register. (Near-end only.)
CSS, CSS-P, CSSP	Controlled Slip Seconds – Path, CSS register. (Far-end only.)
CV-L, CVL	Coding Violations – Line, CV-L register. (Near-end electrical T1 only.)
CV-P, CVP	Coding Violations – Path, CV-P register.
ES-L, ESL	Errored Seconds – Line, ES-L register. (Near-end electrical T1 or Far-end embedded T1.)
ES-P, ESP	Errored Seconds – Path, ES-P register.
ESA-P, ESAP	Errored Seconds type A – Path, ESA-P register.
ESB-P, ESBP	Errored Seconds type B – Path, ESB-P register.
FC-P, FCP	Failure Count – Path, FC-P register.
LOSS, LOSS-L, LOSSL	Loss of Signal Seconds – Line, LOSS register. (Near-end electrical T1 only.)
QRSSS, QRSSS-P, QRSSSP	QRSS Seconds – Path, QRSSS-P register. (Near-end only.)
SAS-P, SASP	Severe AIS Seconds – Path, SAS-P register. (Near-end only.)
SEFS, SEFS-P, SEFSP	Severely Errored Frame Seconds, SEFS register. (Far-end only.)
SES-L, SESL	Severely Errored Seconds – Line, SES-L register. (Near-end electrical T1 only.)
SES-P, SESP	Severely Errored Seconds – Path, SES-P register.
UAS-P, UASP	Unavailable Seconds – Path, UAS-P register.
Restrictions:	SET-TH-T1 is denied if the specified MONTYPE value is not supported for the specified LOCN value (e.g., MONTYPE of AISS and LOCN of FEND is entered).

THLEV {0–4294967295, DFLT}
Default: Entry Required
Addressing: None
Description: Threshold Level, specifies the threshold level for which threshold–crossing event messages are generated for the monitored parameter identified by MONTYPE, LOCN, and TMPER. Uniquely defined values are:

0 Specifies no threshold–crossing events are generated.
DFLT Default, set the threshold level to the system–wide default value retrieved by the RTRV–DFLTTH–T1 command.

THLEV values for each MONTYPE are shown below:

THLEV Values vs. MONTYPE		
MONTYPE	15–Minute Register	1–Day Register
ALL	{0–150, DFLT}	{0–14400, DFLT}
CV–L, CV–P	{0–4294967295, DFLT}	{0–4294967295, DFLT}
FC–P	{0–150, DFLT}	{0–14400, DFLT}
<All other MONTYPES>	{0–900, DFLT}	{0–65535, DFLT}

Restrictions: SET–TH–T1 is denied if the entered THLEV value is not valid for the specified MONTYPE.

LOCN {FEND, NEND}
Default: < All applicable locations for the selected monitored parameters >
Addressing: None
Description: Location, specifies whether threshold levels for near–end or far–end monitored parameters are to be set. Values are:

FEND Far–End
NEND Near–End

Restrictions: SET–TH–T1 is denied if the specified MONTYPE value is not supported for the specified LOCN value (e.g., MONTYPE of AISS and LOCN of FEND is entered).

DIRN {NA, RCV, TRMT}
Default: < All applicable directions >
Addressing: None
Description: Direction, specifies the direction of the signal being monitored. The value for DIRN is verified, but does not affect the function of the SET–TH–T1 command.

NA Not Applicable
RCV Receive side
TRMT Transmit direction

TMPER {15–MIN, 1–DAY}
Default: {15–MIN}
Addressing: None
Description: Time Period, specifies whether threshold levels for the 15–minute or the daily (24 hour) PM collection register for the specified parameter is to be set. Values are:

15–MIN 15–Minute PM collection register
1–DAY 1–Day (24 hour) PM collection register

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  /* T1 PM threshold Database updated. */
  /* Error occurred while provisioning equipment. */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid /* Invalid location in request message. */ /* Invalid direction in request message. */ /* Invalid time period in request message. */ /* Invalid threshold level in request message. */ /* Invalid montype in request message. */ /* Threshold level is out of range. */
IIAC	Input, Invalid ACcess identifier /* AID not in Partition. */ /* Invalid AID entered. */
IIPG	Input, Invalid Parameter Grouping /* Invalid location for requested montype. */
SDBE	Status, internal Data Base Error /* Failed to set pointer to FM T1 record. */ /* Error reading default database. */ /* Error <ERRNO> reading from T1 Threshold database. */ /* Error <ERRNO> updating T1 Threshold database. */
SNVS	Status, Not in Valid State /* Facility is unprovisioned. */ /* AID not as provisioned. */
SROF	Status, Requested Operation Failed /* T1 Threshold Database updated. */ /* Could not get controlling level 2 processor id. */ /* Unable to allocate memory for user data. */ /* Unable to determine supporting facility entity. */ /* Unable to determine facility type. */

EXAMPLES

In the following example, the threshold level for the daily (1-Day) near-end coding violations, path (CV-P) PM register for DS1 port T3T1-1495-3 is set to 100.

```
SET-TH-T1::T3T1-1495-3::CVP,100,NEND,,1-DAY;
```

In the following example, the threshold level for the 15–Minute near–end and far–end coding violations, path (CV–P) PM register for DS1 port T3T1–1504–5 is set to the system default value.

```
SET-TH-T1::T3T1-1504-5::CV-P,DFLT;
```

RELATED COMMANDS

```
ENT-T1  
INIT-REG-T1  
RTRV-DFLTTH-T1  
RTRV-PM-T1  
RTRV-PMATTR-ALL  
RTRV-PMODE-T1  
RTRV-TH-T1  
SET-DFLTTH-T1  
SET-PMATTR-ALL  
SET-PMODE-T1
```

RELATED AUTONOMOUS RESPONSES

```
REPT^EVT^T1
```


COMMAND CODE: **SET-TH-T3**
COMMAND NAME: **SET THRESHOLD T3**

PURPOSE

The SET-TH-T3 command sets the threshold level for which a threshold-crossing event message is generated for the monitored parameter, identified by MONTYPE (monitored parameter type), LOCN (near-end or far-end location), and TMPER (15-minute or 1-day), pertaining to the specified DS3 port to the value specified by THLEV.

A SET-TH-T3 command is denied if:

- The specified DS3 port is not provisioned (via ENT-T3).
- The specified DS3 port is embedded within a protection OC-3 or OC-12.
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

```
SET-TH-T3: [TID] :AID: [CTAG] ::MONTYPE, THLEV, [LOCN] , [DIRN] , [TMPER] ;
```

INPUT PARAMETERS

TID	<p>< 1–20 VALID TID CHARACTERS ></p> <p>Default: <SID></p> <p>Addressing: None</p> <p>Description: Target Identifier, specifies the network node TID for the command.</p>
AID	<p>DS3_AID:</p> <p>{T3–{1–4800}} (T3–DS3#)</p> <p>{EC1T3–{1–3840}} (EC1T3–EC1/STS1/DS3#)</p> <p>{OC3T3–{1–2240}–{1–3}} (OC3T3–OC3#–STS1/DS3#)</p> <p>{OC12T3–{1–560}–{1–4}–{1–3}} (OC12T3–OC12#–STM1#–STS1/DS3#)</p> <p>Default: Entry Required</p> <p>Addressing: &&–ranging and &–grouping</p> <p>Description: DS3 AID, identifies the DS3 port.</p>
CTAG	<p>< 1–6 VALID CTAG CHARACTERS ></p> <p>Default: < System assigned CTAG value ></p> <p>Addressing: None</p> <p>Description: Correlation Tag, associates input command with its output responses.</p>
MONTYPE	<p>{ALL},</p> <p>NEAR_END_PARAMETERS:{AISS, AISS–P, AISSP, CV–L, CVL, CV–P, CVP, CVCP–P, CVCPP, ES–L, ESL, ES–P, ESP, ESA–L, ESAL, ESA–P, ESAP, ESACP–P, ESACPP, ESB–L, ESBP, ESB–P, ESBP, ESBP–P, ESBP–P, ESCP–P, ESCPP, FC–P, FCP, LOSS, LOSS–L, LOSSL, SAS–P, SASP, SES–L, SESL, SES–P, SESP, SESP–P, SESP–P, UAS–P, UASP, UASCP–P, UASCPP},</p> <p>FAR_END_PARAMETERS:{CVCP–P, CVCPP, ESACP–P, ESACPP, ESBP–P, ESBP–P, ESCP–P, ESCPP, FCCP–P, FCCPP, SASCP–P, SASCPP, SESP–P, SESP–P, UASCP–P, UASCPP}</p> <p>Default: Entry Required</p> <p>Addressing: None</p> <p>Description: Monitored Parameter Type, identifies the type of monitored parameter whose threshold level is to be set. A parameter may be specified by more than one value, e.g., parameter values may be entered with or without the dash (–). Refer to Appendix F, Monitored PM Parameters for a list of all monitored PM parameters. Values are:</p> <p>ALL All monitored parameter PM registers.</p>

AISS, AISS-P, AISSP	Alarm Indication Signal Seconds – Path, AISS register. (Near-end only.)
CV-L, CVL	Coding Violations – Line, CV-L register. (Near-end electrical T3 only.)
CV-P, CVP	Coding Violations – Path, CV-P register. (Near-end only.)
CVCP-P, CVCPP	Code Violations, CP-bit parity – Path, CVCP-P register.
ES-L, ESL	Errored Seconds – Line, ES-L register. (Near-end electrical T3 only.)
ES-P, ESP	Errored Seconds – Path, ES-P register. (Near-end only.)
ESA-L, ESAL	Errored Seconds type A – Line, ESA-L register. (Near-end electrical T3 only.)
ESA-P, ESAP	Errored Seconds type A – Path, ESA-P register. (Near-end only.)
ESACP-P, ESACPP	Errored Seconds type A, CP-bit parity – Path, ESACP-P register.
ESB-L, ESBL	Errored Seconds type B – Line, ESB-L register. (Near-end electrical T3 only.)
ESB-P, ESBP	Errored Seconds type B – Path, ESB-P register. (Near-end only.)
ESBCP-P, ESBCPP	Errored Seconds type B, CP-bit parity – Path, ESBCP-P register.
ESCP-P, ESCPP	Errored Seconds, CP-bit parity – Path, ESCP-P register.
FC-P, FCP	Failure Counts – Path, FC-P register. (Near-end only.)
FCCP-P, FCCPP	Failure Counts, CP-bit parity – Path, FC-P register. (Far-end only.)
LOSS, LOSS-L, LOSSL	Loss Of Signal Seconds – Line, LOSS register. (Near-end electrical T3 only.)
SAS-P, SASP	Severe AIS Seconds – Path, SAS-P register. (Near-end only.)
SASCP-P, SASCPP	Severe AIS Seconds, CP-bit parity – Path, SASCP-P register. (Far-end only.)
SES-L, SESL	Severely Errored Seconds – Line, SES-L register. (Near-end electrical T3 only.)
SES-P, SESP	Severely Errored Seconds – Path, SES-P register. (Near-end only.)
SESCP-P, SESCPP	Severely Errored Seconds, CP-bit parity – Path, SESCP-P register.
UAS-P, UASP	Unavailable Seconds – Path, UAS-P register. (Near-end only.)
UASCP-P, UASCPP	Unavailable Seconds, CP-bit parity – Path, UASCP-P register.
Restrictions:	SET-TH-T3 is denied if the specified MONTYPE value is not supported for the specified LOCN value (e.g., MONTYPE of AISS and LOCN of FEND is entered).

THLEV {0–4294967295, DFLT}
Default: Entry Required
Addressing: None
Description: Threshold Level, specifies the threshold level for which threshold–crossing event messages are generated for the monitored parameter identified by MONTYPE, LOCN, and TMPER. Uniquely defined values are:
 0 Specifies no threshold–crossing events are generated.
 DFLT Default, set the threshold level to the system–wide default value retrieved by the RTRV–DFLTTH–T3 command.
 THLEV values for each MONTYPE are shown below:

THLEV Values vs. MONTYPE		
MONTYPE	15–Minute Register	1–Day Register
ALL	{0–150, DFLT}	{0–14400, DFLT}
CV–L, CV–P, CVCP–P	{0–4294967295, DFLT}	{0–4294967295, DFLT}
FC–P, FCCP–P	{0–150, DFLT}	{0–14400, DFLT}
<All other MONTYPES>	{0–900, DFLT}	{0–65535, DFLT}

Restrictions: SET–TH–T3 is denied if the entered THLEV value is not valid for the specified MONTYPE.

LOCN {FEND, NEND}
Default: < All applicable locations for the selected monitored parameters >
Addressing: None
Description: Location, specifies whether threshold levels for near–end or far–end monitored parameters are to be set. Values are:
 FEND Far–End
 NEND Near–End
Restrictions: SET–TH–T3 is denied if the specified MONTYPE value is not supported for the specified LOCN value (e.g., MONTYPE of AISS and LOCN of FEND is entered).

DIRN {NA, RCV, TRMT}
Default: < All applicable directions >
Addressing: None
Description: Direction, specifies the direction of the signal being monitored. The value for DIRN is verified, but does not affect the function of the SET–TH–T3 command.
 NA Not Applicable
 RCV Receive side
 TRMT Transmit direction

TMPER {15–MIN, 1–DAY}
Default: {15–MIN}
Addressing: None
Description: Time Period, specifies whether threshold levels for the 15–minute or the daily (24 hour) PM collection register for the specified parameter is to be set. Values are:
 15–MIN 15–Minute PM collection register
 1–DAY 1–Day (24 hour) PM collection register

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  /* T3 PM threshold Database updated. */
  /* Error occurred while provisioning equipment. */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid /* Invalid location in request message. */ /* Invalid direction in request message. */ /* Invalid time period in request message. */ /* Invalid threshold level in request message. */ /* Invalid montype in request message. */ /* Threshold level is out of range. */
IIAC	Input, Invalid ACcess identifier /* AID not in Partition. */ /* Invalid AID entered. */
IIPG	Input, Invalid Parameter Grouping /* Invalid location for requested montype. */
SDBE	Status, internal Data Base Error /* Failed to set pointer to FM T3 record. */ /* Error reading default database. */ /* Error <ERRNO> reading from T3 Threshold database. */ /* Error <ERRNO> updating T3 Threshold database. */
SNVS	Status, Not in Valid State /* Facility is unprovisioned. */ /* AID not as provisioned. */
SROF	Status, Requested Operation Failed /* T3 Threshold Database updated. */ /* Could not get controlling level 2 processor id. */ /* Unable to allocate memory for user data. */ /* Unable to determine supporting facility entity. */ /* Unable to determine facility type. */

EXAMPLES

In the following example, the threshold level for the daily (1-Day) near-end unavailable seconds, path (UAS-P) PM register for DS3 port T3-1586 is set to 46.

```
SET-TH-T3::T3-1586:::UASP,46,,,1-DAY;
```


In the following example, the threshold level for the 15–Minute near–end coding violations, path (CV–P) PM register for DS3 port T3–1586 is set to the system default value.

```
SET-TH-T3::T3-1586::CVP,DFLT;
```

RELATED COMMANDS

```
ENT-T3  
INIT-REG-T3  
RTRV-DFLTTH-T3  
RTRV-PM-T3  
RTRV-PMATTR-ALL  
RTRV-PMODE-T3  
RTRV-TH-T3  
SET-DFLTTH-T3  
SET-PMATTR-ALL  
SET-PMODE-T3
```

RELATED AUTONOMOUS RESPONSES

```
REPT^EVT^T3
```


COMMAND CODE: **SET-TH-VT1**
COMMAND NAME: **SET THRESHOLD VT1**

PURPOSE

The SET-TH-VT1 command sets the threshold level for which a threshold-crossing event message is generated for the monitored parameter, identified by MONTYPE (monitored parameter type), LOCN (near-end or far-end location), and TMPER (15-minute or 1-day), pertaining to the specified VT1.5 port to the value specified by THLEV.

A SET-TH-VT1 command is denied if:

- The specified VT1.5 port is not provisioned (via ENT-VT1).
- The specified VT1.5 port is embedded within a protection OC-3 or OC-12.
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

SET-TH-VT1 : [TID] : AID : [CTAG] : : MONTYPE, THLEV, [LOCN] , [DIRN] , [TMPER] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >		
	Default:	<SID>	
	Addressing:	None	
	Description:	Target Identifier, specifies the network node TID for the command.	
AID	VT1_AID:		
	{EC1VT1-{1-3840}-{1-7}-{1-4}}	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)	
	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)	
	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}		
	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)		
	Default:	Entry Required	
	Addressing:	&&-ranging and &-grouping	
	Description:	VT1 AID, identifies the VT1.5 port.	
CTAG	< 1-6 VALID CTAG CHARACTERS >		
	Default:	< System assigned CTAG value >	
	Addressing:	None	
	Description:	Correlation Tag, associates input command with its output responses.	

MONTYPE {ALL},
NEAR_END_PARAMETERS:{ALS-V, ALSV, CV-V, CVV, ES-V, ESV, ESA-V, ESAV, ESB-V, ESBV, FC-V, FCV, SES-V, SESV, UAS-V, UASV},
FAR_END_PARAMETERS:{ALS-V, ALSV, CV-V, CVV, ES-V, ESV, ESA-V, ESAV, ESB-V, ESBV, FC-V, FCV, SES-V, SESV, UAS-V, UASV}
Default: Entry Required
Addressing: None
Description: Monitored Parameter Type, identifies the type of monitored parameter whose threshold level is to be set. A parameter may be specified by more than one value, e.g., parameter values may be entered with or without the dash (-). Refer to Appendix F, Monitored PM Parameters for a list of all monitored PM parameters. Values are:

ALL All monitored parameter PM registers.
ALS-V, ALSV Alarm Indication Signal/Loss of Pointer – VT Path, ALS-V register.
CV-V, CVV Coding Violations – VT Path, CV-V register.
ES-V, ESV Errored Seconds – VT Path, ES-V register.
ESA-V, ESAV Errored Seconds type A – VT Path, ESA-V register.
ESB-V, ESBV Errored Seconds type B – VT Path, ESB-V register.
FC-V, FCV Failure Counts – VT Path, FC-V register.
SES-V, SESV Severely Errored Seconds – VT Path, SES-V register.
UAS-V, UASV Unavailable Seconds – VT Path, UAS-V register.

THLEV {0-4294967295, DFLT}
Default: Entry Required
Addressing: None
Description: Threshold Level, specifies the threshold level for which threshold-crossing event messages are generated for the monitored parameter identified by MONTYPE, LOCN, and TMPER. Uniquely defined values are:

0 Specifies no threshold-crossing events are generated.
DFLT Default, set the threshold level to the system-wide default value retrieved by the RTRV-DFLTTH-VT1 command.

THLEV values for each MONTYPE are shown below:

THLEV Values vs. MONTYPE		
MONTYPE	15-Minute Register	1-Day Register
ALL	{0-150, DFLT}	{0-14400, DFLT}
CV-V	{0-4294967295, DFLT}	{0-4294967295, DFLT}
FC-V	{0-150, DFLT}	{0-14400, DFLT}
<All other MONTYPES>	{0-900, DFLT}	{0-65535, DFLT}

Restrictions: SET-TH-VT1 is denied if the entered THLEV value is not valid for the specified MONTYPE.

LOCN {FEND, NEND}
Default: < All applicable locations for the selected monitored parameters >
Addressing: None
Description: Location, specifies whether threshold levels for near-end or far-end monitored parameters are to be set. Values are:

FEND Far-End
NEND Near-End

DIRN	{NA, RCV, TRMT}	
	Default:	< All applicable directions >
	Addressing:	None
	Description:	Direction, specifies the direction of the signal being monitored. The value for DIRN is verified, but does not affect the function of the SET-TH-VT1 command.
	NA	Not Applicable
TMPER	RCV	Receive side
	TRMT	Transmit direction
	{15-MIN, 1-DAY}	
	Default:	{15-MIN}
	Addressing:	None
	Description:	Time Period, specifies whether threshold levels for the 15-minute or the daily (24 hour) PM collection register for the specified parameter is to be set. Values are:
	15-MIN	15-Minute PM collection register
	1-DAY	1-Day (24 hour) PM collection register

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  /* VT1 PM threshold Database updated. */
  /* Error occurred while provisioning equipment. */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid	/* Invalid location in request message. */
		/* Invalid direction in request message. */
		/* Invalid time period in request message. */
		/* Invalid threshold level in request message. */
		/* Invalid montype in request message. */
		/* Threshold level is out of range. */
IIAC	Input, Invalid ACcess identifier	/* AID not in Partition. */
		/* Invalid AID entered. */
IIPG	Input, Invalid Parameter Grouping	/* Invalid location for requested montype. */

SDBE	Status, internal Data Base Error /* Failed to set pointer to FM VT1 record. */ /* Error reading default database. */ /* Error <ERRNO> reading from VT1 Threshold database. */ /* Error <ERRNO> updating VT1 Threshold database. */
SNVS	Status, Not in Valid State /* Facility is unprovisioned. */ /* AID not as provisioned. */
SROF	Status, Requested Operation Failed /* VT1 Threshold Database updated. */ /* Could not get controlling level 2 processor id. */ /* Unable to allocate memory for user data. */ /* Unable to determine supporting facility entity. */ /* Unable to determine facility type. */

EXAMPLES

In the following example, the threshold level for the daily (1-Day) near-end and far-end unavailable seconds, VT path (UAS-V) PM register for VT1.5 port EC1VT1-626-7-3 is set to 46.

```
SET-TH-VT1::EC1VT1-626-7-3::UASV,46,,1-DAY;
```

In the following example, the threshold level for the 15-Minute near-end coding violations, VT path (CV-V) PM register for VT1.5 port EC1VT1-626-7-3 is set to the system default value.

```
SET-TH-VT1::EC1VT1-626-7-3::CVV,DFLT,NEND;
```

RELATED COMMANDS

```
ENT-VT1  
INIT-REG-VT1  
RTRV-DFLTTH-VT1  
RTRV-PM-VT1  
RTRV-PMATTR-ALL  
RTRV-PMODE-VT1  
RTRV-TH-VT1  
SET-DFLTTH-VT1  
SET-PMATTR-ALL  
SET-PMODE-VT1
```

RELATED AUTONOMOUS RESPONSES

```
REPT^EVT^VT1
```

COMMAND CODE: **SET-WARN-MSG**
COMMAND NAME: **SET WARNING MESSAGE**

PURPOSE

The SET-WARN-MSG command edits the warning message that is displayed in the autonomous REPT^EVT^SESSION message when a user logs-on (via ACT-USER) to the system.

The warning message can be up to 20 lines long and is edited one line at a time. Each text line can be seventy (70) characters long if the SET-WARN-MSG command is executed from the command line in the Direct Command Input Mode, or sixty (60) characters long if executed from the SET-WARN-MSG forms screen in the Command Input Forms Mode.

A SET-WARN-MSG command is denied if:

- An invalid parameter value is entered.

INPUT FORMAT

SET-WARN-MSG: [TID] : LINENUM: [CTAG] : : [TEXTLINE] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
LINENUM	{1-20} Default: Entry Required Addressing: None Description: Message Line Number, specifies the line number of the warning message to be edited.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
TEXTLINE	<1-70 VALID CHARACTERS> Default: <NoVal> Addressing: None Description: Message Text Line, specifies the text to be displayed in the warning message for line LINENUM. If the TEXTLINE value consists of any non-alphanumeric characters other than _ (underscore), +, %, or #, then the entered TEXTLINE value must be enclosed within double-quotes ("..."). If the user wants to put a space character between words in the message line, then the TEXTLINE value must be enclosed in double quotes since the space character is non-alphanumeric. If no value is entered for TEXTLINE, then no text in the warning message for the specified LINENUM is displayed nor is a blank line displayed in its place.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID [-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Optional Suggested Action Text> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIFM	Input, Invalid data ForMat
	/* Unable to read input parameter – status = <status number> */
	/* input parameter too long – status = <status number> */
	/* input parameter too long */
SDBE	Status, internal Data Base Error
	/* Unable to read security db – status = <status number> */
	/* Unable to update security db – status = <status number> */
SROF	Status, Requested Operation Failed

EXAMPLES

In the following example, line number 1 of the warning message is provisioned.

```
SET-WARN-MSG::1:::"WARNING - This is a secured system" ;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P2d010. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P2d010 COMPLD
/* SET-WARN-MSG::1:::"WARNING - This is a secured system" [P2d010] (1) */
;
```

RELATED COMMANDS

ACT-USER

RELATED AUTONOMOUS RESPONSES

REPT^EVT^SESSION

COMMAND CODE: **STA-ISU**
COMMAND NAME: **START IN-SERVICE UPGRADE**

PURPOSE

The STA-ISU command performs the disk partitioning, download, database manipulation, and new generic and/or exception system software preparation for the in-service upgrade procedure. The command brings the system to an upgrade ready state and set appropriate indicators to their respective states. The system continues to remain in service on the current generic until the INIT-SYS-NEW command is executed.

The STA-ISU allows the abort capability. If the command is aborted, all command processes are terminated and an INIT-SYS:::1 command is executed. If INIT-SYS is performed during STA-ISU execution, all system generic indicators are reset.

Upon command failure, STA-ISU effectively backs itself out. It resets all indicators and halts all processes. All system generic indicators are reset to indicate that the previous software generic and database are still active. If the STA-ISU does not complete successfully or if an INIT-SYS command is issued prior to the INIT-SYS-NEW command, the STA-ISU must be re-issued to perform an upgrade.

The parameter P3 in the STA-ISU command specifies the ISU option. The STA-ISU command with P3=EX-UPG combines the loading an exception with an normal mode ISU. The STA-ISU command with P3=LDEXC loads an exception. The STA-ISU command with P3=LDGEN partitions the hard disk and copy the new generic disk image. The STA-ISU command with P3=CONT continues a generic upgrade only after an STA-ISU command with P3=LDGEN has been successfully completed. The STA-ISU command with P3=RTEXC is used to back out the exception loading (i.e., the STA-ISU command with P3=LDEXC).

A copy of the currently provisioned database is made during execution of the STA-ISU command and used in the upgrade processing. Subsequent changes to this database during command processing are not carried into the upgraded database.

During STA-ISU execution, the system remains in-service and continues to provide protection switching and alarm reporting functionality on the current release. Autonomous messages to indicate the start and subsequent completion of specific phases of the upgrade operation are issued to the user.

After the completion of the STA-ISU command with P3=CONT or UPGRD or EXUPG and before the issuing of INIT-SYS-NEW command, the issuing of the STA-ISU with P3=LDEXC or RTEXC or LDGEN would undo the previous upgrade cycle and start a new upgrade cycle.

A STA-ISU command is denied if:

- The upgrade medium, optical disk or tape, has not been loaded into the required drive.
- The system hard disk has not been upgraded to the required larger disk size
- A database backup (via ACT-DB-BACKUP command) or an in-service upgrade (via STA-ISU command) is currently in progress.
- The system has not achieved a system ready state.
- The inserted generic or exception disk is not valid.
- An attempt to record the optional parameters in this command or in its subsequent execution of a script command fails.
- The command is entered with P3=CONT when the previous STA-ISU command with P3=LDGEN was not successfully completed.
- A generic transfer is in progress between the client and the 1631 SX LMC system.
- Parameter 3 (P3) value SEXUPG, LDGEN or CONT is specified with a DSK AID.
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

```
STA-ISU: [TID] :AID: [CTAG] : : P1=, P2=, P3=[, P4=] [, P5=] [, P6=] [, P7=] [, P8=]  
        [, P9=] [, P10=] [, P11=] [, P12=] [, P13=] [, P14=] [, P15=] [, P16=] [, P17=] [, P18=]  
        [, P19=] [, P20=] [, P21=] [, P22=] ;
```

INPUT PARAMETERS

TID	<p>< 1–20 VALID TID CHARACTERS ></p> <p>Default: <SID></p> <p>Addressing: None</p> <p>Description: Target Identifier, specifies the network node TID for the command.</p>
AID	<p>EQUIPMENT_AID:</p> <p>{DSK–1–3–1, DSK–1–4–2}</p> <p>{OPD–1–3–1, OPD–1–4–2}</p> <p>Default: Entry Required</p> <p>Addressing: None</p> <p>Description: Equipment AID, identifies the equipment object entity. Refer to Appendix B, Access Identifiers (AIDs) for a definition of equipment mnemonics. DSK–1–3–1 is the AID for the Copy 0 hard disk drive. DSK–1–4–2 identifies the Copy 1 hard disk drive. If both DSKs are in service, either may be specified.</p> <p>Restrictions: STA–ISU will be denied if the DSK specified is not in the in service (IS) state.</p>
CTAG	<p>< 1–6 VALID CTAG CHARACTERS ></p> <p>Default: < System assigned CTAG value ></p> <p>Addressing: None</p> <p>Description: Correlation Tag, associates input command with its output responses.</p>
P1=	<p><1 to 5 ALPHANUMERIC CHARACTERS></p> <p>Default: Entry Required</p> <p>Addressing: None</p> <p>Description: Parameter 1, specifies the logical in–service upgrade reversion key (ISUKEY) which validates the active software generic that is to be backed up to the previous revision. Valid values for the ISUKEY of P1 are a string of 1 through 5 ASCII alphanumeric characters (case sensitive) from the set {0–9,A–Z,a–z}. Note that spaces and special characters are not included.</p>
P2=	<p>{0,1}</p> <p>Default: Entry Required</p> <p>Addressing: None</p> <p>Description: Parameter 2, identifies the SCSI bus of the optical drive containing the generic media.</p>
P3=	<p>{EXUPG, LDEXC, LDGEN, CONT, UPGRD, RTEXC}</p> <p>Default: Entry Required</p> <p>Addressing: None</p> <p>Description: Parameter 3, specifies the in–service upgrade (ISU) option. The valid values for the ISU options are (case sensitive): EXUPG – combine the loading of an exception with a normal mode ISU. LDEXC – load an exception. LDGEN – partition the hard disk and copy the new generic disk image. CONT – continue a generic upgrade (only after an STA–ISU command with ISU option LDGEN has been successfully completed) UPGRD – perform the normal mode in–service upgrade. RTEXC – back out the exception loading.</p> <p>Restrictions: EXUPG, LDGEN and CONT are not valid with a DSK AID. STA–ISU will be denied if the DSK specified is not in service.</p>

P4=	<1 to 5 Alphanumeric Characters>
Default:	Entry Required for upgrade involving an exception disk, otherwise not applicable.
Addressing:	None
Description:	Parameter 4, specifies the exception keyword (EXCKEY) used to identify the correct exception disk. Valid values for the EXCKEY of P4 are a string of 1 through 5 ASCII alphanumeric characters (case sensitive) from the set {0–9,A–Z,a–z}. Note that spaces and special characters are not included.
P5=...P22=	<UP TO 5 ALPHANUMERIC CHARACTERS>
Default:	<Previously Existing Value>
Addressing:	None
Description:	Parameter 5 through Parameter 22, specifies information taken from the existing database/software generic and is dependent upon the upgrade being installed. Valid values for P5–P22 are a string of up to a maximum of 5 ASCII alphanumeric characters from the set {0–9, A–Z, a–z}. Up to twenty two of these optional parameters can be entered in the command. Note that spaces, lower case letters, and special characters are not included. These parameters are specific to and used internally by the upgrade being installed and may differ from generic to generic.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Optional Suggested Action Text> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier
SNVS	Status, Not in Valid State
SROF	Status, Requested Operation Failed
SSRE	Status, System Resources Exceeded

EXAMPLES

In the following example, the system is in an upgrade ready state.

```

STA-ISU::OPD-1-3-1:::P1=R8a1c,P2=0,P3=EXUPG,P4=Micky;
APS672 99-03-31 13:57:43
M P58450 COMPLD
  /* ISU Complete: Execute INIT-SYS-NEW to reset on New Generic */
  /* STA-ISU::OPD-1-3-1:::P1=R8a1c,P2=0,P3=EXUPG,P4=Micky [P58450] (4) */
```

3AL45392AJ

Issue 01, February 2005

RELATED COMMANDS

ACT-DB-BACKUP

INIT-SYS

INIT-SYS-NEW

STP-ISU

COMMAND CODE: **START-CID**
COMMAND NAME: **START COMMUNICATIONS INTERFACE
DEVICE**

PURPOSE

The START-CID command starts the output transmitted to the specified non-BINARY CPORT, non-X.25 CPORT, or specified X.25 virtual channel.

The resumed output begins with output corresponding to the point in time when the START-CID command is executed (any output that would have occurred while the CPORT or virtual channel was stopped is not transmitted when the output is started again).

A START-CID command is denied if:

- The specified CPORT has not previously been provisioned (via ENT-CID).
- The specified CPORT is already started (via a START-CID command).
- A VCNUM value of {1-8} is not entered and the CPORT's PROTOCOL parameter (refer to ENT-CID and ED-CID commands) is set to X25.
- A VCNUM value of {1-8} is entered and the CPORT's PROTOCOL parameter (refer to ENT-CID and ED-CID commands) is not set to X25.
- A VCNUM value of {1-32} is not entered and the CPORT's PROTOCOL parameter (refer to ENT-CID and ED-CID commands) is set to TCP.
- A VCNUM value of {1-32} is entered and the CPORT's PROTOCOL parameter (refer to ENT-CID and ED-CID commands) is not set to TCP.
- An invalid parameter value is entered.

INPUT FORMAT

START-CID: [TID] : CPORT, [VCNUM] : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >	
	Default:	<SID>
	Addressing:	None
	Description:	Target Identifier, specifies the network node TID for the command.
CPORT	{1-12}	
	Default:	Entry Required
	Addressing:	None
	Description:	Control Port, specifies the physical communication port number on the APS control system.

VCNUM	{1–32}	
	Default:	Entry required for an X.25 or TCP CPORT (the CPORT's PROTOCOL parameter is set to X25 or TCP). No entry allowed for a non-X.25 or non-TCP CPORT (the CPORT's PROTOCOL parameter is not set to X25 or TCP).
	Addressing:	&&–ranging and &–grouping
	Description:	Virtual Channel Number, specifies the X.25 virtual channel within the specified CPORT or the TCP session number within a TCP CPORT (i.e. the CPORT refers to a LAN on the ICM). Values are:
	{1–8}	X.25 virtual channel number within the specified X.25 CPORT.
	{1–32}	TCP session number within the specified TCP CPORT.
	Restrictions:	START–CID is denied if VCNUM of {1–8} is not entered and the CPORT's PROTOCOL parameter (refer to ENT–CID and ED–CID commands) is set to X25. START–CID is denied if VCNUM of {1–8} is entered and the CPORT's PROTOCOL parameter (refer to ENT–CID and ED–CID commands) is not set to X25. START–CID is denied if VCNUM of {1–32} is not entered and the CPORT's PROTOCOL parameter (refer to ENT–CID and ED–CID commands) is set to TCP. START–CID is denied if VCNUM of {1–32} is entered and the CPORT's PROTOCOL parameter (refer to ENT–CID and ED–CID commands) is not set to TCP.
CTAG	< 1–6 VALID CTAG CHARACTERS >	
	Default:	< System assigned CTAG value >
	Addressing:	None
	Description:	Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
/* Output started on CID <CPORT>[-<VCNUM>] */
/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

OUTPUT PARAMETERS

CPORT	{1–12}	Control Port, identifies the physical control port number.
VCNUM	{1–32}	Virtual Channel Number, identifies the X.25 virtual channel within the specified X.25 CPORT or the TCP session number within a TCP CPORT. A value for VCNUM is only returned if the PROTOCOL parameter in the ENT–CID or ED–CID command is set to X25 or TCP.

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
/* <Informational Error Description Text> */
/* <Expanded Error Code Description> */
/* <Optional Suggested Action Text> */
/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid
IIAC	Input, Invalid ACcess identifier
IPNV	Input, Parameter Not Valid
	/* CID <CPORT> does not exist */
	/* X25 vc <VCNUM> does not exist */
SDBE	Status, internal Data Base Error
	/* Unable to read OSDB – status = <status number> */
	/* Unable to update OSDB – status = <status number> */
SROF	Status, Requested Operation Failed
	/* session <session> does not exist */
	/* Invalid CID <CPORT> entered */
	/* This CID is pending removal */
	/* The user on this CID is in the process of logging out */
	/* Output on this CID is already started */

EXAMPLES

In the following example, the output transmission to CPORT 1 is started again.

```
START-CID::1;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P02018. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P02018 COMPLD
/* Output started on CID 1 */
/* START-CID::1 [P02018] (1) */
;
```

RELATED COMMANDS

```
DLT-CID
DLT-CID-VC
DLT-OSADDR-SITE
ED-CID
ED-CID-OSPORT
ED-CID-VC
ED-OSADDR-SITE
ED-PRMTR-SITE
ENT-CID
ENT-CID-VC
ENT-EQPT
ENT-OSADDR-SITE
RMV-CID
RST-CID
RTRV-CID
RTRV-EQPT
RTRV-OSADDR-SITE
RTRV-PRMTR-SITE
STOP-CID
STOP-OPS
```


COMMAND CODE: **START-ITMMODE**
COMMAND NAME: **START INSTALLATION TEST AND
MAINTENANCE MODE**

PURPOSE

The START-ITMMODE command starts the Installation Test and Maintenance (ITM) mode. The ITM test supports the testing of the GTI matrix cables.

Upon successful completion of a START-ITMMODE command, the CONDTYPE of ITMIP is set against the AID of COM and the inactive matrix copy inherits a new pre-defined connection map to perform the ITM test.

A START-ITMMODE command is denied if:

- An inactive matrix copy does not exist (selected via SELECT-COPY).
- The ITM MODE has already been started.
- A flashcut process has been started.
- The system is configured as a 240-port system.
- An invalid parameter value is entered.

INPUT FORMAT

START-ITMMODE: [TID] :: [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
[/* <Command Echo> [<CTAG>] (<CID>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

SNVS	Status, Not in Valid State /*START-ITMMODE already in progress.*/ /*STOP-ITMMODE currently in progress.*/
SRCN	Status, Requested CoNdition already exists /*ITM mode is currently active.*/
SROF	Status, Requested Operation Failed /*Unable to access memory for ITM auxiliary data.*/ /*Unable to send message to EM to start ITM mode.*/ /*Unable to queue START-ITMMODE aux buffer for EM request.*/ /*Unable to initiate ITM mode.*/ /*Timeout waiting for EM response to START-ITMMODE command.*/
SRQN	Status, invalid ReQuest /*Command not valid for 240 port system */

EXAMPLES

In the following example, the ITM mode is started.

```
START-ITMMODE;  
    <SID> <YY-MM-DD> <HH:MM:SS>  
M  P69238 COMPLD  
    /* ITM mode successfully initialized on matrix copy 0. */  
    /* START-ITMMODE [P69238] (1) */  
;
```

RELATED COMMANDS

```
RTRV-ITMRSLT  
SELECT-COPY  
START-ITMTEST  
STOP-ITMMODE  
STOP-ITMTEST
```

COMMAND CODE: **START-ITMTEST**
COMMAND NAME: **START INSTALLATION TEST AND
MAINTENANCE TEST**

PURPOSE

The START-ITMTEST command starts the Installation Test and Maintenance (ITM) test. The ITM test supports the testing of the GTI matrix cables. As part of the test all GTI errors such as loss of frame, loss of sync, and spills that are detected, no matter how transient they are, will be reported as GTI alarms. This may mean that intermittent GTI errors that are not reported as GTI alarms during normal system operation will be alarmed when this test is running.

If the response of the RTRV-ITMRSLT or the IP messages of the START-ITMTEST command show errors, then the RTRV-GTI-STATUS should be used to diagnose the problem.

Upon successful completion of a START-ITMTEST command, an In-Progress message is sent within the first two (2) seconds followed by an additional In-Progress message every elapsed 5 minutes. During the ITM test, all errors that are detected are not cleared until the test is finished. This means once a defect is detected, even if it clears, it will remain failed by the test. The In-Progress message will display the total number of errors (all types) detected by the test up to that point on a per-shelf basis.

A START-ITMTEST command is denied if:

- An ITM test is currently in progress.
- The ITM MODE has not been started (using START-ITMMODE).
- An invalid parameter value is entered.

INPUT FORMAT

START-ITMTEST: [TID] :: [CTAG] :: TESTTYPE, [TESTDURN] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
TESTTYPE	{MTXCBL} Default: Entry Required Addressing: None Description: Test Type, specifies the type of test. Values are: MTXCBL Matrix Cable Test
TESTDURN	{1, 15, 120, 240, 1440} Default: {1} Addressing: None Description: Test Duration, specifies the duration of time to test. Values are: 1 1 Minute 15 15 Minutes 120 120 minutes = 2 Hours 240 240 minutes = 4 Hours 1440 1440 minutes = 24 Hours

SUCCESSFUL RESPONSE FORMAT

The following successful response format is generated when TESTTYPE=MTXCBL:

```
[^^^<SID>^<YY-MM-DD>^<HH:MM:SS>
M^^<CTAG>^IP
^^^"<MTXCOPY>,<TESTTYPE>"
^^"<ES1SHLF>,<ES1ERR>"
^^^"<ES2SHLF>,<ES2ERR>"
^^^"<ES3SHLF>,<ES3ERR>"
^^^"<ES4SHLF>,<ES4ERR>"
^^^"<ES5SHLF>,<ES5ERR>"
^^^"<CS1SHLF>,<CS1ERR>"
^^^"<CS2SHLF>,<CS2ERR>"
^^^[/*<Command Echo> [<CTAG>] (<CID[-VCNUM]>)*/]
;]*

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD/PRTL
    "<MTXCOPY>,<TESTTYPE>"
["<ES1AID>,<ES1RSLT>,<GT2AID>,<GT2RSLT>,<GT3AID>,<GT3RSLT>,<IDRSLT>,<BERSLT>" ]*
    [/*<Command Echo> [<CTAG>] (<CID[-VCNUM]>)*/]
;]
```

OUTPUT PARAMETERS

MTXCOPY	{COPY0, COPY1}
	Matrix Copy. Values are:
	COPY0 Matrix Copy 0
	COPY1 Matrix Copy 1
TESTTYPE	{MTXCBL}
	Test Type, specifies the type of test. Values are:
	MTXCBL Matrix Cable Test
ES1SHLF	AID of ES1 Shelf 5-3-1 or 4-3-1.
ES2SHLF	AID of ES2 Shelf 10-3-1 or 11-3-1.
ES3SHLF	AID of ES3 Shelf 16-3-1 or 17-3-1.
ES4SHLF	AID of ES4 Shelf 23-3-1 or 22-3-1.
ES5SHLF	AID of ES5 Shelf 102-3-1 or 103-3-1.
CS1SHLF	AID of CS1 Shelf 2-3-1 or 3-3-1.
CS2SHLF	AID of CS2 Shelf 2-1-1 or 3-1-1.
ES1ERR	{xxxxx, NAV}
	Cumulative number of errors detected in ES1 Shelf.
	xxxxx Cumulative number of Errors detected.
	It starts at 00000 and stops when maximum count of 65534 is reached.
	NAV Test Result is Not Available
ES2ERR	{xxxxx, NAV}
	Cumulative number of errors detected in ES2 Shelf.
	xxxxx Cumulative number of Errors detected.
	It starts at 00000 and stops when maximum count of 65534 is reached.
	NAV Test Result is Not Available

ES3ERR	{xxxxx, NAV} Cumulative number of errors detected in ES3 Shelf. xxxxx Cumulative number of Errors detected. It starts at 00000 and stops when maximum count of 65534 is reached. NAV Test Result is Not Available
ES4ERR	{xxxxx, NAV} Cumulative number of errors detected in ES4Shelf. xxxxx Cumulative number of Errors detected. It starts at 00000 and stops when maximum count of 65534 is reached. NAV Test Result is Not Available
ES5ERR	{xxxxx, NAV} Cumulative number of errors detected in ES5Shelf. xxxxx Cumulative number of Errors detected. It starts at 00000 and stops when maximum count of 65534 is reached. NAV Test Result is Not Available
CS1ERR	{xxxxx, NAV} Cumulative number of errors detected in CS1Shelf. xxxxx Cumulative number of Errors detected. It starts at 00000 and stops when maximum count of 65534 is reached. NAV Test Result is Not Available
CS2ERR	{xxxxx, NAV} Cumulative number of errors detected in CS2Shelf. xxxxx Cumulative number of Errors detected. It starts at 00000 and stops when maximum count of 65534 is reached. NAV Test Result is Not Available
ES1AID	Identifies the AID of a provisioned first stage ES module. Values are: {M16-{4, 5, 10, 11, 16, 17, 22, 23}-3-{1-4, 9-12}} {M32-{4, 5, 10, 11, 16-17, 22, 23, 102, 103}-3-{1-4, 9-12}}
ES1RSLT	{EQP, OK,NAV} ES1 Result, identifies the result of the equipment test on the ES1 module. Values are: EQP The ES1 module is Faulty or Unequipped. OK The module is okay. NAV Test Result is Not Available
GT2AID	Identifies the AID of the GTI cable between the first stage ES and a CS. Values are: {G1M16-{2,3}-3-{1-16}-{1-16}} {G1M40-{2, 3}-{1, 3}-{1-16}-{1-40}}
GT2RSLT	{EQP, CON, OK,NAV} GT2 Result, identifies the result of the GTI test on the connection between the first stage ES and the CS. Values are: EQP The module is faulty or unequipped. CON The connection is faulty. OK The connection is okay. NAV Test Result is Not Available
GT3AID	Identifies the AID of the GTI cable between a CS and the third stage ES. {G1M16-{4, 5, 10, 11, 16, 17, 22, 23}-3-{5-8, 13-16}-{1-16}} {G1M32-{4, 5, 10, 11, 16, 17, 22, 23, 102, 103}-3-{5-8, 13-16}-{1-32}}

GT3RSLT	{EQP, CON, OK, NAV}	GT3 Result, identifies the result of the GTI test on the connection between the CS and the third stage ES. Values are:
	EQP	The module is faulty or unequipped.
	CON	The connection is faulty.
	OK	The connection is okay.
	NAV	Test Result is Not Available
IDRSLT	{MM, OK, NAV}	Identification Result, identifies the result of the Identification test. Values are:
	MM	ID Mismatch.
	OK	The connection is okay.
	NAV	Test Result is Not Available
BERSLT	Bit Error (BE) Test Result. Identifies the number of bit errors detected.	
	OK	The connection is OK.
	NOK	The connection is not OK.
	NAV	Test Result is Not Available

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid
	/*Unable to retrieve test duration parameter.*/
	/*Test duration parameter not found.*/
	/*Invalid test duration parameter specified.*/
SDBE	Status, internal Data Base Error
	/*Unable to create RTRV-ITMRSLT report file.*/
	/*Unable to open RTRV-ITMRSLT report file.*/
	/*Unable to print RTRV-ITMRSLT report file.*/
SNVS	Status, Not in Valid State
	/*STOP-ITMMODE command is currently in progress.*/
	/*START-ITMMODE command is currently in progress.*/
	/*ITM mode is not active.*/
SRCN	Status, Requested CoNdition already exists
	/*ITM test currently in progress.*/
SROF	Status, Requested Operation Failed
	/*Unable to access memory for ITM auxiliary buffer.*/
	/*Unable to initialize global I2p address array.*/
	/*Unable to queue ITM auxiliary buffer for in-progress status report.*/

EXAMPLES

In the following example, the ITM test is started and requested to execute for one minute.

```
START-ITMTEST:::MTXCBL,1;
```

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P69246 COMPLD
/* COPY0,MTXCBL */
/* M32-5-3-1,OK,G1M40-2-3-1-1,NAV,G1M32-5-3-5-1,OK,MM,OK */
/* M32-5-3-1,OK,G1M40-2-3-2-1,NAV,G1M32-5-3-5-2,OK,MM,OK */
/* M32-5-3-1,OK,G1M40-2-3-3-1,NAV,G1M32-5-3-5-3,OK,MM,OK */
/* M32-5-3-1,OK,G1M40-2-3-4-1,NAV,G1M32-5-3-5-4,OK,MM,OK */
/* M32-5-3-1,OK,G1M40-2-3-5-1,NAV,G1M32-5-3-5-5,OK,MM,OK */
/* M32-5-3-1,OK,G1M40-2-3-6-1,NAV,G1M32-5-3-5-6,OK,MM,OK */
/* M32-5-3-1,OK,G1M40-2-3-7-1,NAV,G1M32-5-3-5-7,OK,MM,OK */
/* M32-5-3-1,OK,G1M40-2-3-8-1,NAV,G1M32-5-3-5-8,OK,MM,OK */
/* M32-5-3-1,OK,G1M40-2-3-9-1,NAV,G1M32-5-3-5-9,OK,MM,OK */
/* M32-5-3-1,OK,G1M40-2-3-10-1,NAV,G1M32-5-3-5-10,OK,MM,OK */
/* M32-5-3-1,OK,G1M40-2-3-11-1,NAV,G1M32-5-3-5-11,OK,MM,OK */
/* M32-5-3-1,OK,G1M40-2-3-12-1,NAV,G1M32-5-3-5-12,OK,MM,OK */
/* M32-5-3-1,OK,G1M40-2-3-13-1,NAV,G1M32-5-3-5-13,OK,MM,OK */
/* M32-5-3-1,OK,G1M40-2-3-14-1,NAV,G1M32-5-3-5-14,OK,MM,NOK */
/* M32-5-3-1,OK,G1M40-2-3-15-1,NAV,G1M32-5-3-5-15,OK,MM,OK */
/* M32-5-3-1,OK,G1M40-2-3-16-1,NAV,G1M32-5-3-5-16,OK,MM,OK */
/* M32-5-3-2,OK,G1M40-2-3-1-2,NAV,G1M32-5-3-6-1,OK,MM,OK */
/* M32-5-3-2,OK,G1M40-2-3-2-2,NAV,G1M32-5-3-6-2,OK,MM,OK */
/* M32-5-3-2,OK,G1M40-2-3-3-2,NAV,G1M32-5-3-6-3,OK,MM,OK */
/* M32-5-3-2,OK,G1M40-2-3-4-2,NAV,G1M32-5-3-6-4,OK,MM,OK */
/* M32-5-3-2,OK,G1M40-2-3-5-2,NAV,G1M32-5-3-6-5,OK,MM,OK */
/* M32-5-3-2,OK,G1M40-2-3-6-2,NAV,G1M32-5-3-6-6,OK,MM,OK */
/* M32-5-3-2,OK,G1M40-2-3-7-2,NAV,G1M32-5-3-6-7,OK,MM,OK */
/* M32-5-3-2,OK,G1M40-2-3-8-2,NAV,G1M32-5-3-6-8,OK,MM,OK */
/* M32-5-3-2,OK,G1M40-2-3-9-2,NAV,G1M32-5-3-6-9,OK,MM,OK */
/* M32-5-3-2,OK,G1M40-2-3-10-2,NAV,G1M32-5-3-6-10,OK,MM,OK */
/* M32-5-3-2,OK,G1M40-2-3-11-2,NAV,G1M32-5-3-6-11,OK,MM,OK */
/* M32-5-3-2,OK,G1M40-2-3-12-2,NAV,G1M32-5-3-6-12,OK,MM,OK */
/* M32-5-3-2,OK,G1M40-2-3-13-2,NAV,G1M32-5-3-6-13,OK,MM,OK */
/* M32-5-3-2,OK,G1M40-2-3-14-2,NAV,G1M32-5-3-6-14,OK,MM,OK */
/* M32-5-3-2,OK,G1M40-2-3-15-2,NAV,G1M32-5-3-6-15,OK,MM,OK */
/* M32-5-3-2,OK,G1M40-2-3-16-2,NAV,G1M32-5-3-6-16,OK,MM,OK */
/* M32-5-3-3,OK,G1M40-2-3-1-3,NAV,G1M32-5-3-7-1,OK,MM,OK */
/* M32-5-3-3,OK,G1M40-2-3-2-3,NAV,G1M32-5-3-7-2,OK,MM,OK */
/* M32-5-3-3,OK,G1M40-2-3-3-3,NAV,G1M32-5-3-7-3,OK,MM,OK */
/* M32-5-3-3,OK,G1M40-2-3-4-3,NAV,G1M32-5-3-7-4,OK,MM,OK */
/* M32-5-3-3,OK,G1M40-2-3-5-3,NAV,G1M32-5-3-7-5,OK,MM,NOK */
/* M32-5-3-3,OK,G1M40-2-3-6-3,NAV,G1M32-5-3-7-6,OK,MM,OK */
/* M32-5-3-3,OK,G1M40-2-3-7-3,NAV,G1M32-5-3-7-7,OK,MM,OK */
/* M32-5-3-3,OK,G1M40-2-3-8-3,NAV,G1M32-5-3-7-8,OK,MM,OK */
/* M32-5-3-3,OK,G1M40-2-3-9-3,NAV,G1M32-5-3-7-9,OK,MM,OK */
/* M32-5-3-3,OK,G1M40-2-3-10-3,NAV,G1M32-5-3-7-10,OK,MM,OK */
/* M32-5-3-3,OK,G1M40-2-3-11-3,NAV,G1M32-5-3-7-11,OK,MM,OK */
/* M32-5-3-3,OK,G1M40-2-3-12-3,NAV,G1M32-5-3-7-12,OK,MM,OK */
/* M32-5-3-3,OK,G1M40-2-3-13-3,NAV,G1M32-5-3-7-13,OK,MM,OK */
/* M32-5-3-3,OK,G1M40-2-3-14-3,NAV,G1M32-5-3-7-14,OK,MM,OK */
/* M32-5-3-3,OK,G1M40-2-3-15-3,NAV,G1M32-5-3-7-15,OK,MM,OK */
/* M32-5-3-3,OK,G1M40-2-3-16-3,NAV,G1M32-5-3-7-16,OK,MM,OK */
/* M32-5-3-4,OK,G1M40-2-3-1-4,NAV,G1M32-5-3-8-1,OK,MM,OK */
/* M32-5-3-4,OK,G1M40-2-3-2-4,NAV,G1M32-5-3-8-2,OK,MM,OK */
/* M32-5-3-4,OK,G1M40-2-3-3-4,NAV,G1M32-5-3-8-3,OK,MM,OK */
/* M32-5-3-4,OK,G1M40-2-3-4-4,NAV,G1M32-5-3-8-4,OK,MM,OK */
/* M32-5-3-4,OK,G1M40-2-3-5-4,NAV,G1M32-5-3-8-5,OK,MM,OK */

```

```
/* M32-5-3-4,OK,G1M40-2-3-6-4,NAV,G1M32-5-3-8-6,OK,MM,OK */  
/* M32-5-3-4,OK,G1M40-2-3-7-4,NAV,G1M32-5-3-8-7,OK,MM,OK */  
/* M32-5-3-4,OK,G1M40-2-3-8-4,NAV,G1M32-5-3-8-8,OK,MM,OK */  
/* M32-5-3-4,OK,G1M40-2-3-9-4,NAV,G1M32-5-3-8-9,OK,MM,OK */  
/* M32-5-3-4,OK,G1M40-2-3-10-4,NAV,G1M32-5-3-8-10,OK,MM,OK */  
/* M32-5-3-4,OK,G1M40-2-3-11-4,NAV,G1M32-5-3-8-11,OK,MM,OK */  
/* M32-5-3-4,OK,G1M40-2-3-12-4,NAV,G1M32-5-3-8-12,OK,MM,OK */  
/* M32-5-3-4,OK,G1M40-2-3-13-4,NAV,G1M32-5-3-8-13,OK,MM,OK */  
/* START-ITMTEST:::::MTXCBL,1 [P69246] (1) */
```

RELATED COMMANDS

```
RTRV-ITMRSLT  
START-ITMMODE  
STOP-ITMMODE  
STOP-ITMTEST
```


COMMAND CODE: **START-MON-CPORT**
COMMAND NAME: **START MONITORING CONTROL PORT**

PURPOSE

The START-MON-CPORT command is used to enable monitoring of activities on one or more selected non-BINARY CPORTs. Selective CPORT Monitoring is disabled when the monitoring user is subscribed to the OSL W flag parameter (refer to the ENT-USER or ED-PRVG-USER commands).

Successive execution of the START-MON-CPORT command adds a new CPORT to the list of existing CPORTs being monitored. Any changes in the monitoring of CPORTs (i.e., adding a port to the existing list via START-MON-CPORT command, or if the monitoring user subscribes to the OSL W flag parameter) take effect immediately (i.e., it is not required to logout and login again for the change to take affect).

The list of CPORTs selected for CPORT monitoring survives a logout, i.e., if the user logs out and re-logs in, the previous set of CPORT values will be in affect. The CPORT selection (via the START-MON-CPORT and STOP-MON-CPORT TL1 commands) also survives a database restoral.

If a user wants to monitor all of the I/O activities (input and output) on one or more selected CPORTs other than one's own I/O activities, the user should be provisioned as follows:

- The monitoring user should not have the W flag in the user's OSL parameter value set.
The OSL W flag has precedence over selective CPORT monitoring.
- The monitoring user should have the O flag in the user's OSL parameter value set.
If O is not present in the monitoring user's OSL, the user will not receive the command echo line in any output response message.
- The monitoring user should have a UCFCO of Z.
The UCFCO parameter controls the set of TL1 commands executed by other users for which the user will receive an output response message.

Note that the output for a BINARY CPORT is not transmitted to a monitoring user, regardless if the monitoring user has included the BINARY CPORT in the list of monitored CPORTs.

The following limitations pertain to the monitoring of one or more selected CPORTs:

- The output response message on the monitored and the monitoring CPORTs may show different data if the user's individual UCFCO and OSL filters are not identical.
- Nested CPORT monitoring is not supported. Only response messages originating from a CPORT in the CPORT monitoring list will appear as an unsolicited message. For example, if CPORTs #1 and #2 are monitored by CPORT #3, and if CPORT #3 is monitored by CPORT #4, the unsolicited messages on CPORT #4 will not show the output related to a manual TL1 command originated by CPORTs #1 and #2. CPORT #4 will only display response messages for CPORTs #3 and #4.
- Autonomous KAM (Keep Alive Message) and "RUSURE" prompts are transmitted to the originator only and are not transmitted to the monitoring CPORT.
- A monitoring CPORT does not receive output response messages while a user on a monitored CPORT is executing commands in the "shell".
- If the CPORT's PROTOCOL is TCP or X.25, then all X.25 channels or TCP sessions are monitored.

A START-MON-CPORT command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

START-MON-CPORT: [TID] :CPORT: [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >
Default:	<SID>
Addressing:	None
Description:	Target Identifier, specifies the network node TID for the command.

CPORT	{ {1–12}, ALL}	
	Default:	Entry Required
	Addressing:	&&–ranging and &–grouping
	Description:	Control Port, specifies the physical communication port number on the APS control system. The specified CPORT is added to the list of monitored CPORTs. CPORT values are not verified for system configuration or provisioning.
	{1–12}	CPORT Number
	ALL	All, specifies all CPORTs 1 –12 are added to the list of monitored CPORTs. Note that the output for a BINARY CPORT can not be monitored, regardless if the BINARY CPORT is in the list of monitored CPORTs.
CTAG	< 1–6 VALID CTAG CHARACTERS >	
	Default:	< System assigned CTAG value >
	Addressing:	None
	Description:	Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  /* <CPORT> is already being Monitored */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

OUTPUT PARAMETERS

CPORT	{1–12}
	Control Port, identifies the physical control port number.

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
  /* <Informational Error Description Text> */
  /* <Expanded Error Code Description> */
  /* <Optional Suggested Action Text> */
  /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIFM	Input, Invalid data ForMat /* Unable to read input parameter – status = <nnn> */
IPNV	Input, Parameter Not Valid /* Error in set CPORT Monitoring Flag – status = <nnn> */
SDBE	Status, internal Data Base Error /* Unable to read USDB – status = <status number> */ /* Unable to update USDB – status = <status number> */

EXAMPLES

In the following example, START-MON-CPORT is used to enable monitoring of CPORTs 3 through 6.

```
START-MON-CPORT: :3&&6;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of Pa8008. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M Pa8008 COMPLD
/* START-MON-CPORT::3 [Pa8008] (1) */
;

<SID> <YY-MM-DD> <HH:MM:SS>
M Pa8008 COMPLD
/* START-MON-CPORT::4 [Pa8008] (1) */
;

<SID> <YY-MM-DD> <HH:MM:SS>
M Pa8008 COMPLD
/* START-MON-CPORT::5 [Pa8008] (1) */
;

<SID> <YY-MM-DD> <HH:MM:SS>
M Pa8008 COMPLD
/* START-MON-CPORT::6 [Pa8008] (1) */
;
```

RELATED COMMANDS

```
ENT-USER
ED-PRVG-USER
RTRV-MON-CPORT
RTRV-PRVG-USER
STOP-MON-CPORT
```


COMMAND CODE: **START-OPS**
COMMAND NAME: **START OPERATIONS**

PURPOSE

The START-OPS command causes the system to exit the Limited Command Execution mode and enter the Normal Command Execution mode of operation. (The Limited Command Execution mode is entered by executing a STOP-OPS command.)

The execution of the START-OPS command is allowed by being in either the Limited Command Execution mode or the Normal Command Execution mode. If the START-OPS command is executed in the "normal" mode, the DBRID and DBSID are required. The DBRID and DBSID provide database restoral validation and "RU Sure" type handshaking as performed in the "limited" mode of the RESTORE-DB command and are displayed when the desired database is restored.

Execution of a START-OPS command is equivalent to execution of an INIT-SYS:::3 if a database restoral operation was performed (a RESTORE-DB command was executed), or equivalent to execution of an INIT-SYS:::1 if a database restoral operation was not performed (a RESTORE-DB command was not executed). The time required for execution of a START-OPS command varies depending on system size and whether a database restoral was performed.

When the system returns to the Normal Command Execution mode, via the START-OPS command, the system automatically returns CID1 and CID 6 to their pre-Limited mode of operation (e.g., the users that had been logged-in on CID 1 and CID 6 will automatically be logged-in on CID 1 and CID 6, respectively, when the system returns to the Normal Command Execution mode via the START-OPS command).

A START-OPS command is denied if:

- The system is already in the Normal Command Execution mode.
- A database restoral is in-progress (a RESTORE-DB command is in-progress).
- MODE of NORM is entered and the result of the command execution restores an un-initialized or un-populated database (restores a database that has not had any facility provisioning).
- The command is executed in the "normal" mode without the DBRID or DBSID.
- The command is executed in the "normal" mode and the DBRID or DBSID do not match the alternate database being restored.
- An invalid parameter value is entered.

INPUT FORMAT

START-OPS : [TID] : : [CTAG] : : [MODE] [,DBRID] [,DBSID] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >	
	Default:	<SID>
	Addressing:	None
	Description:	Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS >	
	Default:	< System assigned CTAG value >
	Addressing:	None
	Description:	Correlation Tag, associates input command with its output responses.
MODE	{FRCD, NORM}	
	Default:	{NORM}
	Addressing:	None
	Description:	Command Execution Mode. Values are:
	FRCD	Forced. The command is completed even if the result of its execution restores an un-initialized or un-populated database (a database that has not had any facility provisioning).
	NORM	Normal. The command is denied if the result of its execution restores an uninitialized or unpopulated database (a database that has not had any facility provisioning).

DBRID	{R07-00-00}	
	Default:	<Entry Required for Normal Command Execution mode>
	Addressing:	None
	Description:	Database Release Identification, identifies the Database Release ID as in the database label of the alternate database being restored. The format of DBRID is <RLSTYPE><RLSNUM><IREV><MREV> and is of the same format as returned in the RTRV-DB-LABEL. The values are:
	RLSTYPE	Release Type, identifies the software release type {F, P, R}.
	RLSNUM	Release Number, identifies the software release number {00-99}.
	IREV	Intermediate Revision, identifies the intermediate release revision {00-99}.
	MREV	Maintenance Revision, identifies the maintenance release revision {00-99}.
	Restrictions:	START-OPS is denied if the command is executed in the "normal" mode and DBRID is not entered. START-OPS is denied if the DBRID does not match the alternate database being restored.
DBSID	<1-20 CHARACTER SID>	
	Default:	<Entry Required for Normal Command Execution mode>
	Addressing:	None
	Description:	Database Site ID, identifies the Database Site ID as in the database label of the alternate database being restored. The format is of the same format as returned in the RTRV-DB-LABEL.
	Restrictions:	START-OPS is denied if the command is executed in the "normal" mode and DBSID is not entered. START-OPS is denied if the DBSID does not match the alternate database being restored.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
/* NORMAL OPERATIONS STARTING */
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Optional Suggested Action Text> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid
IPMS	Input, Parameter MiSsing
SROF	Status, Requested Operation Failed

/* Already in NORMAL operations mode */
/* START-OPS not allowed while RESTORE-DB in progress */
/* Database has NOT been populated after a CREATE31DB, must use FRCD mode */

EXAMPLES

In the following example, the Normal Command Execution mode is started by executing a START-OPS command while in the Limited Command Execution mode.

```
START-OPS;
```

The output response, shown below, assumes CID 3 was used to enter the command and a system generated CTAG value of P03016. The response header would contain the provisioned Site ID of the system, and the date and time the commands were executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
M P03016 COMPLD  
/* NORMAL OPERATIONS STARTING */  
/* START-OPS [P03016] (3) */  
;
```

RELATED COMMANDS

```
INIT-SYS  
RESTORE-DB  
RTRV-DB-LABEL  
STOP-OPS
```


COMMAND CODE: **START-UPGRADE**
COMMAND NAME: **START UPGRADE**

PURPOSE

The START-UPGRADE command indicates to the system that a matrix upgrade procedure is going to be started.

If MODE=NORM, all IO shelves are queried if they detect any problems on either matrix side. If a problem is detected, the START-UPGRADE command is denied. Executing a START-UPGRADE command sets a UPGRD1344, UPGRD2688, or UPGRD3360 condition.

A START-UPGRADE command is denied if:

- A MODE of NORM or FRCD is issued and the system is data or clock locked to a copy.
- A MODE of NORM is issued and the system has any GTI alarms present.
- A MODE of NORM is issued and the result is service-affecting.
- A UPGRD1344, UPGRD2688, or UPGRD3360 condition is set.
- A SELECT-COPY, VRFY-COPY, or another START-UPGRADE command is already in progress.
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

START-UPGRADE : [TID] :: [CTAG] :: [MODE] , TGTMTXSIZE ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
MODE	{FRCD, NORM} Default: {NORM} Addressing: None Description: Command Execution Mode. Values are: FRCD Forced. NORM Normal.
TGTMTXSIZE	{1344, 2688, 3360} Default: {1344} Addressing: None Description: Target Matrix Size, specifies the targeted size of the matrix after the upgrade. Values are: 1344 Specifies the targeted matrix size equals 1344 equivalent ports. 2688 Specifies the targeted matrix size equals 2688 equivalent ports. 3360 Specifies the targeted matrix size equals 3360 equivalent ports.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Optional Suggested Action Text> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent /* Provisioned End Stage Type must be M32 in a 2688 system. */ /* Target matrix size must be larger than current matrix size. */ /* Must upgrade to a 1344 matrix size from a 672 matrix size. */ /* APS equipment is improperly configured. <card_type> not allowed in 2688. */ /* Must upgrade to a 1344 matrix size from a 240 matrix size. */
IIAC	Input, Invalid ACcess identifier /* Invalid parameters in the input command. */
SARB	Status, All Resources Busy /* SELECT-COPY or START-UPGRADE is in progress. */ /* VRFY-COPY is in progress. */ /* SELECT-COPY is in progress. */
SDBE	Status, internal Data Base Error /* Unable to update system configuration file. */ /* Error opening report file. */ /* Error accessing report file. */
SNVS	Status, Not in Valid State /* Upgrade is in progress.*/ /* Matrix is locked to a side. */ /* At least one matrix side is not available. */ /* CLKLCK0/CLKLCK1 alarm exists on the system. */ /* Power modules are unable to provide power */ /* Power card unable to provide power. */ /* Error reading matrix shelf. */ /* <AID> is not available. */ /* <AID> and <AID> are not available. */ /* <AID>, <AID>, <AID>, and <AID> are not available. */ /* <AID> and <AID> cannot provide clock. */ /* Error reading database for AID. */ /* Error reading database for <AID> or its mate. */ /* The switch currently has GTI alarms on the matrix modules. */ /* Emergency User Access is currently active. */
SROF	Status, Requested Operation Failed /* Unable to allocate USI response buffer. */ /* Invalid upgrade type is detected */ /* One or more provisioned shelves did not respond to the CAN-YOU-SWITCH query. */ /* Invalid upgrade size is detected */

EXAMPLES

In the following example, a matrix upgrade procedure is going to be started from a 1344 port matrix to a 2688 port matrix.

```
START-UPGRADE:::::,2688;
```

RELATED COMMANDS

```
SELECT-COPY  
STOP-UPGRADE  
VRFY-COPY
```


COMMAND CODE: **STOP-CID**
COMMAND NAME: **STOP COMMUNICATIONS INTERFACE
DEVICE**

PURPOSE

The STOP-CID command stops the output transmitted to the specified non-BINARY CPORT, non-SNIDER CPORT, non-TABS CPORT, non-X.25 CPORT, or specified X.25 virtual channel. Command input from a “stopped” CPORT or virtual channel is not affected by the command (a user can stop the output to the user's CID but still execute commands from the CID).

The output to a “stopped” CPORT or virtual channel can be resumed by executing a START-CID command. The resumed output begins with output corresponding to the point in time when the START-CID command is executed (any output that would have occurred while the CPORT or virtual channel was stopped is not transmitted when the output is started again).

A STOP-CID command is denied if:

- The specified CPORT has not previously been provisioned (via ENT-CID).
- The specified CPORT is already stopped (via a STOP-CID command).
- The specified CPORT is a Binary Port, SNIDER port or a TABS port.
- A VCNUM value of {1–8} is not entered and the CPORT's PROTOCOL parameter (refer to ENT-CID and ED-CID commands) is set to X25.
- A VCNUM value of {1–8} is entered and the CPORT's PROTOCOL parameter (refer to ENT-CID and ED-CID commands) is not set to X25.
- A VCNUM value of {1–32} is not entered and the CPORT's PROTOCOL parameter (refer to ENT-CID and ED-CID commands) is set to TCP.
- A VCNUM value of {1–32} is entered and the CPORT's PROTOCOL parameter (refer to ENT-CID and ED-CID commands) is not set to TCP.
- An invalid parameter value is entered.

INPUT FORMAT

STOP-CID: [TID] : CPORT, [VCNUM] : [CTAG] ;

INPUT PARAMETERS

TID	< 1–20 VALID TID CHARACTERS >	
	Default:	<SID>
	Addressing:	None
	Description:	Target Identifier, specifies the network node TID for the command.
CPORT	{1–12}	
	Default:	Entry Required
	Addressing:	None
	Description:	Control Port, specifies the physical communication port number on the APS control system.

VCNUM	{1–32}	
	Default:	Entry required for an X.25 or TCP CPORT (the CPORT's PROTOCOL parameter is set to X25 or TCP). No entry allowed for a non-X.25 or non-TCP CPORT (the CPORT's PROTOCOL parameter is not set to X25 or TCP).
	Addressing:	&&–ranging and &–grouping
	Description:	Virtual Channel Number, specifies the X.25 virtual channel within the specified CPORT or the TCP session number within a TCP CPORT (i.e. the CPORT refers to a LAN on the ICM). Values are:
	{1–8} X.25 virtual channel number within the specified X.25 CPORT. {1–32} TCP session number within the specified TCP CPORT.	
	Restrictions:	STOP–CID is denied if VCNUM of {1–8} is not entered and the CPORT's PROTOCOL parameter (refer to ENT–CID and ED–CID commands) is set to X25. STOP–CID is denied if VCNUM of {1–8} is entered and the CPORT's PROTOCOL parameter (refer to ENT–CID and ED–CID commands) is not set to X25. STOP–CID is denied if VCNUM of {1–32} is not entered and the CPORT's PROTOCOL parameter (refer to ENT–CID and ED–CID commands) is set to TCP.
CTAG	< 1–6 VALID CTAG CHARACTERS >	
	Default:	< System assigned CTAG value >
	Addressing:	None
	Description:	Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
/* Output stopped on CID <CPORT>[-<VCNUM>] */
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

OUTPUT PARAMETERS

CPORT	{1–12}	Control Port, identifies the physical control port number.
VCNUM	{1–32}	Virtual Channel Number, identifies the X.25 virtual channel within the specified X.25 CPORT or the TCP session number within a TCP CPORT. A value for VCNUM is only returned if the PROTOCOL parameter in the ENT–CID or ED–CID command is set to X25 or TCP.

UNSUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Optional Suggested Action Text> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non–Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid
IIAC	Input, Invalid ACcess identifier
IPNV	Input, Parameter Not Valid
	/* CID <CPORT> does not exist */
	/* X25 vc <VCNUM> does not exist */
SDBE	Status, internal Data Base Error
	/* Unable to read OSDB – status = <status number> */
	/* Unable to update OSDB – status = <status number> */
SROF	Status, Requested Operation Failed
	/* session <session> does not exist */
	/* Invalid CID <CPORT> entered */
	/* This CID is pending removal */
	/* The user on this CID is in the process of logging out */
	/* Output on this CID is already stopped */

EXAMPLES

In the following example, the output transmitted to CPORT 3 is stopped.

```
STOP-CID::3;
```

The output response, shown below, assumes CID 3 was used to enter the command and a system generated CTAG value of P03016. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P03016 COMPLD
/* Output stopped on CID 3 */
/* STOP-CID::3 [P03016] (3) */
;
```

RELATED COMMANDS

DLT-CID
DLT-CID-VC
DLT-OSADDR-SITE
ED-CID
ED-CID-OSPORT
ED-CID-VC
ED-OSADDR-SITE
ED-PRMTR-SITE
ENT-CID
ENT-CID-VC
ENT-EQPT
ENT-OSADDR-SITE
RMV-CID
RST-CID
RTRV-CID
RTRV-EQPT
RTRV-OSADDR-SITE
RTRV-PRMTR-SITE
START-CID
STOP-OPS

COMMAND CODE: **STOP-ITMMODE**
COMMAND NAME: **STOP INSTALLATION TEST AND
MAINTENANCE MODE**

PURPOSE

The STOP-ITMMODE command stops the Installation Test and Maintenance (ITM) mode. The ITM test supports the testing of the GTI matrix cables.

Upon successful completion of a STOP-ITMMODE command, the CONDDTYPE of ITMIP which was set against the AID of COM is cleared and the inactive matrix copy inherits the connection map from the active matrix copy (if one exists).

A STOP-ITMMODE command is denied if:

- The ITM mode has not already been started (using START-ITMMODE).
- A START-ITMTEST is currently in progress.
- An invalid parameter value is entered.

INPUT FORMAT

STOP-ITMMODE: [TID] : : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
[/* <Command Echo> [<CTAG>] (<CID>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

SNVS	Status, Not in Valid State /*STOP-ITMMODE command is currently in progress.*/ /*START-ITMMODE command is currently in progress.*/ /*ITM test is currently in progress.*/
------	---

SRCN	Status, Requested CoNdition already exists /*Not currently in ITM mode.*/
SROF	Status, Requested Operation Failed /*Unable to send STOP-ITMMODE command to EM.*/ /*Unable to queue STOP-ITMMODE aux buffer for EM request.*/ /*Unable to access memory for ITM auxiliary data.*/ /*Unable to queue ITM auxiliary buffer for STOP-ITMMODE request.*/ /*Unable to re-queue aux buffer for STOP-ITMMODE I2p response.*/ /*Unable to terminate ITMMODE.*/ /*Timeout on EM response to STOP-ITMMODE command. STOP-ITMMODE command not completed.*/ /*STOP-ITMMODE failed due to SPB address initialization error.*/

EXAMPLES

In the following example, the ITM mode is aborted.

```
STOP-ITMMODE;  
  
    <SID> <YY-MM-DD> <HH:MM:SS>  
M  P69251 COMPLD  
    /* STOP-ITMMODE [P69251] (1) */
```

RELATED COMMANDS

```
RTRV-ITMRSLT  
START-ITMMODE  
START-ITMTEST  
STOP-ITMTEST
```

COMMAND CODE: **STOP-ITMTEST**
COMMAND NAME: **STOP INSTALLATION TEST AND
MAINTENANCE TEST**

PURPOSE

The STOP-ITMTEST command stops the Installation Test and Maintenance (ITM) test. The ITM test supports the testing of the GTI matrix cables.

A STOP-ITMTEST command is denied if:

- A START-ITMTEST is not currently in progress.
- An invalid parameter value is entered.

INPUT FORMAT

STOP-ITMTEST: [TID] : : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
[/* <Command Echo> [<CTAG>] (<CID>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Command Echo> [<CTAG>] (<CID>[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

SNVS	Status, Not in Valid State /*ITM test termination in progress (duration expired).*/
SRCN	Status, Requested CoNdition already exists /*No ITM test in progress.*/
SROF	Status, Requested Operation Failed /*Unable to access memory for ITM auxiliary buffer.*/ /*Unable to queue ITM auxiliary buffer for in-progress status report.*/

EXAMPLES

In the following example, the ITM test is aborted.

```
STOP-ITMTEST;  
  
    <SID> <YY-MM-DD> <HH:MM:SS>  
M  P69240 COMPLD  
    /* STOP-ITMTEST [P69240] (1) */
```

RELATED COMMANDS

```
RTRV-ITMRSLT  
START-ITMMODE  
START-ITMTEST  
STOP-ITMMODE
```

COMMAND CODE: **STOP-MON-CPORT**
COMMAND NAME: **STOP MONITORING CONTROL PORT**

PURPOSE

The STOP-MON-CPORT command is used to disable the CPORT monitoring of activities on one or more selected CPORTs that were established with the START-MON-CPORT command. The successful completion of the command removes the existing selected CPORTs from the list of CPORTs being monitored. Selective CPORT Monitoring is also disabled when the monitoring user is subscribed to the OSL W flag parameter (refer to the ENT-USER or ED-PRVG-USER commands).

Successive execution of the STOP-MON-CPORT command removes the specified CPORT from the existing CPORTs being monitored. Any changes in the monitoring of CPORTs (i.e., adding a port to the existing list via START-MON-CPORT command, or if the monitoring user subscribes to the OSL W flag parameter) take effect immediately (i.e., it is not required to logout and login again for the change to take affect).

The list of CPORTs selected for CPORT monitoring survives a logout, i.e., if the user logs out and re-logs in, the previous set of CPORT values will be in affect. The CPORT selection (via the START-MON-CPORT and STOP-MON-CPORT TL1 commands) also survives a database restoral.

A successful response is returned (the command completes) even if the specified CPORT is not currently being monitored.

A STOP-MON-CPORT command is denied if:

- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

STOP-MON-CPORT: [TID] : CPORT: [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CPORT	{ {1-12}, ALL} Default: Entry Required Addressing: &&-ranging and &-grouping Description: Control Port, specifies the physical communication port number on the APS control system. The specified CPORT is deleted from the list of monitored CPORTs. CPORT values are not verified for system configuration or provisioning. {1-12} CPORT Number. ALL All, specifies all CPORTs 1 -12 are deleted from the list of monitored CPORTs.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* <CPORT> is not being Monitored */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

OUTPUT PARAMETERS

CPORT {1–12}
 Control Port, identifies the physical control port number.

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Optional Suggested Action Text> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNV	Input, Data Not Valid
IIFM	Input, Invalid data ForMat
	/* Unable to read input parameter – status = <nnn> */
IPNV	Input, Parameter Not Valid
	/* Error in set CPORT Monitoring Flag – status = <status number> */
SDBE	Status, internal Data Base Error
	/* Unable to read USDB – status = <status number> */
	/* Unable to update USDB – status = <status number> */

EXAMPLES

In the following example, STOP-MON-CPORT is used to disable monitoring of CPORTs 2 and 6. The example assumes that CPORT 6 is not currently being monitored by the user.

```
STOP-MON-CPORT::2&6;
```

The output response, shown below, assumes CID 1 was used to enter the command and a system generated CTAG value of P73061. The response header would contain the provisioned Site ID of the system, and the date and time the command was executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P73061 COMPLD
  /* STOP-MON-CPORT::2 [P73061] (1) */
;

<SID> <YY-MM-DD> <HH:MM:SS>
M P73061 COMPLD
  /* 6 is not being Monitored */
  /* STOP-MON-CPORT::6 [P73061] (1) */
;
```

RELATED COMMANDS

ENT-USER
ED-PRVG-USER
RTRV-MON-CPORT
RTRV-PRVG-USER
START-MON-CPORT

COMMAND CODE: **STOP-OPS**
COMMAND NAME: **STOP OPERATIONS SYSTEM**

PURPOSE

The STOP-OPS command causes the system to exit the Normal Command Execution mode and enter the Limited Command Execution mode of operation so that a database restoral can be performed. The system returns to the Normal Command Execution mode by executing a START-OPS command.

The Limited Command Execution mode limits the commands that can be executed during a database restoral so that a stable database is assured during the database restoral process. Only the following commands can be executed while the system is in the Limited Command Execution mode.

- RESTORE-DB
- RTRV-DB-LABEL
- START-OPS
- RMV-CID
- RST-CID
- RTRV-CID
- ACT-USER
- CANC-USER
- DLT-IP-FILTER
- DLT-IP-PRMTR
- DLT-IP-STATICRT
- ED-IP-STATICRT
- ED-IP-PRMTR
- ED-PRMTR-SITE
- ED-RIP-PRMTR
- ENT-IP-FILTER
- ENT-IP-PRMTR
- ENT-IP-STATICRT
- INIT-SYS-OLD
- RTRV-FTP-USER
- RTRV-IP-FILTER
- RTRV-IP-PRMTR
- RTRV-IP-STATICRT
- RTRV-PRMTR-SITE
- RTRV-RIP-PRMTR

When the system enters the Limited Command Execution mode (via a STOP-OPS command), the system administrator (UID of "system" or "SYSTEM") is automatically logged-in on CID 1 (CPORT 1) and the system printer (UID of "sysprint") is automatically logged-in on CID 6 (CPORT 6). (Note. When the system returns to the Normal Command Execution mode, via the START-OPS command, the system automatically returns CID1 and CID 6 to their pre-Limited mode of operation, i.e., the users that had been logged-in on CID 1 and CID 6 are automatically logged-in on CID 1 and CID 6, respectively, when the system returns to the Normal Command Execution mode via the START-OPS command.)

A STOP-OPS command is denied if:

- The system is already in the Limited Command Execution mode.
- An invalid parameter value is entered.

The STOP-OPS command is not inherently service-affecting, but execution of the command restricts the commands that can be executed. Commands to perform provisioning, cross-connections, manual protection switching, etc. are not allowed while the system is in the Limited Command Execution mode. However, automatic I/O protection switching still occurs while the system is in the Limited Command Execution mode.

INPUT FORMAT

STOP-OPS: [TID] : : [CTAG] ;

INPUT PARAMETERS

TID	< 1–20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1–6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
/* NORMAL OPERATIONS STOPPING */
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
<ERROR CODE>
[/* <Informational Error Description Text> */]
[/* <Expanded Error Code Description> */]
[/* <Optional Suggested Action Text> */]
[/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

SROF Status, Requested Operation Failed
 /* Already in DB RESTORE operations mode */

EXAMPLES

In the following example, the Normal Command Execution mode is halted and the Limited Command Execution mode of operation is entered by executing a STOP-OPS command.

```
STOP-OPS;
```

The output response, shown below, assumes CID 3 was used to enter the command and a system generated CTAG value of P03016. The response header would contain the provisioned Site ID of the system, and the date and time the commands were executed.

```
<SID> <YY-MM-DD> <HH:MM:SS>
M P03016 COMPLD
/* NORMAL OPERATIONS STOPPING */
/* STOP-OPS [P03016] (3) */
;
```

RELATED COMMANDS

RESTORE-DB
RTRV-DB-LABEL
START-OPS

COMMAND CODE: **STOP-UPGRADE**
COMMAND NAME: **STOP UPGRADE**

PURPOSE

The STOP-UPGRADE command indicates to the system that an upgrade procedure is to be stopped.

Executing a STOP-UPGRADE command clears the UPGRD1344, UPGRD2688 or UPGRD3360 condition that is common to the system.

A STOP-UPGRADE command is denied if:

- A UPGRD1344, UPGRD2688 or UPGRD3360 condition is not set.
- One copy of the matrix is M16 while the other copy of the matrix is M40.
- One copy of the end stage matrix is M16 while the other copy of the matrix is M32, within a clover leaf.
- A RPB is present in a IPB slot of a shelf that is defined as a half bandwidth shelf or if an IPB is present in a slot of a shelf that is defined as a full bandwidth shelf.
- A SELECT-COPY, VRFY-COPY, or another STOP-UPGRADE command is already in progress.
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

STOP-UPGRADE: [TID] : : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/ * <Informational Error Description Text> */]
  [/ * <Expanded Error Code Description> */]
  [/ * <Optional Suggested Action Text> */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier /* Invalid parameters in the input command. */
SARB	Status, All Resources Busy /* VRFY-COPY is in progress. */ /* SELECT-COPY is in progress. */ /* SELECT-COPY or START-UPGRADE is in progress. */
SDBE	Status, internal Data Base Error /* Unable to update system configuration file. */
SNVS	Status, Not in Valid State /* Upgrade is not in progress.*/
SROF	Status, Requested Operation Failed /* Unable to allocate USI response buffer. */ /* Invalid upgrade type is detected */ /* Center Stage matrix sides have different card types */

EXAMPLES

In the following example, the upgrade procedure is stopped.

```
STOP-UPGRADE;
```

RELATED COMMANDS

```
START-UPGRADE
```

COMMAND CODE: **STP-ISU**
COMMAND NAME: **STOP IN-SERVICE UPGRADE**

PURPOSE

The STP-ISU command performs an abort of the generic upgrade procedure (STA-ISU command) and sets the generic indicators to their appropriate state. The system continues to remain in service on the current generic. To perform an upgrade once this command has been issued, the upgrade must be restarted from the beginning. A new STA-ISU command must be reissued and the procedure allowed to run to completion for an upgrade to be created. The INIT-SYS-NEW command is denied subsequent to this command being executed.

Upon entry of the STP-ISU command, all scripts and processes associated with the STA-ISU command are terminated and an INIT-SYS::1 command is automatically invoked to reset the system.

If the STP-ISU command issued subsequent to a successful STA-ISU command, the request is successful and all generic/database indicators are reset to indicate that the previous generic is now the active generic.

An STP-ISU command is denied if:

- The command is issued after a failed STA-ISU.
- A STA-ISU command is not in progress and has not been previously issued.
- An INIT-SYS-NEW command is in progress.
- An invalid parameter value or combination of parameter values is entered.

INPUT FORMAT

STP-ISU: [TID] : : [CTAG] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS > Default: <SID> Addressing: None Description: Target Identifier, specifies the network node TID for the command.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.

SUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Optional Suggested Action Text> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

SROF Status, Requested Operation Failed

EXAMPLES

In the following example, the generic upgrade procedure is aborted.

```
STP-ISU;
```

RELATED COMMANDS

INIT-SYS-NEW

STA-ISU

COMMAND CODE: **SW-DX-EQPT**
COMMAND NAME: **SWITCH DUPLEX EQUIPMENT**

PURPOSE

The SW-DX-EQPT command performs a copy switch for the specified one-for-one redundant (duplex) ACM, CDB, CIM, CPU, DSB, ICM, IPU, MCB, OXB, SIO, or SPB equipment (the active copy becomes standby and the standby copy becomes active). Either copy of equipment can be specified; the command performs a copy switch regardless of which copy of equipment is specified.

If a ACM, CIM, CPU, ICM, SIO, or SPB entity is specified, executing a SW-DX-EQPT command sets a SST of STBYC on the previously active copy of equipment and clears the SST of STBYC on the previously standby copy of equipment (SST of STBYC is applied to the standby copy of equipment). If a DSB entity is specified, executing a SW-DX-EQPT command sets a SST of STBYH on the previously active copy of equipment and clears the SST of STBYH on the previously standby copy of equipment (SST of STBYH is applied to the standby copy of equipment).

A SW-DX-EQPT command is denied if MODE of NORM is entered and the active ICM or SIO specified is supporting CPORT. In this case, a MODE of FRCD is used and the standby ICM or SIO must be fully functional.

A SW-DX-EQPT command is denied if MODE of NORM or FRCD is entered and a ACM, CIM, CPU, ICM, SIO, or SPB equipment entity is specified, and the standby copy of equipment is not fully functional (does not have a PST of IS). A SW-DX-EQPT command is denied if MODE of NORM or FRCD is entered and a DSB equipment entity is specified, and the standby copy of equipment is not fully functional (does not have a PST, SST of IS, STBYH).

If MODE of FRCD is entered and an AID for a CDB, MCB, or OXB is specified, a copy switch is performed even if the standby copy of equipment is partially failed (has a PST of IS-ANR). (If a copy switch to a partially failed standby copy of equipment is performed and automatic copy switching is not disabled, via an INH-SW-EQPT command, the system will automatically revert back to the functional copy of equipment.) A SW-DX-EQPT command is denied if MODE of FRCD is entered, an AID for a CDB, MCB, or OXB is specified, and the standby copy of equipment is faulty (has a PST of OOS-AU).

A SW-DX-EQPT command is denied if:

- Both copies of the specified equipment entity have not previously been provisioned with the ENT-EQPT command.
- A MODE of NORM is entered, and the standby copy of equipment is not fully functional (does not have a PST of IS).
- A MODE of FRCD is entered, and an AID for a ACM, CIM, CPU, DSB, ICM, IPU, SIO, or SPB is specified, and the standby copy of equipment is Out-of-Service (does not have a PST of IS or IS-ANR).
- A MODE of FRCD is entered, an AID for a CDB, MCB, or OXB is specified, and the standby copy of equipment is faulty or Management-Out-of-Service (has a PST of OOS-AU, OOS-MA or OOS-AUMA).
- A MODE of NORM is entered with either copy of ICM or SIO specified, and the active ICM or SIO is supporting a CPORT.
- An invalid parameter value is entered.

INPUT FORMAT

SW-DX-EQPT: [TID] : AID: [CTAG] : : [MODE] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >
Default:	<SID>
Addressing:	None
Description:	Target Identifier, specifies the network node TID for the command.

AID	EQUIPMENT_AID:
	{ACM-1-2-{3-7, 10-14}} {CDB-{5}-{1, 3}-{1, 2}} CDB-{2-43,104-111,112-135,136-141}-{1, 3}-{1, 2} {SI36: CDB-{6-9, 12-15, 18-21, 24-43}-{1, 3}-{1-2}, {SI48: CDB-{2-43,104-111,112-135,136-141}-{1, 3}-{1, 2}} {CIM-1-2-{3-7, 10-14}} {CPU-1-2-{1-2}} {DSB-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{1-2}} {ICM-1-2-{1, 2, 8, 9}} {IPU-{44-63}-{1-4}-{1-8}} {MCB-{2,3}-3-1} {MCB-{5}-{1, 3}-{1}} {OXB-{44-63}-{1-4}-{1-2}} {SIO-1-2-{1-2, 8-9}} {SPB-{2-43, 102-111, 112-135, 136-141}-{1, 3}-{1-2}} {SPB-{5}-{1, 3}-{1, 2}} Default: Entry Required Addressing: None Description: Equipment AID, identifies the equipment object entity. Refer to Appendix B, Access Identifiers (AIDs) for a definition of equipment mnemonics.
CTAG	< 1-6 VALID CTAG CHARACTERS > Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
MODE	{FRCD, NORM} Default: {NORM} Addressing: None Description: Command Execution Mode. Values are: FRCD Forced, switch to the opposite copy of equipment even if it's faulty (has a PST of IS-ANR) or service affecting. NORM Normal, switch to the opposite copy of equipment only if it's functional (PST of IS) and non-service affecting.

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/* The SW-DX-EQPT for <AID> was completed. */]
  [/* <AID> cold start complete. */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

OUTPUT PARAMETERS

AID EQUIPMENT_AID:
 {ACM-1-2-{3-7, 10-14}}
 {CDB-5}-{1, 3}-{1, 2}}
 CDB-{2-43,104-111,112-135,136-141}-{1, 3}-{1, 2}
 {SI36: CDB-{6-9, 12-15, 18-21, 24-43}-{1, 3}-{1-2},
 {SI48: CDB-{2-43,104-111,112-135,136-141}-{1, 3}-{1, 2}
 {CIM-1-2-{3-7, 10-14}}
 {CPU-1-2-{1-2}}
 {DSB-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{1-2}}
 {ICM-1-2-{1, 2, 8, 9}}
 {IPU-{44-63}-{1-4}-{1-8}}
 {MCB-{2,3}-3-1}
 {MCB-{5}-{1, 3}-{1}}
 {OXB-{44-63}-{1-4}-{1-2}}
 {SIO-1-2-{1-2, 8-9}}
 {SPB-{2-43, 102-111, 112-135, 136-141}-{1, 3}-{1-2}}
 {SPB-{5}-{1, 3}-{1, 2}}
 Equipment AID, identifies the equipment entity.

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent /* Unable to read aux buffer for <AID>. */
IIAC	Input, Invalid ACcess identifier /* The SW-DX-EQPT was rejected. */ /* Invalid or unassigned equipment identifier specified. */
SAAL	Status, Already ALlowed /* Unexpected message response from <AID> – response expected from Slave.*/

SARB Status, All Resources Busy
 /* The SW-DX-EQPT for %s was rejected. */
 /* The command was rejected. */
 /* Command already in progress on equipment. */
 /* Automatic system configuration active on equipment. */
 /* Automatic configuration of parent processor in progress */

SDBE Status, internal Data Base Error
 /* The SW-DX-EQPT for %s was rejected. */
 /* DSB data base access failure. */
 /* Error accessing auxiliary EM data area. */
 /* Error accessing TMG database. */
 /* Error accessing data base for <AID> */
 /* Error accessing database for mate mcb <AID>. */
 /* Error accessing auxiliary EM data area for <AID>. */
 /* Error updating database for <AID> */
 /* Data base access failure. */

SNVS Status, Not in Valid State
 /* The SW-DX-EQPT was rejected. */
 /* <AID> is not in an IS state. */
 /* The protection card is in an invalid state. */
 /* No active parent processor available. */
 /* Command not valid for current state of equipment. */

SROF Status, Requested Operation Failed
 /* The SW-DX-EQPT for <AID> was rejected. */
 /* Switchover not possible. */
 /* The request could cause service effect if performed. */
 /* No equipment available for switchover. */
 /* The SW-DX-EQPT for <AID> failed. */
 /* Parent processor returned unsuccessful response. */
 /* The card is already under protection. */
 /* Bridging was in progress. Try the command again. */
 /* The SW-DX-EQPT for <AID> was aborted. */
 /* Did not receive a response from parent processor card. */
 /* SPB failed activate request for <AID>. */
 /* <AID> has a SYNC 166 error. */
 /* Unrecognized slot in AID <AID>. */
 /* One or more provisioned IO shelves did not respond to the can-you-switch query. */
 /* Auto system action caused override. */
 /* CDB command denied because clock on<AID> cannot switch. */
 /* CDB command denied because data on<AID> cannot switch. */
 /* No switch over response was received for <AID>. */
 /* The CDBs on <AID> can not switch. */
 /* IO <AID> can not switch. */
 /* <AID> can not switch. */
 /* No response from the IPB. */
 /* Error reading MCB clock copy table – <AID> not found. */
 /* Error accessing data base for <AID>. */
 /* <AID> is not IS. */
 /* <AID> is OOS. */
 /* <AID> is not powered. */
 /* <AID> has been Deleted. */
 /* Error reading aux buffer for <AID>. */
 /* <AID> has a SYNC 166 error. */


```

/* Unrecognized slot in AID <AID>. */
/* <AID> has insufficient power. */
/* MCB equipment not ready. Try again later. */
/* MCB equipment not warmed up. Try again later. */
/* MCB link not up. It must be repaired. */
/* Error reading CDB Clock Select Table – <AID> not found. */
/* Error reading Mate Clock Path Table – <AID> not found. */
/* Error reading Mate Clock Path Table – <AID> not found. */
/* Unrecognized slot in AID <AID>. */
/* <AID> has insufficient power. */
/* MCB equipment not ready. Try again later. */
/* MCB equipment not warmed up. Try again later. */
/* MCB link not up. It must be repaired. */
/* Error reading CDB Clock Select Table – <AID> not found. */
/* Error reading Mate Clock Path Table – <AID> not found. */
/* Unrecognized slot in AID <AID>. */
/* Unrecognized subrack type. */
/* Unrecognized aid <AID> in CHK_CLK_PARMS structure */
/* <AID> is not valid.*/
/* Error reading I/O shelf copy selection database. shelf = <SHELF_INDEX>. */
/* SELECT-COPY has locked the matrix to copy 0. */
/* SELECT-COPY has locked the matrix to copy 1*/
/* Parent processor returned unsuccessful response. */
/* The card is already under protection */
/* Bridging was in-progress. Try the command again. */
SSRE      Status, System Resources Exceeded
          /* The command was rejected. */
          /* Unable to allocate USI response buffer. */
SWFA      Status, Working unit Failed
          /* <AID> has failed. */

```

EXAMPLES

In the following example, a SPB copy switch is performed (the active copy becomes standby and the standby copy becomes active).

```
SW-DX-EQPT: :SPB-4-1-1;
```

RELATED COMMANDS

```

ALW-SW-EQPT
ENT-EQPT
INH-SW-EQPT
RTRV-EQPT
RTRV-STATE-EQPT

```


COMMAND CODE: **SW-TOPROTN-EQPT**
COMMAND NAME: **SWITCH TO PROTECTION EQUIPMENT**

PURPOSE

The SW-TOPROTN-EQPT command switches the specified (main) I/O circuit pack to the associated I/O protection circuit pack if (automatic and manual) I/O protection switching for the specified I/O circuit pack is not currently inhibited (via an INH-SWTOPROTN-EQPT command).

For SW-TOPROTN-EQPT to be successfully executed:

- Protection switching must be enabled,
- If a MODE of NORM is entered, I/O protection circuit pack must have a state of IS,STBYH.
- If a MODE of FRCD is entered, I/O protection circuit pack must have a state of IS,STBYH or IS-ANR,STBYH

In addition, if an EP3 circuit pack is specified, the “next card protection” I/O circuit pack (i.e., the I/O circuit pack that is not a protection circuit pack and is installed in the shelf to the left of the I/O circuit pack to be protected) must have a state of IS if MODE of NORM is entered or either IS or IS-ANR if MODE of FRCD is entered.

Executing a SW-TOPROTN-EQPT command sets a SST of STBYH on the specified (main) I/O circuit pack, if it has a PST of IS or IS-ANR, and clears the SST of STBYH on the I/O protection circuit pack.

Executing a SW-TOPROTN-EQPT command sets a MANWKSWPR condition type for the specified (main) I/O circuit pack.

A SW-TOPROTN-EQPT command is denied if:

- The specified equipment entity has not previously been provisioned with the ENT-EQPT command.
- I/O protection switching is inhibited (via an INH-SWTOPROTN-EQPT command) for the specified I/O circuit pack.
- The specified I/O circuit pack is already switched to protection (has a SST of STBYH or a condition type of MANWKSWPR or WKSWPR).
- A MODE of NORM is entered and the associated I/O protection circuit pack is either not fully functional or is currently providing protection (does not have a state of IS,STBYH).
- A MODE of FRCD is entered and the associated I/O protection circuit pack is either out-of-service or is currently providing protection (does not have a state of IS,STBYH or IS-ANR,STBYH).
- A MODE of NORM is entered, and an EP3 circuit pack is specified, and the associated “next card protection” I/O circuit pack is not fully functional (does not have a PST of IS).
- A MODE of FRCD is entered, and an EP3 circuit pack is specified, and the associated “next card protection” I/O circuit pack is out-of-service (does not have a PST of IS or IS-ANR).
- The specified AID identifies a protection I/O circuit pack.
- The I/O circuit pack to be switched to is OOS-MA, or OOS,AUMA.
- An invalid parameter value is entered.

INPUT FORMAT

SW-TOPROTN-EQPT: [TID] :AID: [CTAG] :: [MODE] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >
Default:	<SID>
Addressing:	None
Description:	Target Identifier, specifies the network node TID for the command.

AID	EQUIPMENT_AID:
	{DSI-{44-63}-{1-4}-{1-7, 9-15, 17-23, 25-31}} {SI48: EP3-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42, 136-141 }-{1, 3}-{2-9, 11-18}, EP3-{9, 21, 35, 43}-3-{2-9, 11-18}, EP3-{15, 27, 31, 39}-1-{2-9, 11-18}} {SI36: EP3-{6-8, 12-14}-{1, 3}-{2-7, 9-14}, EP3-9-3-{2-7, 9-14}, EP3-15-1-{2-7, 9-14}} {SI48: ES1-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42}-{1, 3}-{2-9, 11-18}, ES1-{9, 21, 35, 43}-3-{2-9, 11-18}, ES1-{15, 27, 31, 39}-1-{2-9, 11-18}} {SI36: ES1-{6-8, 12-14}-{1, 3}-{2-7, 9-14}, ES1-9-3-{2-7, 9-14}, ES1-15-1-{2-7, 9-14}} {HMU-{44-53}-{1-4}-{1-8}} {LMU-{44-53}-{1-4}-{1-7, 9-15, 17-23, 25-31}} Default: Entry Required Addressing: None Description: Equipment AID, identifies the equipment object entity. Refer to Appendix B, Access Identifiers (AIDs) for a definition of equipment mnemonics.
CTAG	< 1-6 VALID CTAG CHARACTERS >
	Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
MODE	{FRCD, NORM}
	Default: {NORM} Addressing: None Description: Command Execution Mode. Values are: FRCD Forced, switch to protection even if the result of its execution may be service-affecting (e.g., the I/O protection circuit pack is faulty). NORM Normal, switch to protection only if the I/O protection circuit pack is functional and available (a state of IS,STBYH).

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * The SW-TOPROTN-EQPT for <AID> was completed. */]
  [/ * The SW-TOPROTN-EQPT for <AID> was completed with errors. */]
  [/ * Traffic has been forced to bad module. */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

OUTPUT PARAMETERS

AID **EQUIPMENT_AID:**
 {DSI-{44-63}-{1-4}-{1-7, 9-15, 17-23, 25-31}}
 {SI48: EP3-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42,
 136-141}-{1, 3}-{2-9, 11-18},
 EP3-{9, 21, 35, 43}-3-{2-9, 11-18},
 EP3-{15, 27, 31, 39}-1-{2-9, 11-18}}
 {SI36: EP3-{6-8, 12-14}-{1, 3}-{2-7, 9-14},
 EP3-9-3-{2-7, 9-14},
 EP3-15-1-{2-7, 9-14}}
 {SI48: ES1-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42}-{1, 3}-{2-9, 11-18},
 ES1-{9, 21, 35, 43}-3-{2-9, 11-18},
 ES1-{15, 27, 31, 39}-1-{2-9, 11-18}}
 {SI36: ES1-{6-8, 12-14}-{1, 3}-{2-7, 9-14},
 ES1-9-3-{2-7, 9-14},
 ES1-15-1-{2-7, 9-14}}
 {HMU-{44-53}-{1-4}-{1-8}}
 {LMU-{44-53}-{1-4}-{1-7, 9-15, 17-23, 25-31}}
 I/O Equipment AID, identifies the equipment entity.

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent /* Unable to read aux buffer for <AID>. */
IIAC	Input, Invalid ACcess identifier /* The command was rejected. */ /* Invalid AID for the given slot. */ /* Invalid or unassigned equipment identifier specified. */ /* A non-protection card must be specified in the request. */ /* Invalid command for a TGR card. */ /* The SW-TOPROTN-EQPT for <AID> was rejected. */ /* An invalid module type specified in request. */
SAPS	Status, Already in Protection State /* The card is already under protection. */ /* The HMU pair is already providing protection. */ /* The SW-TOPROTN-EQPT for <AID> was rejected. */
SARB	Status, All Resources Busy /* The command was rejected. */ /* Command already in progress on equipment. */ /* Automatic system configuration active on equipment. */ /* Automatic configuration of parent processor in progress */ /* The SW-TOPROTN-EQPT for <AID> was rejected. */

SDBE	Status, internal Data Base Error /* Data base access failure. */ /* Error accessing auxiliary EM data area. */ /* The SW-TOPROTN-EQPT for <AID> was rejected. */ /* Error accessing auxilliary EM data area. */ /* DSB data base access failure. */ /* The SW-TOPROTN-EQPT for <AID> was completed with errors. */ /* DSB data base access failure. */ /* The command was rejected. */
SNVS	Status, Not in Valid State /* Command not valid for current state of equipment. */ /* The main card is in an invalid state. */ /* The protection card is in an invalid state. */ /* The SW-TOPROTN-EQPT for <AID> was rejected. */ /* The SW-TOPROTN-EQPT for <AID> was completed with errors. */ /* Error accessing L2P database for id <L2P address>. */ /* No active parent processor available */
SRCI	Status, Requested Command Inhibited /* Switching to protection inhibited. */ /* Switching to protection inhibited. (<AID>) */ /* The SW-TOPROTN-EQPT for <AID> was rejected. */
SROF	Status, Requested Operation Failed /* The protect card is currently busy. */ /* The command was rejected. */ /* Switchover not possible. */ /* No equipment available for switchover. */ /* Parent processor returned unsuccessful response. */ /* The card is already under protection. */ /* Bridging was in progress. Try the command again. */ /* The SW-TOPROTN-EQPT for <AID> failed. */ /* The SW-TOPROTN-EQPT for <AID> was aborted. */ /* The SW-TOPROTN-EQPT for <AID> was rejected. */ /* Did not receive a response from parent processor card */ /* Encountered invalid response status (status) from parent processor. */ /* Standby card has line defect/BER. */ /* Standby card did not respond. */ /* Next card did not respond. */ /* Active card is not available/bad */ /* Standby card is not available/bad. */ /* Next card is not available/bad. */ /* Auto system action caused override. */
SSRE	Status, System Resources Exceeded /* The command was rejected. */ /* Unable to allocate USI response buffer. */

EXAMPLES

In the following example, EP3-8-1-4 is switched to the protection circuit pack (EP3-8-1-1).

```
SW-TOPROTN-EQPT : EP3-8-1-4;
```

RELATED COMMANDS

```
ALW-SWTOPTN-EQPT  
ALW-SWTOWKG-EQPT  
ENT-EQPT  
INH-SWTOPTN-EQPT  
INH-SWTOWKG-EQPT  
RTRV-EQPT  
RTRV-STATE-EQPT  
SW-TOWKG-EQPT
```


COMMAND CODE: **SW-TOWKG-EQPT**
COMMAND NAME: **SWITCH TO WORKING EQUIPMENT**

PURPOSE

The SW-TOWKG-EQPT command switches from the protection I/O circuit pack back to the specified main (working) I/O circuit pack if (automatic and manual) I/O switch to working for the specified I/O circuit pack is not currently inhibited (by an INH-SWTOWKG-EQPT command).

In order for a SW-TOWKG-EQPT command to execute, I/O switch to working must be enabled, and the specified (main) I/O circuit pack must have a state of IS,STBYH if MODE of NORM is entered or either IS,STBYH or IS-ANR,STBYH if MODE of FRCD is entered.

Executing a SW-TOWKG-EQPT command clears the SST of STBYH on the specified I/O circuit pack and sets a SST of STBYH on the I/O protection circuit pack.

Executing a SW-TOWKG-EQPT command clears the MANWKSWPR condition type for the specified I/O circuit pack.

A SW-TOWKG-EQPT command is denied if:

- The specified equipment entity has not previously been provisioned with the ENT-EQPT command.
- I/O switch to working is inhibited (via an INH-SWTOWKG-EQPT command) for the specified I/O circuit pack.
- The specified I/O circuit pack is not currently switched to protection (does not have a SST of STBYH and a condition type of MANWKSWPR or WKSWPR).
- A MODE of NORM is entered, and the specified I/O circuit pack is not fully functional (does not have a state of IS,STBYH).
- A MODE of FRCD is entered, and the specified I/O circuit pack is out-of-service (does not have a state of IS,STBYH or IS-ANR,STBYH).
- The specified AID identifies a protection I/O circuit pack.
- An invalid parameter value is entered.

INPUT FORMAT

SW-TOWKG-EQPT: [TID] :AID: [CTAG] :: [MODE] ;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >
Default:	<SID>
Addressing:	None
Description:	Target Identifier, specifies the network node TID for the command.

AID	EQUIPMENT_AID:
	{DSI-{44-63}-{1-4}-{1-7, 9-15, 17-23, 25-31}} {SI48: EP3-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42}-{1, 3}-{2-9, 11-18}, EP3-{9, 21, 35, 43}-3-{2-9, 11-18}, EP3-{15, 27, 31, 39}-1-{2-9, 11-18}} {SI36: EP3-{6-8, 12-14}-{1, 3}-{2-7, 9-14}, EP3-9-3-{2-7, 9-14}, EP3-15-1-{2-7, 9-14}} {SI48: ES1-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42}-{1, 3}-{2-9, 11-18}, ES1-{9, 21, 35, 43}-3-{2-9, 11-18}, ES1-{15, 27, 31, 39}-1-{2-9, 11-18}} {SI36: ES1-{6-8, 12-14}-{1, 3}-{2-7, 9-14}, ES1-9-3-{2-7, 9-14}, ES1-15-1-{2-7, 9-14}} {HMU-{44-53}-{1-4}-{1-8}} {LMU-{44-53}-{1-4}-{1-7, 9-15, 17-23, 25-31}} Default: Entry Required Addressing: None Description: Equipment AID, identifies the equipment object entity. Refer to Appendix B, Access Identifiers (AIDs) for a definition of equipment mnemonics.
CTAG	< 1-6 VALID CTAG CHARACTERS >
	Default: < System assigned CTAG value > Addressing: None Description: Correlation Tag, associates input command with its output responses.
MODE	{FRCD, NORM}
	Default: {NORM} Addressing: None Description: Command Execution Mode. Values are: FRCD Forced, switch to working even if the result of its execution may be service-affecting (e.g., the I/O protection circuit pack is faulty). NORM Normal, switch to working only if the I/O main (working) circuit pack is fully functional (state of IS,STBYH).

SUCCESSFUL RESPONSE FORMAT

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * The SW-TOWKG-EQPT for <AID> was completed. */]
  [/ * The SW-TOWKG-EQPT for <AID> was completed with errors. */]
  [/ * Traffic has been forced to bad module. */]
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

OUTPUT PARAMETERS

AID EQUIPMENT_AID:
 {DSI-{44-63}-{1-4}-{1-7, 9-15, 17-23, 25-31}}
 {SI48: EP3-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42}-{1, 3}-{2-9, 11-18},
 EP3-{9, 21, 35, 43}-3-{2-9, 11-18},
 EP3-{15, 27, 31, 39}-1-{2-9, 11-18}}
 {SI36: EP3-{6-8, 12-14}-{1, 3}-{2-7, 9-14},
 EP3-9-3-{2-7, 9-14},
 EP3-15-1-{2-7, 9-14}}
 {SI48: ES1-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42}-{1, 3}-{2-9, 11-18},
 ES1-{9, 21, 35, 43}-3-{2-9, 11-18},
 ES1-{15, 27, 31, 39}-1-{2-9, 11-18}}
 {SI36: ES1-{6-8, 12-14}-{1, 3}-{2-7, 9-14},
 ES1-9-3-{2-7, 9-14},
 ES1-15-1-{2-7, 9-14}}
 {HMU-{44-53}-{1-4}-{1-8}}
 {LMU-{44-53}-{1-4}-{1-7, 9-15, 17-23, 25-31}}
 I/O Equipment AID, identifies the equipment entity.

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IIAC	Input, Invalid ACcess identifier /* The command was rejected. */ /* Invalid AID for the given slot. */ /* Invalid or unassigned equipment identifier specified. */ /* A non-protection card must be specified in the request. */ /* The SW-TOWKG-EQPT for <AID> was rejected. */
SARB	Status, All Resources Busy /* The command was rejected. */ /* Command already in progress on equipment. */ /* Automatic system configuration active on equipment. */ /* Automatic configuration of parent processor in progress */ /* The SW-TOWKG-EQPT for <AID> was rejected. */ /* INIT-SYS command still active on shelf that equipment is on. */ /* Level 2 processor software download in progress. Try again later */
SAWS	Status, Already in Working State /* The card is not currently under protection. */ /* The SW-TOWKG-EQPT for <AID> was rejected. */

SDBE	Status, internal Data Base Error /* Data base access failure. */ /* Error accessing auxiliary EM data area. */ /* The SW-TOWKG-EQPT for <AID> was rejected. */ /* The command was rejected */ /* The SW-TOWKG-EQPT for <AID> was completed with errors. */ /* The SW-TOWKG-EQPT for <AID> was rejected. */ /* The SW-TOWKG-EQPT for <AID> was completed with errors. */
SNVS	Status, Not in Valid State /* Command not valid for current state of equipment. */ /* The SW-TOWKG-EQPT for <AID> was rejected. */ /* The main card is in an invalid state. */ /* The SW-TOWKG-EQPT for <AID> was completed with errors. */ /* The protection card is in an invalid state. */ /* The SW-TOWKG-EQPT for <AID> was aborted */ /* Error accessing L2P database for id <L2P address>. */ /* No active parent processor available.*/
SRCI	Status, Requested Command Inhibited /* Switching to working inhibited. */ /* Switching to working inhibited. (<AID>) */ /* The SW-TOWKG-EQPT for <AID> was rejected. */
SROF	Status, Requested Operation Failed /* The request could cause service effect if performed. */ /* The SW-TOWKG-EQPT for <AID> was rejected. */ /* Switchover not possible. */ /* No equipment available for switchover. */ /* The SW-TOWKG-EQPT for <AID> failed. */ /* Parent processor returned unsuccessful response. */ /* The card is already under protection. */ /* Bridging was in progress. Try the command again. */ /* The SW-TOPROTN-EQPT for <AID> was aborted. */ /* Did not receive a response from parent processor card */ /* Standby card has line defect/BER*/ /* Active card did not respond. */ /* Standby card is not available/bad. */ /* Next card is not available/bad. */ /* Encountered invalid response status (status) from parent processor. */ /* The SW-TOWKG-EQPT for <AID> failed. */ /* Auto system action caused override. */
SSRE	Status, System Resources Exceeded /* The command was rejected. */ /* Unable to allocate USI response buffer. */

EXAMPLES

In the following example, the working circuit pack EP3-7-3-3 is switched back from the protection circuit pack.

```
SW-TOWKG-EQPT : : EP3-7-3-3 ;
```

RELATED COMMANDS

```
ALW-SWTOPROTN-EQPT  
ALW-SWTOWKG-EQPT  
ENT-EQPT  
INH-SWTOPROTN-EQPT  
INH-SWTOWKG-EQPT
```

RTRV-EQPT
RTRV-STATE-EQPT
SW-TOPROTN-EQPT

COMMAND CODE: **VRFY-COPY**
COMMAND NAME: **VERIFY COPY**

PURPOSE

The VRFY-COPY command is used during a matrix upgrade from a 672 port matrix to a 1344 port matrix or from a 1344 port matrix to a 2688 port matrix.

VRFY-COPY is used to automatically verify that the data of the copy specified in the command at each I/O circuit pack is good. On execution of this command the system performs the following operations:

- At each I/O Shelf/Quad, starting with the first I/O circuit pack within the protection group, the system verifies the copy selected by the COPY parameter.
- If the selected copy is good, the system proceeds to the next I/O circuit pack in the I/O Shelf/Quad until all of the I/O circuit packs in the Shelf/Quad are verified.
- If the selected copy for a circuit pack is not good, the verification for that circuit pack is terminated but the verification of the remaining I/O circuit packs within the Shelf/Quad and the verification of the remaining I/O Shelves/Quads is continued.
- After all the I/O Shelves/Quads are verified, the completion message identifies any circuit packs with invalid data.
- If a specific AID is entered, all connections on the specified circuit pack is checked for Connection ID Mismatch.

A VRFY-COPY command is denied if:

- A SELECT-COPY, VRFY-COPY, START-UPGRADE or START-ITMMODE command is currently in progress.
- An invalid parameter value is entered.

INPUT FORMAT

VRFY-COPY: [TID] : [AID] : [CTAG] : : COPY;

INPUT PARAMETERS

TID	< 1-20 VALID TID CHARACTERS >
Default:	<SID>
Addressing:	None
Description:	Target Identifier, specifies the network node TID for the command.

AID	EQUIPMENT_AID:
	{ALL} {DSI-{44-63}-{1-4}-{1-32}} {SI48: EP3-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42, 104-106,108-110, 136-141 }-{1, 3}-{1-18}, EP3-{9, 21, 35, 43, 107 }-3-{1-18}, EP3-{15, 27, 31, 39, 111 }-1-{1-18}} {SI36: EP3-{6-8, 12-14}-{1, 3}-{1-14}, EP3-9-3-{1-14}, EP3-15-1-{1-14}} {SI48: ES1-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42, 104-106,108-110,136-141 }-{1, 3}-{1-18}, ES1-{9, 21, 35, 43, 107 }-3-{1-18}, ES1-{15, 27, 31, 39, 111 }-1-{1-18}} {SI36: ES1-{6-8, 12-14}-{1, 3}-{1-14}, ES1-9-3-{1-14}, ES1-15-1-{1-14}} {HMU-{44-53}-{1-4}-{1-8}} {LMU-{44-53}-{1-4}-{1-32}} {O1B-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141 }-{1, 3}-{2-9, 11-18}} {O4M-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141 }-{1, 3}-{2-3, 11-12}} {S3M-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141 }-{1, 3}-{4-9, 13-18}} Default: {ALL} Addressing: None Description: Equipment AID, identifies the equipment entity. Refer to Appendix B, Access Identifiers (AIDs) for a definition of equipment mnemonics. Name-defined values are: ALL All I/O equipment entities.
CTAG	<1-6 VALID CTAG CHARACTERS> Default: <System Assigned CTAG Value> Addressing: None Description: Correlation Tag, associates input command with its output responses.
COPY	{COPY0, COPY1} Default: Entry Required Addressing: None Description: Copy, specifies the copy to be verified. Values are: COPY0 Copy 0 is verified. COPY1 Copy 1 is verified.

SUCCESSFUL RESPONSE FORMAT

If all of the specified I/O circuit packs for the specified copy verified good, then the successful response format is:

```

<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> COMPLD
  [/ * <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

If an AID value of ALL is entered and the verification failed for some I/O circuit packs for the specified copy, then the successful response format is:


```

    <SID> <YY-MM-DD> <HH:MM:SS>
M  <CTAG> COMPLD
    /* <AID>: <Reason for the verification failure> */
    /* <AID>: <Reason for the verification failure> */]
....
    /* <AID>: <Reason for the verification failure> */]
    /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

If an AID value for a specific I/O circuit pack is entered and the verification failed for the specified copy, then the successful response format is:

```

    <SID> <YY-MM-DD> <HH:MM:SS>
M  <CTAG> COMPLD
    /* <FROM>, <TO>, <FROMTYPE>, <TOTYPE>, <FROM_EQPT>, <TO_EQPT>,
<XID0>, <XID1> */]
    /* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;

```

OUTPUT PARAMETERS

AID	EQUIPMENT_AID:
	{DSI-{44-63}-{1-4}-{1-32}}
	{SI48: EP3-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42, 104-106,108-110, 136-141 }-{1, 3}-{1-18}, EP3-{9, 21, 35, 43, 107 }-3-{1-18}, EP3-{15, 27, 31, 39, 111 }-1-{1-18}}
	{SI36: EP3-{6-8, 12-14}-{1, 3}-{1-14}, EP3-9-3-{1-14}, EP3-15-1-{1-14}}
	{SI48: ES1-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42, 104-106,108-110,136-141 }-{1, 3}-{1-18}, ES1-{9, 21, 35, 43, 107 }-3-{1-18}, ES1-{15, 27, 31, 39, 111 }-1-{1-18}}
	{SI36: ES1-{6-8, 12-14}-{1, 3}-{1-14}, ES1-9-3-{1-14}, ES1-15-1-{1-14}}
	{LMU-{44-53}-{1-4}-{1-32}}
	{O1B-{6-9, 12-15, 18-21, 24-43, 104-111 , 112-135, 136-141 }-{1, 3}-{2-9, 11-18}}
	{O4M-{6-9, 12-15, 18-21, 24-43, 104-111 , 112-135, 136-141 }-{1, 3}-{2-3, 11-12}}
	{S3M-{6-9, 12-15, 18-21, 24-43, 104-111 , 112-135, 136-141 }-{1, 3}-{4-9, 13-18}}

Equipment AID, identifies the equipment entity that failed the verification.

FROM	DS1_AID:	
	{T1-{1-59392}}	(T1-DS1#)
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)
	{EC1T1-{1-3840}-{1-28}}	(EC1T1-EC1/STS1/DS3#-DS1#)
	{EC1T1-{1-3840}-{1-7}-{1-4}}	(EC1T1-EC1/STS1#-VTGrp#-VT1/DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-28}}	(OC3T1-OC3#-STS1/DS3#-DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3T1-OC3#-STS1#-VTGrp#-VT1/DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}	(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	
	(OC12T1-OC12#-STM1#-STS1#-VTGrp#-VT1/DS1#)	
	DS3_AID:	
	{T3-{1-4800}}	(T3-DS3#)
	{EC1T3-{1-3840}}	(EC1T3-EC1/STS1/DS3#)
	{OC3T3-{1-2240}-{1-3}}	(OC3T3-OC3#-STS1/DS3#)
	{OC12T3-{1-560}-{1-4}-{1-3}}	(OC12T3-OC12#-STM1#-STS1/DS3#)
	STS1_AID:	
	{EC1STS1-{1-3840}}	(EC1STS1-EC1/STS1#)
	{OC3STS1-{1-2240}-{1-3}}	(OC3STS1-OC3#-STS1#)
	{OC12STS1-{1-560}-{1-4}-{1-3}}	(OC12STS1-OC12#-STM1#-STS1#)
	STS3C_AID:	
	{OC3STS3C-{1-2240}}	(OC3STS3C-OC3#-STS3C#)
	{OC12STS3C-{1-560}-{1-4}}	(OC12STS3C-OC12#-STM1/STS3C#)
	VT1_AID:	
	{EC1VT1-{1-3840}-{1-7}-{1-4}}	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)
	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)
	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	
	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)	

Facility AID, indicates the FROM (receive side from the network) port of the cross-connection for which a Connection ID Mismatch is detected.

TO	DS1_AID:	
	{T1-{1-59392}}	(T1-DS1#)
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)
	{EC1T1-{1-3840}-{1-28}}	(EC1T1-EC1/STS1/DS3#-DS1#)
	{EC1T1-{1-3840}-{1-7}-{1-4}}	(EC1T1-EC1/STS1#-VTGrp#-VT1/DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-28}}	(OC3T1-OC3#-STS1/DS3#-DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3T1-OC3#-STS1#-VTGrp#-VT1/DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}	(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	(OC12T1-OC12#-STM1#-STS1#-VTGrp#-VT1/DS1#)
	DS3_AID:	
	{T3-{1-4800}}	(T3-DS3#)
	{EC1T3-{1-3840}}	(EC1T3-EC1/STS1/DS3#)
	{OC3T3-{1-2240}-{1-3}}	(OC3T3-OC3#-STS1/DS3#)
	{OC12T3-{1-560}-{1-4}-{1-3}}	(OC12T3-OC12#-STM1#-STS1/DS3#)
	STS1_AID:	
	{EC1STS1-{1-3840}}	(EC1STS1-EC1/STS1#)
	{OC3STS1-{1-2240}-{1-3}}	(OC3STS1-OC3#-STS1#)
	{OC12STS1-{1-560}-{1-4}-{1-3}}	(OC12STS1-OC12#-STM1#-STS1#)
	STS3C_AID:	
	{OC3STS3C-{1-2240}}	(OC3STS3C-OC3#/STS3C#)
	{OC12STS3C-{1-560}-{1-4}}	(OC12STS3C-OC12#-STM1/STS3C#)
	VT1_AID:	
	{EC1VT1-{1-3840}-{1-7}-{1-4}}	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)
	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)
	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)
	Facility AID, indicates the TO (transmit side to the network) port of the cross-connection for which a Connection ID Mismatch is detected.	
FROMTYPE	{STS1, STS3C, T1, T3, VT1}	
	AID Type, identifies the type of AID of the FROM port. Values are:	
	STS1	STS-1 Port
	STS3C	STS-3C Port
	T1	DS1 Port
	T3	DS3 Port
	VT1	VT1.5 Port
TOTYPE	{STS1, T1, T3, VT1}	
	AID Type, identifies the type of AID of the TO port. Values are:	
	STS1	STS-1 Port
	STS3C	STS-3C Port
	T1	DS1 Port
	T3	DS3 Port
	VT1	VT1.5 Port

FROM_EQPT EQUIPMENT_AID:

```
{DSI-{44-63}-{1-4}-{1-32}}
{SI48: EP3-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42,
104-106,108-110, 136-141}-{1, 3}-{1-18},
EP3-{9, 21, 35, 43, 107}-3-{1-18},
EP3-{15, 27, 31, 39, 111}-1-{1-18}}
{SI36: EP3-{6-8, 12-14}-{1, 3}-{1-14},
EP3-9-3-{1-14},
EP3-15-1-{1-14}}
{SI48: ES1-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42,
104-106,108-110,136-141}-{1, 3}-{1-18},
ES1-{9, 21, 35, 43,107}-3-{1-18},
ES1-{15, 27, 31, 39,111}-1-{1-18}}
{SI36: ES1-{6-8, 12-14}-{1, 3}-{1-14},
ES1-9-3-{1-14},
ES1-15-1-{1-14}}
{HMU-{44-53}-{1-4}-{1-8}}
{LMU-{44-53}-{1-4}-{1-32}}
{O1B-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{2-9, 11-18}}
{O4M-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{2-3, 11-12}}
{S3M-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{4-9, 13-18}}
```

From Equipment AID, identifies the I/O equipment associated with the FROM port.

TO_EQPT EQUIPMENT_AID:

```
{DSI-{44-63}-{1-4}-{1-32}}
{SI48: EP3-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42,
104-106,108-110, 136-141}-{1, 3}-{1-18},
EP3-{9, 21, 35, 43, 107}-3-{1-18},
EP3-{15, 27, 31, 39, 111}-1-{1-18}}
{SI36: EP3-{6-8, 12-14}-{1, 3}-{1-14},
EP3-9-3-{1-14},
EP3-15-1-{1-14}}
{SI48: ES1-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42,
104-106,108-110,136-141}-{1, 3}-{1-18},
ES1-{9, 21, 35, 43,107}-3-{1-18},
ES1-{15, 27, 31, 39,111}-1-{1-18}}
{SI36: ES1-{6-8, 12-14}-{1, 3}-{1-14},
ES1-9-3-{1-14},
ES1-15-1-{1-14}}
{HMU-{44-53}-{1-4}-{1-8}}
{LMU-{44-53}-{1-4}-{1-32}}
{O1B-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{2-9, 11-18}}
{O4M-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{2-3, 11-12}}
{S3M-{6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141}-{1, 3}-{4-9, 13-18}}
```

To Equipment AID, identifies the I/O equipment detecting the Connection ID Mismatch (i.e., associated with the TO port).

XID0 {XID0, <NoVal>}

Connection ID Mismatch, Copy 0, indicates whether a Copy 0 Connection ID mismatch was detected. Values are:

XID0	Copy 0 Connection ID mismatch was detected.
<NoVal>	No Value, Copy 0 Connection ID mismatch was not detected.

XID1 {XID1, <NoVal>
Connection ID Mismatch, Copy 1, indicates whether a Copy 1 Connection ID mismatch was detected. Values are:
XID1 Copy 1 Connection ID mismatch was detected.
<NoVal> No Value, Copy 1 Connection ID mismatch was not detected.

UNSUCCESSFUL RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
M <CTAG> DENY
  <ERROR CODE>
  [/* <Informational Error Description Text> */]
  [/* <Expanded Error Code Description> */]
  [/* <Command Echo> [<CTAG>] (<CID[-VCNUM]>) */]
;
```

ERROR CODES

Refer to Appendix D, Error Codes, for a complete list of Error Codes. Appendix D also contains a list of Error Codes that are used if the command cannot be correctly parsed by the Command Parser. Parser generated Error Codes are not duplicated below. Other non-Parser Error Codes used with this command are:

IDNC	Input, Data Not Consistent /* Unable to read aux buffer for <AID>. */
IIAC	Input, Invalid ACcess identifier /* Invalid parameters in the input command. */ /* Invalid AID for the EP3 card. */ /* Invalid or unassigned equipment identifier specified. */ /* Invalid command requested. */
SARB	Status, All Resources Busy /* VRFY COPY is in progress. */ /* SELECT COPY is in progress. */ /* SELECT COPY or START-UPGRADE is in progress. */ /* Command already in progress on equipment. */ /* Automatic system configuration active on equipment. */ /* Manual or automatic action is in progress for <AID>. */ /* INIT-SYS command still active on shelf that equipment is on. */
SDBE	Status, internal Data Base Error /* Error opening report file. */ /* Error accessing report file. */
SNVS	Status, Not in Valid State /* Inactive matrix copy unavailable because system is in ITM mode. */
SROF	Status, Requested Operation Failed /* Unable to allocate USI response buffer. */

EXAMPLES

In the following example, copy 1 is verified.

```
VRFY-COPY:::::COPY1;
```

RELATED COMMANDS

```
ED-PRMTR-NE
RTRV-MTX
SELECT-COPY
START-UPGRADE
STOP-UPGRADE
```


3. AUTONOMOUS MESSAGE DESCRIPTIONS

This section contains a description of the system generated autonomous messages. The autonomous message descriptions are presented in alphabetical order by message code.

For general information and input/output formats, refer to Section 1.

For information on commands and their associated responses, refer to Section 2.

For supplementary and reference information (e.g., condition types, state names and state diagrams, monitored parameters, etc.), refer to the appendices.

RESPONSE CODE: **KEEP^ALIVE**
RESPONSE NAME: **KEEP ALIVE MESSAGE**

PURPOSE

The KEEP^ALIVE^MESSAGE autonomous response is generated by the system to maintain communication link activity to any logged-in user provisioned with a KAMINTVL parameter value of {20–300} (refer to the ENT–USER or ED–PRVG–USER commands).

If a user is provisioned with a KAMINTVL parameter value of {20–300}, the system transmits an autonomous KEEP^ALIVE^MESSAGE to the user every n seconds, where n is {20–300}, until the user enters a TL1 command or receives any output response message (communication link activity occurs). When communication link activity occurs, the Keep Alive Message Interval Timer is reset and the system begins transmitting KEEP^ALIVE^MESSAGES again until new communication link activity occurs.

The system generates a new modulo KATAG value for every autonomous KEEP^ALIVE^MESSAGE.

RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>  
I  <KATAG> KEEP ALIVE MESSAGE  
;
```

OUTPUT PARAMETERS

KATAG	{KA0000–KA9999} Autonomous Keep–Alive Message Tag, the system assigned tag number used to correlate autonomous KEEP^ALIVE^MESSAGES. The format of KATAG is KAnnnn, where KA are the upper case alphabetic characters K and A, and n is a decimal integer from 0 through 9. A new modulo KATAG value is generated by the system for every KEEP^ALIVE^ MESSAGE.
-------	--

EXAMPLES

The following example provides a sample of the autonomous KEEP^ALIVE^MESSAGE messages generated by the system for two users, user1 with a KAMINTVL of 15 and user2 with a KAMINTVL of 25.

The autonomous responses, shown below, are assumed for **user1**. The response header would contain the provisioned Site ID of the system. The example assumes a date and time for each response.

```
<SID> 94-09-26 17:50:15  
I  KA9997 KEEP ALIVE MESSAGE  
;  
  
<SID> 94-09-26 17:50:30  
I  KA9999 KEEP ALIVE MESSAGE  
;  
  
<SID> 94-09-26 17:50:45  
I  KA0000 KEEP ALIVE MESSAGE  
;  
.....
```

The autonomous responses, shown below, are assumed for **user2**. The response header would contain the provisioned Site ID of the system. The example assumes a date and time for each response.

```
<SID> 94-09-26 17:50:25
I KA9998 KEEP ALIVE MESSAGE
;

<SID> 94-09-26 17:50:50
I KA0001 KEEP ALIVE MESSAGE
;

.....
```

RELATED COMMANDS

ACT-USER
CANC-USER
DLT-USER
ED-PRVG-USER
ENT-USER
RTRV-PRVG-USER
START-CID
STOP-CID

RESPONSE CODE: **REPT^ALM^COM**
RESPONSE NAME: **REPORT ALARM COMMON**

PURPOSE

The REPT^ALM^COM autonomous response is generated by the system to report the occurrence of an alarmed common (no specific entity) condition (an event occurred which caused a common condition with a notification code of major or minor to be set by the system), or to report the clearing of a previously reported alarmed common condition.

RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
<ALMCDE> <ATAG> REPT ALM COM
"COM:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,<OCRDAT>,<OCRTM>,<LOCN>,,,"
[:\"<CONDDDESCR>\",,,]"
;
```

OUTPUT PARAMETERS

ALMCDE	{**, ^, A^}	Alarm Code, identifies the nature of the autonomous response based on the priority of action. (Note. The ^ shown in the value set is used to represent a space. The ^ does not actually appear in the output response.) Values are:
	**	Major Alarm, indicates a major alarm is being reported.
	^	Minor Alarm, indicates a minor alarm is being reported.
	A^	Autonomous Message, indicates the clearing of an alarm is being reported.
ATAG	{0-99999}	Autonomous Message Tag, the system assigned tag number used to correlate autonomous messages.
NTFCNCDE	{CL, CR, MJ, MN}	Notification Code, indicates the notification code of the reported condition. Values are:
	CL	Cleared Alarm, a previously declared alarm has cleared.
	CR	Critical Alarm, a critical alarm has occurred.
	MJ	Major Alarm, a major alarm has occurred.
	MN	Minor Alarm, a minor alarm has occurred.

CONDTYPE {DATAFLT, EUA, FRNGSYNC, FSTSYNC, GOS-EC1, GOS-OC3, GOS-OC12, GOS-ST1, GOS-ST3C, GOS-T1, GOS-T3, GOS-VT1, HLDVRSYNC, INHFL, INIT, ITMIP, MANSELDATAOPY0, MANSELDATAOPY1, MANSWTOPRI, MANSWTOSEC, PAINTGRT, RCVRY, SWTOPRI, SWTOSEC, UPGRD1344, UPGRD2688}

Condition Type, identifies the condition type being reported. (Refer to Appendix C for a list of all condition types.) Values are:

DATAFLT	Data integrity Fault, CRC error detected during a database read.
EUA	Emergency User Access activated.
FRNGSYNC	Free Running Synchronization, manual switch to free running clock reference synchronization mode.
FSTSYNC	Fast Acquisition Synchronization, manual or automatic switch to fast acquisition clock reference synchronization mode.
GOS-EC1	Grade of Service-EC1, system-wide EC1 GOS threshold reached.
GOS-OC3	Grade of Service-OC3, system-wide OC-3 GOS threshold reached.
GOS-OC12	Grade of Service-OC12, system-wide OC-12 GOS threshold reached.
GOS-ST1	Grade of Service-ST1, system-wide STS-1 GOS threshold reached.
GOS-ST3C	Grade of Service-ST3C, system-wide STS-3C GOS threshold reached.
GOS-T1	Grade of Service-T1, system-wide DS1 GOS threshold reached.
GOS-T3	Grade of Service-T3, system-wide DS3 GOS threshold reached.
GOS-VT1	Grade of Service-VT1, system-wide VT1.5 GOS threshold reached.
HLDVRSYNC	Synchronization Holdover, manual or automatic switch to holdover clock reference synchronization mode.
INHFL	Inhibit Fault Locating, automatic system-wide fault isolation inhibited.
INIT	Initialization, system initialization in-process.
ITMIP	Installation Test and Maintenance (ITM) mode is set.
MANSELDATAOPY0	Manual Selection/Lock to Data Copy 0 due to execution of SELECT-COPY command.
MANSELDATAOPY1	Manual Selection/Lock to Data Copy 1 due to execution of SELECT-COPY command.
MANSWTOPRI	Manual Switch To Primary Synchronization Reference.
MANSWTOSEC	Manual Switch To Secondary Synchronization Reference.
PAINTGRT	Path Integrity Failure, a system-wide data or clock failure detected.
RCVRY	Recovery. The System level recovery has been executed.
SWTOPRI	Automatic Switch To Primary Synchronization Reference.
SWTOSEC	Automatic Switch To Secondary Synchronization Reference.
UPGRD1344	672 Port to 1344 Port Upgrade in Progress.
UPGRD2688	1344 Port to 2688 Port Upgrade in Progress.

SRVEFF	{NSA, SA} Service Effect, identifies the service effect for the condition being reported. Values are: NSA Non-Service Affecting SA Service Affecting
OCRDAT	{MONTH-DAY:{01-12} - {01-31} } Occurrence Date, identifies the date when the condition occurred. The format of OCR-DAT is <MONTH_OF_YEAR> - <DAY_OF_MONTH>.
OCRTM	{HOUR-MINUTE-SECOND:{00-23} - {00-59} - {00-59} } Occurrence Time, identifies the time when the condition occurred. The format of OCRTM is <HOUR_OF_DAY> - <MINUTE_OF_HOUR> -<SECOND_OF_MINUTE>.
LOCN	{NEND} Location, identifies the location where the condition type is monitored. A value of NEND (Near-End) is always reported.
CONDDESCR	< 1-64 alpha-numeric characters > Condition Description, an optional, non-parsable, text description of the condition, enclosed within escape-quotes (\ " ... \").

EXAMPLES

The following example shows the autonomous message generated by the system to report an alarmed INHFL condition.

The autonomous response, shown below, assumes a system generated ATAG value of 2468. The response header would contain the provisioned Site ID of the system, and the date and time the autonomous response was generated.

```
<SID> <YY-MM-DD> <HH:MM:SS>
** 2468 REPT ALM COM
"COM:MN, INHFL, NSA, 07-01, 07-05-10, NEND, , , , "
;
```

RELATED COMMANDS

CLR-ALM-COM
ED-PRVG-USER
ENT-USER
RTRV-ALM-ALL
RTRV-ALM-COM
RTRV-ATTR-COM
RTRV-COND-ALL
RTRV-COND-COM
SET-ATTR-COM

RELATED AUTONOMOUS RESPONSES

REPT^EVT^COM

RESPONSE CODE: **REPT^ALM^EC1**
RESPONSE NAME: **REPORT ALARM EC1**

PURPOSE

The REPT^ALM^EC1 autonomous response is generated by the system to report the occurrence of an alarmed standing condition (an event occurred which caused a condition with a notification code of major or minor to be set by the system) for the indicated EC1 port, or to report the clearing of a previously reported alarmed standing condition for the indicated EC1 port.

The autonomous response contains a line of parsable output data for each alarmed standing condition being reported. Only parsable data with the same NTFCNCDE is reported in an autonomous message if more than one alarmed standing condition is being reported (i.e., alarms with different notification codes are reported in different autonomous messages).

RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
<ALMCDE> <ATAG> REPT ALM EC1
  "<AID>:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,<OCRDAT>,<OCRTM>,<LOCN>,,,,
[:\"<CONDDDESCR>\",,,]"
;
```

OUTPUT PARAMETERS

ALMCDE	{*C, **, *^, A^}	Alarm Code, identifies the nature of the autonomous response based on the priority of action. (Note. The ^ shown in the value set is used to represent a space. The ^ does not actually appear in the output response.) Values are:
	*C	Critical Alarm, indicates a critical alarm is being reported.
	**	Major Alarm, indicates a major alarm is being reported.
	*^	Minor Alarm, indicates a minor alarm is being reported.
	A^	Autonomous Message, indicates the clearing of an alarm is being reported.
ATAG	{0-99999}	Autonomous Message Tag, the system assigned tag number used to correlate autonomous messages.
AID	EC1_AID: {EC1-{1-3840} }	(EC1-EC1/STS1#) EC1 AID, identifies the EC1 port.
NTFCNCDE	{CL, CR, MJ, MN}	Notification Code, indicates the notification code of the reported condition. Values are:
	CL	Cleared Alarm, a previously declared alarm has cleared.
	CR	Critical Alarm, a critical alarm has occurred.
	MJ	Major Alarm, a major alarm has occurred.
	MN	Minor Alarm, a minor alarm has occurred.

CONDTYPE	<p>NEAR-END_CONDTYPE:{ACTLPBK, AIS, INHPMREPT, LOF, LOS, MAN}, FAR-END_CONDTYPE:{RFI}</p> <p>Condition Type, identifies the condition type being reported. (Refer to Appendix C for a list of all condition types.) Values are:</p> <table> <tr> <td>ACTLPBK</td><td>Active Loopback, the EC1 port is in loop back.</td></tr> <tr> <td>AIS</td><td>Alarm Indication Signal, AIS detected.</td></tr> <tr> <td>INHPMREPT</td><td>Inhibit Performance Monitoring Report, PM report capability Inhibited.</td></tr> <tr> <td>LOF</td><td>Loss Of Frame detected.</td></tr> <tr> <td>LOS</td><td>Loss Of Signal detected.</td></tr> <tr> <td>MAN</td><td>Manual removal (logical removal was performed on the facility).</td></tr> <tr> <td>RFI</td><td>Remote Failure Indication detected.</td></tr> </table>	ACTLPBK	Active Loopback, the EC1 port is in loop back.	AIS	Alarm Indication Signal, AIS detected.	INHPMREPT	Inhibit Performance Monitoring Report, PM report capability Inhibited.	LOF	Loss Of Frame detected.	LOS	Loss Of Signal detected.	MAN	Manual removal (logical removal was performed on the facility).	RFI	Remote Failure Indication detected.
ACTLPBK	Active Loopback, the EC1 port is in loop back.														
AIS	Alarm Indication Signal, AIS detected.														
INHPMREPT	Inhibit Performance Monitoring Report, PM report capability Inhibited.														
LOF	Loss Of Frame detected.														
LOS	Loss Of Signal detected.														
MAN	Manual removal (logical removal was performed on the facility).														
RFI	Remote Failure Indication detected.														
SRVEFF	<p>{NSA, SA}</p> <p>Service Effect, identifies the service effect for the condition type and notification code being reported. Values are:</p> <table> <tr> <td>NSA</td><td>Non-Service Affecting</td></tr> <tr> <td>SA</td><td>Service Affecting</td></tr> </table>	NSA	Non-Service Affecting	SA	Service Affecting										
NSA	Non-Service Affecting														
SA	Service Affecting														
OCRDAT	<p>{MONTH-DAY:{01-12} - {01-31} }</p> <p>Occurrence Date, identifies the date when the condition occurred. The format of OCRDAT is <MONTH_OF_YEAR> - <DAY_OF_MONTH>.</p>														
OCRTM	<p>{HOUR-MINUTE-SECOND:{00-23} - {00-59} - {00-59} }</p> <p>Occurrence Time, identifies the time when the condition occurred. The format of OCRTM is <HOUR_OF_DAY> - <MINUTE_OF_HOUR> -<SECOND_OF_MINUTE>.</p>														
LOCN	<p>{FEND, NEND}</p> <p>Location, identifies the location where the condition type is monitored. Values are:</p> <table> <tr> <td>FEND</td><td>Far-End, events occurring at a distant network element.</td></tr> <tr> <td>NEND</td><td>Near-End, events occurring at the system.</td></tr> </table>	FEND	Far-End, events occurring at a distant network element.	NEND	Near-End, events occurring at the system.										
FEND	Far-End, events occurring at a distant network element.														
NEND	Near-End, events occurring at the system.														
CONDESCR	<p>< 1-64 alpha-numeric characters ></p> <p>Condition Description, an optional, non-parsable, text description of the condition, enclosed within escape-quotes (\ " ... \").</p>														

EXAMPLES

The following example shows the autonomous message generated by the system to report a LOS facility failure on EC1 port EC1-200.

The autonomous response, shown below, assumes a system generated ATAG value of 13579. The response header would contain the provisioned Site ID of the system, and the date and time the autonomous response was generated.

```

<SID> <YY-MM-DD> <HH:MM:SS>
** 13579 REPT ALM EC1
"EC1-200:MJ,LOS,SA,07-01,07-05-10,NEND,,,"
;

```


RELATED COMMANDS

ED-PRVG-USER
ENT-USER
RTRV-ALM-ALL
RTRV-ALM-EC1
RTRV-ATTR-EC1
RTRV-COND-ALL
RTRV-COND-EC1
RTRV-DFLTATTR-EC1
SET-ATTR-EC1
SET-DFLTATTR-EC1

RELATED AUTONOMOUS RESPONSES

REPT^EVT^EC1

RESPONSE CODE: **REPT^ALM^EQPT**
RESPONSE NAME: **REPORT ALARM EQUIPMENT**

PURPOSE

The REPT^ALM^EQPT autonomous response is generated by the system to report the occurrence of an alarmed condition (an event occurred which caused a condition with a notification code of major or minor to be set by the system) for the indicated equipment entity, or to report the clearing of a previously reported alarmed condition for the indicated equipment entity.

RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
<ALMCDE> <ATAG> REPT ALM EQPT
  "<AID>:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,<OCDAT>,<OCDTM>,<LOCN>,,,,
[ : \ "<CONDDDESCR>\" , , , ] "
;
```

OUTPUT PARAMETERS

ALMCDE	{*, ^, A^} Alarm Code, identifies the nature of the autonomous response based on the priority of action. (Note. The ^ shown in the value set is used to represent a space. The ^ does not actually appear in the output response.) Values are: ** Major Alarm, indicates a major alarm is being reported. ^ Minor Alarm, indicates a minor alarm is being reported. A^ Autonomous Message, indicates the clearing of an alarm is being reported.
ATAG	{0-99999} Autonomous Message Tag, the system assigned tag number used to correlate autonomous messages.
AID	EQUIPMENT_AID: {ACM-1-2-{3-7, 10-14}} {CDA-{4, 5, 10, 11, 16, 17, 22, 23, 102, 103 }-3-1} {CDB-{5}-{1, 3}-{1, 2}} CDB-{2-43, 104-111 ,112-135, 136-141 }-{1, 3}-{1, 2} {SI36: CDB-{6-9, 12-15, 18-21, 24-43}-{1, 3}-{1-2}, {SI48: CDB-{2-43, 104-111 ,112-135, 136-141 }-{1, 3}-{1, 2}} {CID-1-1-{1-12}} {CIM-1-2-{3-7, 10-14}} {CKB-{1-63, 101, 102-111 , 112-135, 136-141 }-{0}-{1-2}} {CPU-1-2-{1-2}} {DSB-{6-9, 12-15, 18-21, 24-43, 104-111 , 112-135, 136-141 }-{1, 3}-{1-2}} {DSI-{44-63}-{1-4}-{1-32}} {DSK-1-3-1, DSK-1-4-2} {EOB-{5}-{1, 3}-{1-5}} {SI48: EOB-{6-9, 12-15, 18-21, 24-43, 104-111 , 112-135, 136-141 }-{1, 3}-{1-2}, EOC: EOB-{4-5, 10-11, 16-17, 22-23, 102, 103 }-1-{1-7, 9-15}} {SI48: EP3-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42, 104-106,108-110, 136-141 }-{1, 3}-{1-18}, EP3-{9, 21, 35, 43, 107 }-3-{1-18}, EP3-{15, 27, 31, 39, 111 }-1-{1-18}} {SI36: EP3-{6-8, 12-14}-{1, 3}-{1-14}, EP3-9-3-{1-14}, EP3-15-1-{1-14}}

{SI48: ES1-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42,
104-106,108-110,136-141}-{1, 3}-{1-18},
 ES1-{9, 21, 35, 43,**107**}-3-{1-18},
 ES1-{15, 27, 31, 39,**111**}-1-{1-18}}
 {SI36: ES1-{6-8, 12-14}-{1, 3}-{1-14},
 ES1-9-3-{1-14},
 ES1-15-1-{1-14}}
 {ESA-{44-63}-{1-4}-{1-2}}
 {FAN-{1, 101}-0-1},
 FAN-{2-63, **102-111**, 112-135, **136-141**}-{1-3}-1}
 {FUSE-{2-43, **102-111**, 112-135, **136-141**}-0-{1-2}}
 {G1EOB-{4, 5,10, 11, 16, 17, 22, 23, **102, 103**}-1-{1-7, 9-15}-{1-16},
 G1EOB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2}-{1-16},
 G1EOB-{5}-{1, 3}-{1-5}-{1-16}}
 {SI48:G1EP3-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42, **104-106, 108-110**}-
 {1, 3}-{1-18}-{1-2},
 G1EP3-{9, 21, 35, 43, **107**}-3-{1-18}-{1-2},
 G1EP3-{15, 27, 31, 39, **111**}-1-{1-18}-{1-2}}
 {SI36: G1EP3 - {6-8, 12-14} - {1, 3} - {1-14} - {1-2},
 G1EP3 - 9 - 3 - {1-14} - {1-2},
 G1EP3 - {15} - 1 - {1-14} - {1-2} }
 {SI48:G1ES1-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42, **104-106, 108-110**}-
 {1, 3}-{1-18}-{1-2},
 G1ES1-{9, 21, 35, 43, **107**}-3-{1-18}-{1-2},
 G1ES1-{15, 27, 31, 39, **111**}-1-{1-18}-{1-2}}
 {SI36: G1ES1 - {6-8, 12-14} - {1, 3} - {1-14} - {1-2},
 G1ES1 -9 -3-{1-14} - {1-2},
 G1ES1 - {15-1-{1-14}}-{1-2} }
 {G1IOB-{6-8, 12-14}-{1, 3}-{1, 3, 5, 7}-{1-3, 5-7},
 G1IOB-9-3-{1, 3, 5, 7}-{1-3, 5-7},
 G1IOB-15-1-{1, 3, 5, 7}-{1-3, 5-7}}
 {G1IRPB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2}-{1-18} }
 {G1M16-{2-5, 10-11, 16-17, 22-23, **102-103**}-3-{1-16}-{1-16}}
 {G1M32-{4-5, 10-11, 16-17, 22-23, **102-103**}-3-{1-16}-{1-32},
 G1M32-{5}-{1, 3}-{1-3, 6-8}-{1-32}}
 {G1M40-{2-3}-{1, 3}-{1-16}-{1-32},
 G1M40-{5}-{1, 3}-{4, 5, 9, 10}-{1-32}}
 {G1MRPB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2}-{1-16}}
 {G1O1B-{6-9, 12-15, 18-21, 24-43, 112-135}-{1, 3}-{2-9, 11-18}-{1-2}}
 {G1O4M-{6-9, 12-15, 18-21, 24-43, 112-135}-{1, 3}-{2, 3, 11, 12}-{1-2}}
 {G1S3M-{6-9, 12-15, 18-21, 24-43, 112-135}-{1, 3}-{4-9, 13-18}-{1-2}}
 {G4EOB-{4-5, 10-11, 16-17, 22-23}-1-{1-7, 9-15}-{1-4},
 G4EOB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1, 2}-{1-4},
 G4EOB-{5}-{1, 3}-{1-5}-{1-4}}
 {G4IOB-{6-8, 12-14}-{1, 3}-{1, 3, 5, 7}-{1-2},
 G4IOB-9-3-{1, 3, 5, 7}-{1, 2},
 G4IOB-15-1-{1, 3, 5, 7}-{1-2}}
 {G4OXB-{44-63}-{1-4}-{1, 2}-1}
 {HMU-{44-53}-{1-4}-{1-8}}
 {ICM-1-2-{1, 2, 8, 9}}
 {IOB-{6-8, 12-14}-{1, 3}-{1, 3, 5, 7},
 IOB-9-3-{1, 3, 5, 7},
 IOB-15-1-{1, 3, 5, 7}}
 {IPB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2}}
 {IPU-{44-63}-{1-4}-{1-8}}

{LMU-{44-53}-{1-4}-{1-32}}
 {LT1-1-1-{1-6}}
 {LT2-1-1-{1-6}}
 {LT4-1-1-{7-16}}
 {LT5-1-1-{2-6}}
 {LT8-1-1-{7-16}}
 {M16-{2-5, 10-11, 16-17, 22-23}-3-{1-16}}
 {M32-{4-5, 10-11, 16-17, 22-23, **102, 103**}-3-{1-16},
 M32-{5}-{1, 3}-{1-3, 6-8}}
 {M40-{2-3}-{1, 3}-{1-16}}
 {M40-{5}-{1, 3}-{4, 5, 9, 10}}
 {MCB-{2,3}-3-1}
 {MCB-{5}-{1, 3}-{1}}
 {O1B-{6-9, 12-15, 18-21, 24-43, **104-111, 112-135, 136-141**}-{1, 3}-{2-9, 11-18}}
 {O4M-{6-9, 12-15, 18-21, 24-43, **104-111, 112-135, 136-141**}-{1, 3}-{2-3, 11-12}}
 {OPD-1-3-1,
 OPD-1-4-2}
 {OXB-{44-63}-{1-4}-{1-2}}
 {P39-{6-9, 12-15, 18-21, 24-43, **104-111, 112-135, 136-141**}-{1, 3}-{1-3},
 P39-{4, 5, 10, 11, 16, 17, 22, 23, **102, 103**}-1-{1-3},
 P39-{4, 5, 10, 11, 16, 17, 22, 23, **102, 103**}-3-{1-4},
 P39-{5}-{1, 3}-{1-4}}
 {P56-{6-9, 12-15, 18-21, 24-43, **104-111, 112-135, 136-141**}-{1, 3}-{1-5},
 P56-{2-3}-{1, 3}-{1-4},
 P56-{4, 5, 10, 11, 16, 17, 22, 23, **102, 103**}-1,3-{1-5},
 P56-{5}-{1, 3}-{1-4}}
 {PDU-{2-43, **102-111, 112-135, 136-141**}-0-1}
 {PRT-{44-63}-{1-4}-{8, 16, 24, 32}}
 {PSF-1-{3, 4}-{1, 2},
 PSF-{44-63}-{1-4}-{1-2}}
 {PST-1-{3, 4}-{1-2}}
 {QUAD-{44-63}-{1-4}-{1-4}}
 {RDU-{44-63}-0-1}
 {RPB-{6-9, 12-15, 18-21, 24-43, **104-111, 112-135, 136-141**}-{1, 3}-{1-2}}
 {RSP-{1, 101}-0-1}
 {S3M-{6-9, 12-15, 18-21, 24-43, **104-111, 112-135, 136-141**}-{1, 3}-{4-9, 13-18}}
 {SBT-1-2-{1-4}}
 {SHELF-{4-43, 102-141}-{1, 3}-1}
 {SHELF-{5}-{1, 3}-{1}}
 {SIO-1-2-{1-2, 8-9}}
 {SPB-{2-43, **102-111, 112-135, 136-141**}-{1, 3}-{1-2}}
 {SPB-{5}-{1, 3}-{1, 2}}
 {SWI-{44-63}-{1-4}-{1-7, 9-15, 17-23, 25-31}}
 Equipment AID, identifies the equipment entity.

NTFNCNDE {CL, CR, MJ, MN}
 Notification Code, indicates the notification code of the reported condition. Values are:
 CL Cleared Alarm, a previously declared alarm has cleared.
 CR Critical Alarm, a critical alarm has occurred.
 MJ Major Alarm, a major alarm has occurred.
 MN Minor Alarm, a minor alarm has occurred.

CONDTYPE {ALMCKT, BKUPMEMP, BKUPMEMS, BPMISM, BPTERM, CARLOS, CD, CLKLCK0,
 CLKLCK1, CNTRLRFL, CONTBUS, CONTCOM, CONTR, CTNEQPT, DATALCK0,
 DATALCK1, DBF, DBFFT, DCCEQPT, DTLCKCPYFL, DUPMACADDR,

DUPTARPENTRY, FA, FANEQPT, FWMISM, GT1, GT4, IMPROPRMVL, INHSWDX, INHSWPR, INHSWWKG, INIT, INTERR, LOCKOUT, LOTRI, MAN, MANWKSWPR, MISC-1, OSIPARMISM, PRCDRERR, PWR, RARFAIL, RCVRY, SWFTDWN, SYNCEQPT, TERM-EC1, TERM-OC12, TERM-OC3, TERM-T1, TERM-T3, TERM-T3EC1, TSA, TSI, WKSWPR, XIDMISM}

Condition Type, identifies the condition type being reported. (Refer to Appendix C for a list of all condition types.) Values are:

ALMCKT	Alarm Circuit, RDU/RSP failure detected.
BKUPMEMP	Backup Memory—Primary, magnetic disk backup failure.
BKUPMEMS	Backup Memory—Secondary, optical disk/tape drive back-up failure.
BPMISM	Backplane Mismatch, mismatch between the provisioned shelf and the installed shelf backplane.
BPTERM	Backplane Termination failure detected in the SI48 I/O, EOC, End Stage, or Center Stage shelf.
CARLOS	Carrier Loss, loss of carrier event during IEEE 802.3 frame transmission on the LAN.
CD	Control and Display interface audit error detected.
CLKLCK0	Clock Lock 0, the clock path of the I/O, EOC, ES, and CS locked to clock bus 0.
CLKLCK1	Clock Lock 1, the clock path of the I/O, EOC, ES, and CS locked to clock bus 1.
CNTRLRFL	Controller Failure, LAPD or LAN controller failed set on the DSB.
CONTBUS	Control Bus, shelf control bus interface failure.
CONTCOM	Control Communication equipment failure.
CONTR	Control processor equipment failure.
CTNEQPT	Connection Equipment, facility/circuit interconnection equipment failure.
DATALCK0	Data Lock 0, I/O shelf/quad locked to databus 0.
DATALCK1	Data Lock 1, I/O shelf/quad locked to databus 1.
DBF	Database Backup Failure, OPD database backup failure detected (on second try).
DBFFT	Database Backup Failed on First Try, OPD database backup failure detected on first try.
DCCEQPT	Data Communication Channel Equipment, DCC Server Board failed.
DTLCKCPYFL	Data Lock Copy Fail, I/O modules in shelf/quad not locked to the copy specified.
DUPMACADDR	Duplicate MAC Address detected on the LAN.
DUPTARPENTRY	Duplicate TARP adjacency table.
FA	Fuse Alarm, a PDU/RDU/RSP circuit breaker or PDU fuse has failed.
FANEQPT	Fan Equipment, one or more of the fans in a fan assembly failed.
FWMISM	Firmware Mismatch, firmware version number does not match that in the system database.
GT1	GTI Cable fault for GTI cable carrying an STM1 signal.
GT4	GTI Cable fault for GTI cable carrying an STM4 signal.
IMPROPRMVL	Improper Removal, result of a physical circuit pack removal that was not preceded by a logical removal.
INHSWDX	Inhibit Switch Duplex, automatic copy switching of duplex equipment inhibited.
INHSWPR	Inhibit Switch to Protection, automatic protection switching

	INHSSWWKG	of a main circuit pack to protection unit is inhibited. Inhibit Switch to Working, automatic switching of a main circuit pack back to working (from protection) is inhibited.
	INIT	Initialization, shelf initialization in-process.
	INTERR	Internal Error, internal error suspected on equipment.
	LOCKOUT	LockOut of automatic revertive switching due to excessive protection switching.
	LOTRI	Loss Of Offboard Timing Reference Input from mate Master Clock Board circuit pack.
	MAN	Manual removal (logical removal was performed on a circuit pack).
	MANWKSWPR	Manual Working Switched to Protection, main/working unit was manually switched to the protection unit.
	MISC-1	Miscellaneous Class-1, slave MCB is not ready.
	OSIPARMISM	OS Initialization Parameter Mismatch, upper layer parameters or lower layer parameters specific to the LAN or manual area addresses are mismatched between two redundant DSBs.
	PRCDRERR	Procedure Error, installed equipment does not support the facility provisioning.
	PWR	Power, internal power failure detected.
	RARFAIL	Re-Arrangement Failed, cross-connect rearrangement through the matrix failed due to SPB communication problem.
	RCVRY	Recovery. The System level recovery has been executed. The user must issue INIT-SYS command.
	SWFTDWN	Software Download is in process on a circuit pack.
	SYNCEQPT	Synchronization Equipment failure detected.
	TERM-EC1	Termination Equipment-EC1, ES1 circuit pack failure.
	TERM-OC12	Termination Equipment-OC12, O4M circuit pack failure.
	TERM-OC3	Termination Equipment-OC3, O1B circuit pack failure.
	TERM-T1	Termination Equipment-T1, DSI circuit pack failure.
	TERM-T3	Termination Equipment-T3, HMU circuit pack failure.
	TERM-T3EC1	Termination Equipment-T3/EC1, EP3 circuit pack failure.
	TSA	Test Session Active, maintenance test session active on the equipment.
	TSI	Time Slot Interchange equipment failure.
	WKSWPR	Working Switched to Protection, main/working unit automatically switched to the protection unit.
	XIDMISM	Connection ID Mismatch, internal Connection ID Mismatch detected in the I/O shelf/quad.
SRVEFF	{NSA, SA} Service Effect, identifies the service effect for the condition type being reported. Values are: NSA Non-Service Affecting SA Service Affecting	
OCRDAT	{MONTH-DAY:{01-12} - {01-31} } Occurrence Date, identifies the date when the condition occurred. The format of OCRDAT is <MONTH_OF_YEAR> - <DAY_OF_MONTH>.	
OCRTM	{HOUR-MINUTE-SECOND:{00-23} - {00-59} - {00-59} } Occurrence Time, identifies the time when the condition occurred. The format of OCRTM is <HOUR_OF_DAY> - <MINUTE_OF_HOUR> -<SECOND_OF_MINUTE>.	

LOCN	{NEND} Location, identifies the location where the condition type is monitored. A value of NEND (Near-End) is always reported.
CONDDSCR	< 1-64 alpha-numeric characters > Condition Description, an optional, non-parsable, text description of the condition, enclosed within escape-quotes (\ " ... \").

EXAMPLES

The following example shows the autonomous message generated by the system to report a circuit pack failure on EP3-7-1-3.

The autonomous response, shown below, assumes a system generated ATAG value of 2468. The response header would contain the provisioned Site ID of the system, and the date and time the autonomous response was generated.

```
<SID> <YY-MM-DD> <HH:MM:SS>
** 2468 REPT ALM EQPT
"EP3-7-1-3:MJ,TERM-T3EC1,SA,07-01,07-05-10,NEND,,,"
;
```

RELATED COMMANDS

CLR-ALM-EQPT
ED-PRVG-USER
ENT-USER
RTRV-ALM-ALL
RTRV-ALM-EQPT
RTRV-ATTR-EQPT
RTRV-COND-ALL
RTRV-COND-EQPT
RTRV-GTI-STATUS
RTRV-XIDMISM
SET-ATTR-EQPT

RELATED AUTONOMOUS RESPONSES

REPT^EVT^EQPT

RESPONSE CODE: **REPT^ALM^F3**
RESPONSE NAME: **REPORT ALARM F3**

PURPOSE

The REPT^ALM^F3 autonomous response is generated by the system to report the occurrence of an alarmed standing condition (an event occurred which caused a condition with a notification code of major or minor to be set by the system) for the indicated F3 port, or to report the clearing of a previously reported alarmed standing condition for the indicated F3 port.

The autonomous response contains a line of parsable output data for each alarmed standing condition being reported. Only parsable data with the same NTFCNCDE is reported in an autonomous message if more than one alarmed standing condition is being reported (i.e., alarms with different notification codes are reported in different autonomous messages).

RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
<ALMCDE> <ATAG> REPT ALM F3
  "<AID>:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,<OCRDAT>,<OCRTM>,<LOCN>,,,,
[:\"<CONDDDESCR>\",,,]"
;
```

OUTPUT PARAMETERS

ALMCDE	{*C, **, *^, A^} Alarm Code, identifies the nature of the autonomous response based on the priority of action. (Note. The ^ shown in the value set is used to represent a space. The ^ does not actually appear in the output response.) Values are: *C Critical Alarm, indicates a critical alarm is being reported. ** Major Alarm, indicates a major alarm is being reported. *^ Minor Alarm, indicates a minor alarm is being reported. A^ Autonomous Message, indicates the clearing of an alarm is being reported.
ATAG	{0-99999} Autonomous Message Tag, the system assigned tag number used to correlate autonomous messages.
AID	F3_AID: {T3F3-{1-4800}-{1-14}} (T3F3-DS3#-Fractional_DS3#) F3 AID, identifies the F3 port.
NTFCNCDE	{CL, CR, MJ, MN} Notification Code, indicates the notification code of the reported condition. Values are: CL Cleared Alarm, a previously declared alarm has cleared. CR Critical Alarm, a critical alarm has occurred. MJ Major Alarm, a major alarm has occurred. MN Minor Alarm, a minor alarm has occurred.
CONDTYPE	{INHPMREPT} Condition Type, identifies the condition type being reported. (Refer to Appendix C for a list of all condition types.) Values are: INHPMREPT Inhibit Performance Monitoring Report, PM report capability Inhibited.
SRVEFF	{NSA, SA} Service Effect, identifies the service effect for the condition type and notification code being reported. Values are: NSA Non-Service Affecting SA Service Affecting

OCRDAT	{MONTH-DAY:{01-12} - {01-31} } Occurrence Date, identifies the date when the condition occurred. The format of OCR-DAT is <MONTH_OF_YEAR> - <DAY_OF_MONTH>.
OCRTM	{HOUR-MINUTE-SECOND:{00-23} - {00-59} - {00-59} } Occurrence Time, identifies the time when the condition occurred. The format of OCRTM is <HOUR_OF_DAY> - <MINUTE_OF_HOUR> -<SECOND_OF_MINUTE>.
LOCN	{NEND} Location, identifies the location where the condition type is monitored. Values are: NEND Near-End, events occurring at the system.
CONDDDESCR	< 1-64 alpha-numeric characters > Condition Description, an optional, non-parsable, text description of the condition, enclosed within escape-quotes (\ " ... \").

EXAMPLES

The following example shows the autonomous message generated by the system to report a INHPMREPT facility failure on F3 port T3F3-200-1.

The autonomous response, shown below, assumes a system generated ATAG value of 13579. The response header would contain the provisioned Site ID of the system, and the date and time the autonomous response was generated.

```
<SID> <YY-MM-DD> <HH:MM:SS>
** 13579 REPT ALM F3
   "T3F3-200-1:MJ, INHPMREPT, NSA, 07-01, 07-05-10, NEND, , , , "
;
```

RELATED COMMANDS

```
ED-PRVG-USER
ENT-USER
RTRV-ALM-ALL
RTRV-ALM-F3
RTRV-ATTR-F3
RTRV-COND-ALL
RTRV-COND-F3
RTRV-DFLTATTR-F3
SET-ATTR-F3
SET-DFLTATTR-F3
```

RELATED AUTONOMOUS RESPONSES

```
REPT^EVT^F3
```

RESPONSE CODE: **REPT^ALM^OC12**
RESPONSE NAME: **REPORT ALARM OC12**

PURPOSE

The REPT^ALM^OC12 autonomous response is generated by the system to report the occurrence of an alarmed standing condition (an event occurred which caused a condition with a notification code of major or minor to be set by the system) for the indicated OC12 port, or to report the clearing of a previously reported alarmed standing condition for the indicated OC12 port.

The autonomous response contains a line of parsable output data for each alarmed standing condition being reported. Only parsable data with the same NTFCNCDE is reported in an autonomous message if more than one alarmed standing condition is being reported (i.e., alarms with different notification codes are reported in different autonomous messages).

RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
<ALMCDE> <ATAG> REPT ALM OC12
  "<AID>:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,<OCRDAT>,<OCRTM>,<LOCN>,,,,
[ : \"<CONDDDESCR>\",,, ] "
;
```

OUTPUT PARAMETERS

ALMCDE	{**, ^, A^}	Alarm Code, identifies the nature of the autonomous response based on the priority of action. (Note. The ^ shown in the value set is used to represent a space. The ^ does not actually appear in the output response.) Values are:
	**	Major Alarm, indicates a major alarm is being reported.
	^	Minor Alarm, indicates a minor alarm is being reported.
	A^	Autonomous Message, indicates the clearing of an alarm is being reported.
ATAG	{0-99999}	Autonomous Message Tag, the system assigned tag number used to correlate autonomous messages.
AID	OC12_AID: {OC12-{1-560}}	(OC12-OC12#) OC12 AID, identifies the OC12 port.
NTFCNCDE	{CL, CR, MJ, MN}	Notification Code, indicates the notification code of the reported condition. Values are:
	CL	Cleared Alarm, a previously declared alarm has cleared.
	CR	Critical Alarm, a critical alarm has occurred.
	MJ	Major Alarm, a major alarm has occurred.
	MN	Minor Alarm, a minor alarm has occurred.

CONDTYPE	<p>NEAR-END_CONDDTYPE:{ACTLPBK, AIS, DUPTARPENRTY, EBER, ESW, FRCDWKS WBK, FRCDWKS WPR, INHPMREPT, L2LCONFAIL, L2S CONFAIL, LDCCDLFL, LOCKOUTOFPR, LOF, LOS, MAN, MANWKS WBK, MANWKS WPR, SDBER, SDCCDLFL, WTR},</p> <p>FAR-END_CONDDTYPE:{RFI}</p> <p>Condition Type, identifies the condition type being reported. (Refer to Appendix C for a list of all condition types.) Values are:</p> <table> <tr><td>ACTLPBK</td><td>Active Loopback, the OC12 port is in loopback.</td></tr> <tr><td>AIS</td><td>Alarm Indication Signal, AIS detected.</td></tr> <tr><td>DUPTARPENRTY</td><td>Duplicate TARP adjacency table.</td></tr> <tr><td>EBER</td><td>Excessive Bit Error Rate detected.</td></tr> <tr><td>ESW</td><td>Excessive Switching, lockout of automatic revertive (OC12) switching due to excessive switching.</td></tr> <tr><td>FRCDWKS WBK</td><td>Forced Working Switched Back, working facility was manually force switched from protection to the main facility.</td></tr> <tr><td>FRCDWKS WPR</td><td>Forced Working Switched to Protection, working facility was manually force switched to the protection facility.</td></tr> <tr><td>INHPMREPT</td><td>Inhibit Performance Monitoring Report, PM report capability inhibited.</td></tr> <tr><td>L2LCONFAIL</td><td>Layer 2 Line DCC Connection Failure.</td></tr> <tr><td>L2S CONFAIL</td><td>Layer 2 Section DCC Connection Failure.</td></tr> <tr><td>LDCCDLFL</td><td>Line DCC Data Link Failure.</td></tr> <tr><td>LOCKOUTOFPR</td><td>LockOut Of Protection facility.</td></tr> <tr><td>LOF</td><td>Loss Of Frame detected.</td></tr> <tr><td>LOS</td><td>Loss Of Signal detected.</td></tr> <tr><td>MAN</td><td>Manual removal (logical removal was performed on the facility).</td></tr> <tr><td>MANWKS WBK</td><td>Manual Working Switched Back, working facility was manually switched back to the main facility.</td></tr> <tr><td>MANWKS WPR</td><td>Manual Working Switched to Protection, working facility was manually switched to the protection facility.</td></tr> <tr><td>RFI</td><td>Remote Failure Indication detected.</td></tr> <tr><td>SDBER</td><td>Signal Degrade Bit Error Rate detected.</td></tr> <tr><td>SDCCDLFL</td><td>Section DCC Data Link Failure</td></tr> <tr><td>WTR</td><td>Wait To Restore of protection facility.</td></tr> </table>	ACTLPBK	Active Loopback, the OC12 port is in loopback.	AIS	Alarm Indication Signal, AIS detected.	DUPTARPENRTY	Duplicate TARP adjacency table.	EBER	Excessive Bit Error Rate detected.	ESW	Excessive Switching, lockout of automatic revertive (OC12) switching due to excessive switching.	FRCDWKS WBK	Forced Working Switched Back, working facility was manually force switched from protection to the main facility.	FRCDWKS WPR	Forced Working Switched to Protection, working facility was manually force switched to the protection facility.	INHPMREPT	Inhibit Performance Monitoring Report, PM report capability inhibited.	L2LCONFAIL	Layer 2 Line DCC Connection Failure.	L2S CONFAIL	Layer 2 Section DCC Connection Failure.	LDCCDLFL	Line DCC Data Link Failure.	LOCKOUTOFPR	LockOut Of Protection facility.	LOF	Loss Of Frame detected.	LOS	Loss Of Signal detected.	MAN	Manual removal (logical removal was performed on the facility).	MANWKS WBK	Manual Working Switched Back, working facility was manually switched back to the main facility.	MANWKS WPR	Manual Working Switched to Protection, working facility was manually switched to the protection facility.	RFI	Remote Failure Indication detected.	SDBER	Signal Degrade Bit Error Rate detected.	SDCCDLFL	Section DCC Data Link Failure	WTR	Wait To Restore of protection facility.
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SRVEFF	<p>{NSA, SA}</p> <p>Service Effect, identifies the service effect for the condition type and notification code being reported. Values are:</p> <table> <tr><td>NSA</td><td>Non-Service Affecting</td></tr> <tr><td>SA</td><td>Service Affecting</td></tr> </table>	NSA	Non-Service Affecting	SA	Service Affecting																																						
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OCRDAT	<p>{MONTH-DAY:{01-12} - {01-31} }</p> <p>Occurrence Date, identifies the date when the condition occurred. The format of OCRDAT is <MONTH_OF_YEAR> - <DAY_OF_MONTH>.</p>																																										
OCRTM	<p>{HOUR-MINUTE-SECOND:{00-23} - {00-59} - {00-59} }</p> <p>Occurrence Time, identifies the time when the condition occurred. The format of OCRTM is <HOUR_OF_DAY> - <MINUTE_OF_HOUR> -<SECOND_OF_MINUTE>.</p>																																										
LOCN	<p>{FEND, NEND}</p> <p>Location, identifies the location where the condition type is monitored. Values are:</p> <table> <tr><td>FEND</td><td>Far-End, events occurring at a distant network element.</td></tr> <tr><td>NEND</td><td>Near-End, events occurring at the system.</td></tr> </table>	FEND	Far-End, events occurring at a distant network element.	NEND	Near-End, events occurring at the system.																																						
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CONDDDESCR < 1–64 alpha–numeric characters >
Condition Description, an optional, non–parsable, text description of the condition, enclosed within escape–quotes (\“ ... \”).

EXAMPLES

The following example shows the autonomous message generated by the system to report a LOS facility failure on OC12 port OC12–113.

The autonomous response, shown below, assumes a system generated ATAG value of 13579. The response header would contain the provisioned Site ID of the system, and the date and time the autonomous response was generated.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
** 13579 REPT ALM OC12  
  "OC12-113:MJ,LOS,SA,07-01,07-05-10,NEND,,,"  
;
```

RELATED COMMANDS

ED-PRVG-USER
ENT-USER
RTRV-ALM-ALL
RTRV-ALM-OC12
RTRV-ATTR-OC12
RTRV-COND-ALL
RTRV-COND-OC12
RTRV-DFLTATTR-OC12
SET-ATTR-OC12
SET-DFLTATTR-OC12

RELATED AUTONOMOUS RESPONSES

REPT^EVT^OC12

RESPONSE CODE: **REPT^ALM^OC3**
RESPONSE NAME: **REPORT ALARM OC3**

PURPOSE

The REPT^ALM^OC3 autonomous response is generated by the system to report the occurrence of an alarmed standing condition (an event occurred which caused a condition with a notification code of major or minor to be set by the system) for the indicated OC3 port, or to report the clearing of a previously reported alarmed standing condition for the indicated OC3 port.

The autonomous response contains a line of parsable output data for each alarmed standing condition being reported. Only parsable data with the same NTFNCDE is reported in an autonomous message if more than one alarmed standing condition is being reported (i.e., alarms with different notification codes are reported in different autonomous messages).

RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
<ALMCDE> <ATAG> REPT ALM OC3
  "<AID>:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,<OCDAT>,<OCDTM>,<LOCN>,,,,
[ : \ "<CONDDSCR>\",,, ] "
;
```

OUTPUT PARAMETERS

ALMCDE	{**, ^, A^}	Alarm Code, identifies the nature of the autonomous response based on the priority of action. (Note. The ^ shown in the value set is used to represent a space. The ^ does not actually appear in the output response.) Values are:
	**	Major Alarm, indicates a major alarm is being reported.
	^	Minor Alarm, indicates a minor alarm is being reported.
	A^	Autonomous Message, indicates the clearing of an alarm is being reported.
ATAG	{0-99999}	Autonomous Message Tag, the system assigned tag number used to correlate autonomous messages.
AID	OC3_AID: {OC3-{1-2240}}	(OC3-OC3#) OC3 AID, identifies the OC3 port.
NTFCNCDE	{CL, CR, MJ, MN}	Notification Code, indicates the notification code of the reported condition. Values are:
	CL	Cleared Alarm, a previously declared alarm has cleared.
	CR	Critical Alarm, a critical alarm has occurred.
	MJ	Major Alarm, a major alarm has occurred.
	MN	Minor Alarm, a minor alarm has occurred.

CONDTYPE	<p>NEAR-END_CONDDTYPE:{ACTLPBK, AIS, DUPTARPENRTY, EBER, ESW, FRCDWKS WBK, FRCDWKS WPR, INHPMREPT, L2LCONFAIL, L2SCONFAIL, LDCCDLFL, LOCKOUTOFPR, LOF, LOS, MAN, MANWKS WBK, MANWKS WPR, SDBER, SDCCDLFL, WTR},</p> <p>FAR-END_CONDDTYPE:{RFI}</p> <p>Condition Type, identifies the condition type being reported. (Refer to Appendix C for a list of all condition types.) Values are:</p> <table> <tr> <td>ACTLPBK</td><td>Active Loopback, the OC3 port is in loop back.</td></tr> <tr> <td>AIS</td><td>Alarm Indication Signal, AIS detected.</td></tr> <tr> <td>DUPTARPENRTY</td><td>Duplicate TARP adjacency table.</td></tr> <tr> <td>EBER</td><td>Excessive Bit Error Rate detected.</td></tr> <tr> <td>ESW</td><td>Excessive Switching, lockout of automatic revertive (OC3) switching due to excessive switching.</td></tr> <tr> <td>FRCDWKS WBK</td><td>Forced Working Switched Back, working facility was manually force switched from protection to the main facility.</td></tr> <tr> <td>FRCDWKS WPR</td><td>Forced Working Switched to Protection, working facility was manually force switched to the protection facility.</td></tr> <tr> <td>INHPMREPT</td><td>Inhibit Performance Monitoring Report, PM report capability inhibited.</td></tr> <tr> <td>L2LCONFAIL</td><td>Layer 2 Line DCC Connection Failure.</td></tr> <tr> <td>L2SCONFAIL</td><td>Layer 2 Section DCC Connection Failure.</td></tr> <tr> <td>LDCCDLFL</td><td>Line DCC Data Link Failure.</td></tr> <tr> <td>LOCKOUTOFPR</td><td>LockOut Of Protection facility.</td></tr> <tr> <td>LOF</td><td>Loss Of Frame detected.</td></tr> <tr> <td>LOS</td><td>Loss Of Signal detected.</td></tr> <tr> <td>MAN</td><td>Manual removal (logical removal was performed on the facility).</td></tr> <tr> <td>MANWKS WBK</td><td>Manual Working Switched Back, working facility was manually switched back to the main facility.</td></tr> <tr> <td>MANWKS WPR</td><td>Manual Working Switched to Protection, working facility was manually switched to the protection facility.</td></tr> <tr> <td>RFI</td><td>Remote Failure Indication detected.</td></tr> <tr> <td>SDBER</td><td>Signal Degrade Bit Error Rate detected.</td></tr> <tr> <td>SDCCDLFL</td><td>Section DCC Data Link Failure</td></tr> <tr> <td>WTR</td><td>Wait To Restore of protection facility.</td></tr> </table>	ACTLPBK	Active Loopback, the OC3 port is in loop back.	AIS	Alarm Indication Signal, AIS detected.	DUPTARPENRTY	Duplicate TARP adjacency table.	EBER	Excessive Bit Error Rate detected.	ESW	Excessive Switching, lockout of automatic revertive (OC3) switching due to excessive switching.	FRCDWKS WBK	Forced Working Switched Back, working facility was manually force switched from protection to the main facility.	FRCDWKS WPR	Forced Working Switched to Protection, working facility was manually force switched to the protection facility.	INHPMREPT	Inhibit Performance Monitoring Report, PM report capability inhibited.	L2LCONFAIL	Layer 2 Line DCC Connection Failure.	L2SCONFAIL	Layer 2 Section DCC Connection Failure.	LDCCDLFL	Line DCC Data Link Failure.	LOCKOUTOFPR	LockOut Of Protection facility.	LOF	Loss Of Frame detected.	LOS	Loss Of Signal detected.	MAN	Manual removal (logical removal was performed on the facility).	MANWKS WBK	Manual Working Switched Back, working facility was manually switched back to the main facility.	MANWKS WPR	Manual Working Switched to Protection, working facility was manually switched to the protection facility.	RFI	Remote Failure Indication detected.	SDBER	Signal Degrade Bit Error Rate detected.	SDCCDLFL	Section DCC Data Link Failure	WTR	Wait To Restore of protection facility.
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SRVEFF	<p>{NSA, SA}</p> <p>Service Effect, identifies the service effect for the condition type and notification code being reported. Values are:</p> <table> <tr> <td>NSA</td><td>Non-Service Affecting</td></tr> <tr> <td>SA</td><td>Service Affecting</td></tr> </table>	NSA	Non-Service Affecting	SA	Service Affecting																																						
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OCRDAT	<p>{MONTH-DAY:{01-12} - {01-31} }</p> <p>Occurrence Date, identifies the date when the condition occurred. The format of OCRDAT is <MONTH_OF_YEAR> - <DAY_OF_MONTH>.</p>																																										
OCRTM	<p>{HOUR-MINUTE-SECOND:{00-23} - {00-59} - {00-59} }</p> <p>Occurrence Time, identifies the time when the condition occurred. The format of OCRTM is <HOUR_OF_DAY> - <MINUTE_OF_HOUR> -<SECOND_OF_MINUTE>.</p>																																										
LOCN	<p>{FEND, NEND}</p> <p>Location, identifies the location where the condition type is monitored. Values are:</p> <table> <tr> <td>FEND</td><td>Far-End, events occurring at a distant network element.</td></tr> <tr> <td>NEND</td><td>Near-End, events occurring at the system.</td></tr> </table>	FEND	Far-End, events occurring at a distant network element.	NEND	Near-End, events occurring at the system.																																						
FEND	Far-End, events occurring at a distant network element.																																										
NEND	Near-End, events occurring at the system.																																										

CONDESCR < 1–64 alpha–numeric characters >
Condition Description, an optional, non–parsable, text description of the condition, enclosed within escape–quotes (\“ ... \”).

EXAMPLES

The following example shows the autonomous message generated by the system to report a LOS facility failure on OC3 port OC3–113.

The autonomous response, shown below, assumes a system generated ATAG value of 13579. The response header would contain the provisioned Site ID of the system, and the date and time the autonomous response was generated.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
** 13579 REPT ALM OC3  
  "OC3-113:MJ,LOS,SA,07-01,07-05-10,NEND,, , ,"  
;
```

RELATED COMMANDS

ED-PRVG-USER
ENT-USER
RTRV-ALM-ALL
RTRV-ALM-OC3
RTRV-ATTR-OC3
RTRV-COND-ALL
RTRV-COND-OC3
RTRV-DFLTATTR-OC3
SET-ATTR-OC3
SET-DFLTATTR-OC3

RELATED AUTONOMOUS RESPONSES

REPT^EVT^OC3

RESPONSE CODE: **REPT^ALM^STS1**
RESPONSE NAME: **REPORT ALARM STS1**

PURPOSE

The REPT^ALM^STS1 autonomous response is generated by the system to report the occurrence of an alarmed standing condition (an event occurred which caused a condition with a notification code of major or minor to be set by the system) for the indicated STS1 port, or to report the clearing of a previously reported alarmed standing condition for the indicated STS1 port.

The autonomous response contains a line of parsable output data for each alarmed standing condition being reported. Only parsable data with the same NTFNCODE is reported in an autonomous message if more than one alarmed standing condition is being reported (i.e., alarms with different notification codes are reported in different autonomous messages).

RESPONSE FORMAT

```

      <SID> <YY-MM-DD> <HH:MM:SS>
<ALMCDE> <ATAG> REPT ALM STS1
      " <AID> : <NTFCNCDE> , <CONDTYPE> , <SRVEFF> , <OCRDAT> , <OCRTM> , <LOCN> ,
      [ <DIRN> ] , , , [ : \ " <CONDDDESCR> \ " , , , ] "
;

```

OUTPUT PARAMETERS

ALMCDE	{**, ^, A^}	
	Alarm Code, identifies the nature of the autonomous response based on the priority of action. (Note. The ^ shown in the value set is used to represent a space. The ^ does not actually appear in the output response.) Values are:	
	**	Major Alarm, indicates a major alarm is being reported.
	*^	Minor Alarm, indicates a minor alarm is being reported.
	A^	Autonomous Message, indicates the clearing of an alarm is being reported.
ATAG	{0–99999}	
	Autonomous Message Tag, the system assigned tag number used to correlate autonomous messages.	
AID	STS1_AID:	
	{EC1STS1–{1–3840}}	(EC1STS1–EC1/STS1#)
	{OC3STS1–{1–2240}–{1–3}}	(OC3STS1–OC3#–STS1#)
	{OC12STS1–{1–560}–{1–4}–{1–3}}	(OC12STS1–OC12#–STM1#–STS1#)
	STS1 AID, identifies the STS1 port.	
NTFCNCDE	{CL, CR, MJ, MN}	
	Notification Code, indicates the notification code of the reported condition. Values are:	
	CL	Cleared Alarm, a previously declared alarm has cleared.
	CR	Critical Alarm, a critical alarm has occurred.
	MJ	Major Alarm, a major alarm has occurred.
	MN	Minor Alarm, a minor alarm has occurred.

CONDTYPE	<p>NEAR-END_CONDDTYPE:{ACTLPBK, AIS, EBER, FLTESC, FRCDWKSWBK, FRCDWKSWPR, IDLE, INHPMREPT, LOP, MAN, MANWKSWBK, MANWKSWPR, PDI, SDBER, SLMF}, FAR-END_CONDDTYPE:{RFI}</p> <p>Condition Type, identifies the condition type being reported. (Refer to Appendix C for a list of all condition types.) Values are:</p> <table> <tr> <td>ACTLPBK</td><td>Active Loopback, the STS1 port is in loop back.</td></tr> <tr> <td>AIS</td><td>Alarm Indication Signal, AIS detected.</td></tr> <tr> <td>EBER</td><td>Excessive Bit Error Rate detected.</td></tr> <tr> <td>FLTESC</td><td>Facility Fault Escalation active.</td></tr> <tr> <td>FRCDWKSWBK</td><td>Forced Working Switched Back, working facility was manually force switched from protection to the main facility.</td></tr> <tr> <td>FRCDWKSWPR</td><td>Forced Working Switched to Protection, working facility was manually force switched to the protection facility.</td></tr> <tr> <td>IDLE</td><td>Idle, incoming idle detected.</td></tr> <tr> <td>INHPMREPT</td><td>Inhibit Performance Monitoring Report, PM report capability Inhibited.</td></tr> <tr> <td>LOP</td><td>Loss Of Pointer detected.</td></tr> <tr> <td>MAN</td><td>Manual removal (logical removal was performed on the facility).</td></tr> <tr> <td>MANWKSWBK</td><td>Manual Working Switched Back, working facility was manually switched from protection to the main facility.</td></tr> <tr> <td>MANWKSWPR</td><td>Manual Working Switched to Protection, working facility was manually switched to the protection facility.</td></tr> <tr> <td>PDI</td><td>Incoming PDI signal detected.</td></tr> <tr> <td>RFI</td><td>Remote Failure Indication detected.</td></tr> <tr> <td>SDBER</td><td>Signal Degradation Bit Error Rate detected.</td></tr> <tr> <td>SLMF</td><td>Signal Label Match Failure detected.</td></tr> </table>	ACTLPBK	Active Loopback, the STS1 port is in loop back.	AIS	Alarm Indication Signal, AIS detected.	EBER	Excessive Bit Error Rate detected.	FLTESC	Facility Fault Escalation active.	FRCDWKSWBK	Forced Working Switched Back, working facility was manually force switched from protection to the main facility.	FRCDWKSWPR	Forced Working Switched to Protection, working facility was manually force switched to the protection facility.	IDLE	Idle, incoming idle detected.	INHPMREPT	Inhibit Performance Monitoring Report, PM report capability Inhibited.	LOP	Loss Of Pointer detected.	MAN	Manual removal (logical removal was performed on the facility).	MANWKSWBK	Manual Working Switched Back, working facility was manually switched from protection to the main facility.	MANWKSWPR	Manual Working Switched to Protection, working facility was manually switched to the protection facility.	PDI	Incoming PDI signal detected.	RFI	Remote Failure Indication detected.	SDBER	Signal Degradation Bit Error Rate detected.	SLMF	Signal Label Match Failure detected.
ACTLPBK	Active Loopback, the STS1 port is in loop back.																																
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EBER	Excessive Bit Error Rate detected.																																
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SDBER	Signal Degradation Bit Error Rate detected.																																
SLMF	Signal Label Match Failure detected.																																
SRVEFF	<p>{NSA, SA}</p> <p>Service Effect, identifies the service effect for the condition type and notification code being reported. Values are:</p> <table> <tr> <td>NSA</td><td>Non-Service Affecting</td></tr> <tr> <td>SA</td><td>Service Affecting</td></tr> </table>	NSA	Non-Service Affecting	SA	Service Affecting																												
NSA	Non-Service Affecting																																
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OCRDAT	<p>{MONTH-DAY:{01-12} - {01-31} }</p> <p>Occurrence Date, identifies the date when the condition occurred. The format of OCRDAT is <MONTH_OF_YEAR> - <DAY_OF_MONTH>.</p>																																
OCRTM	<p>{HOUR-MINUTE-SECOND:{00-23} - {00-59} - {00-59} }</p> <p>Occurrence Time, identifies the time when the condition occurred. The format of OCRTM is <HOUR_OF_DAY> - <MINUTE_OF_HOUR> -<SECOND_OF_MINUTE>.</p>																																
LOCN	<p>{FEND, NEND}</p> <p>Location, identifies the location where the condition type is monitored. Values are:</p> <table> <tr> <td>FEND</td><td>Far-End, events occurring at a distant network element.</td></tr> <tr> <td>NEND</td><td>Near-End, events occurring at the system.</td></tr> </table>	FEND	Far-End, events occurring at a distant network element.	NEND	Near-End, events occurring at the system.																												
FEND	Far-End, events occurring at a distant network element.																																
NEND	Near-End, events occurring at the system.																																
DIRN	<p>{TRMT, <NoVal>}</p> <p>Direction, identifies the direction of the condition type being monitored. Values are:</p> <table> <tr> <td>TRMT</td><td>Transmit Direction, value returned for CONDDTYPE of FLTESC.</td></tr> <tr> <td><NoVal></td><td>No Value (null) returned for all conditions other than FLTESC.</td></tr> </table>	TRMT	Transmit Direction, value returned for CONDDTYPE of FLTESC.	<NoVal>	No Value (null) returned for all conditions other than FLTESC.																												
TRMT	Transmit Direction, value returned for CONDDTYPE of FLTESC.																																
<NoVal>	No Value (null) returned for all conditions other than FLTESC.																																
CONDDESCR	<p>< 1-64 alpha-numeric characters ></p> <p>Condition Description, an optional, non-parsable, text description of the condition, enclosed within escape-quotes (" ... ").</p>																																

EXAMPLES

The following example shows the autonomous message generated by the system to report a LOP facility failure on STS1 port EC1STS1-200.

The autonomous response, shown below, assumes a system generated ATAG value of 13579. The response header would contain the provisioned Site ID of the system, and the date and time the autonomous response was generated.

```
<SID> <YY-MM-DD> <HH:MM:SS>
** 13579 REPT ALM STS1
   "EC1STS1-200:MJ,LOP,SA,07-01,07-05-10,NEND,,,,,"
;
```

RELATED COMMANDS

ED-PRVG-USER
ENT-USER
RTRV-ALM-ALL
RTRV-ALM-STS1
RTRV-ATTR-STS1
RTRV-COND-ALL
RTRV-COND-STS1
RTRV-DFLTATTR-STS1
SET-ATTR-STS1
SET-DFLTATTR-STS1

RELATED AUTONOMOUS RESPONSES

REPT^EVT^STS1

RESPONSE CODE: **REPT^ALM^STS3C**
RESPONSE NAME: **REPORT ALARM STS3C**

PURPOSE

The REPT^ALM^STS3C autonomous response is generated by the system to report the occurrence of an alarmed standing condition (an event occurred which caused a condition with a notification code of major or minor to be set by the system) for the indicated STS3C port, or to report the clearing of a previously reported alarmed standing condition for the indicated STS3C port.

The autonomous response contains a line of parsable output data for each alarmed standing condition being reported. Only parsable data with the same NTFCNCDE is reported in an autonomous message if more than one alarmed standing condition is being reported (i.e., alarms with different notification codes are reported in different autonomous messages).

RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
<ALMCDE> <ATAG> REPT ALM STS3C
  "<AID>:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,<OCRDAT>,<OCRTM>,<LOCN>,,,,
[ : \ "<CONDDDESCR>\",,, ] "
;
```

OUTPUT PARAMETERS

ALMCDE	{**, ^, A^}	Alarm Code, identifies the nature of the autonomous response based on the priority of action. (Note. The ^ shown in the value set is used to represent a space. The ^ does not actually appear in the output response.) Values are:
	**	Major Alarm, indicates a major alarm is being reported.
	^	Minor Alarm, indicates a minor alarm is being reported.
	A^	Autonomous Message, indicates the clearing of an alarm is being reported.
ATAG	{0-99999}	Autonomous Message Tag, the system assigned tag number used to correlate autonomous messages.
AID	STS3C_AID: {OC3STS3C-{1-2240}} {OC12STS3C-{1-560}-{1-4}}	(OC3STS3C-OC3#/STS3C#) (OC12STS3C-OC12#-STM1/STS3C#)
	STS3C AID, identifies the STS3C port.	
NTFCNCDE	{CL, CR, MJ, MN}	Notification Code, indicates the notification code of the reported condition. Values are:
	CL	Cleared Alarm, a previously declared alarm has cleared.
	CR	Critical Alarm, a critical alarm has occurred.
	MJ	Major Alarm, a major alarm has occurred.
	MN	Minor Alarm, a minor alarm has occurred.

CONDTYPE	NEAR-END_CONDTYPE:{ACTLPBK, AIS, IDLE, INHPMREPT, LOP, MAN, SLMF}, FAR-END_CONDTYPE:{RFI} Condition Type, identifies the condition type being reported. (Refer to Appendix C for a list of all condition types.) Values are: <table> <tr> <td>ACTLPBK</td><td>Active Loopback, the STS3C port is in loop back.</td></tr> <tr> <td>AIS</td><td>Alarm Indication Signal, AIS detected.</td></tr> <tr> <td>IDLE</td><td>Idle, incoming idle detected.</td></tr> <tr> <td>INHPMREPT</td><td>Inhibit Performance Monitoring Report, PM report capability Inhibited.</td></tr> <tr> <td>LOP</td><td>Loss Of Pointer detected.</td></tr> <tr> <td>MAN</td><td>Manual removal (logical removal was performed on the facility).</td></tr> <tr> <td>RFI</td><td>Remote Failure Indication detected.</td></tr> <tr> <td>SLMF</td><td>Signal Label Match Failure detected.</td></tr> </table>	ACTLPBK	Active Loopback, the STS3C port is in loop back.	AIS	Alarm Indication Signal, AIS detected.	IDLE	Idle, incoming idle detected.	INHPMREPT	Inhibit Performance Monitoring Report, PM report capability Inhibited.	LOP	Loss Of Pointer detected.	MAN	Manual removal (logical removal was performed on the facility).	RFI	Remote Failure Indication detected.	SLMF	Signal Label Match Failure detected.
ACTLPBK	Active Loopback, the STS3C port is in loop back.																
AIS	Alarm Indication Signal, AIS detected.																
IDLE	Idle, incoming idle detected.																
INHPMREPT	Inhibit Performance Monitoring Report, PM report capability Inhibited.																
LOP	Loss Of Pointer detected.																
MAN	Manual removal (logical removal was performed on the facility).																
RFI	Remote Failure Indication detected.																
SLMF	Signal Label Match Failure detected.																
SRVEFF	{NSA, SA} Service Effect, identifies the service effect for the condition type and notification code being reported. Values are: <table> <tr> <td>NSA</td><td>Non-Service Affecting</td></tr> <tr> <td>SA</td><td>Service Affecting</td></tr> </table>	NSA	Non-Service Affecting	SA	Service Affecting												
NSA	Non-Service Affecting																
SA	Service Affecting																
OCRDAT	{MONTH-DAY:{01-12} - {01-31} } Occurrence Date, identifies the date when the condition occurred. The format of OCRDAT is <MONTH_OF_YEAR> - <DAY_OF_MONTH>.																
OCRTM	{HOUR-MINUTE-SECOND:{00-23} - {00-59} - {00-59} } Occurrence Time, identifies the time when the condition occurred. The format of OCRTM is <HOUR_OF_DAY> - <MINUTE_OF_HOUR> -<SECOND_OF_MINUTE>.																
LOCN	{FEND, NEND} Location, identifies the location where the condition type is monitored. Values are: <table> <tr> <td>FEND</td><td>Far-End, events occurring at a distant network element.</td></tr> <tr> <td>NEND</td><td>Near-End, events occurring at the system.</td></tr> </table>	FEND	Far-End, events occurring at a distant network element.	NEND	Near-End, events occurring at the system.												
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NEND	Near-End, events occurring at the system.																
CONDDSCR	< 1-64 alpha-numeric characters > Condition Description, an optional, non-parsable, text description of the condition, enclosed within escape-quotes (\ " ... \").																

EXAMPLES

The following example shows the autonomous message generated by the system to report a LOP facility failure on STS3C port OC3STS3C-8.

The autonomous response, shown below, assumes a system generated ATAG value of 13579. The response header would contain the provisioned Site ID of the system, and the date and time the autonomous response was generated.

```
<SID> <YY-MM-DD> <HH:MM:SS>
** 13579 REPT ALM STS3C
   "OC3STS3C-8:MJ,LOP,SA,07-01,07-05-10,NEND,,,"
;
```


RELATED COMMANDS

ED-PRVG-USER
ENT-USER
RTRV-ALM-ALL
RTRV-ALM-STS3C
RTRV-ATTR-STS3C
RTRV-COND-ALL
RTRV-COND-STS3C
RTRV-DFLTATTR-STS3C
SET-ATTR-STS3C
SET-DFLTATTR-STS3C

RELATED AUTONOMOUS RESPONSES

REPT^EVT^STS3C

RESPONSE CODE: **REPT^ALM^T1**
RESPONSE NAME: **REPORT ALARM T1**

PURPOSE

The REPT^ALM^T1 autonomous response is generated by the system to report the occurrence of an alarmed standing condition (an event occurred which caused a condition with a notification code of major or minor to be set by the system) for the indicated DS1 or Timing Reference (TMG) port, or to report the clearing of a previously reported alarmed standing condition for the indicated DS1 or TMG port.

The autonomous response contains a line of parsable output data for each alarmed standing condition being reported. Only parsable data with the same NTFNCNDE is reported in an autonomous message if more than one alarmed standing condition is being reported (i.e., alarms with different notification codes are reported in different autonomous messages).

RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
<ALMCDE> <ATAG> REPT ALM T1
  "<AID>:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,<OCDAT>,<OCDTM>,<LOCN>,,,,
[:\"<CONDDDESCR>\",,,]"
;
```

OUTPUT PARAMETERS

ALMCDE	{**, ^, A^}	Alarm Code, identifies the nature of the autonomous response based on the priority of action. (Note. The ^ shown in the value set is used to represent a space. The ^ does not actually appear in the output response.) Values are:
	**	Major Alarm, indicates a major alarm is being reported.
	^	Minor Alarm, indicates a minor alarm is being reported.
	A^	Autonomous Message, indicates the clearing of an alarm is being reported.
ATAG	{0-99999}	Autonomous Message Tag, the system assigned tag number used to correlate autonomous messages.
AID	DS1_AID: {T1-{1-59392}} {T3T1-{1-4800}-{1-28}} {EC1T1-{1-3840}-{1-28}} {EC1T1-{1-3840}-{1-7}-{1-4}} {OC3T1-{1-2240}-{1-3}-{1-28}} {OC3T1-{1-2240}-{1-3}-{1-7}-{1-4}} {OC12T1-{1-560}-{1-4}-{1-3}-{1-28}} {OC12T1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}} (OC12T1-OC12#-STM1#-STS1#-VTGrp#-VT1/DS1#)	(T1-DS1#) (T3T1-DS3#-DS1#) (EC1T1-EC1/STS1/DS3#-DS1#) (EC1T1-EC1/STS1#-VTGrp#-VT1/DS1#) (OC3T1-OC3#-STS1/DS3#-DS1#) (OC3T1-OC3#-STS1#-VTGrp#-VT1/DS1#) (OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)
	TMG_AID: {TMG-{0, 1}}	
	DS1/TMG AID, identifies the DS1 or TMG port.	
NTFCNCDE	{CL, CR, MJ, MN}	Notification Code, indicates the notification code of the reported condition. Values are:
	CL	Cleared Alarm, a previously declared alarm has cleared.
	CR	Critical Alarm, a critical alarm has occurred.
	MJ	Major Alarm, a major alarm has occurred.
	MN	Minor Alarm, a minor alarm has occurred.

CONDTYPE	<p>DS1_NEAR-END_CONDTYPE:{ACTLPBK, AIS, AIS-CI, ALWCBLPBK, EOC, INHPMREPT, LOF, LOS, MAN, RCVCLPBK, ROLLMON, XMTCLPBK}, DS1_FAR-END_CONDTYPE:{RAI, RAI-CI}, TMG_NEAR-END_CONDTYPE:{AIS, LOF, LOS, SLTMSIG, SYNCPRI, SYNCSEC, SYNCSTATQUAL}</p> <p>Condition Type, identifies the condition type being reported. (Refer to Appendix C for a list of all condition types.) Values are:</p> <table> <tr><td>ACTLPBK</td><td>Active Loopback, the DS1 port is in loop back.</td></tr> <tr><td>AIS</td><td>Alarm Indication Signal, AIS detected.</td></tr> <tr><td>AIS-CI</td><td>Alarm Indication Signal for Customer Installation, Incoming AIS detected. (DS1 Near-End)</td></tr> <tr><td>ALWCBLPBK</td><td>Allow C-bit Loopback.</td></tr> <tr><td>DS1ISD</td><td>DS1 Idle Signal Detected, Incoming. (DS1 Near-End.)</td></tr> <tr><td>EOC</td><td>Embedded Operations Channel, EOC failure detected.</td></tr> <tr><td>INHPMREPT</td><td>Inhibit Performance Monitoring Report, PM report capability Inhibited.</td></tr> <tr><td>LOF</td><td>Loss Of Frame detected.</td></tr> <tr><td>LOS</td><td>Loss Of Signal detected.</td></tr> <tr><td>MAN</td><td>Manual removal (logical removal was performed on the facility).</td></tr> <tr><td>RAI</td><td>Remote Alarm Indication detected.</td></tr> <tr><td>RAI-CI</td><td>Remote Alarm Indication for Customer Installation detected. (DS1 Far-End.)</td></tr> <tr><td>RCVCLPBK</td><td>Receive (DS1) C-Bit Loopback.</td></tr> <tr><td>ROLLMON</td><td>Roll Monitoring, receive-side RTO port being monitored for valid signal.</td></tr> <tr><td>SLTMSIG</td><td>Slipping Timing Reference Signal detected.</td></tr> <tr><td>SYNCPRI</td><td>Primary Reference Synchronization failure.</td></tr> <tr><td>SYNCSEC</td><td>Secondary Reference Synchronization failure.</td></tr> <tr><td>SYNCSTATQUAL</td><td>Synchronization Status Quality.</td></tr> <tr><td>XMTCLPBK</td><td>Transmit (DS1) C-Bit Loopback.</td></tr> </table>	ACTLPBK	Active Loopback, the DS1 port is in loop back.	AIS	Alarm Indication Signal, AIS detected.	AIS-CI	Alarm Indication Signal for Customer Installation, Incoming AIS detected. (DS1 Near-End)	ALWCBLPBK	Allow C-bit Loopback.	DS1ISD	DS1 Idle Signal Detected, Incoming. (DS1 Near-End.)	EOC	Embedded Operations Channel, EOC failure detected.	INHPMREPT	Inhibit Performance Monitoring Report, PM report capability Inhibited.	LOF	Loss Of Frame detected.	LOS	Loss Of Signal detected.	MAN	Manual removal (logical removal was performed on the facility).	RAI	Remote Alarm Indication detected.	RAI-CI	Remote Alarm Indication for Customer Installation detected. (DS1 Far-End.)	RCVCLPBK	Receive (DS1) C-Bit Loopback.	ROLLMON	Roll Monitoring, receive-side RTO port being monitored for valid signal.	SLTMSIG	Slipping Timing Reference Signal detected.	SYNCPRI	Primary Reference Synchronization failure.	SYNCSEC	Secondary Reference Synchronization failure.	SYNCSTATQUAL	Synchronization Status Quality.	XMTCLPBK	Transmit (DS1) C-Bit Loopback.
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SRVEFF	<p>{NSA, SA}</p> <p>Service Effect, identifies the service effect for the condition type and notification code being reported. Values are:</p> <table> <tr><td>NSA</td><td>Non-Service Affecting</td></tr> <tr><td>SA</td><td>Service Affecting</td></tr> </table>	NSA	Non-Service Affecting	SA	Service Affecting																																		
NSA	Non-Service Affecting																																						
SA	Service Affecting																																						
OCRDAT	<p>{MONTH-DAY:{01-12} - {01-31} }</p> <p>Occurrence Date, identifies the date when the condition occurred. The format of OCRDAT is <MONTH_OF_YEAR> - <DAY_OF_MONTH>.</p>																																						
OCRTM	<p>{HOUR-MINUTE-SECOND:{00-23} - {00-59} - {00-59} }</p> <p>Occurrence Time, identifies the time when the condition occurred. The format of OCRTM is <HOUR_OF_DAY> - <MINUTE_OF_HOUR> -<SECOND_OF_MINUTE>.</p>																																						
LOCN	<p>{FEND, NEND}</p> <p>Location, identifies the location where the condition type is monitored. Values are:</p> <table> <tr><td>FEND</td><td>Far-End, events occurring at a distant network element.</td></tr> <tr><td>NEND</td><td>Near-End, events occurring at the system.</td></tr> </table>	FEND	Far-End, events occurring at a distant network element.	NEND	Near-End, events occurring at the system.																																		
FEND	Far-End, events occurring at a distant network element.																																						
NEND	Near-End, events occurring at the system.																																						
CONDDSCR	<p>< 1-64 alpha-numeric characters ></p> <p>Condition Description, an optional, non-parsable, text description of the condition, enclosed within escape-quotes (\ " ... \").</p>																																						

EXAMPLES

The following example shows the autonomous message generated by the system to report a LOF facility failure on DS1 port T3T1-1160-22.

The autonomous response, shown below, assumes a system generated ATAG value of 13579. The response header would contain the provisioned Site ID of the system, and the date and time the autonomous response was generated.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
** 13579 REPT ALM T1  
"T3T1-1160-22:MJ,LOF,SA,07-01,07-05-10,NEND,,,"  
;
```

RELATED COMMANDS

```
ED-PRVG-USER  
ENT-USER  
RTRV-ALM-ALL  
RTRV-ALM-T1  
RTRV-ATTR-T1  
RTRV-COND-ALL  
RTRV-COND-T1  
RTRV-DFLTATTR-T1  
SET-ATTR-T1  
SET-DFLTATTR-T1
```

RELATED AUTONOMOUS RESPONSES

```
REPT^EVT^T1
```


RESPONSE CODE: **REPT^ALM^T3**
RESPONSE NAME: **REPORT ALARM T3**

PURPOSE

The REPT^ALM^T3 autonomous response is generated by the system to report the occurrence of an alarmed standing condition (an event occurred which caused a condition with a notification code of critical, major or minor to be set by the system) for the indicated DS3 port, or to report the clearing of a previously reported alarmed standing condition for the indicated DS3 port.

The autonomous response contains a line of parsable output data for each alarmed standing condition being reported. Only parsable data with the same NTFNCODE is reported in an autonomous message if more than one alarmed standing condition is being reported (i.e., alarms with different notification codes are reported in different autonomous messages).

RESPONSE FORMAT

```

      <SID> <YY-MM-DD> <HH:MM:SS>
<ALMCDE> <ATAG> REPT ALM T3
      " <AID> : <NTFCNCDE> , <CONDTYPE> , <SRVEFF> , <OCRDAT> , <OCRTM> , <LOCN> ,
      [ <DIRN> ] , , , [ : \ " <CONDDDESCR> \ " , , , ] "
i

```

OUTPUT PARAMETERS

ALMCDE	{*C, **, *^, A^}	
	Alarm Code, identifies the nature of the autonomous response based on the priority of action. (Note. The ^ shown in the value set is used to represent a space. The ^ does not actually appear in the output response.) Values are:	
	*C	Critical Alarm, indicates a critical alarm is being reported.
	**	Major Alarm, indicates a major alarm is being reported.
	*^	Minor Alarm, indicates a minor alarm is being reported.
	A^	Autonomous Message, indicates the clearing of an alarm is being reported.
ATAG	{0–99999}	
	Autonomous Message Tag, the system assigned tag number used to correlate autonomous messages.	
AID	DS3_AID:	
	{T3–{1–4800}}	(T3–DS3#)
	{EC1T3–{1–3840}}	(EC1T3–EC1/STS1/DS3#)
	{OC3T3–{1–2240}–{1–3}}	(OC3T3–OC3#–STS1/DS3#)
	{OC12T3–{1–560}–{1–4}–{1–3}}	(OC12T3–OC12#–STM1#–STS1/DS3#)
	DS3 AID, identifies the DS3 port.	
NTFCNCDE	{CL, CR, MJ, MN}	
	Notification Code, indicates the notification code of the reported condition. Values are:	
	CL	Cleared Alarm, a previously declared alarm has cleared.
	CR	Critical Alarm, a critical alarm has occurred.
	MJ	Major Alarm, a major alarm has occurred.
	MN	Minor Alarm, a minor alarm has occurred.

CONDTYPE	<p>NEAR-END_CONDDTYPE:{1TO6LOF, 7LOF, ACTLPBK, AICMIS, AIS, FLTESC, INHPMREPT, ISD, LOF, LOS, MAN}, FAR-END_CONDDTYPE:{AIS, DS2YEL, FEACEQPT, ISD, LOF, LOS, RAI} Condition Type, identifies the condition type being reported. (Refer to Appendix C for a list of all condition types.) Values are:</p> <table> <tr> <td>1TO6LOF</td><td>One To Six Loss Of Frame, Incoming LOF detected on 1 to 6 DS2s embedded in the DS3.</td></tr> <tr> <td>7LOF</td><td>Seven Loss Of Frame, Incoming LOF detected on all 7 DS2s embedded in the DS3.</td></tr> <tr> <td>ACTLPBK</td><td>Active Loopback, the DS3 port is in loop back.</td></tr> <tr> <td>AICMIS</td><td>Application Identification Channel Mismatch, AIC mismatch detected.</td></tr> <tr> <td>AIS</td><td>Alarm Indication Signal, AIS detected.</td></tr> <tr> <td>DS2YEL</td><td>DS2 Yellow (Remote Alarm Indication) detected on one of the DS2s embedded in the DS3.</td></tr> <tr> <td>FEACEQPT</td><td>Far-End Alarm & Control (FEAC) Equipment detected.</td></tr> <tr> <td>FLTESC</td><td>Facility Fault Escalation active.</td></tr> <tr> <td>INHPMREPT</td><td>Inhibit Performance Monitoring Report, PM report capability Inhibited.</td></tr> <tr> <td>ISD</td><td>Idle Signal Detected.</td></tr> <tr> <td>LOF</td><td>Loss Of Frame detected.</td></tr> <tr> <td>LOS</td><td>Loss Of Signal detected.</td></tr> <tr> <td>MAN</td><td>Manual removal (logical removal was performed on the facility).</td></tr> <tr> <td>RAI</td><td>Remote Alarm Indication detected.</td></tr> </table>	1TO6LOF	One To Six Loss Of Frame, Incoming LOF detected on 1 to 6 DS2s embedded in the DS3.	7LOF	Seven Loss Of Frame, Incoming LOF detected on all 7 DS2s embedded in the DS3.	ACTLPBK	Active Loopback, the DS3 port is in loop back.	AICMIS	Application Identification Channel Mismatch, AIC mismatch detected.	AIS	Alarm Indication Signal, AIS detected.	DS2YEL	DS2 Yellow (Remote Alarm Indication) detected on one of the DS2s embedded in the DS3.	FEACEQPT	Far-End Alarm & Control (FEAC) Equipment detected.	FLTESC	Facility Fault Escalation active.	INHPMREPT	Inhibit Performance Monitoring Report, PM report capability Inhibited.	ISD	Idle Signal Detected.	LOF	Loss Of Frame detected.	LOS	Loss Of Signal detected.	MAN	Manual removal (logical removal was performed on the facility).	RAI	Remote Alarm Indication detected.
1TO6LOF	One To Six Loss Of Frame, Incoming LOF detected on 1 to 6 DS2s embedded in the DS3.																												
7LOF	Seven Loss Of Frame, Incoming LOF detected on all 7 DS2s embedded in the DS3.																												
ACTLPBK	Active Loopback, the DS3 port is in loop back.																												
AICMIS	Application Identification Channel Mismatch, AIC mismatch detected.																												
AIS	Alarm Indication Signal, AIS detected.																												
DS2YEL	DS2 Yellow (Remote Alarm Indication) detected on one of the DS2s embedded in the DS3.																												
FEACEQPT	Far-End Alarm & Control (FEAC) Equipment detected.																												
FLTESC	Facility Fault Escalation active.																												
INHPMREPT	Inhibit Performance Monitoring Report, PM report capability Inhibited.																												
ISD	Idle Signal Detected.																												
LOF	Loss Of Frame detected.																												
LOS	Loss Of Signal detected.																												
MAN	Manual removal (logical removal was performed on the facility).																												
RAI	Remote Alarm Indication detected.																												
SRVEFF	<p>{NSA, SA} Service Effect, identifies the service effect for the condition type and notification code being reported. Values are:</p> <table> <tr> <td>NSA</td><td>Non-Service Affecting</td></tr> <tr> <td>SA</td><td>Service Affecting</td></tr> </table>	NSA	Non-Service Affecting	SA	Service Affecting																								
NSA	Non-Service Affecting																												
SA	Service Affecting																												
OCRDAT	<p>{MONTH-DAY:{01-12} - {01-31} } Occurrence Date, identifies the date when the condition occurred. The format of OCRDAT is <MONTH_OF_YEAR> - <DAY_OF_MONTH>.</p>																												
OCRTM	<p>{HOUR-MINUTE-SECOND:{00-23} - {00-59} - {00-59} } Occurrence Time, identifies the time when the condition occurred. The format of OCRTM is <HOUR_OF_DAY> - <MINUTE_OF_HOUR> -<SECOND_OF_MINUTE>.</p>																												
LOCN	<p>{FEND, NEND} Location, identifies the location where the condition type is monitored. Values are:</p> <table> <tr> <td>FEND</td><td>Far-End, events occurring at a distant network element.</td></tr> <tr> <td>NEND</td><td>Near-End, events occurring at the system.</td></tr> </table>	FEND	Far-End, events occurring at a distant network element.	NEND	Near-End, events occurring at the system.																								
FEND	Far-End, events occurring at a distant network element.																												
NEND	Near-End, events occurring at the system.																												
DIRN	<p>{TRMT, <NoVal>} Direction, identifies the direction of the condition type being monitored. Values are:</p> <table> <tr> <td>TRMT</td><td>Transmit Direction, value returned for CONDDTYPE of FLTESC.</td></tr> <tr> <td><NoVal></td><td>No Value (null) returned for all conditions other than FLTESC.</td></tr> </table>	TRMT	Transmit Direction, value returned for CONDDTYPE of FLTESC.	<NoVal>	No Value (null) returned for all conditions other than FLTESC.																								
TRMT	Transmit Direction, value returned for CONDDTYPE of FLTESC.																												
<NoVal>	No Value (null) returned for all conditions other than FLTESC.																												
CONDDDESCR	<p>< 1-64 alpha-numeric characters > Condition Description, an optional, non-parsable, text description of the condition, enclosed within escape-quotes (\ " ... \ ").</p>																												

EXAMPLES

The following example shows the autonomous message generated by the system to report a LOS facility failure on DS3 port T3–1160.

The autonomous response, shown below, assumes a system generated ATAG value of 13579. The response header would contain the provisioned Site ID of the system, and the date and time the autonomous response was generated.

```
<SID> <YY-MM-DD> <HH:MM:SS>
** 13579 REPT ALM T3
   "T3-1160:MJ,LOS,SA,07-01,07-05-10,NEND,,,"
;
```

RELATED COMMANDS

ED-PRVG-USER
ENT-USER
RTRV-ALM-ALL
RTRV-ALM-T3
RTRV-ATTR-T3
RTRV-COND-ALL
RTRV-COND-T3
RTRV-DFLTATTR-T3
SET-ATTR-T3
SET-DFLTATTR-T3

RELATED AUTONOMOUS RESPONSES

REPT^EVT^T3

RESPONSE CODE: **REPT^ALM^VT1**
RESPONSE NAME: **REPORT ALARM VT1**

PURPOSE

The REPT^ALM^VT1 autonomous response is generated by the system to report the occurrence of an alarmed standing condition (an event occurred which caused a condition with a notification code of major or minor to be set by the system) for the indicated VT1.5 port, or to report the clearing of a previously reported alarmed standing condition for the indicated VT1.5 port.

The autonomous response contains a line of parsable output data for each alarmed standing condition being reported. Only parsable data with the same NTFNCNDE is reported in an autonomous message if more than one alarmed standing condition is being reported (i.e., alarms with different notification codes are reported in different autonomous messages).

RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
<ALMCDE> <ATAG> REPT ALM VT1
  "<AID>:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,<OCRDAT>,<OCRTM>,<LOCN>,"
  [<DIRN>] , , , [ : \ "<CONDDDESCR>\ " , , , ] "
;
```

OUTPUT PARAMETERS

ALMCDE	{**, ^, A^}	Alarm Code, identifies the nature of the autonomous response based on the priority of action. (Note. The ^ shown in the value set is used to represent a space. The ^ does not actually appear in the output response.) Values are:
	**	Major Alarm, indicates a major alarm is being reported.
	^	Minor Alarm, indicates a minor alarm is being reported.
	A^	Autonomous Message, indicates the clearing of an alarm is being reported.
ATAG	{0-99999}	Autonomous Message Tag, the system assigned tag number used to correlate autonomous messages.
AID	VT1_AID: {EC1VT1-{1-3840}-{1-7}-{1-4}} {OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}} {OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}} (OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#) (OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)
	VT1 AID, identifies the VT1.5 port.	
NTFCNCDE	{CL, CR, MJ, MN}	Notification Code, indicates the notification code of the reported condition. Values are:
	CL	Cleared Alarm, a previously declared alarm has cleared.
	CR	Critical Alarm, a critical alarm has occurred.
	MJ	Major Alarm, a major alarm has occurred.
	MN	Minor Alarm, a minor alarm has occurred.

CONDTYPE	NEAR-END_CONDDTYPE:{ACTLPBK, AIS, EBER, FLTESC, FRCDWKSWBK, FRCDWKSWPR, IDLE, INHPMREPT, LOP, MAN, MANWKSWBK, MANWKSWPR, ROLLMON, SDBER, SLMF}, FAR-END_CONDDTYPE:{RFI} Condition Type, identifies the condition type being reported. (Refer to Appendix C for a list of all condition types.) Values are:	
	ACTLPBK	Active Loopback, the VT1.5 port is in loop back.
	AIS	Alarm Indication Signal, AIS detected.
	EBER	Excessive Bit Error Rate detected.
	FLTESC	Facility Fault Escalation active.
	FRCDWKSWBK	Forced Working Switched Back, working facility was manually force switched from protection to the main facility.
	FRCDWKSWPR	Forced Working Switched to Protection, working facility was manually force switched to the protection facility.
	IDLE	Idle, incoming idle detected.
	INHPMREPT	Inhibit Performance Monitoring Report, PM report capability Inhibited.
	LOP	Loss Of Pointer detected.
	MAN	Manual removal (logical removal was performed on the facility).
	MANWKSWBK	Manual Working Switched Back, working facility was manually switched from protection to the main facility.
	MANWKSWPR	Manual Working Switched to Protection, working facility was manually switched to the protection facility.
	RFI	Remote Failure Indication detected.
	ROLLMON	Roll Monitoring, receive-side RTO port being monitored for valid signal.
	SDBER	Signal Degrade Bit Error Rate detected.
	SLMF	Signal Label Match Failure detected.
SRVEFF	{NSA, SA} Service Effect, identifies the service effect for the condition type and notification code being reported. Values are:	
	NSA	Non-Service Affecting
	SA	Service Affecting
OCRDAT	{MONTH-DAY:{01-12} - {01-31} } Occurrence Date, identifies the date when the condition occurred. The format of OCRDAT is <MONTH_OF_YEAR> - <DAY_OF_MONTH>.	
OCRTM	{HOUR-MINUTE-SECOND:{00-23} - {00-59} - {00-59} } Occurrence Time, identifies the time when the condition occurred. The format of OCRTM is <HOUR_OF_DAY> - <MINUTE_OF_HOUR> -<SECOND_OF_MINUTE>.	
LOCN	{FEND, NEND} Location, identifies the location where the condition type is monitored. Values are:	
	FEND	Far-End, events occurring at a distant network element.
	NEND	Near-End, events occurring at the system.
DIRN	{TRMT, <NoVal>} Direction, identifies the direction of the condition type being monitored. Values are:	
	TRMT	Transmit Direction, value returned for CONDTYPE of FLTESC.
	<NoVal>	No Value (null) returned for all conditions other than FLTESC.
CONDDDESCR	< 1-64 alpha-numeric characters > Condition Description, an optional, non-parsable, text description of the condition, enclosed within escape-quotes (" ... ").	

EXAMPLES

The following example shows the autonomous message generated by the system to report a LOP facility failure on VT1.5 port EC1VT1-200-7-1.

The autonomous response, shown below, assumes a system generated ATAG value of 13579. The response header would contain the provisioned Site ID of the system, and the date and time the autonomous response was generated.

```
<SID> <YY-MM-DD> <HH:MM:SS>
** 13579 REPT ALM VT1
   "EC1VT1-200-7-1:MJ,LOP,SA,07-01,07-05-10,NEND,,,"
;
```

RELATED COMMANDS

ED-PRVG-USER
ENT-USER
RTRV-ALM-ALL
RTRV-ALM-VT1
RTRV-ATTR-VT1
RTRV-COND-ALL
RTRV-COND-VT1
RTRV-DFLTATTR-VT1
SET-ATTR-VT1
SET-DFLTATTR-VT1

RELATED AUTONOMOUS RESPONSES

REPT^EVT^VT1

RESPONSE CODE: **REPT^DBCHG**
RESPONSE NAME: **REPORT Database change**

PURPOSE

The REPT^DBCHG autonomous response is generated by the system to report a database change to a user (OS – Operations System, or other user provisioned to receive REPT^DBCHG messages via ENT–USER or ED–PRVG–USER) caused by the execution of an entity provisioning command, an autonomous equipment insertion, extraction, failure, or failure recovery event, or an autonomous change in the entity's primary state (PST).

REPT^DBCHG messages are transmitted to all active users provisioned (via the user's OSL provisioning in the ENT–USER or ED–PRVG–USER commands) to receive REPT^DBCHG messages, except for the user originating an entity provisioning command.

A separate REPT^DBCHG message is generated for each AID specified in an entity provisioning command, regardless if a range of AIDs are entered in a command.

The REPT^DBCHG messages generated by the system are stored in the system's output disk buffer (the event log file). If the communication interface between the system and the user is interrupted and subsequently reestablished, or the user logs–off and subsequently logs–on the system, the system can automatically transmit the stored REPT^DBCHG messages that were generated while communication with the user was interrupted. The provisioning of each user's DSKBFIND parameter in the ENT–USER or ED–PRVG–USER commands controls whether the system transmits stored REPT^DBCHG messages to a user in this situation.

The input commands that cause a REPT^DBCHG autonomous message are:

- | | | | | |
|-----------------|---------------|-------------|-------------|-----------------|
| • ENT–EC1 | • ED–EC1 | • RMV–EC1 | • RST–EC1 | • DLT–EC1 |
| • ENT–EQPT | • ED–EQPT | • RMV–EQPT | • RST–EQPT | • DLT–EQPT |
| • ENT–F3 | • ED–F3 | | | • DLT–F3 |
| • ENT–OC12 | • ED–OC12 | • RMV–OC12 | • RST–OC12 | • DLT–OC12 |
| • ENT–OC3 | • ED–OC3 | • RMV–OC3 | • RST–OC3 | • DLT–OC3 |
| • ENT–STS1 | • ED–STS1 | • RMV–STS1 | • RST–STS1 | • DLT–STS1 |
| • ENT–STS3C | • ED–STS3C | • RMV–STS3C | • RST–STS3C | • DLT–STS3C |
| • ENT–T1 | • ED–T1 | • RMV–T1 | • RST–T1 | • DLT–T1 |
| • ENT–T3 | • ED–T3 | • RMV–T3 | • RST–T3 | • DLT–T3 |
| • ENT–VT1 | • ED–VT1 | • RMV–VT1 | • RST–VT1 | • DLT–VT1 |
| • ENT–CONF–T1 | | | | • DLT–CONF–T1 |
| • ENT–CONF–VT1 | | | | • DLT–CONF–VT1 |
| • ENT–CRS–STS1 | | | | • DLT–CRS–STS1 |
| • ENT–CRS–STS3C | | | | • DLT–CRS–STS3C |
| • ENT–CRS–T1 | | | | • DLT–CRS–T1 |
| • ENT–CRS–T3 | | | | • DLT–CRS–T3 |
| • ENT–CRS–VT1 | | | | • DLT–CRS–VT1 |
| • ENT–FFP–OC12 | | | | • DLT–FFP–OC12 |
| • ENT–FFP–OC3 | | | | • DLT–FFP–OC3 |
| | • ED–FFP–STS1 | | | |
| | • ED–FFP–VT1 | | | |
| • ENT–RNG–OC12 | | | | • DLT–RNG–OC12 |
| • ENT–RNG–OC3 | | | | • DLT–RNG–OC3 |
| • ENT–ROLL–T1 | | | | • DLT–ROLL–T1 |
| • ENT–ROLL–VT1 | | | | • DLT–ROLL–VT1 |
| • SET–SID | | | | |

The autonomous events that cause a REPT^DBCHG autonomous message are:

- Installation (physical insertion) of an equipment entity.
- De-installation (physical extraction) of an equipment entity.
- Failure of an equipment entity.
- Failure recovery of an equipment entity.
- Change in primary state (PST) of an OC12, OC3, EC1, STS-1, STS-3C, VT1.5, DS3, DS1 or cross-connection entity.
- Change in secondary state (SST) of a VT1.5 or DS1 during the completion of ENT-ROLL-T1/VT1, and DLT-ROLL-T1/VT1 commands.

RESPONSE FORMAT

```

      <SID> <YY-MM-DD> <HH:MM:SS>
A  <ATAG> REPT DBCHG
    " [SOURCE=<CTAG> , ] DATE=<DATE> , TIME=<TIME> : <EVENT> : <AID>
[ : <POSITBLK> [ : <KYWDBLK> [ : <STATE> ] ] ] "
;

```

OUTPUT PARAMETERS

ATAG	{0-99999} Autonomous Message Tag, the system assigned tag number used to correlate autonomous messages.
CTAG	{<CTAG of command causing the database change response>, <NOVAL>} Source CTAG, indicates the CTAG of the command that caused the REPT^DBCHG message. If the REPT^DBCHG message was not caused by an input command, the keyword SOURCE and CTAG value is not displayed.
DATE	{YY-MM-DD:{00-99} - {1-12} - {1-31} } Date, identifies the date the database change occurred. The format of DATE is <YEAR> - <MONTH> - <DAY>, where values for <YEAR> from 70 through 00 represent the year 1970 through the year 2000.
TIME	{HH-MM-SS:{00-23}-{00-59}-{00-59} } Time, identifies the time the database change occurred. The format of TIME is <HOUR> - <MINUTE> - <SECOND>.
EVENT	{CLEAR-AINS, CLEAR-FAULT-EQPT, DLT-CONF-T1, DLT-CONF-VT1, DLT-CRS-STs1, DLT-CRS-STs3C, DLT-CRS-T1, DLT-CRS-T3, DLT-CRS-VT1, DLT-EC1, DLT-EQPT, DLT-F3, DLT-FFP-OC3, DLT-OC3, DLT-RNG-OC12, DLT-RNG-OC3, DLT-ROLL-T1, DLT-ROLL-VT1, DLT-STs1, DLT-STs3C, DLT-T1, DLT-T3, DLT-VT1, DLT-RNG-OC12, DLT-RNG-OC3 ED-EC1, ED-EQPT, ED-F3, ED-FFP-STs1, ED-FFP-VT1, ED-OC3, ED-OC12, ED-STs1, ED-STs3C, ED-T1, ED-T3, ED-VT1, ENT-CONF-T1, ENT-CONF-VT1, ENT-CRS-STs1, ENT-CRS-STs3C, ENT-CRS-T1, ENT-CRS-T3, ENT-CRS-VT1, ENT-EC1, ENT-EQPT, ENT-F3, ENT-FFP-OC3, ENT-FFP-OC12, ENT-OC3, ENT-RNG-OC12, ENT-RNG-OC3, ENT-ROLL-T1, ENT-ROLL-VT1, ENT-STs1, ENT-STs3C, ENT-T1, ENT-T3, ENT-VT1, ENT-RNG-OC12, ENT-RNG-OC3, FAULT-EQPT, PLUGIN-EQPT} Triggering Event, identifies the executed command or autonomous event that caused the database change.
AID	OC12_AID: {OC12-{1-560}} (OC12-OC12#) OC3_AID:

{OC3-{1-2240}}	(OC3-OC3#)
EC1_AID:	
{EC1-{1-3840} }	(EC1-EC1/STS1#)
STS1_AID:	
{EC1STS1-{1-3840}}	(EC1STS1-EC1/STS1#)
{OC12STS1-{1-560}-{1-4}-{1-3}}	(OC12STS1-OC12#-STM1#-STS1#)
{OC3STS1-{1-2240}-{1-3}}	(OC3STS1-OC3#-STS1#)
STS3C_AID:	
{OC12STS3C-{1-560}-{1-4}}	(OC12STS3C-OC12#-STM1/STS3C#)
{OC3STS3C-{1-2240}}	(OC3STS3C-OC3#/STS3C#)
VT1_AID:	
{EC1VT1-{1-3840}-{1-7}-{1-4}}	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)
{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)
{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)
DS3_AID:	
{T3-{1-4800}}	(T3-DS3#)
{EC1T3-{1-3840}}	(EC1T3-EC1/STS1/DS3#)
{OC12T3-{1-560}-{1-4}-{1-3}}	(OC12T3-OC12#-STM1#-STS1/DS3#)
{OC3T3-{1-2240}-{1-3}}	(OC3T3-OC3#-STS1/DS3#)
F3_AID:	
{T3F3-{1-4800}-{1-14}}	(T3F3-DS3#-Fractional_DS3#)
DS1_AID:	
{T1-{1-59392}}	(T1-DS1#)
{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)
{EC1T1-{1-3840}-{1-28}}	(EC1T1-EC1/STS1/DS3#-DS1#)
{EC1T1-{1-3840}-{1-7}-{1-4}}	(EC1T1-EC1/STS1#-VTGrp#-VT1/DS1#)
{OC12T1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	(OC12T1-OC12#-STM1#-STS1#-VTGrp#-VT1/DS1#)
{OC3T1-{1-2240}-{1-3}-{1-28}}	(OC3T1-OC3#-STS1/DS3#-DS1#)
{OC3T1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3T1-OC3#-STS1#-VTGrp#-VT1/DS1#)
EQUIPMENT_AID:	
{ACL-1-2-{9-28, 37-56, 65-84, 93-112}}	
{ACM-1-2-{3-7, 10-14}}	
{CDA-{4, 5, 10, 11, 16, 17, 22, 23, 102, 103 }-3-1}	
{CDB-{5}-{1, 3}-{1, 2}}	
CDB-{2-43, 104-111 ,112-135, 136-141 }-{1, 3}-{1, 2}	
{SI36: CDB-{6-9, 12-15, 18-21, 24-43}-{1, 3}-{1-2},	
{SI48: CDB-{2-43, 104-111 ,112-135, 136-141 }-{1, 3}-{1, 2}	
{CIM-1-2-{3-7, 10-14}}	
{CKB-{1-63, 101, 102-111 , 112-135, 136-141 }-{0}-{1-2}}	
{CPU-1-2-{1-2}}	
{DSB-{6-9, 12-15, 18-21, 24-43, 104-111 , 112-135, 136-141 }-{1, 3}-{1-2}}	
{DSI-{44-63}-{1-4}-{1-32}}	
{DSK-1-3-1,	
DSK-1-4-2}	
{EOB-{5}-{1, 3}-{1-5}}	
{SI48: EOB-{6-9, 12-15, 18-21, 24-43, 104-111 , 112-135, 136-141 }-{1, 3}-{1-2},	
EOC: EOB-{4-5, 10-11, 16-17, 22-23, 102, 103 }-1-{1-7, 9-15}}	
{SI48: EP3-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42,	
104-106,108-110, 136-141 }-{1, 3}-{1-18},	
EP3-{9, 21, 35, 43, 107 }-3-{1-18},	
EP3-{15, 27, 31, 39, 111 }-1-{1-18}}	

{SI36: EP3-{6-8, 12-14}-{1, 3}-{1-14},
 EP3-9-3-{1-14},
 EP3-15-1-{1-14}}
 {SI48: ES1-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42,
 104-106, 108-110, 136-141}-{1, 3}-{1-18},
 ES1-{9, 21, 35, 43, **107**}-3-{1-18},
 ES1-{15, 27, 31, 39, **111**}-1-{1-18}}
 {SI36: ES1-{6-8, 12-14}-{1, 3}-{1-14},
 ES1-9-3-{1-14},
 ES1-15-1-{1-14}}
 {ESA-{44-63}-{1-4}-{1-2}}
 {FAN-{1, 101}-0-1},
 FAN-{2-63, **102-111**, 112-135, **136-141**}-{1-3}-1}
 {HMU-{44-53}-{1-4}-{1-8}}
 {ICM-1-2-{1, 2, 8, 9}}
 {IOB-{6-8, 12-14}-{1, 3}-{1, 3, 5, 7},
 IOB-9-3-{1, 3, 5, 7},
 IOB-15-1-{1, 3, 5, 7}}
 {IPB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2}}
 {IPU-{44-63}-{1-4}-{1-8}}
 {LMU-{44-53}-{1-4}-{1-32}}
 {LT1-1-1-{1-6}}
 {LT2-1-1-{1-6}}
 {LT4-1-1-{7-16}}
 {LT5-1-1-{2-6}}
 {M16-{2-5, 10-11, 16-17, 22-23}-3-{1-16}}
 {M32-{4-5, 10-11, 16-17, 22-23, **102**, **103**}-3-{1-16},
 M32-{5}-{1, 3}-{1-3, 6-8}}
 {M40-{2-3}-{1, 3}-{1-16}}
 {M40-{5}-{1, 3}-{4, 5, 9, 10}}
 {MCB-{2,3}-3-1}
 {MCB-{5}-{1, 3}-{1}}
 {O1B-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{2-9, 11-18}}
 {OPD-1-3-1,
 OPD-1-4-2}
 {OXB-{44-63}-{1-4}-{1-2}}
 {P39-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-3},
 P39-{4, 5, 10, 11, 16, 17, 22, 23, **102**, **103**}-1-{1-3},
 P39-{4, 5, 10, 11, 16, 17, 22, 23, **102**, **103**}-3-{1-4},
 P39-{5}-{1, 3}-{1-4}}
 {P56-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-5},
 P56-{2-3}-{1, 3}-{1-4},
 P56-{4, 5, 10, 11, 16, 17, 22, 23, **102**, **103**}-1,3-{1-5},
 P56-{5}-{1, 3}-{1-4}}
 {PDU-{2-43, **102-111**, 112-135, **136-141**}-0-1}
 {PRT-{44-63}-{1-4}-{8, 16, 24, 32}}
 {PSF-1-{3, 4}-{1, 2},
 PSF-{44-63}-{1-4}-{1-2}}
 {PST-1-{3, 4}-{1-2}}
 {QUAD-{44-63}-{1-4}-{1-4}}
 {RDU-{44-63}-0-1}
 {RPB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2}}
 {RSP-{1, 101}-0-1}

{SBT-1-2-{1-4}}
{SHELF-{6-9, 12-15, 18-21, 24-43, **104-111, 136-141**}-{1, 3}-1}
{SHELF-{5}-{1, 3}-{1}}
{SIO-1-2-{1-2, 8-9}}
{SPB-{2-43, **102-111, 112-135, 136-141**}-{1, 3}-{1-2}}
{SPB-{5}-{1, 3}-{1, 2}}
{SWI-{44-63}-{1-4}-{1-7, 9-15, 17-23, 25-31}}
<NoVal>

No value provided if REPT^DBCHG is caused by a SET-SID.

Access IDentifier, identifies the equipment entity, OC12 port, OC3 port, EC1 port, STS-1 port, VT1.5 port, DS3 port, F3 port, or DS1 port associated with the database change. No value is provided in the AID field if the database change message was caused by a SET-SID command.

POSITBLK	{<Any data entered in the command's Positional Parameter Block>, <NoVal>} Command's Positional Block, identifies any data entered in a command's positional block if the database change message was caused by executing a command. Refer to the command descriptions (of each command that can cause a database change message) in section 2 for a description of each command's positional block. No value is provided in the POSITBLK field (the field is unpopulated) if the database change message was caused by an autonomous event.
KYWDBLK	{<Any data entered in the command's Keyword Parameter Block>, <NoVal>} Command's Keyword Block, identifies any data entered in a command's keyword block if the database change message was caused by executing a command. Refer to the command descriptions (of each command that can cause a database change message) in section 2 for a description of each command's keyword block. No value is provided in the KYWDBLK field (the field is unpopulated) if the database change message was caused by an autonomous event.
STATE	{<Any data entered in the command's State Parameter Block>, <Entities new PST[,SST] resulting from an autonomous state change>} State Change, identifies any data entered in a command's state block if the database change message was caused by executing a command. Refer to the command descriptions (of each command that can cause a database change message) in section 2 for a description of each command's keyword block. The STATE field indicates the entities new PST[,SST] state if the database change message was caused by an autonomous event.

EXAMPLES

The following example shows the autonomous REPT^DBCHG message generated by the system caused by the execution of a SET-SID command.

The autonomous response, shown below, assumes the system generated a CTAG value of Pad582 and an ATAG value of 2466. The response header would contain the provisioned Site ID of the system, and the date and time the autonomous response was generated.

```
<SID> <YY-MM-DD> <HH:MM:SS>
A 2466 REPT DBCHG
"SOURCE=Pad582,DATE=94-08-21,TIME=09-35-13:SET-SID::THIS-IS-A-SITEID"
;
```

The following example shows the autonomous REPT^DBCHG message generated by the system caused by the execution of an ENT-T1 command on DS1 port 2-15-28.

The autonomous response, shown below, assumes the system generated a CTAG value of Pad567 and an ATAG value of 2468. The response header would contain the provisioned Site ID of the system, and the date and time the autonomous response was generated.

```
<SID> <YY-MM-DD> <HH:MM:SS>
A 2468 REPT DBCHG
"SOURCE=Pad567,DATE=94-08-20,TIME=18-27-15:ENT-T1:2-15-28::FMT=ESF:IS"
;
```

The following example shows the autonomous REPT^DBCHG message generated by the system caused by the execution of an DLT-CRS-T1 command to delete the one-way cross-connection from DS1 port 3-9-15 to DS1 port 5-7-28.

The autonomous response, shown below, assumes the system generated a CTAG value of Pad572 and an ATAG value of 2471. The response header would contain the provisioned Site ID of the system, and the date and time the autonomous response was generated.

```
<SID> <YY-MM-DD> <HH:MM:SS>
A 2471 REPT DBCHG
  "SOURCE=Pad572,DATE=94-08-20,TIME=18-43-22:DLT-CRS-T1:3-9-15,5-7-28:
  1WAY"
;
```

The following example shows the autonomous REPT^DBCHG message generated by the system caused by the execution of a DLT-T1 command using &&-ranging to delete DS1 ports 2-7-1 through 2-7-2.

The autonomous response, shown below, assumes the system generated a CTAG value of Pad575 and ATAG values of 2473 and 2474. The response header would contain the provisioned Site ID of the system, and the date and time the autonomous response was generated.

```
<SID> <YY-MM-DD> <HH:MM:SS>
A 2473 REPT DBCHG
  "SOURCE=Pad575,DATE=94-08-20,TIME=18-55-07:DLT-T1:2-7-1:::OOS-MA,UAS"
;

<SID> <YY-MM-DD> <HH:MM:SS>
A 2474 REPT DBCHG
  "SOURCE=Pad575,DATE=94-08-20,TIME=18-55-07:DLT-T1:2-7-2:::OOS-MA,UAS"
;
```

The following example shows the autonomous REPT^DBCHG message generated by the system caused by the execution of an ENT-EQPT command of the EP3-10-3 circuit pack.

The autonomous response, shown below, assumes the system generated a CTAG value of Pad577 and an ATAG value of 2478. The response header would contain the provisioned Site ID of the system, and the date and time the autonomous response was generated.

```
<SID> <YY-MM-DD> <HH:MM:SS>
A 2478 REPT DBCHG
  "SOURCE=Pad577,DATE=94-08-20,TIME=19-07-32:ENT-EQPT:EP3-10-3::
  LBO2=LONG,LBO3=LONG:OOS,MT"
;
```

The following example shows the autonomous REPT^DBCHG message generated by the system caused by the physical removal of an EP3-5-2 circuit pack that's was in an OOS-MA state.

The autonomous response, shown below, assumes a system generated ATAG value of 2480. The response header would contain the provisioned Site ID of the system, and the date and time the autonomous response was generated.

```
<SID> <YY-MM-DD> <HH:MM:SS>
A 2480 REPT DBCHG
  "DATE=94-08-21,TIME=09-12-47:UNPLUG-EQPT:EP3-5-2:::OOS-AUMA,UEQ"
;
```

RELATED COMMANDS

DLT-CONF-T1
DLT-CONF-VT1
DLT-CRS-STs1
DLT-CRS-STs3C
DLT-CRS-T1

DLT-CRS-T3
DLT-CRS-VT1
DLT-EC1
DLT-EQPT
DLT-F3
DLT-FFP-OC12
DLT-FFP-OC3
DLT-OC12
DLT-OC3
DLT-RNG-OC12
DLT-RNG-OC3
DLT-ROLL-T1
DLT-ROLL-VT1
DLT-STs1
DLT-STs3C
DLT-T1
DLT-T3
DLT-VT1
ED-EC1
ED-EQPT
ED-F3
ED-FFP-OC12
ED-FFP-OC3
ED-FFP-STs1
ED-FFP-VT1
ED-OC12
ED-OC3
ED-PRVG-USER
ED-RNG-OC12
ED-RNG-OC3
ED-STs1
ED-STs3C
ED-T1
ED-T3
ED-VT1
ENT-CONF-T1
ENT-CONF-VT1
ENT-CRS-STs1
ENT-CRS-STs3C
ENT-CRS-T1
ENT-CRS-T3
ENT-CRS-VT1
ENT-EC1
ENT-EQPT
ENT-F3
ENT-FFP-OC12
ENT-FFP-OC3
ENT-OC12
ENT-OC3
ENT-RNG-OC12
ENT-RNG-OC3
ENT-ROLL-T1
ENT-ROLL-VT1

ENT-STS1
ENT-STS3C
ENT-T1
ENT-T3
ENT-USER
ENT-VT1
RMV-EC1
RMV-EQPT
RMV-OC12
RMV-OC3
RMV-STS1
RMV-STS3C
RMV-T1
RMV-T3
RMV-VT1
RST-EC1
RST-EQPT
RST-OC12
RST-OC3
RST-STS1
RST-STS3C
RST-T1
RST-T3
RST-VT1
SET-SID

RELATED AUTONOMOUS RESPONSES

REPT^ALM^EC1
REPT^ALM^EQPT
REPT^ALM^OC12
REPT^ALM^OC3
REPT^ALM^STS1
REPT^ALM^STS3C
REPT^ALM^T1
REPT^ALM^T3
REPT^ALM^VT1
REPT^EVT^EC1
REPT^EVT^EQPT
REPT^EVT^OC12
REPT^EVT^OC3
REPT^EVT^STS1
REPT^EVT^STS3C
REPT^EVT^T1
REPT^EVT^T3
REPT^EVT^VT1

RESPONSE CODE: **REPT^EVT^COM**
RESPONSE NAME: **REPORT EVENT COMMON**

PURPOSE

The REPT^EVT^COM autonomous response is generated by the system

- to report the occurrence of a non–alarmed standing common (no specific entity) condition (an event occurred which caused a common condition with a notification code of not–alarmed to be set by the system),
- to report the clearing of a previously reported non–alarmed standing common condition,
- or to report a transient *non* threshold crossing alert (Non–TCA) common condition.

RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>
A <ATAG> REPT EVT COM
  "COM:<CONDTYPE>,<CONDEFF>,<OCRDAT>,<OCR TM>,<LOCN> , , ,
[ : \ "<CONDDDESCR>\ " , , , ] "
;
```

OUTPUT PARAMETERS

ATAG	{0–99999}	Autonomous Message Tag, the system assigned tag number used to correlate autonomous messages.
CONDTYPE	STANDING_CONDTYPE:{DATAFLT, EUA, FRNGSYNC, FSTSYNC, GOS–EC1, GOS–OC3, GOS–OC12, GOS–STS1, GOS–STS3C, GOS–T1, GOS–T3, GOS–VT1, HLDVRSYNC, INHFL, INIT, ITMIP, MANSELDATAACPY0, MANSELDATAACPY1, MANSWTOPRI, MANSWTOSEC, PAINTGRT, RCVRY, SWTOPRI, SWTOSEC, UPGRD1344, UPGRD2688} TRANSIENT_NON–TCA_CONDTYPE:{PMFILERDY}	Condition Type, identifies the standing or transient condition type being reported. (Refer to Appendix C for a list of all standing and transient Non–TCA condition types.) Values are:
	DATAFLT	Data integrity Fault, CRC error detected during a database read.
	EUA	Emergency User Access activated.
	FRNGSYNC	Free Running Synchronization, manual switch to free running clock reference synchronization mode.
	FSTSYNC	Fast Acquisition Synchronization, manual or automatic switch to fast acquisition clock reference synchronization mode.
	GOS–EC1	Grade of Service–EC1, system–wide EC1 GOS threshold reached.
	GOS–OC3	Grade of Service–OC3, system–wide OC3 GOS threshold reached.
	GOS–OC12	Grade of Service–OC12, system–wide OC12 GOS threshold reached.
	GOS–STS1	Grade of Service–STS1, system–wide STS1 GOS threshold reached.
	GOS–STS3C	Grade of Service–STS3C, system–wide STS3C GOS threshold reached.
	GOS–T1	Grade of Service–T1, system–wide DS1 GOS threshold reached.
	GOS–T3	Grade of Service–T3, system–wide DS3 GOS threshold reached.

	GOS-VT1	Grade of Service-VT1, system-wide VT1.5 GOS threshold reached.
	HLDOVRSYNC	Synchronization Holdover, manual or automatic switch to holdover clock reference synchronization mode.
	INHFL	Inhibit Fault Locating, automatic system-wide fault isolation inhibited.
	INIT	Initialization, system initialization in-process.
	ITMIP	Installation Test and Maintenance (ITM) mode is set.
	MANSELDATACPY0	Manual Selection/Lock to Data Copy 0 due to execution of SELECT-COPY command.
	MANSELDATACPY1	Manual Selection/Lock to Data Copy 1 due to execution of SELECT-COPY command.
	MANSWTOPRI	Manual Switch To Primary Synchronization Reference.
	MANSWTOSEC	Manual Switch To Secondary Synchronization Reference.
	MTXUPGRD	Matrix Upgrade in Progress.
	PAINTGRT	Path Integrity Failure, a system-wide data or clock failure detected.
	RCVRY	Recovery. The System level recovery has been executed.
	SWTOPRI	Automatic Switch To Primary Synchronization Reference.
	SWTOSEC	Automatic Switch To Secondary Synchronization Reference.
	UPGRD1344	672 Port to 1344 Port Upgrade in Progress.
	UPGRD2688	1344 Port to 2688 Port Upgrade in Progress.
	Values for TRANSIENT (Non Threshold Crossing Alert) CONDITION TYPES are:	
	PMFILERDY	15-Minute or 1-Day Binary PM Data is ready to be transferred.
CONDEFF	{CL, SC,TC}	Condition Effect, identifies the effect of the standing condition being reported. Values are:
	CL	Cleared, a previously declared non-alarmed standing condition has cleared.
	SC	Standing Condition, a non-alarmed standing condition has occurred.
	TC	Transient Condition, a non-alarmed transient condition has occurred.
OCRDAT	{MONTH-DAY:{01-12} - {01-31} }	Occurrence Date, identifies the date when the condition occurred. The format of OCRDAT is <MONTH_OF_YEAR> - <DAY_OF_MONTH>.
OCRTM	{HOUR-MINUTE-SECOND:{00-23} - {00-59} - {00-59} }	Occurrence Time, identifies the time when the condition occurred. The format of OCRTM is <HOUR_OF_DAY> - <MINUTE_OF_HOUR> -<SECOND_OF_MINUTE>.
LOCN	{NEND}	Location, identifies the location where the condition type is monitored. A value of NEND (Near-End) is always reported.
CONDDDESCR	< 1-64 alpha-numeric characters > Condition Description, an optional, non-parsable, text description of the condition, enclosed within escape-quotes (\ " ... \").	

EXAMPLES

The following example shows the autonomous message generated by the system to report a non-alarmed INHFL standing condition.

The autonomous response, shown below, assumes a system generated ATAG value of 2468. The response header would contain the provisioned Site ID of the system, and the date and time the autonomous response was generated.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
A 2468 REPT EVT COM  
  "COM:INHFL,SC,07-01,07-05-10,NEND,,,"  
;
```

RELATED COMMANDS

ED-PRVG-USER
ENT-USER
RTRV-ALM-ALL
RTRV-ALM-COM
RTRV-ATTR-COM
RTRV-COND-ALL
RTRV-COND-COM
SET-ATTR-COM

RELATED AUTONOMOUS RESPONSES

REPT^ALM^COM

RESPONSE CODE: **REPT^EVT^EC1**
RESPONSE NAME: **REPORT EVENT EC1**

PURPOSE

The REPT^EVT^EC1 autonomous response is generated by the system

- to report the occurrence of one or more non–alarmed standing condition(s) (an event occurred which caused a condition with a notification code of not–alarmed to be set by the system) for the indicated EC1 port(s),
- to report the clearing of one or more previously reported non–alarmed standing condition(s) for the indicated EC1 port(s),
- or to report a transient threshold crossing alert (PM TCA) condition for the indicated EC1 port.

RESPONSE FORMAT

The following autonomous response format is provided when EC1 standing conditions are reported.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
A <ATAG> REPT EVT EC1  
  "<AID>:<CONDTYPE>,<CONDEFF>,<OCRDAT>,<OCRTM>,<LOCN>,,,,  
[:\"<CONDDDESCR>\" , , , ] "  
;
```

The following autonomous response format is provided when EC1 transient conditions are reported.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
A <ATAG> REPT EVT EC1  
  "<AID>:<CONDTYPE> , , <OCRDAT>,<OCRTM>,<LOCN> , , <MONVAL> ,  
<THLEV>,<TMPPER> [ : \"<CONDDDESCR>\" , , , ] "  
;
```

OUTPUT PARAMETERS

ATAG	{0–99999} Autonomous Message Tag, the system assigned tag number used to correlate autonomous messages.
AID	EC1_AID: {EC1–{1–3840} } EC1 AID, identifies the EC1 port. <div>(EC1–EC1/STS1#)</div>

CONDTYPE STANDING_NEAR-END_CONDTYPE:{ACTLPBK, AIS, INHPMREPT, LOF, LOS, MAN},
STANDING_FAR-END_CONDTYPE:{RFI},
TRANSIENT_NEAR-END_TCA_CONDTYPE:{T-LOSS, T-SEFS, T-CVL, T-ESA-L, T-ESB-L, T-ESL, T-SESL, T-UASL},
TRANSIENT_FAR-END_TCA_CONDTYPE:{T-AISS, T-ESL, T-FC-L, T-SESL, T-UASL}

Condition Type, identifies the standing or transient condition type being reported. (Refer to Appendix C for a list of all standing condition types and to Appendix F for a list of all monitored PM parameters for transient TCA condition types.) Values are:

Values for STANDING CONDITION TYPES are:

ACTLPBK	Active Loopback, the EC1 port is in loop back.
AIS	Alarm Indication Signal, AIS detected.
INHPMREPT	Inhibit Performance Monitoring Report, PM report capability Inhibited.
LOF	Loss Of Frame detected.
LOS	Loss Of Signal detected.
MAN	Manual removal (logical removal was performed on the facility).
RFI	Remote Failure Indication detected.

Values for TRANSIENT (Threshold Crossing Alert) CONDITION TYPES are:

T-AISS	TCA-AIS Seconds, indicates an AISS threshold crossing was detected.
T-CVL	TCA-Coding Violations Line, indicates a CV-L threshold crossing was detected.
T-ESA-L	TCA-Errored Seconds type A – Line, indicates an ESA-L threshold crossing was detected.
T-ESB-L	TCA-Errored Seconds type B – Line, indicates an ESB-L threshold crossing was detected.
T-ESL	TCA-Errored Seconds Line, indicates an ES-L threshold crossing was detected.
T-FC-L	TCA-Failure Count – Line, indicates a FC-L threshold crossing was detected.
T-LOSS	TCA-Loss Of Signal Seconds – Section, indicates a LOSS-S threshold crossing was detected.
T-SEFS	TCA-Severely Errored Frame Seconds Section, indicates a SEFS-S threshold crossing was detected.
T-SESL	TCA-Severely Errored Seconds Line, indicates a SES-L threshold crossing was detected.
T-UASL	TCA-Unavailable Seconds Line, indicates an UAS-L threshold crossing was detected.

CONDEFF {CL, SC}
Condition Effect, identifies the effect of the standing condition being reported. A value for CONDEFF is only reported for a standing condition. Values are:

CL	Cleared, a previously declared non-alarmed standing condition has cleared.
SC	Standing Condition, a non-alarmed standing condition has occurred.

OCRDAT {MONTH-DAY:{01-12} – {01-31} }
Occurrence Date, identifies the date when the condition occurred. The format of OCRDAT is <MONTH_OF_YEAR> – <DAY_OF_MONTH>.

OCRTM {HOUR-MINUTE-SECOND:{00-23} – {00-59} – {00-59} }
Occurrence Time, identifies the time when the condition occurred. The format of OCRTM is <HOUR_OF_DAY> – <MINUTE_OF_HOUR> –<SECOND_OF_MINUTE>.

LOCN	{FEND, NEND} Location, identifies the location where the condition type is monitored. Values are: FEND Far-End, events occurring at a distant network element. NEND Near-End, events occurring at the system.
MONVAL	{0-4294967295} Monitored Parameter Value, indicates the measured value in the PM register corresponding to the threshold crossing alert being reported. A value for MONVAL is only reported for a transient condition (threshold crossing alert).
THLEV	{0-4294967295} Threshold Level, indicates the threshold level for the monitored PM parameter corresponding to the threshold crossing alert being reported. A value for THLEV is only reported for a transient condition (threshold crossing alert).
TMPER	{15-MIN, 1-DAY} Time Period, identifies the accumulation time period for the monitored PM parameter corresponding to the threshold crossing alert being reported. A value for TMPER is only reported for a transient condition (threshold crossing alert). Values are: 15-MIN 15-Minute PM collection period. 1-DAY 1-Day (24 hours) PM collection period.
CONDDDESCR	< 1-64 alpha-numeric characters > Condition Description, an optional, non-parsable, text description of the condition, enclosed within escape-quotes (\ " ... \").

EXAMPLES

The following example shows the autonomous message generated by the system to report a non-alarmed standing condition on EC1 port EC1-200.

The autonomous response, shown below, assumes a system generated ATAG value of 2468. The response header would contain the provisioned Site ID of the system, and the date and time the autonomous response was generated.

```
<SID> <YY-MM-DD> <HH:MM:SS>
A 2468 REPT EVT EC1
  "EC1-200:INHMPREPT,SC,07-01,07-05-10,NEND,,,"
;
```

The following example shows the autonomous message generated by the system to report a severely errored seconds, line transient condition (threshold crossing alert) on EC1 port EC1-252.

The autonomous response, shown below, assumes a system generated ATAG value of 2469. The response header would contain the provisioned Site ID of the system, and the date and time the autonomous response was generated.

```
<SID> <YY-MM-DD> <HH:MM:SS>
A 2469 REPT EVT EC1
  "EC1-252:T-SESL,,07-01,07-25-38,FEND,,56,44,15-MIN"
;
```

RELATED COMMANDS

ED-PRVG-USER
ENT-USER
INIT-REG-EC1
RTRV-ALM-ALL
RTRV-ALM-EC1
RTRV-ATTR-EC1
RTRV-COND-ALL
RTRV-COND-EC1
RTRV-DFLTATTR-EC1
RTRV-DFLTTH-EC1
RTRV-PM-EC1
RTRV-PMATTR-ALL
RTRV-PMODE-EC1
RTRV-TH-EC1
SET-ATTR-EC1
SET-DFLTATTR-EC1
SET-DFLTTH-EC1
SET-PMATTR-ALL
SET-PMODE-EC1
SET-TH-EC1

RELATED AUTONOMOUS RESPONSES

REPT^ALM^EC1

RESPONSE CODE: **REPT^EVT^EQPT**
RESPONSE NAME: **REPORT EVENT EQUIPMENT**

PURPOSE

The REPT^EVT^EQPT autonomous response is generated by the system

- to report the occurrence of a non–alarmed standing condition (an event occurred which caused a condition with a notification code of not–alarmed to be set by the system) for the indicated equipment entity,
- to report the clearing of a previously reported non–alarmed standing condition for the indicated equipment entity,
- or to report a transient *non* threshold crossing alert (Non–TCA) condition for the indicated equipment entity.

RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>  
A <ATAG> REPT EVT EQPT  
  "<AID>:<CONDTYPE>,<CONDEFF>,<OCRDAT>,<OCRTM>,<LOCN>,,,  
[:\"<CONDDDESCR>\",,,]"  
;
```

OUTPUT PARAMETERS

ATAG	{0–999999} Autonomous Message Tag, the system assigned tag number used to correlate autonomous messages.
AID	EQUIPMENT_AID: {ACM–1–2–{3–7, 10–14}} {CDA–{4, 5, 10, 11, 16, 17, 22, 23, 102, 103 }–3–1} {CDB–{5}–{1, 3}–{1, 2}} CDB–{2–43, 104–111 ,112–135, 136–141 }–{1, 3}–{1, 2} {SI36: CDB–{6–9, 12–15, 18–21, 24–43}–{1, 3}–{1–2}, {SI48: CDB–{2–43, 104–111 ,112–135, 136–141 }–{1, 3}–{1, 2} {CID–1–1–{1–12}} {CIM–1–2–{3–7, 10–14}} {CKB–{1–63, 101, 102–111 , 112–135, 136–141 }–{0}–{1–2}} {CPU–1–2–{1–2}} {DSB–{6–9, 12–15, 18–21, 24–43, 104–111 , 112–135, 136–141 }–{1, 3}–{1–2}} {DSI–{44–63}–{1–4}–{1–32}} {DSK–1–3–1, DSK–1–4–2} {EOB–{5}–{1, 3}–{1–5}} {SI48: EOB–{6–9, 12–15, 18–21, 24–43, 104–111 , 112–135, 136–141 }–{1, 3}–{1–2}, EOC: EOB–{4–5, 10–11, 16–17, 22–23, 102, 103 }–1–{1–7, 9–15}} {SI48: EP3–{6–8, 12–14, 18–20, 24–26, 28–30, 32–34, 36–38, 40–42, 104–106,108–110, 136–141 }–{1, 3}–{1–18}, EP3–{9, 21, 35, 43, 107 }–3–{1–18}, EP3–{15, 27, 31, 39, 111 }–1–{1–18}} {SI36: EP3–{6–8, 12–14}–{1, 3}–{1–14}, EP3–9–3–{1–14}, EP3–15–1–{1–14}} {SI48: ES1–{6–8, 12–14, 18–20, 24–26, 28–30, 32–34, 36–38, 40–42, 104–106,108–110,136–141 }–{1, 3}–{1–18}, ES1–{9, 21, 35, 43, 107 }–3–{1–18}, ES1–{15, 27, 31, 39, 111 }–1–{1–18}}

{SI36: ES1-{6-8, 12-14}-{1, 3}-{1-14},
ES1-9-3-{1-14},
ES1-15-1-{1-14}}
{ESA-{44-63}-{1-4}-{1-2}}
{FAN-{1, 101}-0-1},
FAN-{2-63, **102-111**, 112-135, **136-141**}-{1-3}-1}
{FUSE-{2-43, **102-111**, 112-135, **136-141**}-0-{1-2}}
{G1EOB-{4, 5, 10, 11, 16, 17, 22, 23, **102, 103**}-1-{1-7, 9-15}-{1-16},
G1EOB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2}-{1-16},
G1EOB-{5}-{1, 3}-{1-5}-{1-16}}
{SI48:G1EP3-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42, **104-106, 108-110**}-
{1, 3}-{1-18}-{1-2},
G1EP3-{9, 21, 35, 43, **107**}-3-{1-18}-{1-2},
G1EP3-{15, 27, 31, 39, **111**}-1-{1-18}-{1-2}}
{SI36: G1EP3-{6-8, 12-14}-{1, 3}-{1-14}-{1-2},
G1EP3-9-3-{1-14}-{1-2},
G1EP3-{15}-1-{1-14}-{1-2}}
{SI48:G1ES1-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42, **104-106, 108-110**}-
{1, 3}-{1-18}-{1-2},
G1ES1-{9, 21, 35, 43, **107**}-3-{1-18}-{1-2},
G1ES1-{15, 27, 31, 39, **111**}-1-{1-18}-{1-2}}
{SI36: G1ES1-{6-8, 12-14}-{1, 3}-{1-14}-{1-2},
G1ES1-9-3-{1-14}-{1-2},
G1ES1-{15-1}-{1-14}-{1-2}}
{G1IOB-{6-8, 12-14}-{1, 3}-{1, 3, 5, 7}-{1-3, 5-7},
G1IOB-9-3-{1, 3, 5, 7}-{1-3, 5-7},
G1IOB-15-1-{1, 3, 5, 7}-{1-3, 5-7}}
{G1IRPB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2}-{1-18}}
{G1M16-{2-5, 10-11, 16-17, 22-23, **102-103**}-3-{1-16}-{1-16}}
{G1M32-{4-5, 10-11, 16-17, 22-23, **102-103**}-3-{1-16}-{1-32},
G1M32-{5}-{1, 3}-{1-3, 6-8}-{1-32}}
{G1M40-{2-3}-{1, 3}-{1-16}-{1-32},
G1M40-{5}-{1, 3}-{4, 5, 9, 10}-{1-32}}
{G1MRPB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2}-{1-16}}
{G1O1B-{6-9, 12-15, 18-21, 24-43, 112-135}-{1, 3}-{2-9, 11-18}-{1-2}}
{G1O4M-{6-9, 12-15, 18-21, 24-43, 112-135}-{1, 3}-{2, 3, 11, 12}-{1-2}}
{G1S3M-{6-9, 12-15, 18-21, 24-43, 112-135}-{1, 3}-{4-9, 13-18}-{1-2}}
{G4EOB-{4-5, 10-11, 16-17, 22-23}-1-{1-7, 9-15}-{1-4},
G4EOB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1, 2}-{1-4},
G4EOB-{5}-{1, 3}-{1-5}-{1-4}}
{G4IOB-{6-8, 12-14}-{1, 3}-{1, 3, 5, 7}-{1-2},
G4IOB-9-3-{1, 3, 5, 7}-{1, 2},
G4IOB-15-1-{1, 3, 5, 7}-{1-2}}
{G4OXB-{44-63}-{1-4}-{1, 2}-1}
{HMU-{44-53}-{1-4}-{1-8}}
{ICM-1-2-{1, 2, 8, 9}}
{IOB-{6-8, 12-14}-{1, 3}-{1, 3, 5, 7},
IOB-9-3-{1, 3, 5, 7},
IOB-15-1-{1, 3, 5, 7}}
{IPB-{6-9, 12-15, 18-21, 24-43, **104-111**, 112-135, **136-141**}-{1, 3}-{1-2}}
{IPU-{44-63}-{1-4}-{1-8}}
{LMU-{44-53}-{1-4}-{1-32}}
{LT1-1-1-{1-6}}
{LT2-1-1-{1-6}}
{LT4-1-1-{7-16}}

{LT5-1-1-{2-6}}
 {LT8-1-1-{7-16}}
 {M16-{2-5, 10-11, 16-17, 22-23}-3-{1-16}}
 {M32-{4-5, 10-11, 16-17, 22-23, **102, 103**}-3-{1-16},
 M32-{5}-{1, 3}-{1-3, 6-8}}
 {M40-{2-3}-{1, 3}-{1-16}}
 {M40-{5}-{1, 3}-{4, 5, 9, 10}}
 {MCB-{2,3}-3-1}
 {MCB-{5}-{1, 3}-{1}}
 {O1B-{6-9, 12-15, 18-21, 24-43, **104-111, 112-135, 136-141**}-{1, 3}-{2-9, 11-18}}
 {O4M-{6-9, 12-15, 18-21, 24-43, **104-111, 112-135, 136-141**}-{1, 3}-{2-3, 11-12}}
 {OPD-1-3-1,
 OPD-1-4-2}
 {OXB-{44-63}-{1-4}-{1-2}}
 {P39-{6-9, 12-15, 18-21, 24-43, **104-111, 112-135, 136-141**}-{1, 3}-{1-3},
 P39-{4, 5, 10, 11, 16, 17, 22, 23, **102, 103**}-1-{1-3},
 P39-{4, 5, 10, 11, 16, 17, 22, 23, **102, 103**}-3-{1-4},
 P39-{5}-{1, 3}-{1-4}}
 {P56-{6-9, 12-15, 18-21, 24-43, **104-111, 112-135, 136-141**}-{1, 3}-{1-5},
 P56-{2-3}-{1, 3}-{1-4},
 P56-{4, 5, 10, 11, 16, 17, 22, 23, **102, 103**}-1,3-{1-5},
 P56-{5}-{1, 3}-{1-4}}
 {PDU-{2-43, **102-111, 112-135, 136-141**}-0-1}
 {PRT-{44-63}-{1-4}-{8, 16, 24, 32}}
 {PSF-1-{3, 4}-{1, 2},
 PSF-{44-63}-{1-4}-{1-2}}
 {PST-1-{3, 4}-{1-2}}
 {QUAD-{44-63}-{1-4}-{1-4}}
 {RDU-{44-63}-0-1}
 {RPB-{6-9, 12-15, 18-21, 24-43, **104-111, 112-135, 136-141**}-{1, 3}-{1-2}}
 {RSP-{1, 101}-0-1}
 {S3M-{6-9, 12-15, 18-21, 24-43, **104-111, 112-135, 136-141**}-{1, 3}-{4-9, 13-18}}
 {SBT-1-2-{1-4}}
 {SHELF-{4-43, 102-141}-{1, 3}-1}
 {SHELF-{5}-{1, 3}-{1}}
 {SIO-1-2-{1-2, 8-9}}
 {SPB-{2-43, **102-111, 112-135, 136-141**}-{1, 3}-{1-2}}
 {SPB-{5}-{1, 3}-{1, 2}}
 {SWI-{44-63}-{1-4}-{1-7, 9-15, 17-23, 25-31}}

Equipment AID, identifies the equipment entity.

CONDTYPE STANDING_CONDTYPE:{ALMCKT, BKUPMEMP, BKUPMEMS, BPMISM, BPTERM,
 CARLOS, CD, CLKLCK0, CLKLCK1, CNTRLRFL, CONTBUS, CONTCOM,
 CONTR, CTNEQPT, DATALCK0, DATALCK1, DBF, DBFFT, DCCEQPT,
 DTLCKCPYFL, DUPMACADDR, DUPTARPENTRY, FA, FANEQPT, FWMISM,
 GT1, GT4, IMPROPRMVL, INHSWDX, INHSWPR, INHSWWKG, INIT, INTERR,
 LOCKOUT, LOTRI, MAN, MANWKSWPR, MISC-1, OSIPARMISM, PRCDRERR,
 PWR, RARFAIL, RCVRY, SWFTDWN, SYNCEQPT, TERM-EC1, TERM-OC12,
 TERM-OC3, TERM-T1, TERM-T3, TERM-T3EC1, TSA, TSI, WKSWPR,
 XIDMISM}

TRANSIENT_NON-TCA_CONDTYPE:{EXCOL}

Condition Type, identifies the standing or transient condition type being reported. (Refer to Appendix C for a list of all standing and transient Non-TCA condition types.) Values are:

Values for STANDING CONDITION TYPES are:

ALMCKT	Alarm Circuit, RDU/RSP failure detected.
BKUPMEMP	Backup Memory—Primary, magnetic disk backup failure.
BKUPMEMS	Backup Memory—Secondary, optical disk/tape drive back-up failure.
BPMISM	Backplane Mismatch, mismatch between the provisioned shelf and the installed shelf backplane.
BPTERM	Backplane Termination failure detected in the SI48 I/O, EOC, End Stage, or Center Stage shelf.
CARLOS	Carrier Loss, loss of carrier event during IEEE 802.3 frame transmission on the LAN.
CD	Control and Display interface audit error detected.
CLKLCK0	Clock Lock 0, the clock path of the I/O, EOC, ES, and CS locked to clock bus 0.
CLKLCK1	Clock Lock 1, the clock path of the I/O, EOC, ES, and CS locked to clock bus 1.
CNTRLRFL	Controller Failure, LAPD or LAN controller failed set on the DSB.
CONTBUS	Control Bus, shelf control bus interface failure.
CONTCOM	Control Communication equipment failure.
CONTR	Control processor equipment failure.
CTNEQPT	Connection Equipment, facility/circuit interconnection equipment failure.
DATALCK0	Data Lock 0, I/O shelf/quad locked to databus 0.
DATALCK1	Data Lock 1, I/O shelf/quad locked to databus 1.
DBF	Database Backup Failure, OPD database backup failure detected (on second try).
DBFFT	Database Backup Failed on First Try, OPD database backup failure detected on first try.
DCCEQPT	Data Communication Channel Equipment, DCC Server Board failed.
DTLCKCPYFL	Data Lock Copy Fail, I/O modules in shelf/quad not locked to the copy specified.
DUPMACADDR	Duplicate MAC Address detected on the LAN.
DUPTARPENTRY	Duplicate TARP adjacency table.
FA	Fuse Alarm, a PDU/RDU/RSP circuit breaker or PDU fuse has failed.
FANEQPT	Fan Equipment, one or more of the fans in a fan assembly failed.
FWMISM	Firmware Mismatch, firmware version number does not match that in the system database.
GT1	GTI Cable fault for GTI cable carrying an STM1 signal.
GT4	GTI Cable fault for GTI cable carrying an STM4 signal.
IMPROPRMVL	Improper Removal, result of a physical circuit pack removal that was not preceded by a logical removal.
INHSDWX	Inhibit Switch Duplex, automatic copy switching of duplex equipment inhibited.
INHSWPR	Inhibit Switch to Protection, automatic protection switching of a main circuit pack to protection unit is inhibited.
INHSWWKG	Inhibit Switch to Working, automatic switching of a main circuit pack back to working (from protection) is inhibited.
INIT	Initialization, shelf initialization in-process.
INTERR	Internal Error, internal error suspected on equipment.

LOCKOUT	LockOut of automatic revertive switching due to excessive protection switching.
LOTRI	Loss Of Offboard Timing Reference Input from mate Master Clock Board circuit pack.
MAN	Manual removal (logical removal was performed on a circuit pack).
MANWKSWPR	Manual Working Switched to Protection, main/working unit was manually switched to the protection unit.
MISC-1	Miscellaneous Class-1, slave MCB is not ready.
OSIPARMISM	OS Initialization Parameter Mismatch, upper layer parameters or lower layer parameters specific to the LAN or manual area addresses are mismatched between two redundant DSBs.
PRCDRERR	Procedure Error, installed equipment does not support the facility provisioning.
PWR	Power, internal power failure detected.
RARFAIL	Re-Arrangement Failed, cross-connect rearrangement through the matrix failed due to SPB communication problem.
RCVRY	Recovery. The System level recovery has been executed. The user must issue INIT-SYS command.
SWFTDWN	Software Download is in process on a circuit pack.
SYNCEQPT	Synchronization Equipment failure detected.
TERM-EC1	Termination Equipment-EC1, ES1 circuit pack failure.
TERM-OC12	Termination Equipment-OC12, O4M circuit pack failure.
TERM-OC3	Termination Equipment-OC3, O1B circuit pack failure.
TERM-T1	Termination Equipment-T1, DSI circuit pack failure.
TERM-T3	Termination Equipment-T3, HMU circuit pack failure.
TERM-T3EC1	Termination Equipment-T3/EC1, EP3 circuit pack failure.
TSA	Test Session Active, maintenance test session active on the equipment.
TSI	Time Slot Interchange equipment failure.
WKSWPR	Working Switched to Protection, main/working unit automatically switched to the protection unit.
XIDMISM	Connection ID Mismatch, internal Connection ID Mismatch detected in the I/O shelf/quad.

Values for TRANSIENT (Non Threshold Crossing Alert) CONDITION TYPES are:

EXCOL	Excessive Collisions event occurred on the 802.3 LAN interface.				
CONDEFF	<p>{CL, SC}</p> <p>Condition Effect, identifies the effect of the standing condition being reported. Values are:</p> <table> <tr> <td>CL</td><td>Cleared, a previously declared non-alarmed standing condition has cleared.</td></tr> <tr> <td>SC</td><td>Standing Condition, a non-alarmed standing condition has occurred.</td></tr> </table>	CL	Cleared, a previously declared non-alarmed standing condition has cleared.	SC	Standing Condition, a non-alarmed standing condition has occurred.
CL	Cleared, a previously declared non-alarmed standing condition has cleared.				
SC	Standing Condition, a non-alarmed standing condition has occurred.				
OCRDAT	<p>{MONTH-DAY:{01-12} - {01-31} }</p> <p>Occurrence Date, identifies the date when the condition occurred. The format of OCRDAT is <MONTH_OF_YEAR> - <DAY_OF_MONTH>.</p>				
OCRTM	<p>{HOUR-MINUTE-SECOND:{00-23} - {00-59} - {00-59} }</p> <p>Occurrence Time, identifies the time when the condition occurred. The format of OCRTM is <HOUR_OF_DAY> - <MINUTE_OF_HOUR> -<SECOND_OF_MINUTE>.</p>				

LOCN	{NEND} Location, identifies the location where the condition type is monitored. A value of NEND (Near-End) is always reported.
CONDDDESCR	< 1-64 alpha-numeric characters > Condition Description, an optional, non-parsable, text description of the condition, enclosed within escape-quotes (\ " ... \").

EXAMPLES

The following example shows the autonomous message generated by the system to report a non-alarmed standing condition on the EP3-7-1-3 circuit pack.

The autonomous response, shown below, assumes a system generated ATAG value of 2468. The response header would contain the provisioned Site ID of the system, and the date and time the autonomous response was generated.

```
<SID> <YY-MM-DD> <HH:MM:SS>
A 2468 REPT EVT EQPT
  "EP3-7-1-3: INHSWPR, SC, 07-01, 07-05-10, NEND, , , "
;
```

RELATED COMMANDS

CLR-ALM-EQPT
ED-PRVG-USER
ENT-USER
RTRV-ALM-ALL
RTRV-ALM-EQPT
RTRV-ATTR-EQPT
RTRV-COND-ALL
RTRV-COND-EQPT
RTRV-GTI-STATUS
RTRV-XIDMISM
SET-ATTR-EQPT

RELATED AUTONOMOUS RESPONSES

REPT^ALM^EQPT

RESPONSE CODE: **REPT^EVT^F3**
RESPONSE NAME: **REPORT EVENT F3**

PURPOSE

The REPT^EVT^F3 autonomous response is generated by the system

- to report the occurrence of one or more non–alarmed standing condition(s) (an event occurred which caused a condition with a notification code of not–alarmed to be set by the system) for the indicated F3 port(s),
- or to report the clearing of one or more previously reported non–alarmed standing condition(s) for the indicated F3 port(s).

RESPONSE FORMAT

The following autonomous response format is provided when F3 standing conditions are reported.

```
<SID> <YY-MM-DD> <HH:MM:SS>
A <ATAG> REPT EVT F3
  "<AID>:<CONDTYPE>,<CONDEFF>,<OCRDAT>,<OCRTM>,<LOCN>,,,"
  [:\"<CONDESCR>\",,,]"
;
```

OUTPUT PARAMETERS

ATAG	{0–99999} Autonomous Message Tag, the system assigned tag number used to correlate autonomous messages.
AID	F3_AID: {T3F3–{1–4800}–{1–14}} F3 AID, identifies the F3 port. (T3F3–DS3#–Fractional_DS3#)
CONDTYPE	STANDING_CONDTYPE:{INHMPREPT} Condition Type, identifies the standing condition type being reported. (Refer to Appendix C for a list of all standing condition types.) Values are: Values for STANDING CONDITION TYPES are: INHMPREPT Inhibit Performance Monitoring Report, PM report capability Inhibited.
CONDEFF	{CL, SC} Condition Effect, identifies the effect of the standing condition being reported. A value for CONDEFF is only reported for a standing condition. Values are: CL Cleared, a previously declared non–alarmed standing condition has cleared. SC Standing Condition, a non–alarmed standing condition has occurred.
OCRDAT	{MONTH–DAY:{01–12} – {01–31}} Occurrence Date, identifies the date when the condition occurred. The format of OCRDAT is <MONTH_OF_YEAR> – <DAY_OF_MONTH>.
OCRTM	{HOUR–MINUTE–SECOND:{00–23} – {00–59} – {00–59}} Occurrence Time, identifies the time when the condition occurred. The format of OCRTM is <HOUR_OF_DAY> – <MINUTE_OF_HOUR> –<SECOND_OF_MINUTE>.
LOCN	{NEND} Location, identifies the location where the condition type is monitored. Values are: NEND Near–End, events occurring at the system.

CONDDDESCR < 1–64 alpha–numeric characters >
Condition Description, an optional, non–parsable, text description of the condition, enclosed within escape–quotes (\“ ... \”).

EXAMPLES

The following example shows the autonomous message generated by the system to report a non–alarmed standing condition on F3 port T3F3–200–1.

The autonomous response, shown below, assumes a system generated ATAG value of 2468. The response header would contain the provisioned Site ID of the system, and the date and time the autonomous response was generated.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
A 2468 REPT EVT F3  
  "T3F3-200-1:INHPREREPT,SC,07-01,07-05-10,NEND,,,"  
;
```

RELATED COMMANDS

ED-PRVG-USER
ENT-USER
INIT-REG-F3
RTRV-ALM-ALL
RTRV-ALM-F3
RTRV-ATTR-F3
RTRV-COND-ALL
RTRV-COND-F3
RTRV-DFLTATTR-F3
RTRV-PM-F3
RTRV-PMATTR-ALL
RTRV-PMODE-F3
SET-ATTR-F3
SET-DFLTATTR-F3
SET-PMATTR-ALL
SET-PMODE-F3

RELATED AUTONOMOUS RESPONSES

REPT^ALM^F3

RESPONSE CODE: **REPT^EVT^OC3**
RESPONSE NAME: **REPORT EVENT OC3**

PURPOSE

The REPT^EVT^OC3 autonomous response is generated by the system

- to report the occurrence of one or more non–alarmed standing condition(s) (an event occurred which caused a condition with a notification code of not–alarmed to be set by the system) for the indicated OC3 port(s),
- to report the clearing of one or more previously reported non–alarmed standing condition(s) for the indicated OC3 port(s),
- to report a transient *non* threshold crossing alert (Non–TCA) condition for the indicated OC3 port,
- or to report a transient threshold crossing alert (PM TCA) condition for the indicated OC3 port.

RESPONSE FORMAT

The following autonomous response format is provided when OC3 standing conditions are reported.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
A <ATAG> REPT EVT OC3  
  "<AID>:<CONDTYPE>,<CONDEFF>,<OCRDAT>,<OCRTM>,<LOCN>,,,,,  
[:\"<CONDDDESCR>\",,,,"  
;
```

The following autonomous response format is provided when OC3 transient conditions are reported.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
A <ATAG> REPT EVT OC3  
  "<AID>:<CONDTYPE>,,,<OCRDAT>,<OCRTM>,<LOCN>,,,<MONVAL>,<THLEV>,<TMPER>[:\"<CONDDDESCR>\",,,,\"<OBSDBHVR>\",,\"<EXPTDBHVR>\"] "  
;
```

OUTPUT PARAMETERS

ATAG	{0–99999}	
	Autonomous Message Tag, the system assigned tag number used to correlate autonomous messages.	
AID	OC3_AID: {OC3–{1–2240}}	(OC3–OC3#)
	OC3 AID, identifies the OC–3 port.	

CONDTYPE STANDING_NEAR-END_CONDTYPE:{ACTLPBK, AIS, DUPTARPENTRY, EBER, ESW, FRCDWKSWBK, FRCDWKSWPR, INHPMREPT, L2LCONFAIL, L2SCONFAIL, LDCCDLFL, LOCKOUTOFPR, LOF, LOS, MAN, MANWKSWBK, MANWKSWPR, SDBER, SDCCDLFL, WTR},
STANDING_FAR-END_CONDTYPE:{RFI},
TRANSIENT_NEAR-END_NON-TCA_CONDTYPE:{LDCCDM, LDCCFRMR, LDCCRESET, SDCCDM, SDCCFRMR, SDCCRESET, WKSWBK, WKSWPR}
TRANSIENT_NEAR-END_TCA_CONDTYPE:{T-CVS, T-ESA-S, T-ESB-S, T-ESS, T-LOSS, T-SEFS, T-SESS, T-AISS, T-CVL, T-ESA-L, T-ESB-L, T-ESL, T-FC-L, T-PSC-L, T-PSD-L, T-SESL, T-UASL},
TRANSIENT_FAR-END_TCA_CONDTYPE:{T-AISS, T-CVL, T-ESA-L, T-ESB-L, T-ESL, T-FC-L, T-SESL, T-UASL}

Condition Type, identifies the standing or transient condition type being reported. (Refer to Appendix C for a list of all standing and transient Non-TCA condition types and to Appendix F for a list of all monitored PM parameters for transient TCA condition types.)
Values are:

Values for STANDING CONDITION TYPES are:

ACTLPBK	Active Loopback, the OC3 port is in loop back.
DUPTARPENTRY	Duplicate TARP adjacency table.
AIS	Alarm Indication Signal, AIS detected.
EBER	Excessive Bit Error Rate detected.
ESW	Excessive Switching, lockout of automatic revertive (OC3) switching due to excessive switching.
FRCDWKSWBK	Forced Working Switched Back, working facility was manually force switched from protection to the main facility.
FRCDWKSWPR	Forced Working Switched to Protection, working facility was manually force switched to the protection facility.
INHPMREPT	Inhibit Performance Monitoring Report, PM report capability inhibited.
L2LCONFAIL	Layer 2 Line DCC Connection Failure.
L2SCONFAIL	Layer 2 Section DCC Connection Failure.
LDCCDLFL	Line DCC Data Link Failure.
LOCKOUTOFPR	LockOut Of Protection facility.
LOF	Loss Of Frame detected.
LOS	Loss Of Signal detected.
MAN	Manual removal (logical removal was performed on the facility).
MANWKSWBK	Manual Working Switched Back, working facility was manually switched back to the main facility.
MANWKSWPR	Manual Working Switched to Protection, working facility was manually switched to the protection facility.
RFI	Remote Failure Indication detected.
SDBER	Signal Degrade Bit Error Rate detected.
SDCCDLFL	Section DCC Data Link Failure
WTR	Wait To Restore of protection facility.

Values for TRANSIENT (Non Threshold Crossing Alert) CONDITION TYPES are:

LDCCDM	Line DCC DM Frame Received.
LDCCFRMR	Line DCC Frame Error Frame.
LDCCRESET	Line DCC SABME Frame received unexpectedly.
SDCCDM	Section DCC DM Frame received.
SDCCFRMR	Section DCC Frame Error Frame.
SDCCRESET	Section DCC SABME Frame received unexpectedly.

WKSWBK	Working Switched Back, working facility automatically switched from protection to the main facility.						
WKSWPR	Working Switched to Protection, working facility automatically switched to the protection facility.						
Values for TRANSIENT (Threshold Crossing Alert) CONDITION TYPES are:							
T-AISS	TCA-AIS Seconds – Line, indicates an AISS–L threshold crossing was detected.						
T-CVL	TCA–Coding Violations Line, indicates a CV–L threshold crossing was detected.						
T-CVS	TCA–Coding Violations Section, indicates a CV–S threshold crossing was detected.						
T-ESA–L	TCA–Errored Seconds type A – Line, indicates an ESA–L threshold crossing was detected.						
T-ESA–S	TCA–Errored Seconds Type A – Section, indicates an ESA–S threshold crossing was detected.						
T-ESB–L	TCA–Errored Seconds type B – Line, indicates an ESB–L threshold crossing was detected.						
T-ESB–S	TCA–Errored Seconds Type B – Section, indicates an ESB–S threshold crossing was detected.						
T-ESL	TCA–Errored Seconds Line, indicates an ES–L threshold crossing was detected.						
T-ESS	TCA–Errored Seconds Section, indicates an ES–S threshold crossing was detected.						
T-FC–L	TCA–Failure Count – Line, indicates a FC–L threshold crossing was detected.						
T-LOSS	TCA–Loss Of Signal Seconds – Section, indicates a LOSS–S threshold crossing was detected.						
T-PSC–L	TCA–Protection Switch Counts–Line, indicates a PSC–L threshold crossing was detected.						
T-PSD–L	TCA–Protection Switch Duration – Line, indicates a PSD–L threshold crossing was detected.						
T-SEFS	TCA–Severely Errored Frame Seconds – Section, indicates a SEFS–S threshold crossing was detected.						
T-SESL	TCA–Severely Errored Seconds Line, indicates a SES–L threshold crossing was detected.						
T-SESS	TCA–Severely Errored Seconds Section, indicates a SES–S threshold crossing was detected.						
T-UASL	TCA–Unavailable Seconds Line, indicates an UAS–L threshold crossing was detected.						
CONDEFF	<p>{CL, SC, TC}</p> <p>Condition Effect, identifies the effect of the standing condition being reported. A value for CONDEFF is only reported for a non–TCA condition. Values are:</p> <table> <tr> <td>CL</td><td>Cleared, a previously declared non–alarmed standing condition has cleared.</td></tr> <tr> <td>SC</td><td>Standing Condition, a non–alarmed standing condition has occurred.</td></tr> <tr> <td>TC</td><td>Transient Non–TCA Condition, a non–alarmed transient non–TCA condition has occurred.</td></tr> </table>	CL	Cleared, a previously declared non–alarmed standing condition has cleared.	SC	Standing Condition, a non–alarmed standing condition has occurred.	TC	Transient Non–TCA Condition, a non–alarmed transient non–TCA condition has occurred.
CL	Cleared, a previously declared non–alarmed standing condition has cleared.						
SC	Standing Condition, a non–alarmed standing condition has occurred.						
TC	Transient Non–TCA Condition, a non–alarmed transient non–TCA condition has occurred.						
OCRDAT	<p>{MONTH–DAY:{01–12} – {01–31} }</p> <p>Occurrence Date, identifies the date when the condition occurred. The format of OCRDAT is <MONTH_OF_YEAR> – <DAY_OF_MONTH>.</p>						
OCRTM	<p>{HOUR–MINUTE–SECOND:{00–23} – {00–59} – {00–59} }</p> <p>Occurrence Time, identifies the time when the condition occurred. The format of OCRTM is <HOUR_OF_DAY> – <MINUTE_OF_HOUR> –<SECOND_OF_MINUTE>.</p>						

LOCN	{FEND, NEND} Location, identifies the location where the condition type is monitored. Values are: FEND Far-End, events occurring at a distant network element. NEND Near-End, events occurring at the system.
MONVAL	{0-4294967295} Monitored Parameter Value, indicates the measured value in the PM register corresponding to the threshold crossing alert being reported. A value for MONVAL is only reported for a transient condition (threshold crossing alert).
THLEV	{0-4294967295} Threshold Level, indicates the threshold level for the monitored PM parameter corresponding to the threshold crossing alert being reported. A value for THLEV is only reported for a transient condition (threshold crossing alert).
TMPER	{15-MIN, 1-DAY} Time Period, identifies the accumulation time period for the monitored PM parameter corresponding to the threshold crossing alert being reported. A value for TMPER is only reported for a transient condition (threshold crossing alert). Values are: 15-MIN 15-Minute PM collection period. 1-DAY 1-Day (24 hours) PM collection period.
CONDDESCR	< 1-64 alpha-numeric characters > Condition Description, an optional, non-parsable, text description of the condition, enclosed within escape-quotes (\ " ... \").
OBSDBHVR	<1-512 alpha-numeric characters> Observed Behaviour, indicates the new synchronization status message, and is only displayed if condition type is SSMC.
EXPTDBHVR	<1-512 alpha-numeric characters> Expected Behavior, indicates the old synchronization status message, and is only displayed if condition type is SSMC.

EXAMPLES

The following example shows the autonomous message generated by the system to report a non-alarmed standing condition on OC3 port OC3-113.

The autonomous response, shown below, assumes a system generated ATAG value of 2468. The response header would contain the provisioned Site ID of the system, and the date and time the autonomous response was generated.

```

<SID> <YY-MM-DD> <HH:MM:SS>
A 2468 REPT EVT OC3
  "OC3-113:INHMPREPT,SC,07-01,07-05-10,NEND,,,"
;

```

The following example shows the autonomous message generated by the system to report a severely errored seconds, line transient condition (threshold crossing alert) on OC3 port OC3-122.

The autonomous response, shown below, assumes a system generated ATAG value of 2469. The response header would contain the provisioned Site ID of the system, and the date and time the autonomous response was generated.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
A 2469 REPT EVT OC3  
  "OC3-122:T-SESL,,07-01,07-25-38,NEND,,56,44,15-MIN"  
;
```

RELATED COMMANDS

ED-PRVG-USER
ENT-USER
INIT-REG-OC3
RTRV-ALM-ALL
RTRV-ALM-OC3
RTRV-ATTR-OC3
RTRV-COND-ALL
RTRV-COND-OC3
RTRV-DFLTATTR-OC3
RTRV-DFLTTH-OC3
RTRV-PM-OC3
RTRV-PMATTR-ALL
RTRV-PMODE-OC3
RTRV-TH-OC3
SET-ATTR-OC3
SET-DFLTATTR-OC3
SET-DFLTTH-OC3
SET-PMATTR-ALL
SET-PMODE-OC3
SET-TH-OC3

RELATED AUTONOMOUS RESPONSES

REPT^ALM^OC3

RESPONSE CODE: **REPT^EVT^OC12**
RESPONSE NAME: **REPORT EVENT OC-12**

PURPOSE

The REPT^EVT^OC12 autonomous response is generated by the system:

- to report the occurrence of one or more non–alarmed standing condition(s) (an event occurred which caused a condition with a notification code of not–alarmed to be set by the system) for the indicated OC–12 port(s),
- to report the clearing of one or more previously reported non–alarmed standing condition(s) for the indicated OC–12 port(s),
- to report a transient nonthreshold crossing alert (Non–TCA) condition for the indicated OC–12 port,
- or to report a transient threshold crossing alert (PM TCA) condition for the indicated OC–12 port.

RESPONSE FORMAT

The following autonomous response format is provided when OC–12 standing conditions are reported.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
A <ATAG> REPT EVT OC12  
  "<AID>:<CONDTYPE>,<CONDEFF>,<OCRDAT>,<OCRTM>,<LOCN>,,,,  
[:\"<CONDDDESCR>\" , , , "  
;
```

The following autonomous response format is provided when OC–12 transient conditions are reported.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
A <ATAG> REPT EVT OC12  
  "<AID>:<CONDTYPE> , , <OCRDAT>,<OCRTM>,<LOCN> , , <MONVAL> ,  
<THLEV>,<TMPPER> [ : \"<CONDDDESCR>\" , , \"<OBSDBHVR>\" , \"<EXPTDBHVR>\" ] "  
;
```

OUTPUT PARAMETERS

ATAG	{0–99999} Autonomous Message Tag, the system–assigned tag number used to correlate autonomous messages.
AID	OC12_AID: {OC12–{1–560}} OC12 AID, identifies the OC–12 port. (OC12–OC12#)

CONDTYPE STANDING_NEAR-END_CONDTYPE:{ACTLPBK, AIS, DUPTARPENTRY, EBER, ESW, FRCDWKSWBK, FRCDWKSWPR, INHPMREPT, L2LCONFAIL, L2SCONFAIL, LDCCDLFL, LOCKOUTOFPR, LOF, LOS, MAN, MANWKSWBK, MANWKSWPR, SDBER, SDCCDLFL, WTR},
STANDING_FAR-END_CONDTYPE:{RFI},
TRANSIENT_NEAR-END_NON-TCA_CONDTYPE:{LDCCDM, LDCCFRMR, LDCCRESET, SDCCDM, SDCCFRMR, SDCCRESET, WKSWBK, WKSWPR}
TRANSIENT_NEAR-END_TCA_CONDTYPE:{T-CVS, T-ESA-S, T-ESB-S, T-ESS, T-LOSS, T-SEFS, T-SESS, T-AISS, T-CVL, T-ESA-L, T-ESB-L, T-ESL, T-FC-L, T-PSC-L, T-PSD-L, T-SESL, T-UASL},
TRANSIENT_FAR-END_TCA_CONDTYPE:{T-AISS, T-CVL, T-ESA-L, T-ESB-L, T-ESL, T-FC-L, T-SESL, T-UASL}

Condition Type, identifies the standing or transient condition type being reported. (Refer to Appendix C for a list of all standing and transient Non-TCA condition types and to Appendix F for a list of all monitored PM parameters for transient TCA condition types.)
Values are:

Values for STANDING CONDITION TYPES are:

ACTLPBK	Active Loopback, the OC-12 port is in loopback.
DUPTARPENTRY	Duplicate TARP adjacency table.
AIS	Alarm Indication Signal, AIS detected.
EBER	Excessive Bit Error Rate detected.
ESW	Excessive Switching, lockout of automatic revertive (OC12) switching due to excessive switching.
FRCDWKSWBK	Forced Working Switched Back, working facility was manually force switched from protection to the main facility.
FRCDWKSWPR	Forced Working Switched to Protection, working facility was manually force switched to the protection facility.
INHPMREPT	Inhibit Performance Monitoring Report, PM report capability inhibited.
L2LCONFAIL	Layer 2 Line DCC Connection Failure.
L2SCONFAIL	Layer 2 Section DCC Connection Failure.
LDCCDLFL	Line DCC Data Link Failure.
LOCKOUTOFPR	LockOut Of Protection facility.
LOF	Loss Of Frame detected.
LOS	Loss Of Signal detected.
MAN	Manual removal (logical removal was performed on the facility).
MANWKSWBK	Manual Working Switched Back, working facility was manually switched back to the main facility.
MANWKSWPR	Manual Working Switched to Protection, working facility was manually switched to the protection facility.
RFI	Remote Failure Indication detected.
SDBER	Signal Degrade Bit Error Rate detected.
SDCCDLFL	Section DCC Data Link Failure
WTR	Wait To Restore of protection facility.

Values for TRANSIENT (Non Threshold Crossing Alert) CONDITION TYPES are:

LDCCDM	Line DCC DM Frame Received.
LDCCFRMR	Line DCC Frame Error Frame.
LDCCRESET	Line DCC SABME Frame received unexpectedly.
SDCCDM	Section DCC DM Frame received.
SDCCFRMR	Section DCC Frame Error Frame.
SDCCRESET	Section DCC SABME Frame received unexpectedly.

WKSWBK	Working Switched Back, working facility automatically switched from protection to the main facility.						
WKSWPR	Working Switched to Protection, working facility automatically switched to the protection facility.						
Values for TRANSIENT (Threshold Crossing Alert) CONDITION TYPES are:							
T-AISS	TCA-AIS Seconds – Line, indicates an AISS–L threshold crossing was detected.						
T-CVL	TCA–Coding Violations Line, indicates a CV–L threshold crossing was detected.						
T-CVS	TCA–Coding Violations Section, indicates a CV–S threshold crossing was detected.						
T-ESA–L	TCA–Errored Seconds type A – Line, indicates an ESA–L threshold crossing was detected.						
T-ESA–S	TCA–Errored Seconds Type A – Section, indicates an ESA–S threshold crossing was detected.						
T-ESB–L	TCA–Errored Seconds type B – Line, indicates an ESB–L threshold crossing was detected.						
T-ESB–S	TCA–Errored Seconds Type B – Section, indicates an ESB–S threshold crossing was detected.						
T-ESL	TCA–Errored Seconds Line, indicates an ES–L threshold crossing was detected.						
T-ESS	TCA–Errored Seconds Section, indicates an ES–S threshold crossing was detected.						
T-FC–L	TCA–Failure Count – Line, indicates a FC–L threshold crossing was detected.						
T-LOSS	TCA–Loss Of Signal Seconds – Section, indicates a LOSS–S threshold crossing was detected.						
T-PSC–L	TCA–Protection Switch Counts–Line, indicates a PSC–L threshold crossing was detected.						
T-PSD–L	TCA–Protection Switch Duration – Line, indicates a PSD–L threshold crossing was detected.						
T-SEFS	TCA–Severely Errored Frame Seconds – Section, indicates a SEFS–S threshold crossing was detected.						
T-SESL	TCA–Severely Errored Seconds Line, indicates a SES–L threshold crossing was detected.						
T-SESS	TCA–Severely Errored Seconds Section, indicates a SES–S threshold crossing was detected.						
T-UASL	TCA–Unavailable Seconds Line, indicates an UAS–L threshold crossing was detected.						
CONDEFF	<p>{CL, SC, TC}</p> <p>Condition Effect, identifies the effect of the standing condition being reported. A value for CONDEFF is only reported for a non–TCA condition. Values are:</p> <table> <tr> <td>CL</td><td>Cleared, a previously declared non–alarmed standing condition has cleared.</td></tr> <tr> <td>SC</td><td>Standing Condition, a non–alarmed standing condition has occurred.</td></tr> <tr> <td>TC</td><td>Transient Non–TCA Condition, a non–alarmed transient non–TCA condition has occurred.</td></tr> </table>	CL	Cleared, a previously declared non–alarmed standing condition has cleared.	SC	Standing Condition, a non–alarmed standing condition has occurred.	TC	Transient Non–TCA Condition, a non–alarmed transient non–TCA condition has occurred.
CL	Cleared, a previously declared non–alarmed standing condition has cleared.						
SC	Standing Condition, a non–alarmed standing condition has occurred.						
TC	Transient Non–TCA Condition, a non–alarmed transient non–TCA condition has occurred.						
OCRDAT	<p>{MONTH–DAY:{01–12} – {01–31} }</p> <p>Occurrence Date, identifies the date when the condition occurred. The format of OCRDAT is <MONTH_OF_YEAR> – <DAY_OF_MONTH>.</p>						
OCRTM	<p>{HOUR–MINUTE–SECOND:{00–23} – {00–59} – {00–59} }</p> <p>Occurrence Time, identifies the time when the condition occurred. The format of OCRTM is <HOUR_OF_DAY> – <MINUTE_OF_HOUR> –<SECOND_OF_MINUTE>.</p>						

LOCN	{FEND, NEND} Location, identifies the location where the condition type is monitored. Values are: FEND Far-End, events occurring at a distant network element. NEND Near-End, events occurring at the system.
MONVAL	{0-4294967295} Monitored Parameter Value, indicates the measured value in the PM register corresponding to the threshold crossing alert being reported. A value for MONVAL is only reported for a transient condition (threshold crossing alert).
THLEV	{0-4294967295} Threshold Level, indicates the threshold level for the monitored PM parameter corresponding to the threshold crossing alert being reported. A value for THLEV is only reported for a transient condition (threshold crossing alert).
TMPER	{15-MIN, 1-DAY} Time Period, identifies the accumulation time period for the monitored PM parameter corresponding to the threshold crossing alert being reported. A value for TMPER is only reported for a transient condition (threshold crossing alert). Values are: 15-MIN 15-Minute PM collection period. 1-DAY 1-Day (24 hours) PM collection period.
CONDDESCR	< 1-64 alpha-numeric characters > Condition Description, an optional, non-parsable, text description of the condition, enclosed within escape-quotes (\ " ... \").
OBSDBHVR	<1-512 alpha-numeric characters> Observed Behavior, indicates the new synchronization status message, and is only displayed if condition type is SSMC.
EXPTDBHVR	<1-512 alpha-numeric characters> Expected Behavior, indicates the old synchronization status message, and is only displayed if condition type is SSMC.

EXAMPLES

The following example shows the autonomous message generated by the system to report a non-alarmed standing condition on OC-12 port OC12-113.

The autonomous response, shown below, assumes a system generated ATAG value of 2468. The response header would contain the provisioned Site ID of the system, and the date and time the autonomous response was generated.

```

<SID> <YY-MM-DD> <HH:MM:SS>
A 2468 REPT EVT OC12
  "OC12-113:INHMPREPT,SC,07-01,07-05-10,NEND,,,"
;
```


The following example shows the autonomous message generated by the system to report a severely errored seconds, line transient condition (threshold crossing alert) on OC-12 port OC12-122.

The autonomous response, shown below, assumes a system generated ATAG value of 2469. The response header would contain the provisioned Site ID of the system, and the date and time the autonomous response was generated.

```
<SID> <YY-MM-DD> <HH:MM:SS>
A 2469 REPT EVT OC12
  "OC12-122:T-SESL,,07-01,07-25-38,NEND,,56,44,15-MIN"
;
```

RELATED COMMANDS

ED-PRVG-USER
ENT-USER
INIT-REG-OC12
RTRV-ALM-ALL
RTRV-ALM-OC12
RTRV-ATTR-OC12
RTRV-COND-ALL
RTRV-COND-OC12
RTRV-DFLTATTR-OC12
RTRV-DFLTTH-OC12
RTRV-PM-OC12
RTRV-PMATTR-ALL
RTRV-PMODE-OC12
RTRV-TH-OC12
SET-ATTR-OC12
SET-DFLTATTR-OC12
SET-DFLTTH-OC12
SET-PMATTR-ALL
SET-PMODE-OC12
SET-TH-OC12

RELATED AUTONOMOUS RESPONSES

REPT^ALM^OC12

RESPONSE CODE: **REPT^EVT^SESSION**
RESPONSE NAME: **REPORT EVENT SESSION**

PURPOSE

The REPT^EVT^SESSION autonomous response provides the provisioned user–logon warning message (refer to the SET–WARN–MSG command) to a user when the user logs–on to the system via an ACT–USER command.

The REPT^EVT^SESSION autonomous response is always sent to the user that executes the ACT–USER command. No mechanism is available to prevent the system from generating the response message.

The REPT^EVT^SESSION autonomous response is only returned to the user that executes the ACT–USER command. Other users do not receive the REPT^EVT^SESSION autonomous response, regardless of their OSL provisioning (e.g., regardless if they’re provisioned to receive the output responses sent to other users; refer to the ENT–USER and ED–PRVG–USER commands).

The REPT^EVT^SESSION autonomous response will contain an additional message that prompts the user to change the password identifier (PID) if the password has expired due to password aging (i.e. the PIDEXP parameter value is YES).

RESPONSE FORMAT

```
      <SID> <YY-MM-DD> <HH:MM:SS>
A  <ATAG> REPT EVT SESSION
    "<SID>:<PIDEXP>"
    [/* Password will be deactivated if not changed before logging-off */]
    /* <WARN> */
;
```

OUTPUT PARAMETERS

ATAG	{0–99999} Autonomous Message Tag, the system assigned tag number used to correlate autonomous messages.				
SID	< 1–20 Valid Site Identification Characters > Site Identifier. (Refer to the SET–SID command.)				
PIDEXP	{NO,YES} Password Identification (PID) Expiration, indicates whether a new user PID is required because of password aging. Values are: <table><tr><td>NO</td><td>The user password identifier does not require updating. (i.e. the PID has not expired)</td></tr><tr><td>YES</td><td>The system prompts the user to change the password identifier in the output response because the password has expired. The system will deactivate the user password identifier if it is not changed (via the ED–PID command) before the user exits the current session.</td></tr></table>	NO	The user password identifier does not require updating. (i.e. the PID has not expired)	YES	The system prompts the user to change the password identifier in the output response because the password has expired. The system will deactivate the user password identifier if it is not changed (via the ED–PID command) before the user exits the current session.
NO	The user password identifier does not require updating. (i.e. the PID has not expired)				
YES	The system prompts the user to change the password identifier in the output response because the password has expired. The system will deactivate the user password identifier if it is not changed (via the ED–PID command) before the user exits the current session.				
WARN	< 0–20 lines of up to 70 alpha–numeric characters per line > Warning Message, the provisioned user–logon warning message. A separate line of non–parsable text is provided for each line of the warning message provisioned by the SET–WARN–MSG command.				

EXAMPLES

The following example shows the successful response and the autonomous REPT^EVT^SESSION message generated by the system as a result of a user log–in via the ACT–USER command.

```
ACT-USER: :CUSTOMER1: :*****;
```

The output responses, shown below, assumes CID 3 was used to enter the command, a system generated CTAG value of P71049, and a system generated ATAG value of 2468. The response headers would contain the provisioned Site ID of the system, and the date and time the command was executed.

```

<SID> <YY-MM-DD> <HH:MM:SS>
M P71049 COMPLD
/* ACT-USER CUSTOMER1 on CID 3 */
/* 1631SX,LMC-APS,R06.00.00 */
/* (c) Copyright 1995 Alcatel Network Systems */
"CUSTOMER1:95-06-22,15-14-24,0,1631SX,LMC-APS,R06.00.00"
/* ACT-USER::CUSTOMER1::***** [P71049] (2) */
;

<SID> <YY-MM-DD> <HH:MM:SS>
A 2468 REPT EVT SESSION
"<SID>:NO"
/* LEGAL ACCESS PERMITTED TO AUTHORIZED USERS ONLY */
/* UNAUTHORIZED ACCESS WILL BE PROSECUTED */
;
```

RELATED COMMANDS

```

ACT-USER
SET-WARN-MSG
```

RESPONSE CODE: **REPT^EVT^STS1**
RESPONSE NAME: **REPORT EVENT STS1**

PURPOSE

The REPT^EVT^STS1 autonomous response is generated by the system

- to report the occurrence of one or more non–alarmed standing condition(s) (an event occurred which caused a condition with a notification code of not–alarmed to be set by the system) for the indicated STS–1 port(s),
- to report the clearing of one or more previously reported non–alarmed standing condition(s) for the indicated STS–1 port(s),
- to report a transient *non* threshold crossing alert (Non–TCA) condition for the indicated STS–1 port,
- or to report a transient threshold crossing alert (PM TCA) condition for the indicated STS–1 port.

RESPONSE FORMAT

The following autonomous response format is provided when STS–1 standing conditions are reported.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
A <ATAG> REPT EVT STS1  
  "<AID>:<CONDTYPE>,<CONDEFF>,<OCRDAT>,<OCRTM>,<LOCN>,[<DIRN>],,,  
  [:\"<CONDDDESCR>\",,,]\"  
;
```

The following autonomous response format is provided when STS–1 transient conditions are reported.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
A <ATAG> REPT EVT STS1  
  "<AID>:<CONDTYPE>,,<OCRDAT>,<OCRTM>,<LOCN>,,<MONVAL>,<THLEV>,<TMPPER>[:\"<CONDDDESCR>\",,,]\"  
;
```

OUTPUT PARAMETERS

ATAG	{0–99999}	
	Autonomous Message Tag, the system assigned tag number used to correlate autonomous messages.	
AID	STS1_AID:	
	{EC1STS1–{1–3840}}	(EC1STS1–EC1/STS1#)
	{OC3STS1–{1–2240}–{1–3}}	(OC3STS1–OC3#–STS1#)
	{OC12STS1–{1–560}–{1–4}–{1–3}}	(OC12STS1–OC12#–STM1#–STS1#)
	STS1 AID, identifies the STS–1 port.	

CONDTYPE STANDING_NEAR-END_CONDTYPE:{ACTLPBK, AIS, EBER, FLTESC, FRCDWKSWBK, FRCDWKSWPR, IDLE, INHPMREPT, LOP, MAN, MANWKSWBK, MANWKSWPR, PDI, SDBER, SLMF},
STANDING_FAR-END_CONDTYPE:{RFI},
TRANSIENT_NEAR-END_NON-TCA_CONDTYPE:{WKSWBK, WKSWPR}
TRANSIENT_NEAR-END_TCA_CONDTYPE:{T-ALS-P, T-CVP, T-ESA-P, T-ESB-P, T-ESP, T-FC-P, T-SESP, T-UASP},
TRANSIENT_FAR-END_TCA_CONDTYPE:{T-ALS-P, T-CVP, T-ESA-P, T-ESB-P, T-ESP, T-FC-P, T-SESP, T-UASP}

Condition Type, identifies the standing or transient condition type being reported. (Refer to Appendix C for a list of all standing and transient Non-TCA condition types and to Appendix F for a list of all monitored PM parameters for transient TCA condition types.)
Values are:

Values for STANDING CONDITION TYPES are:

ACTLPBK	Active Loopback, the STS-1 port is in loop back.
AIS	Alarm Indication Signal, AIS detected.
EBER	Excessive Bit Error Rate detected.
FLTESC	Facility Fault Escalation active.
FRCDWKSWBK	Forced Working Switched Back, working facility was manually force switched from protection to the main facility.
FRCDWKSWPR	Forced Working Switched to Protection, working facility was manually force switched to the protection facility.
IDLE	Idle, incoming idle detected.
INHPMREPT	Inhibit Performance Monitoring Report, PM report capability Inhibited.
LOP	Loss Of Pointer detected.
MAN	Manual removal (logical removal was performed on the facility).
MANWKSWBK	Manual Working Switched Back, working facility was manually switched from protection to the main facility.
MANWKSWPR	Manual Working Switched to Protection, working facility was manually switched to the protection facility.
PDI	Incoming PDI signal detected.
RFI	Remote Failure Indication detected.
SDBER	Signal Degrade Bit Error Rate detected.
SLMF	Signal Label Match Failure detected.

Values for TRANSIENT (Non Threshold Crossing Alert) CONDITION TYPES are:

WKSWBK	Working Switched Back, working facility automatically switched from protection to the main facility.
WKSWPR	Working Switched to Protection, working facility automatically switched to the protection facility.

Values for TRANSIENT (Threshold Crossing Alert) CONDITION TYPES are:

T-ALS-P	TCA-Alarm Indication Signal/Loss of Pointer Seconds-Path, indicates an ALS-P threshold crossing was detected.
T-CVP	TCA-Coding Violations Path, indicates a CV-P threshold crossing was detected.
T-ESA-P	TCA-Errored Seconds Type A - Path, indicates an ESA-P threshold crossing was detected.
T-ESB-P	TCA-Errored Seconds Type B - Path, indicates an ESB-P threshold crossing was detected.
T-ESP	TCA-Errored Seconds Path, indicates an ES-P threshold crossing was detected.

	T-FC-P	TCA-Failure Count – Path, indicates a FC-P threshold crossing was detected.
	T-SESP	TCA-Severely Errored Seconds Path, indicates a SES-P threshold crossing was detected.
	T-UASP	TCA-Unavailable Seconds Path, indicates an UAS-P threshold crossing was detected.
CONDEFF	{CL, SC}	Condition Effect, identifies the effect of the standing condition being reported. A value for CONDEFF is only reported for a standing condition. Values are: CL Cleared, a previously declared non-alarmed standing condition has cleared. SC Standing Condition, a non-alarmed standing condition has occurred.
OCRDAT	{MONTH-DAY:{01-12} – {01-31} }	Occurrence Date, identifies the date when the condition occurred. The format of OCRDAT is <MONTH_OF_YEAR> – <DAY_OF_MONTH>.
OCRTM	{HOUR-MINUTE-SECOND:{00-23} – {00-59} – {00-59} }	Occurrence Time, identifies the time when the condition occurred. The format of OCRTM is <HOUR_OF_DAY> – <MINUTE_OF_HOUR> –<SECOND_OF_MINUTE>.
LOCN	{FEND, NEND}	Location, identifies the location where the condition type is monitored. Values are: FEND Far-End, events occurring at a distant network element. NEND Near-End, events occurring at the system.
DIRN	{TRMT, <NoVal>}	Direction, identifies the direction of the condition type being monitored. Values are: TRMT Transmit Direction, value returned for CONDTYPE of FLTESC. <NoVal> No Value (null) returned for all conditions other than FLTESC.
MONVAL	{0-4294967295}	Monitored Parameter Value, indicates the measured value in the PM register corresponding to the threshold crossing alert being reported. A value for MONVAL is only reported for a transient condition (threshold crossing alert).
THLEV	{0-4294967295}	Threshold Level, indicates the threshold level for the monitored PM parameter corresponding to the threshold crossing alert being reported. A value for THLEV is only reported for a transient condition (threshold crossing alert).
TMPER	{15-MIN, 1-DAY}	Time Period, identifies the accumulation time period for the monitored PM parameter corresponding to the threshold crossing alert being reported. A value for TMPER is only reported for a transient condition (threshold crossing alert). Values are: 15-MIN 15-Minute PM collection period. 1-DAY 1-Day (24 hours) PM collection period.
CONDDESCR	< 1-64 alpha-numeric characters >	Condition Description, an optional, non-parsable, text description of the condition, enclosed within escape-quotes (\“ ... \”).

EXAMPLES

The following example shows the autonomous message generated by the system to report a non-alarmed standing condition on STS-1 port EC1STS1-200.

The autonomous response, shown below, assumes a system generated ATAG value of 2468. The response header would contain the provisioned Site ID of the system, and the date and time the autonomous response was generated.

```
<SID> <YY-MM-DD> <HH:MM:SS>
A 2468 REPT EVT STS1
  "EC1STS1-200:INHMPREPT,SC,07-01,07-05-10,NEND,,,"
;
```

The following example shows the autonomous message generated by the system to report a severely errored seconds, path transient condition (threshold crossing alert) on STS-1 port EC1STS1-252.

The autonomous response, shown below, assumes a system generated ATAG value of 2469. The response header would contain the provisioned Site ID of the system, and the date and time the autonomous response was generated.

```
<SID> <YY-MM-DD> <HH:MM:SS>
A 2469 REPT EVT STS1
  "EC1STS1-252:T-SESP,,07-01,07-25-38,NEND,,56,44,15-MIN"
;
```

RELATED COMMANDS

```
ED-PRVG-USER
ENT-USER
INIT-REG-STs1
RTRV-ALM-ALL
RTRV-ALM-STs1
RTRV-ATTR-STs1
RTRV-COND-ALL
RTRV-COND-STs1
RTRV-DFLTATTR-STs1
RTRV-DFLTTH-STs1
RTRV-PM-STs1
RTRV-PMATTR-ALL
RTRV-PMODE-STs1
RTRV-TH-STs1
SET-ATTR-STs1
SET-DFLTATTR-STs1
SET-DFLTTH-STs1
SET-PMATTR-ALL
SET-PMODE-STs1
SET-TH-STs1
```

RELATED AUTONOMOUS RESPONSES

```
REPT^ALM^STs1
```


RESPONSE CODE: **REPT^EVT^STS3C**
COMMAND NAME: **REPORT EVENT STS3C**

PURPOSE

The REPT^EVT^STS3C autonomous response is generated by the system

- to report the occurrence of one or more non–alarmed standing condition(s) (an event occurred which caused a condition with a notification code of not–alarmed to be set by the system) for the indicated STS–3C port(s),
- to report the clearing of one or more previously reported non–alarmed standing condition(s) for the indicated STS–3C port(s),
- or to report a transient threshold crossing alert (PM TCA) condition for the indicated STS–3C port.

RESPONSE FORMAT

The following autonomous response format is provided when STS–3C standing conditions are reported.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
A <ATAG> REPT EVT STS3C  
  "<AID>:<CONDTYPE>,<CONDEFF>,<OCRDAT>,<OCRTM>,<LOCN>,,,,  
[:\"<CONDDDESCR>\" , , , ] "  
;
```

The following autonomous response format is provided when STS–3C transient conditions are reported.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
A <ATAG> REPT EVT STS3C  
  "<AID>:<CONDTYPE> , , <OCRDAT>,<OCRTM>,<LOCN> , , <MONVAL> ,  
<THLEV>,<TMPPER> [ : \"<CONDDDESCR>\" , , , ] "  
;
```

OUTPUT PARAMETERS

ATAG	{0–99999}	
	Autonomous Message Tag, the system assigned tag number used to correlate autonomous messages.	
AID	STS3C_AID:	
	{OC3STS3C–{1–2240}}	(OC3STS3C–OC3#/STS3C#)
	{OC12STS3C–{1–560}–{1–4}}	(OC12STS3C–OC12#–STM1/STS3C#)
	STS3C AID, identifies the STS–3C port.	

CONDTYPE	<p>STANDING_NEAR-END_CONDTYPE:{ACTLPBK, AIS, IDLE, INHPMREPT, LOP, MAN, SLMF}, STANDING_FAR-END_CONDTYPE:{RFI}, TRANSIENT_NEAR-END_TCA_CONDTYPE:{T-ALS-P, T-CVP, T-ESA-P, T-ESB-P, T-ESP, T-FC-P, T-SESP, T-UASP}, TRANSIENT_FAR-END_TCA_CONDTYPE:{T-ALS-P, T-CVP, T-ESA-P, T-ESB-P, T-ESP, T-FC-P, T-SESP, T-UASP}</p> <p>Condition Type, identifies the standing or transient condition type being reported. (Refer to Appendix C for a list of all standing condition types and to Appendix F for a list of all monitored PM parameters for transient TCA condition types.) Values are:</p> <p>Values for STANDING CONDITION TYPES are:</p> <table> <tr><td>ACTLPBK</td><td>Active Loopback, the STS-3C port is in loop back.</td></tr> <tr><td>AIS</td><td>Alarm Indication Signal, AIS detected.</td></tr> <tr><td>IDLE</td><td>Idle, incoming idle detected.</td></tr> <tr><td>INHPMREPT</td><td>Inhibit Performance Monitoring Report, PM report capability Inhibited.</td></tr> <tr><td>LOP</td><td>Loss Of Pointer detected.</td></tr> <tr><td>MAN</td><td>Manual removal (logical removal was performed on the facility).</td></tr> <tr><td>RFI</td><td>Remote Failure Indication detected.</td></tr> <tr><td>SLMF</td><td>Signal Label Match Failure detected.</td></tr> </table> <p>Values for TRANSIENT (Threshold Crossing Alert) CONDITION TYPES are:</p> <table> <tr><td>T-ALS-P</td><td>TCA-Alarm Indication Signal/Loss of Pointer Seconds- Path, indicates an ALS-P threshold crossing was detected.</td></tr> <tr><td>T-CVP</td><td>TCA-Coding Violations Path, indicates a CV-P threshold crossing was detected.</td></tr> <tr><td>T-ESA-P</td><td>TCA-Errored Seconds Type A - Path, indicates an ESA-P threshold crossing was detected.</td></tr> <tr><td>T-ESB-P</td><td>TCA-Errored Seconds Type B - Path, indicates an ESB-P threshold crossing was detected.</td></tr> <tr><td>T-ESP</td><td>TCA-Errored Seconds Path, indicates an ES-P threshold crossing was detected.</td></tr> <tr><td>T-FC-P</td><td>TCA-Failure Count - Path, indicates a FC-P threshold crossing was detected.</td></tr> <tr><td>T-SESP</td><td>TCA-Severely Errored Seconds Path, indicates a SES-P threshold crossing was detected.</td></tr> <tr><td>T-UASP</td><td>TCA-Unavailable Seconds Path, indicates an UAS-P threshold crossing was detected.</td></tr> </table>	ACTLPBK	Active Loopback, the STS-3C port is in loop back.	AIS	Alarm Indication Signal, AIS detected.	IDLE	Idle, incoming idle detected.	INHPMREPT	Inhibit Performance Monitoring Report, PM report capability Inhibited.	LOP	Loss Of Pointer detected.	MAN	Manual removal (logical removal was performed on the facility).	RFI	Remote Failure Indication detected.	SLMF	Signal Label Match Failure detected.	T-ALS-P	TCA-Alarm Indication Signal/Loss of Pointer Seconds- Path, indicates an ALS-P threshold crossing was detected.	T-CVP	TCA-Coding Violations Path, indicates a CV-P threshold crossing was detected.	T-ESA-P	TCA-Errored Seconds Type A - Path, indicates an ESA-P threshold crossing was detected.	T-ESB-P	TCA-Errored Seconds Type B - Path, indicates an ESB-P threshold crossing was detected.	T-ESP	TCA-Errored Seconds Path, indicates an ES-P threshold crossing was detected.	T-FC-P	TCA-Failure Count - Path, indicates a FC-P threshold crossing was detected.	T-SESP	TCA-Severely Errored Seconds Path, indicates a SES-P threshold crossing was detected.	T-UASP	TCA-Unavailable Seconds Path, indicates an UAS-P threshold crossing was detected.
ACTLPBK	Active Loopback, the STS-3C port is in loop back.																																
AIS	Alarm Indication Signal, AIS detected.																																
IDLE	Idle, incoming idle detected.																																
INHPMREPT	Inhibit Performance Monitoring Report, PM report capability Inhibited.																																
LOP	Loss Of Pointer detected.																																
MAN	Manual removal (logical removal was performed on the facility).																																
RFI	Remote Failure Indication detected.																																
SLMF	Signal Label Match Failure detected.																																
T-ALS-P	TCA-Alarm Indication Signal/Loss of Pointer Seconds- Path, indicates an ALS-P threshold crossing was detected.																																
T-CVP	TCA-Coding Violations Path, indicates a CV-P threshold crossing was detected.																																
T-ESA-P	TCA-Errored Seconds Type A - Path, indicates an ESA-P threshold crossing was detected.																																
T-ESB-P	TCA-Errored Seconds Type B - Path, indicates an ESB-P threshold crossing was detected.																																
T-ESP	TCA-Errored Seconds Path, indicates an ES-P threshold crossing was detected.																																
T-FC-P	TCA-Failure Count - Path, indicates a FC-P threshold crossing was detected.																																
T-SESP	TCA-Severely Errored Seconds Path, indicates a SES-P threshold crossing was detected.																																
T-UASP	TCA-Unavailable Seconds Path, indicates an UAS-P threshold crossing was detected.																																
CONDEFF	<p>{CL, SC}</p> <p>Condition Effect, identifies the effect of the standing condition being reported. A value for CONDEFF is only reported for a standing condition. Values are:</p> <table> <tr><td>CL</td><td>Cleared, a previously declared non-alarmed standing condition has cleared.</td></tr> <tr><td>SC</td><td>Standing Condition, a non-alarmed standing condition has occurred.</td></tr> </table>	CL	Cleared, a previously declared non-alarmed standing condition has cleared.	SC	Standing Condition, a non-alarmed standing condition has occurred.																												
CL	Cleared, a previously declared non-alarmed standing condition has cleared.																																
SC	Standing Condition, a non-alarmed standing condition has occurred.																																
OCRDAT	<p>{MONTH-DAY:{01-12} - {01-31} }</p> <p>Occurrence Date, identifies the date when the condition occurred. The format of OCRDAT is <MONTH_OF_YEAR> - <DAY_OF_MONTH>.</p>																																
OCRTM	<p>{HOUR-MINUTE-SECOND:{00-23} - {00-59} - {00-59} }</p> <p>Occurrence Time, identifies the time when the condition occurred. The format of OCRTM is <HOUR_OF_DAY> - <MINUTE_OF_HOUR> -<SECOND_OF_MINUTE>.</p>																																

LOCN	{FEND, NEND} Location, identifies the location where the condition type is monitored. Values are: FEND Far-End, events occurring at a distant network element. NEND Near-End, events occurring at the system.
MONVAL	{0-4294967295} Monitored Parameter Value, indicates the measured value in the PM register corresponding to the threshold crossing alert being reported. A value for MONVAL is only reported for a transient condition (threshold crossing alert).
THLEV	{0-4294967295} Threshold Level, indicates the threshold level for the monitored PM parameter corresponding to the threshold crossing alert being reported. A value for THLEV is only reported for a transient condition (threshold crossing alert).
TMPER	{15-MIN, 1-DAY} Time Period, identifies the accumulation time period for the monitored PM parameter corresponding to the threshold crossing alert being reported. A value for TMPER is only reported for a transient condition (threshold crossing alert). Values are: 15-MIN 15-Minute PM collection period. 1-DAY 1-Day (24 hours) PM collection period.
CONDDESCR	< 1-64 alpha-numeric characters > Condition Description, an optional, non-parsable, text description of the condition, enclosed within escape-quotes (\ " ... \").

EXAMPLES

The following example shows the autonomous message generated by the system to report a non-alarmed standing condition on STS-3C port OC3STS3C-8.

The autonomous response, shown below, assumes a system generated ATAG value of 2468. The response header would contain the provisioned Site ID of the system, and the date and time the autonomous response was generated.

```
<SID> <YY-MM-DD> <HH:MM:SS>
A 2468 REPT EVT STS3C
  "OC3STS3C-8:INHMPREPT,SC,07-01,07-05-10,NEND,,,"
;
```

The following example shows the autonomous message generated by the system to report a severely errored seconds, path transient condition (threshold crossing alert) on STS-3C port OC3STS3C-12.

The autonomous response, shown below, assumes a system generated ATAG value of 2469. The response header would contain the provisioned Site ID of the system, and the date and time the autonomous response was generated.

```
<SID> <YY-MM-DD> <HH:MM:SS>
A 2469 REPT EVT STS3C
  "OC3STS3C-12:T-SESP,,07-01,07-25-38,NEND,,56,44,15-MIN"
;
```

RELATED COMMANDS

```
ED-PRVG-USER
ENT-USER
INIT-REG-ST3C
RTRV-ALM-ALL
RTRV-ALM-ST3C
RTRV-ATTR-ST3C
RTRV-COND-ALL
```

RTRV-COND-STS3C
RTRV-DFLTATTR-STS3C
RTRV-DFLTTH-STS3C
RTRV-PM-STS3C
RTRV-PMATTR-ALL
RTRV-PMMODE-STS3C
RTRV-TH-STS3C
SET-ATTR-STS3C
SET-DFLTATTR-STS3C
SET-DFLTTH-STS3C
SET-PMATTR-ALL
SET-PMMODE-STS3C
SET-TH-STS3C

RELATED AUTONOMOUS RESPONSES

REPT^ALM^STS3C

RESPONSE CODE: **REPT^EVT^T1**
RESPONSE NAME: **REPORT EVENT T1**

PURPOSE

The REPT^EVT^T1 autonomous response is generated by the system

- to report the occurrence of one or more non–alarmed standing condition(s) (an event occurred which caused a condition with a notification code of not–alarmed to be set by the system) for the indicated DS1 or Timing Reference (TMG) port(s),
- to report the clearing of one or more previously reported non–alarmed standing condition(s) for the indicated DS1 or TMG port(s),
- to report a transient *non* threshold crossing alert (Non–TCA) condition for the indicated DS1 or TMG port,
- or to report a transient threshold crossing alert (PM TCA) condition for the indicated DS1 port.

RESPONSE FORMAT

The following autonomous response format is provided when DS1 or TMG standing conditions are reported.

```
<SID> <YY-MM-DD> <HH:MM:SS>
A <ATAG> REPT EVT T1
  "<AID>:<CONDTYPE>,<CONDEFF>,<OCRDAT>,<OCRTM>,<LOCN>,,,,
[:\"<CONDDDESCR>\",,,]"
;
```

The following autonomous response format is provided when DS1 transient conditions are reported.

```
<SID> <YY-MM-DD> <HH:MM:SS>
A <ATAG> REPT EVT T1
  "<AID>:<CONDTYPE>,,<OCRDAT>,<OCRTM>,<LOCN>,,<MONVAL>,<THLEV>,<TMPER>[:\"<CONDDDESCR>\",,,\"<OBSDBHVR>\",\"<EXPTDBHVR>\"]"
;
```

OUTPUT PARAMETERS

ATAG	{0–99999}	
	Autonomous Message Tag, the system assigned tag number used to correlate autonomous messages.	
AID	DS1_AID:	
	{T1–{1–59392}}	(T1–DS1#)
	{T3T1–{1–4800}–{1–28}}	(T3T1–DS3#–DS1#)
	{EC1T1–{1–3840}–{1–28}}	(EC1T1–EC1/STS1/DS3#–DS1#)
	{EC1T1–{1–3840}–{1–7}–{1–4}}	(EC1T1–EC1/STS1#–VTGrp#–VT1/DS1#)
	{OC3T1–{1–2240}–{1–3}–{1–28}}	(OC3T1–OC3#–STS1/DS3#–DS1#)
	{OC3T1–{1–2240}–{1–3}–{1–7}–{1–4}}	(OC3T1–OC3#–STS1#–VTGrp#–VT1/DS1#)
	{OC12T1–{1–560}–{1–4}–{1–3}–{1–28}}	(OC12T1–OC12#–STM1#–STS1/DS3#–DS1#)
	{OC12T1–{1–560}–{1–4}–{1–3}–{1–7}–{1–4}}	
	(OC12T1–OC12#–STM1#–STS1#–VTGrp#–VT1/DS1#)	
	TMG_AID:	
	{TMG–{0, 1}}	
	DS1/TMG AID, identifies the DS1 or TMG port.	

CONDTYPE DS1_STANDING_NEAR-END_CONDTYPE:{ACTLPBK, AIS, AIS-CI, ALWCBLPBK, DS1ISD, EOC, NHPMREPT, LOF, LOS, MAN, RCVCLPBK, ROLLMON, XMTCLPBK},
DS1_STANDING_FAR-END_CONDTYPE:{RAI, RAI-CI},
TMG_STANDING_NEAR-END_CONDTYPE:{AIS, LOF, LOS, SLTMSIG, SYNCPRI, SYNCSEC, SYNCSTATQUAL},
TMG_TRANSIENT_NEAR-END_NON-TCA_CONDTYPE:{SSMC},
DS1_NEAR-END_TRANSIENT_TCA_CONDTYPE:{T-AISS, T-CVL, T-CVP, T-ESA-P, T-ESB-P, T-ESNP, T-ESP, T-ESL, T-FC-P, T-LOSS, T-QRSSS-P, T-SAS-P, T-SESL, T-SESNP, T-SESP, T-UASN, T-UASP},
DS1_FAR-END_TRANSIENT_TCA_CONDTYPE:{T-CSS, T-CVP, T-ESA-P, T-ESB-P, T-ESL, T-ESP, T-FC-P, T-SEFS, T-SESP, T-UASP}

Condition Type, identifies the standing or transient condition type being reported. (Refer to Appendix C for a list of all standing and transient Non-TCA condition types and to Appendix F for a list of all monitored PM parameters for transient TCA condition types.) Values are:

Values for STANDING CONDITION TYPES are:

ACTLPBK	Active Loopback, the DS1 port is in loop back.
AIS	Alarm Indication Signal, AIS detected.
AIS-CI	Alarm Indication Signal for Customer Installation, Incoming AIS detected. (DS1 Near-End)
ALWCBLPBK	Allow C-bit Loopback.
DS1ISD	DS1 Idle Signal Detected, Incoming. (DS1 Near-End.)
EOC	Embedded Operations Channel, EOC failure detected.
INHPMREPT	Inhibit Performance Monitoring Report, PM report capability Inhibited.
LOF	Loss Of Frame detected.
LOS	Loss Of Signal detected.
MAN	Manual removal (logical removal was performed on the facility).
RAI	Remote Alarm Indication detected.
RAI-CI	Remote Alarm Indication for Customer Installation detected. (DS1 Far-End)
RCVCLPBK	Receive (DS1) C-Bit Loopback.
ROLLMON	Roll Monitoring, receive-side RTO port being monitored for valid signal.
SLTMSIG	Slipping Timing Reference Signal detected.
SYNCPRI	Primary Reference Synchronization failure.
SYNCSEC	Secondary Reference Synchronization failure.
SYNCSTATQUAL	Synchronization Status Quality.
XMTCLPBK	Transmit (DS1) C-Bit Loopback.

Values for TRANSIENT (Non Threshold Crossing Alert) CONDITION TYPES are:

SSMC	Synchronization Status Message Change.
------	--

Values for TRANSIENT (Threshold Crossing Alert) CONDITION TYPES are:

T-AISS	TCA-AIS Seconds, indicates an AISS threshold crossing was detected.
T-CSS	TCA-Controlled Slip Seconds, indicates a CSS threshold crossing was detected.
T-CVL	TCA-Coding Violations Line, indicates a CV-L threshold crossing was detected.
T-CVP	TCA-Coding Violations Path, indicates a CV-P threshold crossing was detected.
T-ESA-P	TCA-Errored Seconds Type A - Path, indicates an

	T-ESB-P	ESA-P threshold crossing was detected. TCA-Errored Seconds Type B – Path, indicates an ESB-P threshold crossing was detected.
	T-ESNP	TCA-Errored Seconds Network Path, indicates an ES-NP threshold crossing was detected.
	T-ESL	TCA-Errored Seconds Line, indicates an ES-L threshold crossing was detected.
	T-ESP	TCA-Errored Seconds Path, indicates an ES-P threshold crossing was detected.
	T-FC-P	TCA-Failure Count – Path, indicates a FC-P threshold crossing was detected.
	T-LOSS	TCA-Loss Of Signal Seconds – Line, indicates a LOSS-L threshold crossing was detected.
	T-QRSSS-P	TCA-QRSSS – Path, indicates a QRSSS-P threshold crossing was detected.
	T-SAS-P	TCA-Severely Errored Frame Seconds/AIS Seconds – Path, indicates a SAS-P threshold crossing was detected.
	T-SEFS	TCA-Severely Errored Frame Seconds, indicates a SEFS threshold crossing was detected.
	T-SESL	TCA-Severely Errored Seconds Line, indicates a SES-L threshold crossing was detected.
	T-SESNP	TCA-Severely Errored Seconds Network Path, indicates an ES-NP threshold crossing was detected.
	T-SESP	TCA-Severely Errored Seconds Path, indicates a SES-P threshold crossing was detected.
	T-UASNP	TCA-Unavailable Seconds Network Path, indicates an UAS-NP threshold crossing was detected.
	T-UASP	TCA-Unavailable Seconds Path, indicates an UAS-P threshold crossing was detected.
CONDEFF	{CL, SC} Condition Effect, identifies the effect of the standing condition being reported. A value for CONDEFF is only reported for a standing condition. Values are: CL Cleared, a previously declared non-alarmed standing condition has cleared. SC Standing Condition, a non-alarmed standing condition has occurred.	
OCRDAT	{MONTH-DAY:{01-12} – {01-31} } Occurrence Date, identifies the date when the condition occurred. The format of OCRDAT is <MONTH_OF_YEAR> – <DAY_OF_MONTH>.	
OCRTM	{HOUR-MINUTE-SECOND:{00-23} – {00-59} – {00-59} } Occurrence Time, identifies the time when the condition occurred. The format of OCRTM is <HOUR_OF_DAY> – <MINUTE_OF_HOUR> –<SECOND_OF_MINUTE>.	
LOCN	{FEND, NEND} Location, identifies the location where the condition type is monitored. Values are: FEND Far-End, events occurring at a distant network element. NEND Near-End, events occurring at the system.	
MONVAL	{0-4294967295} Monitored Parameter Value, indicates the measured value in the PM register corresponding to the threshold crossing alert being reported. A value for MONVAL is only reported for a transient condition (threshold crossing alert).	

THLEV	{0–4294967295} Threshold Level, indicates the threshold level for the monitored PM parameter corresponding to the threshold crossing alert being reported. A value for THLEV is only reported for a transient condition (threshold crossing alert).
TMPER	{15–MIN, 1–DAY} Time Period, identifies the accumulation time period for the monitored PM parameter corresponding to the threshold crossing alert being reported. A value for TMPER is only reported for a transient condition (threshold crossing alert). Values are: 15–MIN 15–Minute PM collection period. 1–DAY 1–Day (24 hours) PM collection period.
CONDDDESCR	< 1–64 alpha–numeric characters > Condition Description, an optional, non–parsable, text description of the condition, enclosed within escape–quotes (\“ ... \”).
OBSDBHVR	<1–512 alpha–numeric characters> Observed Behaviour, indicates the new synchronization status message, and is only displayed if condition type is SSMC.
EXPTDBHVR	<1–512 alpha–numeric characters> Expected Behavior, indicates the old synchronization status message, and is only displayed if condition type is SSMC.

EXAMPLES

The following example shows the autonomous message generated by the system to report a non–alarmed standing condition on DS1 port T3T1–1160–22.

The autonomous response, shown below, assumes a system generated ATAG value of 2468. The response header would contain the provisioned Site ID of the system, and the date and time the autonomous response was generated.

```
<SID> <YY-MM-DD> <HH:MM:SS>
A 2468 REPT EVT T1
  "T3T1-1160-22:XMTCBLPBK,SC,07-01,07-05-10,NEND,,,"
;
```

The following example shows the autonomous message generated by the system to report a severely errored seconds transient condition (threshold crossing alert) on DS1 port T3T1–1212–28.

The autonomous response, shown below, assumes a system generated ATAG value of 2469. The response header would contain the provisioned Site ID of the system, and the date and time the autonomous response was generated.

```
<SID> <YY-MM-DD> <HH:MM:SS>
A 2469 REPT EVT T1
  "T3T1-1212-28:T-SESP,,07-01,07-25-38,NEND,,56,44,15-MIN"
;
```


RELATED COMMANDS

ED-PRVG-USER
ENT-USER
INIT-REG-T1
RTRV-ALM-ALL
RTRV-ALM-T1
RTRV-ATTR-T1
RTRV-COND-ALL
RTRV-COND-T1
RTRV-DFLTATTR-T1
RTRV-DFLTTH-T1
RTRV-PM-T1
RTRV-PMATTR-ALL
RTRV-PMODE-T1
RTRV-TH-T1
SET-ATTR-T1
SET-DFLTATTR-T1
SET-DFLTTH-T1
SET-PMATTR-ALL
SET-PMODE-T1
SET-TH-T1

RELATED AUTONOMOUS RESPONSES

REPT^ALM^T1

RESPONSE CODE: **REPT^EVT^T3**
RESPONSE NAME: **REPORT EVENT T3**

PURPOSE

The REPT^EVT^T3 autonomous response is generated by the system

- to report the occurrence of one or more non–alarmed standing condition(s) (an event occurred which caused a condition with a notification code of not–alarmed to be set by the system) for the indicated DS3 port(s),
- to report the clearing of one or more previously reported non–alarmed standing condition(s) for the indicated DS3 port(s),
- or to report a transient threshold crossing alert (PM TCA) condition for the indicated DS3 port.

RESPONSE FORMAT

The following autonomous response format is provided when DS3 standing conditions are reported.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
A <ATAG> REPT EVT T3  
  "<AID>:<CONDDTYPE>,<CONDEFF>,<OCRDAT>,<OCRTM>,<LOCN>,[<DIRN>],,,  
[:\"<CONDDDESCR>\",,,]"  
;
```

The following autonomous response format is provided when DS3 transient conditions are reported.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
A <ATAG> REPT EVT T3  
  "<AID>:<CONDDTYPE>,,<OCRDAT>,<OCRTM>,<LOCN>,,<MONVAL>,<THLEV>,<TMPPER>[:\"<CONDDDESCR>\",,,]"  
;
```

OUTPUT PARAMETERS

ATAG	{0–99999} Autonomous Message Tag, the system assigned tag number used to correlate autonomous messages.
AID	DS3_AID: {T3–{1–4800}} (T3–DS3#) {EC1T3–{1–3840}} (EC1T3–EC1/STS1/DS3#) {OC3T3–{1–2240}–{1–3}} (OC3T3–OC3#–STS1/DS3#) {OC12T3–{1–560}–{1–4}–{1–3}} (OC12T3–OC12#–STM1#–STS1/DS3#) DS3 AID, identifies the DS3 port.
CONDDTYPE	STANDING_NEAR-END_CONDDTYPE:{1TO6LOF, 7LOF, ACTLPBK, AICMIS, AIS, FLTESC, INHPMREPT, ISD, LOF, LOS, MAN}, STANDING_FAR-END_CONDDTYPE:{AIS, DS2YEL, FEACEQPT, ISD, LOF, LOS, RAI}, TRANSIENT_NEAR-END_TCA_CONDDTYPE:{T-AISS, T-CVCP–P, T-CVL, T-CVP, T-ESA–L, T-ESA–P, T-ESACP–P, T-ESB–L, T-ESB–P, T-ESBCP–P, T-ESCP–P, T-ESL, T-ESP, T-FC–P, T-LOSS, T-SAS–P, T-SESCP–P, T-SESL, T-SESP, T-UASCP–P, T-UASP}, TRANSIENT_FAR-END_TCA_CONDDTYPE:{T-CVCP–P, T-ESACP–P, T-ESBCP–P, T-ESCP–P, T-FCCP–P, T-SASCP–P, T-SESCP–P, T-UASCP–P} Condition Type, identifies the standing or transient condition type being reported. (Refer to Appendix C for a list of all standing condition types and to Appendix F for a list of all monitored PM parameters for transient TCA condition types.) Values are: Values for STANDING CONDITION TYPES are:

1TO6LOF	One To Six Loss Of Frame, Incoming LOF detected on 1 to 6 DS2s embedded in the DS3.
7LOF	Seven Loss Of Frame, Incoming LOF detected on all 7 DS2s embedded in the DS3.
ACTLPBK	Active Loopback, the DS3 port is in loop back.
AICMIS	Application Identification Channel Mismatch, AIC mismatch detected.
AIS	Alarm Indication Signal, AIS detected.
DS2YEL	DS2 Yellow (Remote Alarm Indication) detected on one of the DS2s embedded in the DS3.
FEACEQPT	Far-End Alarm & Control (FEAC) Equipment detected.
FLTESC	Facility Fault Escalation active.
INHPMREPT	Inhibit Performance Monitoring Report, PM report capability Inhibited.
ISD	Idle Signal Detected.
LOF	Loss Of Frame detected.
LOS	Loss Of Signal detected.
MAN	Manual removal (logical removal was performed on the facility).
RAI	Remote Alarm Indication detected.
Values for TRANSIENT (Threshold Crossing Alert) CONDITION TYPES are:	
T-AISS	TCA-AIS Seconds, indicates an AISS threshold crossing was detected.
T-CVCP-P	TCA-Coding Violations, CP-bit parity – Path, indicates a CVCP-P threshold crossing was detected.
T-CVL	TCA-Coding Violations Line, indicates a CV-L threshold crossing was detected.
T-CVP	TCA-Coding Violations Path, indicates a CV-P threshold crossing was detected.
T-ESA-L	TCA-Errored Seconds type A – Line, indicates an ESA-L threshold crossing was detected.
T-ESA-P	TCA-Errored Seconds Type A – Path, indicates an ESA-P threshold crossing was detected.
T-ESACP-P	TCA-Errored Seconds type A, CP-bit parity – Path, indicates an ESACP-P threshold crossing was detected.
T-ESB-L	TCA-Errored Seconds type B – Line, indicates an ESB-L threshold crossing was detected.
T-ESB-P	TCA-Errored Seconds Type B – Path, indicates an ESB-P threshold crossing was detected.
T-ESBCP-P	TCA-Errored Seconds type B, CP-bit parity – Path, indicates an ESBCP-P threshold crossing was detected.
T-ESCP-P	TCA-Errored Seconds, CP-bit parity – Path, indicates an ESCP-P threshold crossing was detected.
T-ESL	TCA-Errored Seconds Line, indicates an ES-L threshold crossing was detected.
T-ESP	TCA-Errored Seconds Path, indicates an ES-P threshold crossing was detected.
T-FC-P	TCA-Failure Count – Path, indicates a FC-P threshold crossing was detected.
T-FCCP-P	TCA-Failure Count, CP-bit parity – Path, indicates a FCCP-P threshold crossing was detected.
T-LOSS	TCA-Loss Of Signal Seconds – Line, indicates a LOSS-L threshold crossing was detected.
T-SAS-P	TCA-Severely Errored Frame Seconds/AIS Seconds –

	T-SASCP-P	Path, indicates a SAS-P threshold crossing was detected.
	T-SESCP-P	TCA-Severe AIS Seconds, CP-bit parity – Path, indicates a SASCP-P threshold crossing was detected.
	T-SESL	TCA-Severely Errored Seconds, CP-bit parity – Path, indicates a SESCO-P threshold crossing was detected.
	T-SESP	TCA-Severely Errored Seconds Line, indicates a SES-L threshold crossing was detected.
	T-UASCP-P	TCA-Severely Errored Seconds Path, indicates a SES-P threshold crossing was detected.
	T-UASP	TCA-Unavailable Seconds, CP-bit parity – Path, indicates an UASCP-P threshold crossing was detected.
		TCA-Unavailable Seconds Path, indicates an UAS-P threshold crossing was detected.
CONDEFF	{CL, SC}	Condition Effect, identifies the effect of the standing condition being reported. A value for CONDEFF is only reported for a standing condition. Values are:
	CL	Cleared, a previously declared non-alarmed standing condition has cleared.
	SC	Standing Condition, a non-alarmed standing condition has occurred.
OCRDAT	{MONTH-DAY:{01-12} – {01-31} }	Occurrence Date, identifies the date when the condition occurred. The format of OCRDAT is <MONTH_OF_YEAR> – <DAY_OF_MONTH>.
OCRTM	{HOUR-MINUTE-SECOND:{00-23} – {00-59} – {00-59} }	Occurrence Time, identifies the time when the condition occurred. The format of OCRTM is <HOUR_OF_DAY> – <MINUTE_OF_HOUR> –<SECOND_OF_MINUTE>.
LOCN	{FEND, NEND}	Location, identifies the location where the condition type is monitored. Values are:
	FEND	Far-End, events occurring at a distant network element.
	NEND	Near-End, events occurring at the system.
DIRN	{TRMT, <NoVal>}	Direction, identifies the direction of the condition type being monitored. Values are:
	TRMT	Transmit Direction, value returned for CONDTYPE of FLTESC.
	<NoVal>	No Value (null) returned for all conditions other than FLTESC.
MONVAL	{0-4294967295}	Monitored Parameter Value, indicates the measured value in the PM register corresponding to the threshold crossing alert being reported. A value for MONVAL is only reported for a transient condition (threshold crossing alert).
THLEV	{0-4294967295}	Threshold Level, indicates the threshold level for the monitored PM parameter corresponding to the threshold crossing alert being reported. A value for THLEV is only reported for a transient condition (threshold crossing alert).
TMPER	{15-MIN, 1-DAY}	Time Period, identifies the accumulation time period for the monitored PM parameter corresponding to the threshold crossing alert being reported. A value for TEMPER is only reported for a transient condition (threshold crossing alert). Values are:
	15-MIN	15-Minute PM collection period.
	1-DAY	1-Day (24 hours) PM collection period.
CONDDESCR	< 1-64 alpha-numeric characters >	Condition Description, an optional, non-parsable, text description of the condition, enclosed within escape-quotes (" ... ").

EXAMPLES

The following example shows the autonomous message generated by the system to report a non-alarmed standing condition on DS3 port T3-1160.

The autonomous response, shown below, assumes a system generated ATAG value of 2468. The response header would contain the provisioned Site ID of the system, and the date and time the autonomous response was generated.

```
<SID> <YY-MM-DD> <HH:MM:SS>
A 2468 REPT EVT T3
  "T3-1160:INHMPREPT,SC,07-01,07-05-10,NEND,,,"
;
```

The following example shows the autonomous message generated by the system to report a severely errored seconds, path transient condition (threshold crossing alert) on DS3 port T3-1212.

The autonomous response, shown below, assumes a system generated ATAG value of 2469. The response header would contain the provisioned Site ID of the system, and the date and time the autonomous response was generated.

```
<SID> <YY-MM-DD> <HH:MM:SS>
A 2469 REPT EVT T3
  "T3-1212:T-SESP,,07-01,07-25-38,NEND,,56,44,15-MIN"
;
```

RELATED COMMANDS

ED-PRVG-USER
ENT-USER
INIT-REG-T3
RTRV-ALM-ALL
RTRV-ALM-T3
RTRV-ATTR-T3
RTRV-COND-ALL
RTRV-COND-T3
RTRV-DFLTATTR-T3
RTRV-DFLTTH-T3
RTRV-PM-T3
RTRV-PMATTR-ALL
RTRV-PMMODE-T3
RTRV-TH-T3
SET-ATTR-T3
SET-DFLTATTR-T3
SET-DFLTTH-T3
SET-PMATTR-ALL
SET-PMMODE-T3
SET-TH-T3

RELATED AUTONOMOUS RESPONSES

REPT^ALM^T3

RESPONSE CODE: **REPT^EVT^VT1**
RESPONSE NAME: **REPORT EVENT VT1**

PURPOSE

The REPT^EVT^VT1 autonomous response is generated by the system

- to report the occurrence of one or more non–alarmed standing condition(s) (an event occurred which caused a condition with a notification code of not–alarmed to be set by the system) for the indicated VT1.5 port(s),
- to report the clearing of one or more previously reported non–alarmed standing condition(s) for the indicated VT1.5 port(s),
- to report a transient *non* threshold crossing alert (Non–TCA) condition for the indicated VT1.5 port,
- or to report a transient threshold crossing alert (PM TCA) condition for the indicated VT1.5 port.

RESPONSE FORMAT

The following autonomous response format is provided when VT1.5 standing conditions are reported.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
A <ATAG> REPT EVT VT1  
  "<AID>:<CONDTYPE>,<CONDEFF>,<OCRDAT>,<OCRTM>,<LOCN>,[<DIRN>],,,  
  [:\"<CONDDDESCR>\" , , , ] "  
;
```

The following autonomous response format is provided when VT1.5 transient conditions are reported.

```
<SID> <YY-MM-DD> <HH:MM:SS>  
A <ATAG> REPT EVT VT1  
  "<AID>:<CONDTYPE>,,<OCRDAT>,<OCRTM>,<LOCN>,,<MONVAL>,  
<THLEV>,<TMPPER>[:\"<CONDDDESCR>\" , , , ] "  
;
```

OUTPUT PARAMETERS

ATAG	{0–99999}	
	Autonomous Message Tag, the system assigned tag number used to correlate autonomous messages.	
AID	VT1_AID: {EC1VT1–{1–3840}–{1–7}–{1–4}} {OC3VT1–{1–2240}–{1–3}–{1–7}–{1–4}} {OC12VT1–{1–560}–{1–4}–{1–3}–{1–7}–{1–4}} (OC12VT1–OC12#–STM1#–STS1#–VTGrp#–VT1.5#)	(EC1VT1–EC1/STS1#–VTGrp#–VT1.5#) (OC3VT1–OC3#–STS1#–VTGrp#–VT1.5#)
	VT1 AID, identifies the VT1.5 port.	

CONDTYPE STANDING_NEAR-END_CONDTYPE:{ACTLPBK, AIS, EBER, FLTESC, FRCDWKSWBK, FRCDWKSWPR, IDLE, INHPMREPT, LOP, MAN, MANWKSWBK, MANWKSWPR, ROLLMON, SDBER, SLMF},
STANDING_FAR-END_CONDTYPE:{RFI},
TRANSIENT_NEAR-END_NON-TCA_CONDTYPE:{WKSWBK, WKSWPR},
TRANSIENT_NEAR-END_TCA_CONDTYPE:{T-ALS-V, T-CVV, T-ESA-V, T-ESB-V, T-ESV, T-FC-V, T-SESV, T-UASV},
TRANSIENT_FAR-END_TCA_CONDTYPE:{T-ALS-V, T-CVV, T-ESA-V, T-ESB-V, T-ESV, T-FC-V, T-SESV, T-UASV}

Condition Type, identifies the standing or transient condition type being reported. (Refer to Appendix C for a list of all standing and transient Non-TCA condition types and to Appendix F for a list of all monitored PM parameters for transient TCA condition types.)
Values are:

Values for STANDING CONDITION TYPES are:

ACTLPBK	Active Loopback, the VT1.5 port is in loop back.
AIS	Alarm Indication Signal, AIS detected.
EBER	Excessive Bit Error Rate detected.
FLTESC	Facility Fault Escalation active.
FRCDWKSWBK	Forced Working Switched Back, working facility was manually force switched from protection to the main facility.
FRCDWKSWPR	Forced Working Switched to Protection, working facility was manually force switched to the protection facility.
IDLE	Idle, incoming idle detected.
INHPMREPT	Inhibit Performance Monitoring Report, PM report capability Inhibited.
LOP	Loss Of Pointer detected.
MAN	Manual removal (logical removal was performed on the facility).
MANWKSWBK	Manual Working Switched Back, working facility was manually switched from protection to the main facility.
MANWKSWPR	Manual Working Switched to Protection, working facility was manually switched to the protection facility.
RFI	Remote Failure Indication detected.
ROLLMON	Roll Monitoring, receive-side RTO port being monitored for valid signal.
SDBER	Signal Degrade Bit Error Rate detected.
SLMF	Signal Label Match Failure detected.

Values for TRANSIENT (Non Threshold Crossing Alert) CONDITION TYPES are:

WKSWBK	Working Switched Back, working facility automatically switched from protection to the main facility.
WKSWPR	Working Switched to Protection, working facility automatically switched to the protection facility.

Values for TRANSIENT (Threshold Crossing Alert) CONDITION TYPES are:

T-ALS-V	TCA-Alarm Indication Signal/Loss of Pointer Seconds – VT Path, indicates an ALS-V threshold crossing was detected.
T-CVV	TCA-Coding Violations VT Path, indicates a CV-V threshold crossing was detected.
T-ESA-V	TCA-Errored Seconds Type A – VT Path, indicates an ESA-V threshold crossing was detected.
T-ESB-V	TCA-Errored Seconds Type B – VT Path, indicates an ESB-V threshold crossing was detected.
T-ESV	TCA-Errored Seconds VT Path, indicates an ES-V

		threshold crossing was detected.
	T-FC-V	TCA-Failure Count – VT Path, indicates a FC-V threshold crossing was detected.
	T-SESV	TCA-Severely Errored Seconds VT Path, indicates a SES-V threshold crossing was detected.
	T-UASV	TCA-Unavailable Seconds VT Path, indicates an UAS-V threshold crossing was detected.
CONDEFF	{CL, SC}	Condition Effect, identifies the effect of the standing condition being reported. A value for CONDEFF is only reported for a standing condition. Values are:
	CL	Cleared, a previously declared non-alarmed standing condition has cleared.
	SC	Standing Condition, a non-alarmed standing condition has occurred.
OCRDAT	{MONTH-DAY:{01-12} – {01-31} }	Occurrence Date, identifies the date when the condition occurred. The format of OCRDAT is <MONTH_OF_YEAR> – <DAY_OF_MONTH>.
OCRTM	{HOUR-MINUTE-SECOND:{00-23} – {00-59} – {00-59} }	Occurrence Time, identifies the time when the condition occurred. The format of OCRTM is <HOUR_OF_DAY> – <MINUTE_OF_HOUR> –<SECOND_OF_MINUTE>.
LOCN	{FEND, NEND}	Location, identifies the location where the condition type is monitored. Values are:
	FEND	Far-End, events occurring at a distant network element.
	NEND	Near-End, events occurring at the system.
DIRN	{TRMT, <NoVal>}	Direction, identifies the direction of the condition type being monitored. Values are:
	TRMT	Transmit Direction, value returned for CONDDTYPE of FLTESC.
	<NoVal>	No Value (null) returned for all conditions other than FLTESC.
MONVAL	{0-4294967295}	Monitored Parameter Value, indicates the measured value in the PM register corresponding to the threshold crossing alert being reported. A value for MONVAL is only reported for a transient condition (threshold crossing alert).
THLEV	{0-4294967295}	Threshold Level, indicates the threshold level for the monitored PM parameter corresponding to the threshold crossing alert being reported. A value for THLEV is only reported for a transient condition (threshold crossing alert).
TMPER	{15-MIN, 1-DAY}	Time Period, identifies the accumulation time period for the monitored PM parameter corresponding to the threshold crossing alert being reported. A value for TMPER is only reported for a transient condition (threshold crossing alert). Values are:
	15-MIN	15-Minute PM collection period.
	1-DAY	1-Day (24 hours) PM collection period.
CONDDESCR	< 1-64 alpha-numeric characters >	Condition Description, an optional, non-parsable, text description of the condition, enclosed within escape-quotes (\“ ... \”).

EXAMPLES

The following example shows the autonomous message generated by the system to report a non-alarmed standing condition on VT1.5 port EC1VT1-200-7-1.

The autonomous response, shown below, assumes a system generated ATAG value of 2468. The response header would contain the provisioned Site ID of the system, and the date and time the autonomous response was generated.

```
<SID> <YY-MM-DD> <HH:MM:SS>
A 2468 REPT EVT VT1
  "EC1VT1-200-7-1:INHMPREPT,SC,07-01,07-05-10,NEND,,,"
;
```

The following example shows the autonomous message generated by the system to report a severely errored seconds, VT path transient condition (threshold crossing alert) on VT1.5 port EC1VT1-252-4-1.

The autonomous response, shown below, assumes a system generated ATAG value of 2469. The response header would contain the provisioned Site ID of the system, and the date and time the autonomous response was generated.

```
<SID> <YY-MM-DD> <HH:MM:SS>
A 2469 REPT EVT VT1
  "EC1VT1-252-4-1:T-SESV,,07-01,07-25-38,NEND,,56,44,15-MIN"
;
```

RELATED COMMANDS

ED-PRVG-USER
ENT-USER
INIT-REG-VT1
RTRV-ALM-ALL
RTRV-ALM-VT1
RTRV-ATTR-VT1
RTRV-COND-ALL
RTRV-COND-VT1
RTRV-DFLTATTR-VT1
RTRV-DFLTTH-VT1
RTRV-PM-VT1
RTRV-PMATTR-ALL
RTRV-PMMODE-VT1
RTRV-TH-VT1
SET-ATTR-VT1
SET-DFLTATTR-VT1
SET-DFLTTH-VT1
SET-PMATTR-ALL
SET-PMMODE-VT1
SET-TH-VT1

RELATED AUTONOMOUS RESPONSES

REPT^ALM^VT1

RESPONSE CODE: **REPT^HWSW**
RESPONSE NAME: **REPORT HARDWARE SOFTWARE**
 (PROBLEM)

PURPOSE

The REPT^HWSW autonomous response is generated by the system to report unusual autonomous software errors or system anomalies, such as insufficient memory allocation for a task or an error in opening a database file.

RESPONSE FORMAT

```
      <SID> <YY-MM-DD> <HH:MM:SS>  
I  <ITAG> REPT HWSW  
    <ERROR CODE>  
    /* <CONDDESCR> */  
    /* SUBSYSTEM=<SUBSYS>, MODULE=<MODULE> */  
    /* PROCESSID=<PROCID>, SEVERITY=<SVL>, ACTION=<ACTION> */  
;
```

OUTPUT PARAMETERS

ITAG	{0–99999} Informational Message Tag, the system assigned tag number used to correlate autonomous informational messages.
ERROR CODE	<Valid 4 Character Error Code> Error Code. (Refer to Appendix D for a list of Error Codes.)
CONDDESCR	<1–10 lines of up to 64 alpha–numeric characters> Condition Description, an optional, non–parsable text description of the condition or problem being reported.
SUBSYS	<Software subsystem name> Software Subsystem, identifies the name of the software subsystem.
MODULE	<Software module name> Software Module, identifies the name of the software module.
PROCID	<Software process identifier> Process ID, identifies the software process ID.
SVL	{CRITICAL, MAJOR, MINOR} Severity Level, identifies the severity level of the problem. Values are: CRITICAL Critical, requires immediate attention. MAJOR Major, requires an action, but not immediately. MINOR Minor, a request cannot be completed although there are no deficiencies in either hardware or software.

ACT {CALL ALCATEL, CHECK CONFIGURATION, CHECK INPUT DATA, CHECK THE RECORDS, CHECK THE STATE, EXECUTE INIT-SYS:::1, EXECUTE INIT-SYS:::2, REENTER COMMAND, REENTER COMMAND LATER, REFER TO MANUALS}

Action, indicates a suggested action to resolve the problem. Values are:

- CALL ALCATEL
- CHECK CONFIGURATION
- CHECK INPUT DATA
- CHECK THE RECORDS
- CHECK THE STATE
- EXECUTE INIT-SYS:::1
- EXECUTE INIT-SYS:::2
- REENTER COMMAND
- REENTER COMMAND LATER
- REFER TO MANUALS

EXAMPLES

The following example shows the autonomous REPT^HWSW message generated because the system was unable to open a database file.

The autonomous response, shown below, assumes a system generated ITAG value of 2468. The response header would contain the provisioned Site ID of the system, and the date and time the autonomous response was generated.

```
<SID> <YY-MM-DD> <HH:MM:SS>
I 2468 REPT HWSW
SDBE
/* DB ERROR: can not read system parameter file: lstat = -7 */
/* SUBSYSTEM=LIBCIDB,MODULE=neparm_open() */
/* PROCESSID=27,SEVERITY=MINOR,ACTION=REFER TO MANUALS */
;
```

RELATED COMMANDS

ED-PRVG-USER
ENT-USER

RESPONSE CODE: **REPT^INFORMATION**
RESPONSE NAME: **REPORT INFORMATION**

PURPOSE

The REPT^INFORMATION autonomous response is generated by the system to provide general, non-parsable, autonomous information that is unrelated to other types of autonomous responses.

RESPONSE FORMAT

```
      <SID> <YY-MM-DD> <HH:MM:SS>  
I  <ITAG> REPT INFORMATION  
    /* <Free Form Informational Text> */  
;
```

OUTPUT PARAMETERS

ITAG	{0-99999} Informational Message Tag, the system assigned tag number used to correlate autonomous informational messages.
------	---

EXAMPLES

The following example shows the autonomous REPT^INFORMATION message generated by the system because of an invalid log-on attempt.

The autonomous response, shown below, assumes a system generated ITAG value of 2468. The response header would contain the provisioned Site ID of the system, and the date and time the autonomous response was generated.

```
      <SID> <YY-MM-DD> <HH:MM:SS>  
I  2468 REPT INFORMATION  
    /* Invalid login attempt on CID 5, UID:system */  
;
```

RELATED COMMANDS

ED-PRVG-USER
ENT-USER

RESPONSE CODE: **REPT^INITZN**
RESPONSE NAME: **REPORT INITIALIZATION**

PURPOSE

The REPT^INITZN autonomous response is generated by the system when a communication link timer expires (refer to the LNK TMR parameter in the ENT-USER and ED-PRVG-USER commands) or when the Administration Control System (APS) reboots/resets (refer to the INIT-SYS command).

The REPT^INITZN autonomous response is used to notify an OS system or a test session controller that a system initialization event or a loss of communication has occurred.

RESPONSE FORMAT

```
      <SID> <YY-MM-DD> <HH:MM:SS>  
A  <ATAG> REPT INITZN  
;
```

OUTPUT PARAMETERS

ATAG	{0-99999}
------	-----------

Autonomous Message Tag, the system assigned tag number used to correlate autonomous messages.

EXAMPLES

The following example shows the autonomous REPT^INITZN message generated by the system because of a communication link "keep-alive" time-out.

The autonomous response, shown below, assumes a system generated ATAG value of 2468. The response header would contain the provisioned Site ID of the system, and the date and time the autonomous response was generated.

```
      <SID> <YY-MM-DD> <HH:MM:SS>  
A  2468 REPT INITZN  
;
```

RELATED COMMANDS

ED-PRVG-USER
ENT-USER
INIT-SYS
REPT-STAT

RESPONSE CODE: **REPT^PM^RR**
RESPONSE NAME: **REPORT PERFORMANCE MONITORING
{EC1, F3, OC12, OC3, STS1, STS3C, T1, T3,
VT1}**

PURPOSE

The REPT^PM^rr autonomous responses are generated by the system as part of the scheduled daily PM reporting process. (Note the "rr" represents the facility type with values of {EC1, F3, OC12, OC3, STS1, STS3C, T1, T3, VT1}.)

The SCHED-PMREPT-ALL command enables or disables a daily PM report and sets the time-of-day the autonomous REPT^PM^rr messages containing the daily PM report is provided. Only monitored PM parameters that have PM reporting enabled (facility ports without an INHPMREPT condition type – refer to ALW-PM-REPT-rr) and that have event counts above or below the threshold level specified by MONLEV (in the SCHED-PMREPT-ALL command) are reported in a REPT^PM^rr message.

When a daily PM report is scheduled, the REPT^PM^rr autonomous responses provide the Recent 1-Day measured PM counts for each monitored near-end and far-end PM parameter being reported. Note that the 1-Day PM accumulation period is from midnight to midnight, so the previous day's PM measurements are actually reported in the scheduled PM report messages.

A scheduled daily PM report contains up to sixteen autonomous REPT^PM^rr responses. A separate autonomous response is provided for both near-end and far-end monitored PM parameters for each of the eight facility types (EC1, F3, OC12, OC3, STS1, STS3C, DS1, DS3, and VT1.5) supported by the system. An autonomous REPT^PM^rr message is only generated for a facility type if there is PM data to report for the facility type. Each autonomous REPT^PM^rr response message contains a line of parsable output data for each monitored PM parameter being reported within each facility port, in ascending order of (internal logical) facility AIDs.

RESPONSE FORMAT

```
<SID> <YY-MM-DD> <HH:MM:SS>  
A <ATAG> REPT PM <FACTYPE>  
  "<AID> : <MONTYPE> , <MONVAL> , <VLDTY> , <LOCN> , <DIRN> , <TMPER> , <MONDAT> "  
;
```

OUTPUT PARAMETERS

ATAG	{0-99999}
	Autonomous Message Tag, the system assigned tag number used to correlate autonomous messages.
FACTYPE	{EC1, F3, OC12, OC3, STS1, STS3C, T1, T3, VT1}
	Facility Type, identifies the type of facilities reported in the autonomous message.
	EC1 EC1 PM parameters are being reported.
	F3 F3 PM parameters are being reported
	OC12 OC12 PM parameters are being reported.
	OC3 OC3 PM parameters are being reported.
	STS1 STS-1 PM parameters are being reported.
	STS3C STS-3C PM parameters are being reported.
	T1 DS1 PM parameters are being reported.
	T3 DS3 PM parameters are being reported.
	VT1 VT1.5 PM parameters are being reported.

AID	EC1_AID:	
	{EC1-{1-3840} }	(EC1-EC1/STS1#)
	F3_AID:	
	{T3F3-{1-4800}-{1-14}}	(T3F3-DS3#-Fractional_DS3#)
	OC12_AID:	
	{OC12-{1-560}}	(OC12-OC12#)
	OC3_AID:	
	{OC3-{1-2240}}	(OC3-OC3#)
STS1_AID:	{EC1STS1-{1-3840}}	(EC1STS1-EC1/STS1#)
	{OC3STS1-{1-2240}-{1-3}}	(OC3STS1-OC3#-STS1#)
	{OC12STS1-{1-560}-{1-4}-{1-3}}	(OC12STS1-OC12#-STM1#-STS1#)
STS3C_AID:	{OC3STS3C-{1-2240}}	(OC3STS3C-OC3#/STS3C#)
	{OC12STS3C-{1-560}-{1-4}}	(OC12STS3C-OC12#-STM1/STS3C#)
DS1_AID:	{T1-{1-59392}}	(T1-DS1#)
	{T3T1-{1-4800}-{1-28}}	(T3T1-DS3#-DS1#)
	{EC1T1-{1-3840}-{1-28}}	(EC1T1-EC1/STS1/DS3#-DS1#)
	{EC1T1-{1-3840}-{1-7}-{1-4}}	(EC1T1-EC1/STS1#-VTGrp#-VT1/DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-28}}	(OC3T1-OC3#-STS1/DS3#-DS1#)
	{OC3T1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3T1-OC3#-STS1#-VTGrp#-VT1/DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-28}}	(OC12T1-OC12#-STM1#-STS1/DS3#-DS1#)
	{OC12T1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	
	(OC12T1-OC12#-STM1#-STS1#-VTGrp#-VT1/DS1#)	
DS3_AID:	{T3-{1-4800}}	(T3-DS3#)
	{EC1T3-{1-3840}}	(EC1T3-EC1/STS1/DS3#)
	{OC3T3-{1-2240}-{1-3}}	(OC3T3-OC3#-STS1/DS3#)
	{OC12T3-{1-560}-{1-4}-{1-3}}	(OC12T3-OC12#-STM1#-STS1/DS3#)
VT1_AID:	{EC1VT1-{1-3840}-{1-7}-{1-4}}	(EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)
	{OC3VT1-{1-2240}-{1-3}-{1-7}-{1-4}}	(OC3VT1-OC3#-STS1#-VTGrp#-VT1.5#)
	{OC12VT1-{1-560}-{1-4}-{1-3}-{1-7}-{1-4}}	
	(OC12VT1-OC12#-STM1#-STS1#-VTGrp#-VT1.5#)	

Facility AID, identifies the port associated with the PM parameter being reported.

MONTYPE	EC1_NEAR_END_PARAMETERS:{CVL, ESL, ESA-L, ESB-L, LOSS, SEFS, SESL, UASL},	
	EC1_FAR_END_PARAMETERS:{AISS, ESL, FC-L, SESL, UASL},	
	F3_PARAMETERS:{CV-N, CVN, ES-N, ESN, ESA-N, ESAN, ESB-N, ESNB, FC-N, FCN, SAS-N, SASN, SES-N, SESN, UAS-N, UASN}	
	OC3_NEAR_END_PARAMETERS:{AISS, CVL, CVS, ESL, ESS, ESA-L, ESA-S, ESB-L, ESB-S, FC-L, LOSS, PSC-L, PSD-L, SEFS, SESL, SESS, UASL},	
	OC3_FAR_END_PARAMETERS:{AISS, CVL, ESL, ESA-L, ESB-L, FC-L, SESL, UASL},	
	STS1_NEAR_END_PARAMETERS:{ALS-P, CVP, ESP, ESA-P, ESB-P, FC-P, SESP, UASP},	
	STS1_FAR_END_PARAMETERS:{ALS-P, CVP, ESP, ESA-P, ESB-P, FC-P, SESP, UASP},	
	STS3C_NEAR_END_PARAMETERS:{ALS-P, CVP, ESP, ESA-P, ESB-P, FC-P, SESP, UASP},	
	STS3C_FAR_END_PARAMETERS:{ALS-P, CVP, ESP, ESA-P, ESB-P, FC-P, SESP, UASP},	

UASP}
DS1_NEAR_END_PARAMETERS:{AISS, CVL, CVP, ESA-P, ESB-P, ESL, ESP, FC-P, LOSS, QRSSS-P, SAS-P, SESL, SESP, UASP},
DS1_FAR_END_PARAMETERS:{CSS, CVP, ESA-P, ESB-P, ESL, ESP, FC-P, SEFS, SESP, UASP}
DS3_NEAR_END_PARAMETERS:{AISS, CVCP-P, CVL, CVP, ESA-L, ESA-P, ESACP-P, ESB-L, ESB-P, ESBP-P, ESCP-P, ESL, ESP, FC-P, LOSS, SAS-P, SESP-P, SESL, SESP, UASCP-P, UASP},
DS3_FAR_END_PARAMETERS:{CVCP-P, ESACP-P, ESBP-P, ESCP-P, FCCP-P, SASCP-P, SESP-P, UASCP-P},
VT1_NEAR_END_PARAMETERS:{ALS-V, CVV, ESV, ESA-V, ESB-V, FC-V, SESV, UASV},
VT1_FAR_END_PARAMETERS:{ALS-V, CVV, ESV, ESA-V, ESB-V, FC-V, SESV, UASV},

Monitored Parameter Type, identifies the monitored PM parameter. Values are:

Values for EC1 Monitored PM Parameters are:

AISS	Alarm Indication Signal Seconds – Line, AISS register.
CVL	Coding Violations – Line, CV-L register.
ESL	Errored Seconds – Line, ES-L register.
ESA-L	Errored Seconds type A – Line, ESA-L register.
ESB-L	Errored Seconds type B – Line, ESB-L register.
FC-L	Failure Counts – Line, FC-L register.
LOSS	Loss Of Signal Seconds – Section, LOSS register.
SEFS	Severely Errored Frame Seconds – Section, SEFS-S register.
SESL	Severely Errored Seconds – Line, SES-L register.
UASL	Unavailable Seconds – Line, UAS-L register.

Values for F3 Monitored PM Parameters are:

CVN	Coding Violations – N, CV-N register contains a summary of CV-P counts for all DS1s assigned to the F3.
ESN	Errored Seconds – N, ES-N register contains a summary of ES-P counts for all DS1s assigned to the F3.
ESA-N	Errored Seconds type A – N, ESA-N register contains a summary of ESA-P counts for all DS1s assigned to the F3.
ESB-N	Errored Seconds type B – N, ESB-N register contains a summary of ESB-P counts for all DS1s assigned to the F3.
FC-N	Failure Count – N, FC-N register contains a summary of FC-P counts for all DS1s assigned to the F3.
SAS-N	Severe AIS Seconds – N, SAS-N register contains a summary of SAS-P counts for all DS1s assigned to the F3.
SESN	Severely Errored Seconds – N, SES-N register contains a summary of SES-P counts for all DS1s assigned to the F3.
UASN	Unavailable Seconds – N, UAS-N register contains a summary of UAS-P counts for all DS1s assigned to the F3.

Values for OC12 Monitored PM Parameters are:

AISS	Alarm Indication Signal Seconds – Line, AISS register.
CVL	Coding Violations – Line, CV-L register.
CVS	Coding Violations – Section, CV-S register.
ESL	Errored Seconds – Line, ES-L register.
ESS	Errored Seconds – Section, ES-S register.
ESA-L	Errored Seconds type A – Line, ESA-L register.
ESA-S	Errored Seconds type A – Section, ESA-S register.
ESB-L	Errored Seconds type B – Line, ESB-L register.
ESB-S	Errored Seconds type B – Section, ESB-S register.

FC-L	Failure Counts – Line, FC-L register.
LOSS	Loss Of Signal Seconds – Section, LOSS register.
PSC-L	Protection Switch Counts – Line, PSC-L register.
PSD-L	Protection Switch Duration – Line, PSD-L register.
SEFS	Severely Errored Frame Seconds – Section, SEFS-S register.
SESL	Severely Errored Seconds – Line, SES-L register.
SESS	Severely Errored Seconds – Section, SES-S register.
UASL	Unavailable Seconds – Line, UAS-L register.
Values for OC3 Monitored PM Parameters are:	
AISS	Alarm Indication Signal Seconds – Line, AISS register.
CVL	Coding Violations – Line, CV-L register.
CVS	Coding Violations – Section, CV-S register.
ESL	Errored Seconds – Line, ES-L register.
ESS	Errored Seconds – Section, ES-S register.
ESA-L	Errored Seconds type A – Line, ESA-L register.
ESA-S	Errored Seconds type A – Section, ESA-S register.
ESB-L	Errored Seconds type B – Line, ESB-L register.
ESB-S	Errored Seconds type B – Section, ESB-S register.
FC-L	Failure Counts – Line, FC-L register.
LOSS	Loss Of Signal Seconds – Section, LOSS register.
PSC-L	Protection Switch Counts – Line, PSC-L register.
PSD-L	Protection Switch Duration – Line, PSD-L register.
SEFS	Severely Errored Frame Seconds – Section, SEFS-S register.
SESL	Severely Errored Seconds – Line, SES-L register.
SESS	Severely Errored Seconds – Section, SES-S register.
UASL	Unavailable Seconds – Line, UAS-L register.
Values for STS-1 Monitored PM Parameters are:	
ALS-P	Alarm Indication Signal/Loss of Pointer – Path, ALS-P register.
CVP	Coding Violations – Path, CV-P register.
ESP	Errored Seconds – Path, ES-P register.
ESA-P	Errored Seconds type A – Path, ESA-P register.
ESB-P	Errored Seconds type B – Path, ESB-P register.
FC-P	Failure Counts – Path, FC-P register.
SESP	Severely Errored Seconds – Path, SES-P register.
UASP	Unavailable Seconds – Path, UAS-P register.
Values for STS-3C Monitored PM Parameters are:	
ALS-P	Alarm Indication Signal/Loss of Pointer – Path, ALS-P register.
CVP	Coding Violations – Path, CV-P register.
ESP	Errored Seconds – Path, ES-P register.
ESA-P	Errored Seconds type A – Path, ESA-P register.
ESB-P	Errored Seconds type B – Path, ESB-P register.
FC-P	Failure Counts – Path, FC-P register.
SESP	Severely Errored Seconds – Path, SES-P register.
UASP	Unavailable Seconds – Path, UAS-P register.
Values for DS1 Monitored PM Parameters are:	
AISS	AIS Seconds – Path, AISS register.
CSS	Controlled Slip Seconds – Path, CSS register.
CVL	Coding Violations – Line, CV-L register.
CVP	Coding Violations – Path, CV-P register.
ESA-P	Errored Seconds type A – Path, ESA-P register.
ESB-P	Errored Seconds type B – Path, ESB-P register.
ESL	Errored Seconds – Line, ES-L register.

ESP	Errored Seconds – Path, ES–P register.
FC–P	Failure Count – Path, FC–P register.
LOSS	Loss of Signal Seconds – Line, LOSS register.
QRSSS–P	QRSSS – Path, QRSSS–P register.
SAS–P	Severe AIS Seconds – Path, SAS–P register.
SEFS	Severely Errored Frame Seconds, SEFS register.
SESL	Severely Errored Seconds – Line, SES–L register.
SESP	Severely Errored Seconds – Path, SES–P register.
UASP	Unavailable Seconds – Path, UAS–P register.

Values for DS3 Monitored PM Parameters are:

AISS	AIS Seconds – Path, AISS register.
CVCP–P	Coding Violations, CP–bit parity – Path, CVCP–P register.
CVL	Coding Violations – Line, CV–L register.
CVP	Coding Violations – Path, CV–P register.
ESA–L	Errored Seconds type A – Line, ESA–L register.
ESA–P	Errored Seconds type A – Path, ESA–P register.
ESACP–P	Errored Seconds type A, CP–bit parity – Path, ESACP–P register.
ESB–L	Errored Seconds type B – Line, ESB–L register.
ESB–P	Errored Seconds type B – Path, ESB–P register.
ESBCP–P	Errored Seconds type B, CP–bit parity – Path, ESBCP–P register.
ESCP–P	Errored Seconds, CP–bit parity – Path, ESCP–P register.
ESL	Errored Seconds – Line, ES–L register.
ESP	Errored Seconds – Path, ES–P register.
FC–P	Failure Counts – Path, FC–P register.
FCCP–P	Failure Counts, CP–bit parity – Path, FC–P register.
LOSS	Loss Of Signal Seconds – Line, LOSS register.
SAS–P	Severe AIS Seconds – Path, SAS–P register.
SASCP–P	Severe AIS Seconds, CP–bit parity – Path, SASCP–P register.
SESCP–P	Severely Errored Seconds, CP–bit parity – Path, SESCP–P register.
SESL	Severely Errored Seconds – Line, SES–L register.
SESP	Severely Errored Seconds – Path, SES–P register.
UASCP–P	Unavailable Seconds, CP–bit parity – Path, UASCP–P register.
UASP	Unavailable Seconds – Path, UAS–P register.

Values for VT1.5 Monitored PM Parameters are:

ALS–V	Alarm Indication Signal/Loss of Pointer – VT Path, ALS–P register.
CVV	Coding Violations VT Path, CV–V register.
ESV	Errored Seconds VT Path, ES–V register.
ESA–V	Errored Seconds type A – VT Path, ESA–V register.
ESB–V	Errored Seconds type B – VT Path, ESB–V register.
FC–V	Failure Counts – VT Path, FC–V register.
SESV	Severely Errored Seconds VT Path, SES–V register.
UASV	Unavailable Seconds VT Path, UAS–V register.

MONVAL	{0–4294967295, NA} Monitored Parameter Value, indicates the measured value of the indicated MONTYPE being reported. Values are: 0–4294967295 Measured Value of the Monitored Parameter, value reported if VLDTY is not {NA}. NA Not Available, value reported if VLDTY is {NA}.
--------	--

VLDTY	{ADJ, COMPL, LONG, NA, OFF, PRTL}
	Validity, indicates whether the PM data being reported was accumulated over the entire time period or some portion thereof. Values are:
	ADJ Adjusted, the data was manually adjusted or initialized (via INIT-REG-rr).
	COMPL Complete, the data was accumulated over the entire time period.
	LONG Longer, the data was accumulated over a greater period of time than the indicated time period.
	NA Not Available, the data is not available.
	OFF Off, PM data collection for the entire time period was disabled (via SET-PMODE-rr).
	PRTL Partial, the data was accumulated over some portion of the time period, but not the entire time period.
LOCN	{FEND, NEND}
	Location, indicates whether a near-end or far-end monitored PM parameter is being reported. Values are:
	FEND Far-End
	NEND Near-End
DIRN	{NA, RCV}
	Direction, identifies the direction of the signal being monitored. Values are:
	NA Not Applicable, value reported for LOCN value of FEND.
	RCV Receive Side, value reported for LOCN value of NEND.
TMPER	{1-DAY}
	Time Period, identifies the accumulation time period for the indicated monitored PM parameter. Value is:
	1-DAY 1-Day (24 hour) PM collection period
MONDAT	{MONTH-DAY:{01-12} - {01-31} }
	Monitor Date, identifies the date when the PM collection period began. The format of MONDAT is <MONTH_OF_YEAR> - <DAY_OF_MONTH>.

EXAMPLES

The following example shows the autonomous REPT^PM^rr messages generated by the system as a result of a daily scheduled PM report with the MONLEV parameter (in the SCHED-PMREPT-ALL command) set to 1-UP (report measured PM parameter values greater-than or equal-to one). The example assumes there are no other monitored PM parameters to report other than those shown (e.g., other ports are not provisioned, PM reporting is inhibited for other ports, or other monitored parameters have a measured value below the MONLEV of 1-UP).

The autonomous responses, shown below, assumes a system generated ATAG value of 2469. The response header would contain the provisioned Site ID of the system, and the date and time the autonomous response was generated.

```

<SID> <YY-MM-DD> <HH:MM:SS>
A 2469 REPT PM OC3
"OC3-113:ESL,3,CMPL,NEND,RCV,1-DAY,08-18"
;

<SID> <YY-MM-DD> <HH:MM:SS>
A 2469 REPT PM OC3
"OC3-115:CVL,5,CMPL,FEND,NA,1-DAY,08-18"
;

<SID> <YY-MM-DD> <HH:MM:SS>
A 2469 REPT PM EC1
"EC1-196:CVL,8,CMPL,NEND,RCV,1-DAY,08-18"
;

```

```
<SID> <YY-MM-DD> <HH:MM:SS>
A 2469 REPT PM EC1
  "EC1-197:ESL,6,CMPL,FEND,NA,1-DAY,08-18"
;

<SID> <YY-MM-DD> <HH:MM:SS>
A 2469 REPT PM STS1
  "EC1STS1-198:CVP,7,CMPL,NEND,RCV,1-DAY,08-18"
;

<SID> <YY-MM-DD> <HH:MM:SS>
A 2469 REPT PM STS1
  "EC1STS1-199:ESP,11,CMPL,FEND,NA,1-DAY,08-18"
;

<SID> <YY-MM-DD> <HH:MM:SS>
A 2469 REPT PM VT1
  "OC3VT1-68-5-2:CVV,3,CMPL,NEND,RCV,1-DAY,08-18"
  "EC1VT1-341-2-6-4:ESV,13,CMPL,NEND,RCV,1-DAY,08-18"
;

<SID> <YY-MM-DD> <HH:MM:SS>
A 2469 REPT PM VT1
  "EC1VT1-198-2-4:ESV,15,CMPL,FEND,NA,1-DAY,08-18"
  "EC1VT1-343-1-7-1:ESA-V,10,CMPL,FEND,NA,1-DAY,08-18"
;

<SID> <YY-MM-DD> <HH:MM:SS>
A 2469 REPT PM T3
  "T3-1397:FC-P,14,CMPL,NEND,RCV,1-DAY,08-18"
  "T3-1492:UASP,15,CMPL,NEND,RCV,1-DAY,08-18"
;

<SID> <YY-MM-DD> <HH:MM:SS>
A 2469 REPT PM T3
  "T3-1447:UASCP-P,24,PRTL,FEND,NA,1-DAY,08-18"
;

<SID> <YY-MM-DD> <HH:MM:SS>
A 2469 REPT PM T1
  "T3T1-1007-20:ESP,5,CMPL,NEND,RCV,1-DAY,08-18"
  "T3T1-1009-8:AISS,7,PRTL,NEND,RCV,1-DAY,08-18"
  "T3T1-1018-15:CVP,14,CMPL,NEND,RCV,1-DAY,08-18"
;

<SID> <YY-MM-DD> <HH:MM:SS>
A 2469 REPT PM T1
  "T3T1-1023-28:ES-P,25,CMPL,FEND,NA,1-DAY,08-18"
  "T3T1-1345-22:CV-P,34,CMPL,FEND,NA,1-DAY,08-18"
;
```

RELATED COMMANDS

```
ALW-PMREPT-EC1
ALW-PMREPT-F3
ALW-PMREPT-OC12
ALW-PMREPT-OC3
ALW-PMREPT-STs1
ALW-PMREPT-STs3C
ALW-PMREPT-T1
ALW-PMREPT-T3
```

ALW-PMREPT-VT1
ED-PRVG-USER
ENT-EC1
ENT-F3
ENT-OC12
ENT-OC3
ENT-STS1
ENT-STS3C
ENT-T1
ENT-T3
ENT-VT1
ENT-USER
INH-PMREPT-EC1
INH-PMREPT-F3
INH-PMREPT-OC12
INH-PMREPT-OC3
INH-PMREPT-STS1
INH-PMREPT-STS3C
INH-PMREPT-T1
INH-PMREPT-T3
INH-PMREPT-VT1
INIT-REG-EC1
INIT-REG-F3
INIT-REG-OC12
INIT-REG-OC3
INIT-REG-STS1
INIT-REG-STS3C
INIT-REG-T1
INIT-REG-T3
INIT-REG-VT1
RTRV-PM-EC1
RTRV-PM-F3
RTRV-PM-OC12
RTRV-PM-OC3
RTRV-PM-STS1
RTRV-PM-STS3C
RTRV-PM-T1
RTRV-PM-T3
RTRV-PM-VT1
RTRV-PMODE-EC1
RTRV-PMODE-F3
RTRV-PMODE-OC12
RTRV-PMODE-OC3
RTRV-PMODE-STS1
RTRV-PMODE-STS3C
RTRV-PMODE-T1
RTRV-PMODE-T3
RTRV-PMODE-VT1
RTRV-PMSCHED-ALL
SCHED-PMREPT-ALL
SET-PMODE-EC1
SET-PMODE-F3
SET-PMODE-OC12

SET-PMODE-OC3
SET-PMODE-STS1
SET-PMODE-STS3C
SET-PMODE-T1
SET-PMODE-T3
SET-PMODE-VT1

RELATED AUTONOMOUS RESPONSES

REPT^EVT^EC1
REPT^EVT^OC12
REPT^EVT^OC3
REPT^EVT^STS1
REPT^EVT^STS3C
REPT^EVT^T1
REPT^EVT^T3
REPT^EVT^VT1

APPENDIX A. ACRONYMS AND ABBREVIATIONS

This appendix contains an alphabetized list of general terms, acronyms, mnemonics, and abbreviations used within this I/O manual and its related reference documents.

Appendix B, Access Identifiers (AIDs) provides an alphabetized list of all 1631 SX equipment names/mnemonics.

Appendix C, Condition Types provides a list of the equipment and facility standing (non-transient) condition types used in the 1631 SX.

Appendix D, Error Codes contains an alphabetized list of the Error Codes used in an unsuccessful response message by the 1631 SX.

Appendix F, Monitored PM Parameters provides a list of the facility performance monitoring parameters supported in the 1631 SX.

Appendix G, State Transitions provides a definition of the Primary and Secondary States (PST and SST) used in the 1631 SX.

A.1. Acronyms and Abbreviations

Shown below is an alphabetized list of general terms, acronyms, mnemonics, and abbreviations.

1631 SX	Alcatel 3/1 Digital Cross-Connect
1+1	A protection switching architecture where head end is permanently bridged
1:n	A protection switching architecture where any "n" head ends can be bridged to protection
%	No Automatic Login Parameter
AAID	Alternate Access Identifier
ACCMD	Access Mode
ACCTYPE	Access Type
ACO	Alarm Cutoff
ACOMODE	Alarm Cutoff Mode
ACT	Action
ACTUSERDM	ACT-USER Display Mode
ADDR	Address
ADDR1R	Address 1 Response
ADDR2R	Address 2 Response
ADDR1T	Address 1 Transmit
ADDR2T	Address 2 Transmit
ADRNGIPADR	Address Range Internet Protocol Address
ADRNGMASK	Address Range Mask
ADRNGNUM	Address Range Number
ADVFLAG	Advert Flag
AID	Access Identifier
AIDTYPE	Access Identifier Type
AISC	Alarm Indication Signal Insertion Criteria
AISF	Alarm Indication Signal Failure Substitution
AISPASS	Alarm Indication Signal Passed
AIST	Alarm Indication Signal Type
ALCATEL	Alcatel Maintenance Account
ALLDFLT	All Default
ALM	Alarm
ALTAID	Alternate Equipment Access Identifier
ALW	Allow
AMI	Alternate Mark Inversion

AMSGITMR	Autonomous Message Inactivity Timer
ANS	Alcatel Network Systems, Inc.
ANSAID	Alcatel Network Systems, Inc. Equipment Access Identifier
ANSI	American National Standards Institute
AOD	Automatic Offline Diagnostics
AP	Administration Processor
APPN	Application Name
APPV	Application Version
APS	Administration Processing System
APU	Administration Processing Unit
AREAID	Area Identifier
A,S,&C	Alarm, Surveillance, and Control
ASCII	American Standard Code for Information Interchange
ASIC	Application Specific Integrated Circuit
ASISPORT	Assist Port (Assisting Port)
ASN.1	Abstract Syntax Notation One
ASYNC	Asynchronous
ATAG	Autonomous Message Tag; an automatically generated tag for autonomous reports
ATM	Asynchronous Transfer Mode
ATTCNT	Attempt Count
ATTR	Attribute
ATTRS	Attributes
AUTCLK	Automatic Clock
AUTDAT	Automatic Data
AUTHKEY	Authentication Key
AUTHTYPE	Authentication Type
AUTOIN	Automatic login
AUTOVTRINGAIS	Automatic transmit VT path AIS
AVAILPOOL	Available Pool of VT1.5s
AXM	SX Administrative Cross-Connect Manager Subsystem
BAUD	Modem Baud Rate
BCC	Bell Client Company
BDCST	Broadcast
Bellcore	Bell Communications Research, Inc.
BER	Bit Error Rate
BERSLT	Bit Error Test Result
BHC	Bell Holding Company
BOC	Bell Operating Company
BPV	Bipolar Violations
BRDCSTADR	Broadcast Address
BUFLOC	Buffer Location
BYTERX	Number of Bytes Received
BYTETX	Number of Bytes Transmitted
CAL	Community Authorization Level
CANC	Cancel
CARDID	I/O Equipment Card Identifier
CBIT	C-Bit Loopback
CBLENGTH	Cable Length
CCAL	Command Code Authorization Level
CCITT	Consultative Committee for International Telegraph and Telephone
CCFC	Command Code Functional Category
CCM	Cross-Connect Map
CCN	Cross-Connect Network

CCT	Cross—Connect Type
CEPT	Conference of European Posts and Telegraphs
CFC	Community Functional Category
CFCI	Community Functional Category, Input
CFCO	Community Functional Category, Output
CHANL	Channel
CHG	Change
CIECRA	Customer Installation Equipment Circuit Record Address
CLEI	Common Language Equipment Identifier
CLKMDE	Clock Mode
CLKREF	Clock Reference
CLKSTAT	Clock Status
CLLI	Common Language Location Identifier
CMD	Command
CMDMDE	Command Mode
COND	Condition
CONDTYPE	Condition Type
CONF	Conference
<i>Configured Size</i>	The system configuration size as defined in the system database
CONN	Connect(ion)
CONTBUS	SPB Control Bus Interface Failure
CONTROLT	Control Field Transmit
CONTSTAT	Control Status
COUNT	Integer Count
CPD	Circuit Provisioning Data
CPE	Customer Premise Equipment
CPI	Card Presence Indicator
CPORT	Control Port
CRC	Cyclic Redundancy Code or Cyclic Redundancy Check
CRFLAG	Carrier/Response Flag
CRS	Cross—Connect
CRT	Cathode Ray Tube or Customer Response Team
CS	Center Stage
CS1TYPE	Center Stage #1 Type
CSDB	Command Security DataBase
CSU	Customer Service Unit
CTAG	Correlation Tag
CURPROT	Current Protection
DA	Delayed Activation
DAT	Date
DATABUS	Data Bus (Data Path) Error in Bay
DATCOPY	Data Copy
DATE	Date
DB	Data Base
DBCHG	Data Base Change
DBRID	Database Release Identification
DBSID	Database Site Identification
DCC	Data Communications Channel
DCCTYPE	Data Communications Channel Type
DCE	Data Circuit Termination Equipment or Data Communication Equipment

DCP	Data Collection Processor
DCS	Digital Cross-Connect System
DELD	Delayed
DESTTYPE	Destination Type
DETAID	Detecting Access Identifier
DFLT	Default
DFLTSIG	Default Signal
DGN	Diagnose
DIAG	Diagnostics
DID	Directory Identifier
DIG	Di-Group
DIO	Data Input/Output
DIRN	Direction
DISC	Disconnect
DISCRX	Number of Disconnect Frames Received
DISCTX	Number of Disconnect Frames Transmitted
DIST	Distance
DLT	Delete
DM	Display Mode
DMA	Direct Memory Access
DMX	Data Matrix
DOM	Day-of-Month
DOSCNT	Defect Oscillation Count
DOSCNTDUR	Defect Oscillation Duration Time
DOSHOLD	Defect Oscillation Hold Time
DQDB	Distributed Queue Duel Bus
DRAM	Dynamic Random Access Memory
DS	Data Suspect
DSx	Digital Signal of Unspecified Rate
DS0	Digital Signal Level 0 (56/64 Kilobits/second)
DS1	Digital Signal Level 1 (1.544 Megabits/second, contains 24 DS0s)
DS2	Digital Signal Level 2 Channel
DS3	Digital Signal Level 3 (44.736 Megabits/second, contains 28 DS1s)
DS3PTYEL	DS3 Yellow Behavior
DS4NA	Digital Signal Level 4 North America
DSKBFIND	Disk Buffer Find indicator
DSKPTN	Disk Partition
DSP	Digital Signal Parameter or Digital Signal Processing
DSU	Data Service Unit
DTAU	Digital Test Access Unit
DTE	Data Terminal Equipment
DUIO	Data Upstream Input/Output
DUMX	Data Upstream Matrix
DX	Duplex
DXC	Digital Cross-Connect Control
EBER	Excessive BER switching threshold
ED	Edit
EEPROM	Electrically Erasable Programmable Read Only Memory
EIA	Electronic Industries Association
ENAB	Enable Switch
ENRENUM	Enter Release Number
ENT	Enter
EPROM	Electrically Programmable Read Only Memory

EQPT	Equipment
<i>Equipped Size</i>	Total amount of equipment required to provide service to some maximum port capacity. The equipped size must be less than or equal to the configured size.
ERR1	Error in Leaf 1
ERR2	Error in Leaf 2
ERR3	Error in Leaf 3
ERR4	Error in Leaf 4
ES	End Stage Matrix Element or Errored Seconds
ES{1–4}TYPE	End Stage #1–4 Type
ES1AID	ES1 AID
ES1RSLT	ES1 Result
ESH	End System Hello
ESNUM	End Stage Number
EVT	Event
EXCOL	Number of Excessive Collisions detected
EXPTRC	Expected Path Trace
FACT	Facility Side of the TACC Connection, Port Number
FACTYPE	Facility Type
FAD	Facility Access Di-Group
FAILDET	Failure Detection
FDD	Feature Design Document
FDDI	Fiber Distributed Data Interface
FDL	Facility Data Link; an 8 Kilobit overhead channel in an ESF DS1 signal
FDLPM	Facility Data Link Performance Monitoring
FEAC	Far End Alarm and Control
FEMETHOD	Far-End PM Data Collection Method
FENDALM	Far End Alarm Condition
FENDNTE	Far-End NTE Performance Monitoring Terminal Type
FETPM	Far End TABs Performance Monitoring Mode
FI	Fault Isolation
FIC	Facility Identity Code or Frame Identification Code
FIO	Facility Input/Output
FIRMN	Firmware Name
FIRMV	Firmware Version
FL	Fault Locate
FLAG	Flag Value
FLTPRO	Fault Propagation
FLTYPE	Fault Retrieval Type
FMT	Framing Format
FMX	Facility Matrix
FRCD	Forced
FRDATM	From Date and Time
FRMRERR	Number of Frame Reject Errors
FRMRRX	Number of Frame Reject Frames Received
FRMRTX	Number of Frame Reject Frames Transmitted
FRMRX	Number of Frames Received
FRMTX	Number of Frames Transmitted
FS	Facility Suspect
FSD	Feature Scope Document
FTP	File Transfer Protocol
FTPPID	File Transfer Protocol Password Identifier

FTPUID	File Transfer Protocol User Identifier
FUIO	Facility Upstream Input/Output
FUMX	Facility Upstream Matrix
GATEWAYADR	Gateway Address
<i>Generic Upgrade</i>	The process of upgrading the system software from one release to the next generic software release
GOS	Grade of Service
GROUP1	Group 1 Security Code
GROUP2	Group 2 Security Code
GROUP3	Group 3 Security Code
<i>Growth</i>	Increasing the port capacity up to the maximum matrix capacity
GT2AID	GT2 AID
GT2RSLT	GT2 Result
GT3AID	GT3 AID
GT3RSLT	GT3 Result
GTAR	Global Trouble Activity Reporting System
HDLC	High-Level Data Link Control protocol
HDR	Header
HELLOINTVL	Hello Intervals
HIPVC	Highest PVC Number
HISVC	Highest Incoming SVC Number
HLD	High-Level Design
HOD	Hour-of-Day
HOSVC	Highest Outgoing SVC Number
HTSVC	Highest Two-way SVC Number
HW	Hardware
Hz	Hertz
ICDELAY	Inter-Command Delay
ICL	Interface Control Link
ID	Identification
IDL	Idle Condition
IDLE	Idle Signal Transmit Type
IDRSLT	Identification Result
IEEE	Institute of Electrical and Electronics Engineers
IFRX	Number of Information Frames Received
IFTX	Number of Information Frames Transmitted
IID	Image Identification
IMED	Immediate
INH	Inhibit
INHMODE	Inhibit Mode
INIT	Initialize
INITZN	Initialization
<i>In Service</i>	Ability to carry revenue-bearing payloads on provisioned and connected facilities
INTFTXDL	Interface Transmit Data Link
I/O	Input/Output
IP	In Progress or Internet Protocol
IPADDR	Internet Protocol Address
IPNEXT	Include Part Number Extension
ISGLP	In-Service Growth Loopback
ISID	Idle Signal Identifier
ISLEVEL	Intermediate System Level
ISO	International Standards Organization

ISTYPE	Intermediate System Type
ISUKEY	In-Service Upgrade Key
ITAG	Informational Message Tag
ITER	Iterations
ITM	Installation Test and Maintenance
ITS	Integrated Test System; a Bell OS
K2GEN	K2 bits 1–4 Generation
KAMINTVL	Keep Alive Message Interval
KHz	Kilo Hertz
KWIN	Level 2 Window Size
L2IF	Layer 2 Outstanding I Frame
L2INFO	Layer 2 Information Field
L2MAXCALLS	Maximum Number of Layer 2 Retries
L2NOA	Layer 2 No Activity Timer
L2RCALLTMR	Layer 2 Link Access Protocol on the D-channel Controller
L2REX	Layer 2 Retransmission Count
L2SIDE	Layer 2 User Side/Network Side
L2WAIT	Layer 2 Waiting Acknowledge Timer
L3CSNPINTTMR	Layer 3 Complete Sequence Numbers Protocol Interval Timer
L3DFI1	Layer 3 Domain Format Identifier 1
L3DFI2	Layer 3 Domain Format Identifier 2
L3DFI3	Layer 3 Domain Format Identifier 3
L3DL1ISP	Layer 3 Designated Level 1 Intermediate System Priority
L3DL2ISP	Layer 3 Designated Level 2 Intermediate System Priority
L3DRISISHT	Layer 3 drISIS Hello Timer
L3ER	Layer 3 Error Report
L3ESCTMR	Layer 3 End System Configuration Timer
L3ESISHTMR	Layer 3 End System/Intermediate System Holding Time Multiplier
L3IDP1	Layer 3 Initial Domain Part 1
L3IDP2	Layer 3 Initial Domain Part 2
L3IDP3	Layer 3 Initial Domain Part 3
L3IS1LSPBS	Layer 3 Intermediate System Level 1 Link State Protocol Buffer Size
L3IS2LSPBS	Layer 3 Intermediate System Level 2 Link State Protocol Buffer Size
L3ISCTMR	Layer 3 Intermediate System Configuration Timer
L3ISISHTMR	Layer 3 Intermediate System/Intermediate System Hello Timer
L3ISLEVEL	Layer 3 Intermediate System Level
L3ISLVL2NDS	Layer 3 Intermediate System Level 2 Nodes
L3ISPRTREP	Layer 3 Intermediate System Partition Repair
L3LC	Layer 3 Lifetime Control
L3MAXLSPGENINT	Layer 3 Maximum Link State Protocol Transmission Interval
L3MINBLSPXMTINT	Layer 3 Minimum Broadcast Link State Protocol Transmission Interval
L3MINLSPXMTINT	Layer 3 Minimum Link State Protocol Transmission Interval
L3ORG1	Layer 3 Organization Identifier 1
L3ORG2	Layer 3 Organization Identifier 2
L3ORG3	Layer 3 Organization Identifier 3
L3POLLESHRT	Layer 3 Poll End System Hello Rate
L3PSNPINTTMR	Layer 3 Partial Sequence Numbers Protocol Timer Interval
L3RDTMR	Layer 3 Redirect Timer
L3RES1	Layer 3 Reserved Space 1
L3RES2	Layer 3 Reserved Space 2
L3RES3	Layer 3 Reserved Space 3
L3ROU1	Layer 3 Routing Domain 1
L3ROU2	Layer 3 Routing Domain 2

L3ROU3	Layer 3 Routing Domain 3
L3WAITTM	Layer 3 Waiting Time
L3WIN	Level 3 Window Size
LA	Link Association
LAN	Local Area Network
LAPB	Link Access Procedure, Balanced
LAPD	Link Access Procedure, D-channel or Link Access Protocol, D-channel
LBO	Line Build Out
LCN	Local Communication Network or Logical Channel Number
LCTN	Location
LDB	Loop Detection Buffer
LEAF1	Leaf 1
LEAF2	Leaf 2
LEAF3	Leaf 3
LEAF4	Leaf 4
LEV	Level
LFACS	Loop Facilities Assignment and Control System; a Bell OS
LHSTYPE	Lower-Half Shelf Type
LINECDE	Line Code
LINENUM	Line Number
LISVC	Lowest Incoming SVC Number
LKOT	Lockout Time
LMC	Large Matrix Configuration
LNKTMR	Control Link Timer
LOA	Loss of Activity
LOCN	Location
LOI	Letter of Intent
LOSVC	Lowest Outgoing SVC Number
LOTO	Logout on Timeout
LPBK	Loopback
LPBKTYPE	Loop Back Type
LSES	Last Session
LSP	Link State Protocol
LTSVC	Lowest Two-Way SVC number
LTE	Line Terminating Element
M13	Multiplex/demultiplex DS1 to/from DS3
MAC	Media Access Control
MAINTNCE	Maintenance
MAN	Manual
MANADRNUM	Manual Area Address Number
MATEAID	Mate Access Identifier
MAX	Maximum
MAXFNBR	Maximum Disk Buffer Files Number
MAXFSIZE	Maximum Disk Buffer Size
MHz	Megahertz
MINUS	Minus Operation
MIPINTVL	Multiple In Progress Interval
MML	Man/Machine Language
MODE	Test Access Mode
MODEM	Modulator-Demodulator
MODETYPE	Performance Monitoring Mode Type
MOH	Minute-of-Hour

MONCNT	Monitor Count
MONDAT	Monitor Date
MONLEV	Monitor Count Level
MONTM	Monitor Time
MONTYPE	Monitor Type
MONVAL	Monitor Value
MOY	Month-of-Year
MRA	SX Maintenance Resource Administration Subsystem
MSG	Message
MSGTYPE	Message Type
MTEXT1	Message Text 1 Transmit
MTEXT2	Message Text 2 Transmit
MTPGPL	Mate Power Group Power Level
MTXCOPY	Matrix Copy
MTXINTF	Matrix Interface
MTXSTYPE	Matrix Shelf Type
MTXTYPE	Matrix Type
MUX	Multiplexer
mV	millivolts
N2	Number of Retries (X.25) Count
NAS	North American Standard
NCTE	Network Channel Terminating Equipment
NE	Network Element
NEBS	Network Equipment Building System
NENDALM	Near End Alarm Condition
NETMASK	Subnet Mask
NEWPID	New Password Identifier
NG	No Good
NMA	Network Monitoring and Analysis; a Bell OS
NODEID	Node Identifier
NODENAME	Transmission Control Protocol/Internet Protocol Network Name
NRM	Normal Response Mode
NSAP	Network Service Access Point
NSDU	Network Service Data Unit
NTE	Network Terminal Equipment
NTFCNCDE	Notification Code
NUM1DAY	Number of 1-Day Historic Registers
NUM15MIN	Number of 15-Minute Historical Registers
NUMAREA	Number Areas
NUMADDRNG	Number of Address Ranges
NUMINVL	Number of Intervals
NUMREPT	Number of Reports
NUN	Number of Unsuccessful Session Attempts
OAM&P	Operations, Administration, Maintenance, and Provisioning
OC3	TL1 parameter value for Optical Carrier level 3
OC-3	Optical Carrier level 3
OCRDAT	Occurrence Date
OCRTM	Occurrence Time
ODO	Out-of-Dialog Output
OK	Okay
OLDPID	Old Password Identifier
OMODE	Operational Mode
ON	Order Number

ONLNSTAT	On-Line Status
OPR	Operate or Operation
OPS	Operations
OPS/INE	Operations Process System for Intelligent Network Elements; a Bell OS
ORDER	Order Number
ORGN	Origin
OS	Operations System or Operations Support System
OSADDR	Operations System Address
OSCHAN	Operations System Channel
OSI	Open Systems Interconnect
OSL	Output Subscription Level
OSMINE	Operations Systems Modifications for the Integration of Network Elements
OSPF	Open Short Path First
OSPFSTAT	Open Short Path First Status
OSPORT	Operations System Port
OSS	Operations Support System
OSTYPE	Operations System Type
OTGR	Operations Technology Generic Requirements
P1-P22	Parameter 1 through Parameter 22
PARAMS	Parameters
PARM	Parameter
PARTITN	Partition
PARTNAM	Partition Name
PBX	Private Branch Exchange
PDIDET	Path Defect Indication Detection
PDIGEN	Path Defect Indicator Generation
PF	Printout Follows
PFO	Premium Feature Option (uniquely identified via a customer order number)
PGPL	Power Group Power Level
PH	Phase
PID	Password Identifier or Path Identifier
PLATMRA	SX Platform MRA; the MRA subsystem for common equipment
PLUS	Plus Operation
PM	Performance Monitoring
PMATTR	Performance Monitoring Attribute
PMMETHOD	Performance Monitoring Method
PMMODE	Performance Monitoring Mode
PMODE	User Partition Display Mode
PMREPT	Performance Monitoring Report
PMSCHED	Performance Monitoring Schedule
PMSTATE	Performance Monitoring State
PNAM	Process File Name
p-p	peak-to-peak
PRMTR	Parameter
PROCID	Process Identifier Keyword
PROCSTAT	Process Status
PROCTYPE	Processor Type
PROTOCOL	Control Port Protocol
PROTSTAT	Protection Status
PROTSW	Protection Switch

PRP	Preliminary Release Plan
PRVG	Privilege(d)
PS	Protection Switch(ing)
PSDIRN	Direction of Protection Switching
PST	Power Supply, Twelve Volts or Primary State
PSWD	Password
PTE	Path Terminating Element
PVC	Private Virtual Circuit or Permanent Virtual Circuit
QTYPE	Quad Type
RAM	Random Access Memory
RBOC	Regional Bell Operating Company
R&D	Research and Development
RDEADINTVL	Router Dead Interval
RDI	Remote Defect Indication
REG	Register
REJRX	Number of Reject Frames Received
REJTX	Number of Reject Frames Transmitted
REL	Release
REPT	Report
REPTINVL	Report Interval
REV	Revision
RFI	Radio Frequency Interference
RFROM	Roll From
RIP	Routing Information Protocol
RIPMODE	Routing Information Protocol Mode
RIPSTAT	Routing Information Protocol Status
RL	Repeat Later
RLS	Release
RMAS	Remote Memory Administration System
RMODE	Rolling Mode
RMV	Remove
rms	root mean square
RNR	Receiver Not Ready
RNRRX	Number of Receiver Not Ready Frames Received
RNRTX	Number of Receiver Not Ready Frames Transmitted
ROM	Read Only Memory
RPGM	Reprogram
RPLSHELF	Replacement Shelf
RPRIORITY	Router Priority
RPTIME	Report Time
RSML	Response Message Length
RSPLKSTAT	Remote Status Panel Lock Status
RST	Restore
RTO	Roll To
RTRV	Retrieve
RTRVTYPE	Retrieval Type
RTU	Remote Test Unit
RUSURE	Are You Sure Prompt
RVRTV	Revertive Mode
RXMTINTVL	Retransmission Interval
S148	SONET I/O 48 DS3/STS1 Shelf

S1TRANS	S1 byte to be transmitted
SABMERR	Number of Set Asynchronous Balanced Mode Frames In Error
SABMRX	Number of Set Asynchronous Balanced Mode Frames Received
SABMTX	Number of Set Asynchronous Balanced Mode Frames Transmitted
SARTS	Switched Access Remote Test System
SC	Switch Command
SCC	Serial Communication Controller
SCHED	Schedule
SCRIPTNAME	Privileged Command Script Name
SCSI	Small Computer System Interface
SDTHSW	Signal Degrade Threshold Switching
SID	System Identification
SIGSRC	Signal Source
SIGTO	Signal Timeout
SIZE	Size
SKIPTOEND	Skip to End of Saved Output
SNIDER	Asynchronous ASCII Echoplex Protocol
SNP	Sequence Numbers Protocol
SOM	Second-of-Minute
SONET	Synchronous Optical Network
SPBTYPE	SPB Equipment Type
SPE	Synchronous Payload Envelop
SRC	Idle Signal Source Port
SRVEFF	Service Effect
SST	Secondary State
STAT	Status
STATE	State
STATICRTNUM	Static Routing Number
STATICRTST	Static Routing Status
STATUS	Status
STBY	Standby
STS1	TL1 parameter value for Synchronous Transport System Level 1
STS-1	Synchronous Transport System Level 1
STS3C	TL1 parameter value for Synchronous Transport System Level 3C
STS3-C	Synchronous Transport System Level 3C
STSMAP	STS Payload Mapping
STSPTYEL	STS Path Yellow Behaviour
STUBDFLCOST	Stub Default Link Cost
STUBOPT	Stub Option
STWR	Software
STYPE	Shelf Type
SUSAID	Suspected Access Identifier
SVC	Switched Virtual Circuit
SW	Switch
SWITCHTO	Switch to Reference
SWTOPROTN	Switch to Protection
SWTOWKG	Switch to Working
SX	Identifier for Alcatel's Digital Cross-Connect Product Family
SXECRA	1631SX Equipment Circuit Record Address
SYNC	Synchronous
SYNCCNT	Synchronous Count
SYNCMODE	Synchronization Mode
SYNCMSG	Synchronization Message

SYNCTIME	Synchronous Time
SYS	System
SYSTMSG	Synchronization Status Message
T1	Transmission Carrier Level 1 or Login Retry (X.25) Timer
T3	Transmission Carrier Level 3
T4	No-Activity (X.25) Timer
TABS	Telemetry Asynchronous Block, Serial
TACC	Test Access
TAP	Test Access Path
TAPE CRC	Tape Cyclic Redundancy Check
TAPP	Test Access Port Pair
TAPPOOL	TAP Port Pool
TAR	Trouble Activity Report
TARP	Target Identification Address Resolution Protocol
TARPLDBFLSHTMR	Target Identification Address Resolution Protocol Loop Detection Buffer Flush Timer
TARPLDBENTTMR	Target Identification Address Resolution Protocol Loop Detection Buffer Entry Timer
TARPSEQ	Target Identification Address Resolution Protocol Sequence Number
TARPSYSID	Target Identification Address Resolution Protocol System Identification
TCA	Termination Crossing Alert
TCP	Transmission Control Protocol
TERMT	Termination Type
TESTDURN	Test Duration
TEXTLINE	Message Text Line
TESTTYPE	Test Type
TH	Threshold
THLEV	Threshold Level
TID	Target Identification
TIME	Time
TIMEGE	Trigger Time Greater Than or Equal to Keyword
TIMELE	Trigger Time Less Than or Equal to Keyword
TIO	Timing Input/Output
TL	Terminate and Leave
TL1	Transaction Language 1
TL1_CMD	Transaction Language 1 Command
TLS	Terminate and Leave Status
TLSA	Terminate and Leave Status of FADA in a TACC Connection
TLSB	Terminate and Leave Status of FADB in a TACC Connection
TM	Time
TMGREF	Timing Reference
TMN	Telecommunications Management Network
TMPER	Time Period
TMX	Timing Matrix
TOD	Time-of-Day
TODATM	To Date and Time
TOPROTN	To Protection
TOSCAP	Type of Service Capability
TOWKG	To Working
TP	Termination Point
TRC	Path Trace Message
TRM	Termination Module
TRYOTHER	Try Other Backup Device Option
TS	Timing Suspect

TSC	Test Session Controller
TSGRP	Test Signal Generator/Receiver Port
TSI	Timeslot Interchange (Function or Circuit-Pack)
TSID	Test Signal Identifier
TST	Test Access Ports
TTY	Teletype Terminal
TTYTYPE	Trigger Type
TUIO	Timing Upstream Input/Output
TUMX	Timing Upstream Matrix
TYPE	Type of Device
UART	Universal Asynchronous Receiver/Transmitter
UAS	Unavailable Seconds
UCAL	User Community Authorization Level
UCFC	User Community Functional Category
UCFCI	User Community Functional Category, Input
UCFCO	User Community Functional Category, Output
UHSTYPE	Upper-Half Shelf Type
UI	Unit Interval
UID	User Identifier
UIFRX	Number of Unnumbered Information Frames Received
UIFTX	Number of Unnumbered Information Frames Transmitted
UNAM	User Name
UNPROV	Unprovisioned
UPGRDTYP	Upgrade Type
USDB	User Security Database
USI	User System Interface
VA	Volt Ampere
VALIDATE	Validate Addresses
VC	Virtual Channel
VCNUM	Virtual Channel Number
VCTYPE	Virtual Channel Type
VDT	Video Display Terminal
VER	Verify or Version
VERSION	Version Number
VLDTY	Validity Indicator
VSN	Version
VT	Virtual Tributary
VT1	TL1 parameter value for Virtual Tributary Level 1.5
VT1.5	Virtual Tributary Level 1.5
VT2	Virtual Tributary Level 2
VTMAP	VT1.5 Payload Type
VTPTYEL	VT1.5 Path Yellow Behaviour
WAITTIME	Wait Time
WAN	Wide Area Network
WARN	Warning
WDCS	Wideband Digital Cross-Connect System
WTRTIME	Wait to Restore Time
WTSDEL	Wait to Switch Delay
X.25	CCITT Data Transmission Protocol defining Layers 1 through 3
X25COA	X.25 Call Out Address
XBITRCV	Receive X-Bit Translation
XIDRX	Number of Exchange ID Frames Received

XIDTX	Number of Exchange ID Frames Transmitted
XMIT	Transmit
XMT	Transmit (Function or Module)
XON	XON(/XOFF) Protocol
XPOL	Transmit X-bit Polarity
YEL	Yellow Signal

APPENDIX B. ACCESS IDENTIFIERS (AIDS)

This appendix provides:

- A description of the AID formats used in the system. Refer to section B.1.
- A diagram of the system's equipment (default) rack numbering and associated shelf numbering. Refer to section B.2.
- An alphabetized list of the equipment names/mnemonics and the associated (default) value set for each equipment Access Identifier (AID). Refer to Section B.3.
- A cross-reference between the (default) facility AIDs and (default) I/O equipment AIDs used in the system.

Section B.4. provides a cross-reference of (default) facility AIDs vs. (default) I/O Equipment AIDs for SI48 Racks.

Section NO TAG provides a cross-reference of (default) facility AIDs vs. (default) I/O Equipment AIDs for SI36 Racks.

Section NO TAG provides a cross-reference of (default) facility AIDs vs. (default) I/O Equipment AIDs for DS3 or DS1 Racks. This appendix shows AID value sets for both Alcatel (default) and Alternate AIDs. The AIDs value set to be used at a particular site are determined prior to system installation. Note that only the AID value sets are different; the format of AIDs are the same for both value sets. Refer to other customer documentation or contact the Alcatel Technical Assistance Center for additional information concerning the AID value sets.

B.1. AID Formats

An AID value directs an input command to its intended equipment, facility, or data entity. Both Alcatel (default) and Alternate AID value sets can be used. Refer to Section B.3. for AID value sets for equipment and to Sections B.4. through NO TAG for AID value sets for facilities. The AID formats supported in the system are:

- **Equipment** entities are referenced by a compound AID value consisting of a four- or five-part combined equipment name/physical location identifier. Two AID formats are used for equipment AIDs:
 - The **General Equipment AID** format is:
N-R-Sh-S where:
N = the assigned name for the equipment,
R = the number of the rack/bay where the equipment is located or installed,
Sh = the number of the shelf within the rack where the equipment is located,
S = the slot or location number of the equipment within the shelf.
 - The **GTI Cable Equipment AID** format is:
N-R-Sh-S-aa where:
N = the assigned name for the GTI cable,
R = the number of the rack/bay where the equipment is located or installed,
Sh = the number of the shelf within the circuit pack that terminates the GTI signal is located or installed,
S = the slot or location number of the circuit pack within the shelf, and
aa = the relative GTI cable number within the circuit pack slot.
- **OC-3** facilities are referenced by a compound AID value consisting of a two part combined facility name/logical identifier. The format for an OC3 AID value is:
OC3-aaaa where:
aaaa = the logical OC-3 port number within the system.

- **OC-12** facilities are referenced by a compound AID value consisting of a two part combined facility name/logical identifier. The format for an OC12 AID value is:
OC12-*aaa* where:
aaa = the logical OC-12 port number within the system.
- **EC1** facilities are referenced by a compound AID value consisting of a two part combined facility name/logical identifier. The AID format for an EC1 is
EC1-*aaaa* where:
aaaa = the logical EC1 port number within the system.
- **STS-1** facilities are referenced by a compound AID value consisting of a two or three part combined facility name/logical identifier. Three AID formats are used for STS-1 AIDs:
 - **Constituent STS-1 embedded within an OC3** AID format is:
OC3STS1-*aaaa-b* where:
aaaa = the logical OC-3 port number within the system, and
b = the relative STS-1 port number within the OC-3.
 - **Constituent STS-1 embedded within an OC12** AID format is:
OC12STS1-*aaa-b-c* where:
aaa = the logical OC-12 port number within the system, and
b = the relative STM1 within the OC-12 and
c = the relative STS-1 port number within the STM1.
 - **Constituent STS-1 embedded within an EC1** AID format is:
EC1STS1-*aaaa* where:
aaaa = the logical EC1/STS1 port number within the system.
- **STS-3C** facilities are referenced by a compound AID value consisting of a two part combined facility name/logical identifier. Two AID formats are used for STS-3C AIDs:
 - **Constituent STS-3C embedded within an OC3** AID format is:
OC3STS3C-*aaaa* where:
aaaa = the logical STS-3C/OC-3 port number within the system.
 - **Constituent STS-3C embedded within an OC12** AID format is:
OC12STS3C-*aaa-b* where:
aaa = the logical OC-12 port number within the system, and
b = the relative STM1/STS-3C within the OC-12
- **VT1.5** facilities are referenced by a compound AID value consisting of a four or five part combined facility name/logical identifier. Three AID formats are used for VT1.5 AIDs:
 - **Constituent VT1.5 embedded within an OC3** AID format is:
OC3VT1-*aaaa-b-c-d* where:
aaaa = the logical OC-3 port number within the system, and
b = the relative STS-1 port number within the OC-3, and
c = the relative VT Group number within the STS-1, and
d = the relative VT1.5 port number within the VT Group.
 - **Constituent VT1.5 embedded within an OC12** AID format is:
OC12VT1-*aaa-b-c-d-e* where:
aaa = the logical OC-12 port number within the system, and
b = the relative STM1 within the OC-12, and
c = the relative STS-1 port number within the STM1, and
d = the relative VT Group number within the STS-1, and
e = the relative VT1.5 port number within the VT Group.
 - **Constituent VT1.5 embedded within an EC1** AID format is:
EC1VT1-*aaaa-b-c* where:
aaaa = the logical EC1/STS1 port number within the system, and
b = the relative VT Group number within the STS-1, and
c = the relative VT1.5 port number within the VT Group.
- **DS3** facilities are referenced by a compound AID value consisting of a two or three part combined facility name/logical identifier. Four AID formats are used for DS3 AIDs:

- **Electrical DS3 AID format is:**
T3-aaaa where:
aaaa = the logical DS3 port number within the system.
- **Constituent DS3 embedded within an EC1 AID format is:**
EC1T3-aaaa where:
aaaa = the logical EC1 port number within the system.
- **Constituent DS3 embedded within an OC3 AID format is:**
OC3T3-aaaa-b where:
aaaa = the logical OC-3 port number within the system, and
b = the relative STS-1/DS3 port number within the OC-3.
- **Constituent DS3 embedded within an OC12 AID format is:**
OC12T3-aaa-b-c where:
aaa = the logical OC-12 port number within the system, and
b = the relative STM1 within the OC-12, and
c = the relative STS-1/DS3 port number within the STM1.
- **DS1 facilities are referenced by a compound AID value consisting of a two, three, four, or five part combined facility name/logical identifier. Six AID formats are used for DS1 AIDs:**
 - **Constituent DS1 embedded within a DS3 loaded OC3 AID format is:**
OC3T1-aaaa-b-cc where:
aaaa = the logical OC-3 port number within the system, and
b = the relative STS-1/DS3 port number within the OC-3, and
cc = the relative DS1 port number within the DS3.
 - **Constituent DS1 embedded within a DS3 loaded OC12 AID format is:**
OC12T1-aaa-b-c-dd where:
aaaa = the logical OC-12 port number within the system, and
b = the relative STM1 within the OC-12, and
c = the relative STS-1/DS3 port number within the STM1, and
dd = the relative DS1 port number within the DS3.
 - **Constituent DS1 embedded within a VT1.5 loaded OC3 AID format is:**
OC3T1-aaaa-b-c-d where:
aaaa = the logical OC-3 port number within the system, and
b = the relative STS-1 port number within the OC-3, and
c = the relative VT Group number within the STS-1, and
d = the relative VT1.5/DS1 port number within the VT Group.
 - **Constituent DS1 embedded within a VT1.5 loaded OC12 AID format is:**
OC12T1-aaa-b-c-d-e where:
aaa = the logical OC-12 port number within the system, and
b = the relative STM1 number within the OC-12, and
c = the relative STS-1 port number within the STM1, and
d = the relative VT Group number within the STS-1, and
e = the relative VT1.5/DS1 port number within the VT Group.
 - **Constituent DS1 embedded within a DS3 loaded EC1 AID format is:**
EC1T1-aaaa-bb where:
aaaa = the logical EC1/STS-1/DS3 port number within the system, and
bb = the relative DS1 port number within the DS3.
 - **Constituent DS1 embedded within a VT1.5 loaded EC1 AID format is:**
EC1T1-aaaa-b-c where:
aaaa = the logical EC1/STS-1 port number within the system, and
b = the relative VT Group number within the STS-1, and
c = the relative VT1.5/DS1 port number within the VT Group.
 - **Constituent DS1 embedded within an electrical DS3 AID format is:**
T3T1-aaaa-bb where:
aaaa = the logical DS3 port number within the system, and

bb = the relative DS1 port number within the DS3.

- **Electrical DS1** AID format is:

T1-*aaaaaa* where:

aaaaaa = the logical DS1 port number within the system.

- **F3 (Fractional T3)** entities are referenced by a compound AID value consisting of a three-part combined facility name/logical identifier. The AID format for a F3 AID is

T3F3-*aaaa-bb* where:

aaaa = the logical electrical DS3 port number within the system, and

bb = the relative F3 entity number within the electrical DS3.

- **Stratum Synchronization Timing Reference Source** entities are referenced by a compound AID value consisting of a two part combined name/logical identifier. The AID format for a Timing Reference Source is

TMG-*a* where:

a = the copy number (0 or 1) of the Timing Reference Source.

The value set for Alcatel and Alternate AIDs is:

{TMG-{0, 1}}

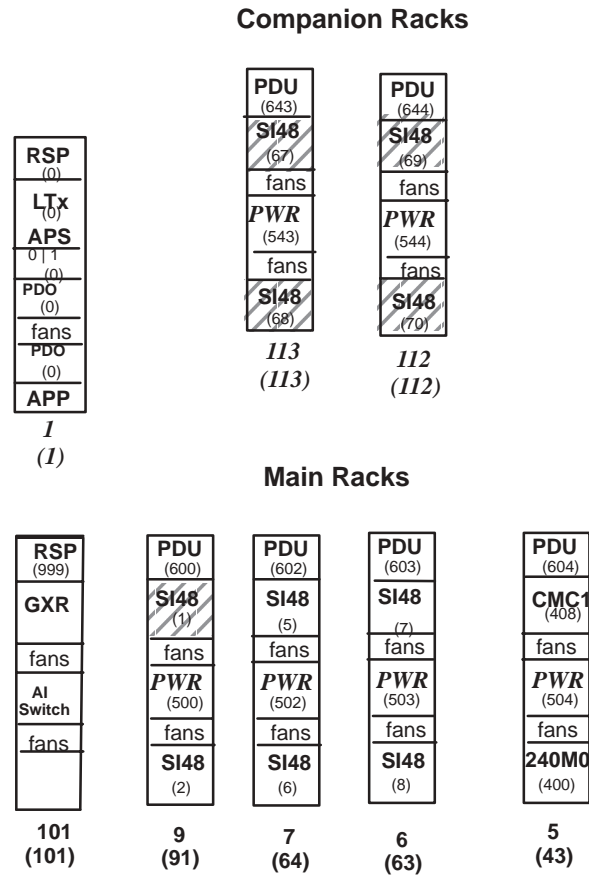
- **Control Port** entities are referenced by a one part numerical AID value, or two part compound numerical AID value. The AID format for a Control Port is

CPORT[,VCNUM] where:

CPORT = the number of the Control Port {1–12} in the system, and

VCNUM = the virtual channel number {1–8} if the CPORT is configured as an X.25 port.

B.2. (Default) Equipment Rack and Shelf Numbering



SI48 OCn Companion Shelf
FRONT VIEW of racks/bays are shown

This Diagram is not intended to show rack locations.
Rack #s not in Parentheses are default Alcatel rack numbers.
Rack #s in Parentheses are default Alternate rack numbers.
Shelf #s in Parentheses are Green Shelf numbers.

Figure B.1. 240 Port LMC Companion and Main Rack/Shelf Front View

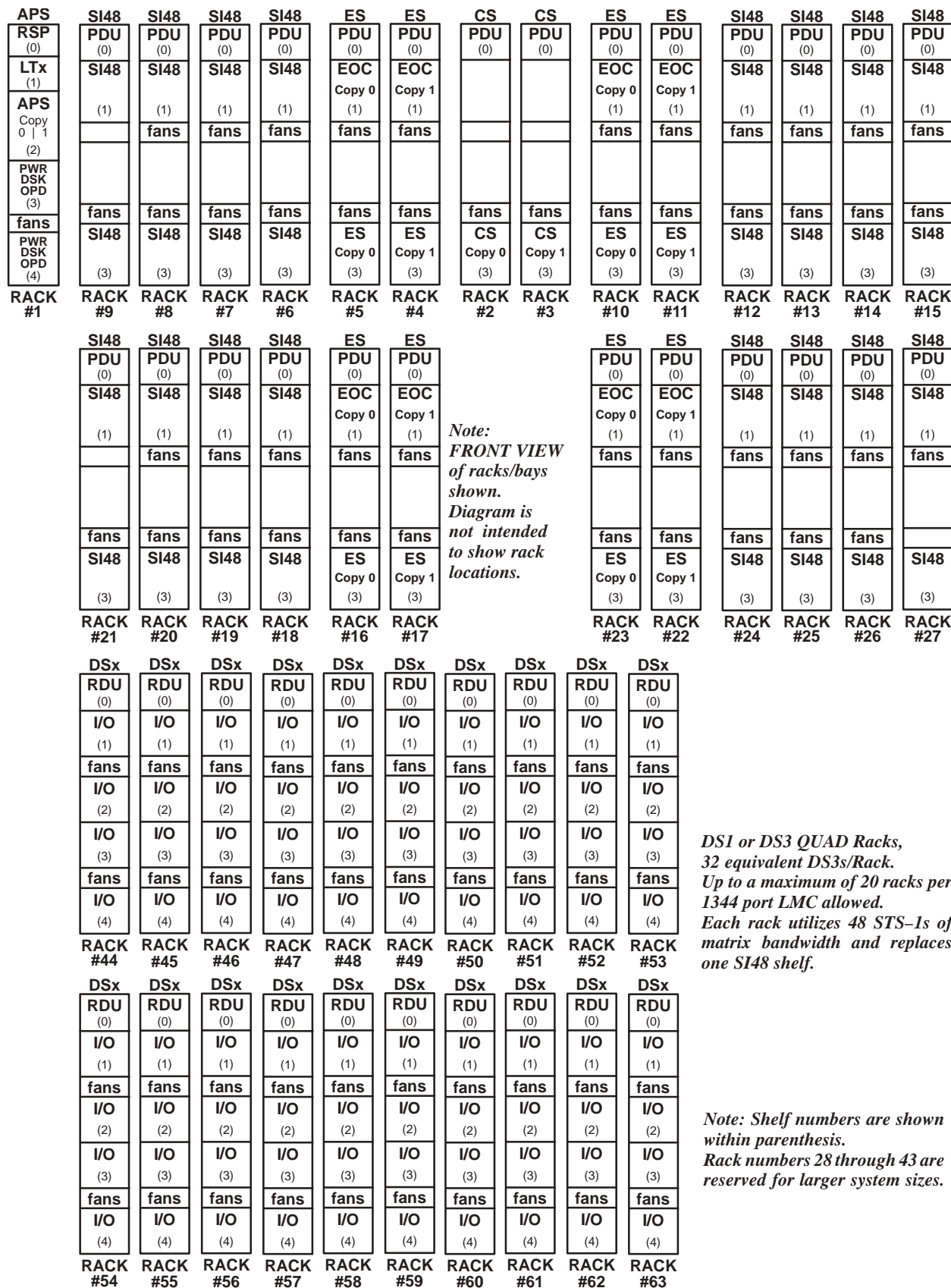


Figure B.2. 1344 Port LMC Rack/Shelf Numbering

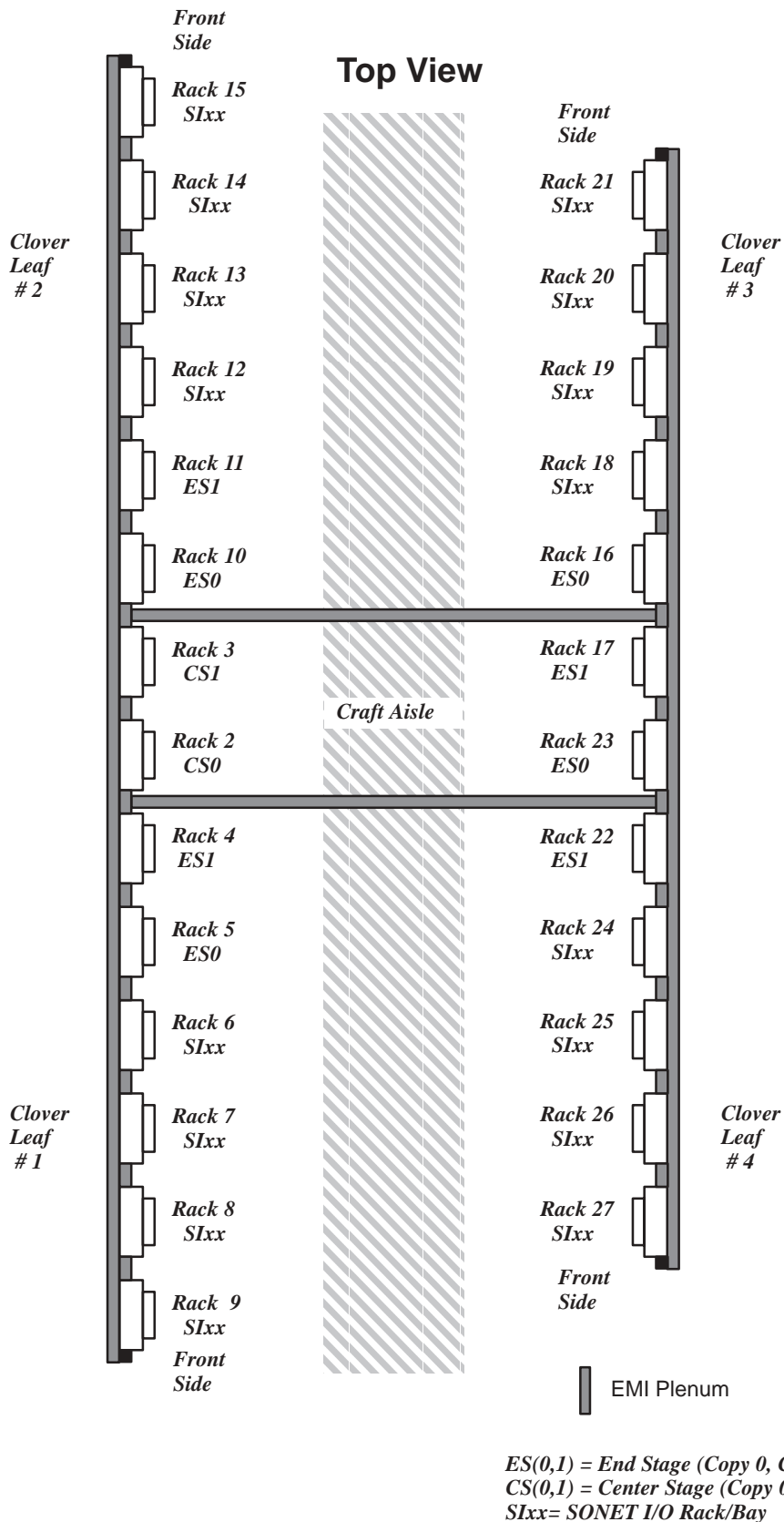
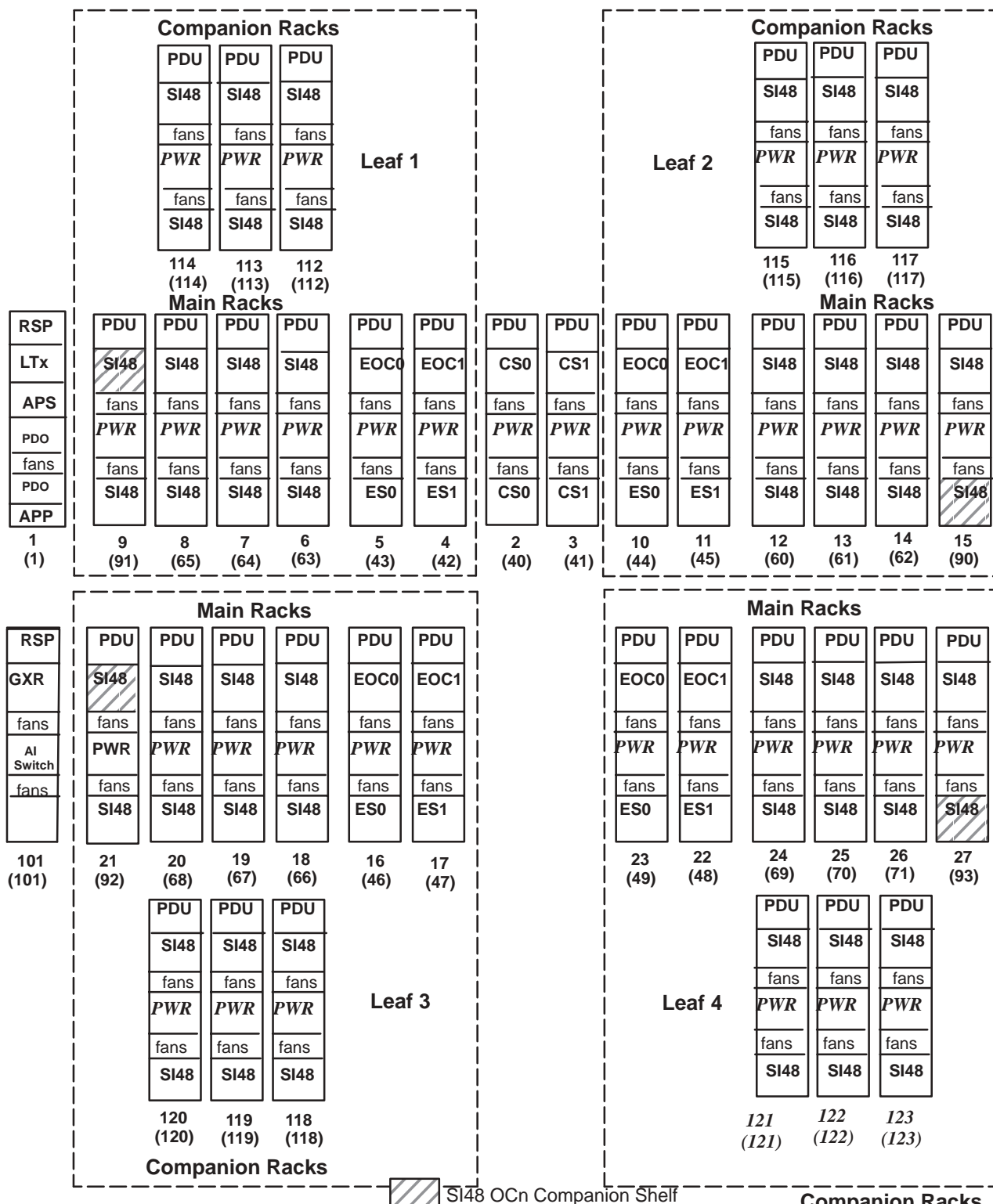


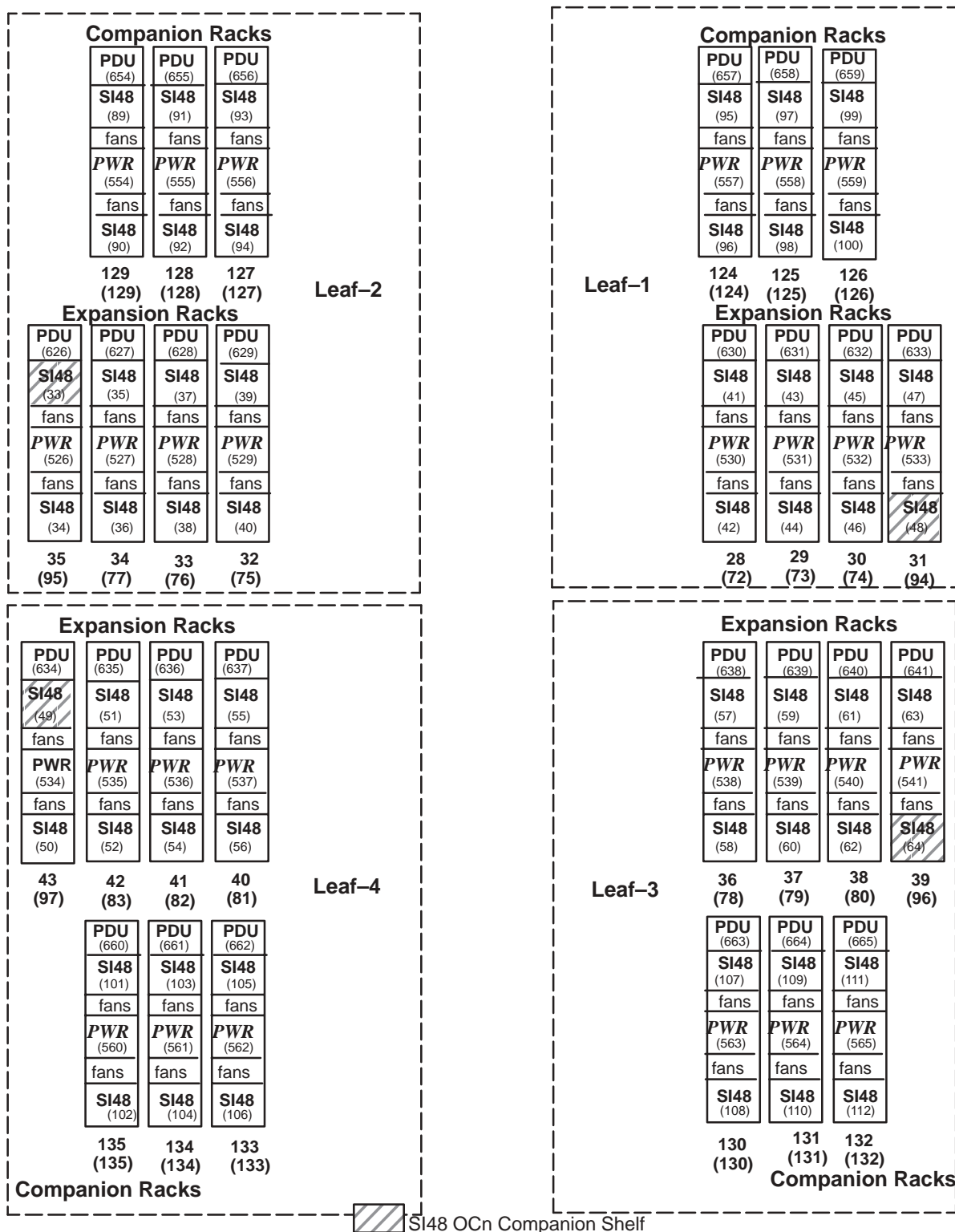
Figure B.3. Typical 1344 Port LMC Rack Line-Up



FRONT VIEW of racks/bays are shown.

This Diagram is not intended to show rack locations.
Rack #s not in Parentheses are default Alcatel rack numbers.
Rack #s in Parentheses are default Alternate rack numbers.
Shelf #s in Parentheses are Green Shelf numbers.

Figure B.4. 2688 Port LMC Rack/Shelf Numbering with SI48 I/O Shelves



FRONT VIEW of racks/bays are shown

This Diagram is not intended to show rack locations.
Rack #s not in Parentheses are default Alcatel rack numbers.
Rack #s in Parentheses are default Alternate rack numbers.
Shelf #s in Parentheses are Green Shelf numbers.

Figure B.5. 2688 Port LMC Expansio & Companion Rack/Shelf Front View

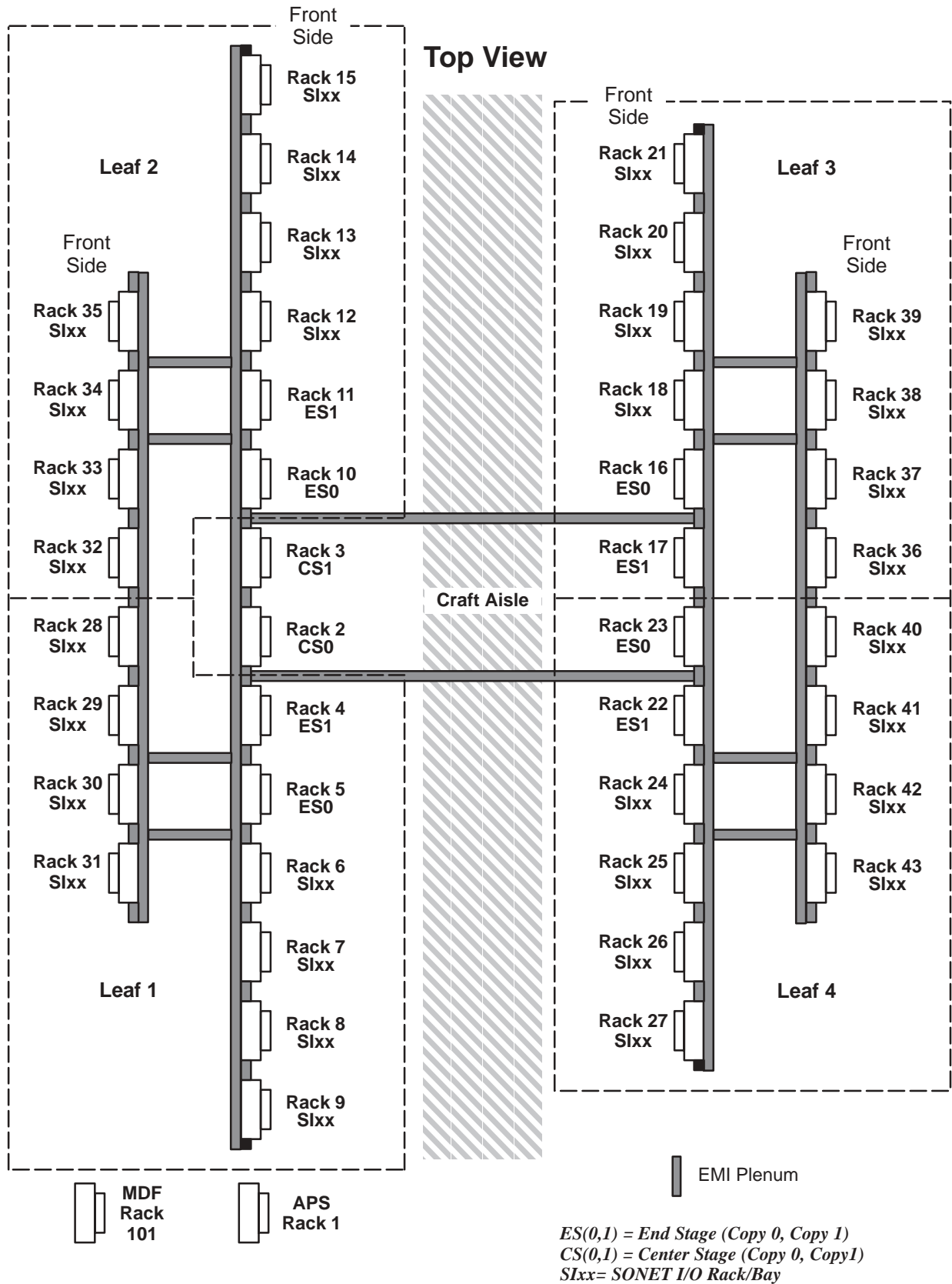
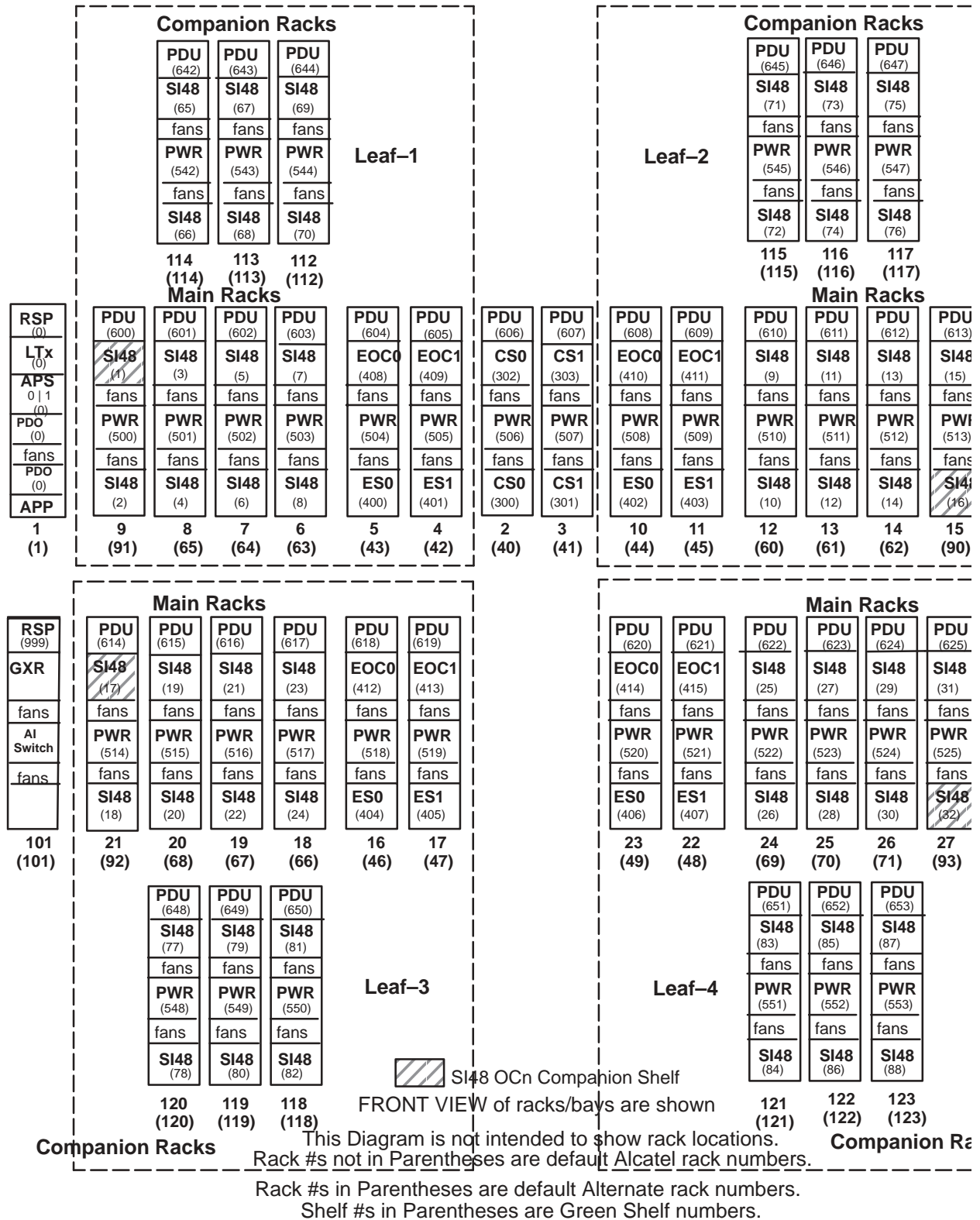
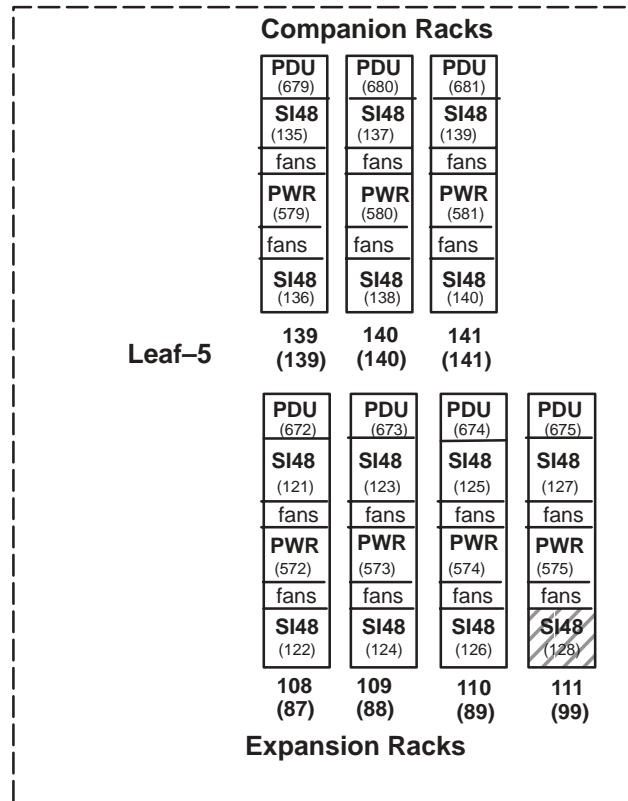


Figure B.6. Typical 2688 Port LMC Rack Line-Up



**Figure B.7. 3360 Ports LMC Main & Companion Rack/Shelf Front View
(Leaf 1 through Leaf 4)**



SI48 OCn Companion Shelf

FRONT VIEW of racks/bays are shown

This Diagram is not intended to show rack locations.
Rack #s not in Parentheses are default Alcatel rack numbers.
Rack #s in Parentheses are default Alternate rack numbers.
Shelf #s in Parentheses are Green Shelf numbers.

Figure B.8. 3360–Port LMC Main & Companion Rack/Shelf Front View (Leaf 5)

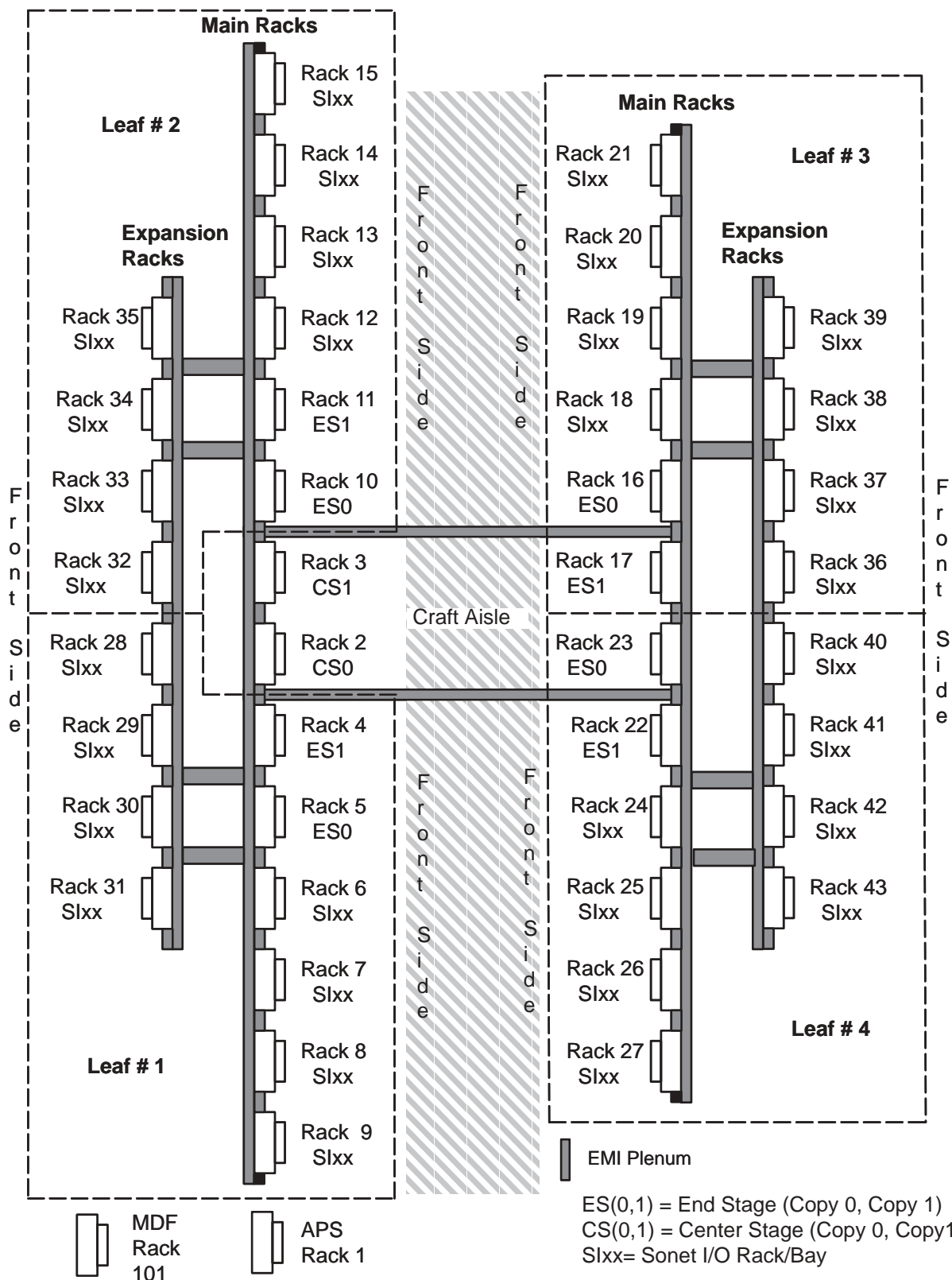
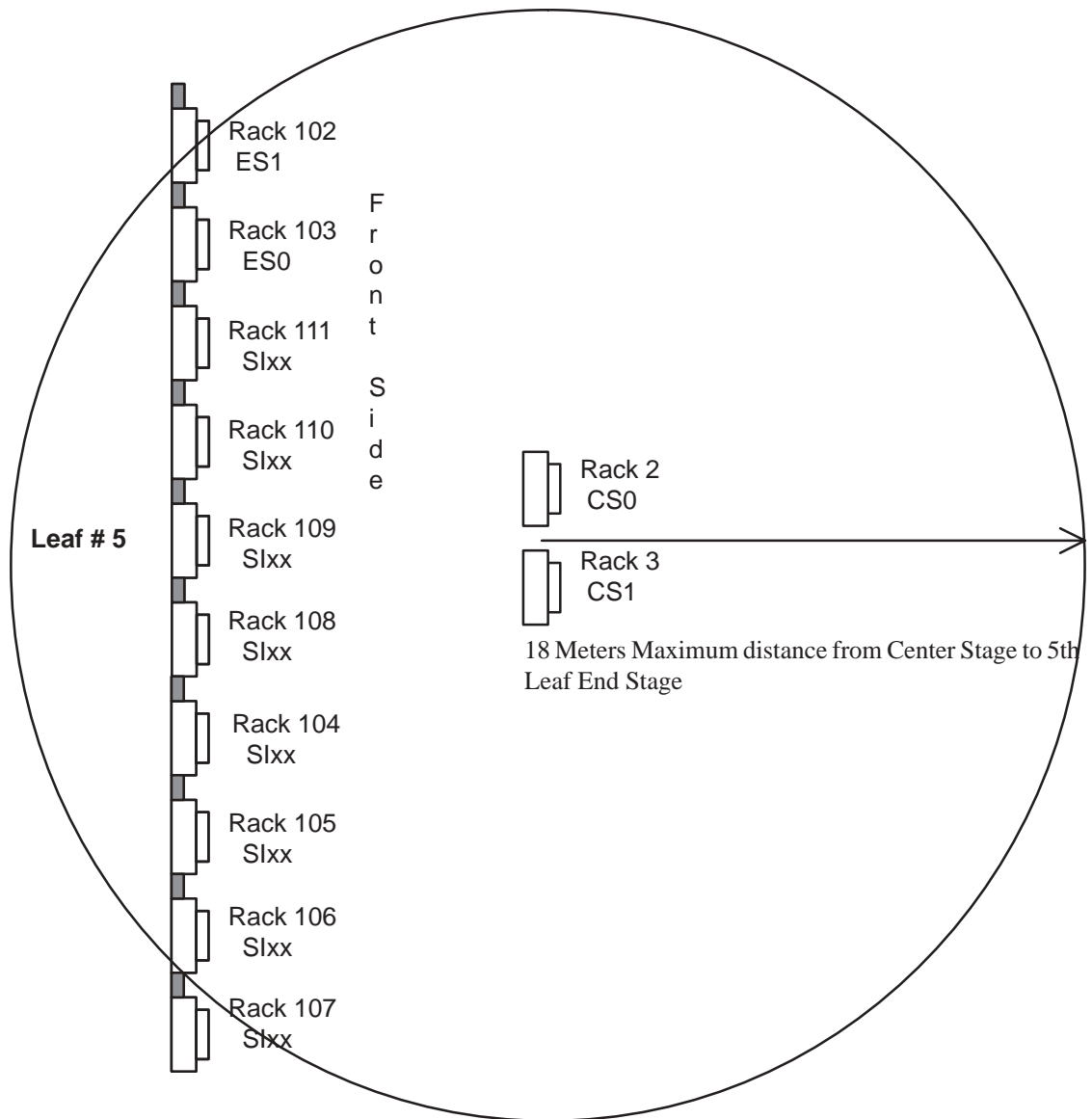


Figure B.9. I/O Main and Expansion Racks Floor Plan Top View
- Leaf 1 - 4



Note – End Stage racks in the 5th clover must be placed within 12 to 24 meters of the Center Stage Racks, in 3 meter increments. Of this, 6 meters is routed in the plenum, and the remaining cable is routed in the overhead trays.

I/O racks in the 5th clover are optically remoted, up to 500 meters maximum distance from their End Stage racks. Floorplan shown is for illustration purposes only and is only intended to show the relationship between the 5th clover end stages and the center stages.

**Figure B.10. 3360-Port LMC I/O Main and Expansion Racks Floor Plan Top View
– Leaf 5**

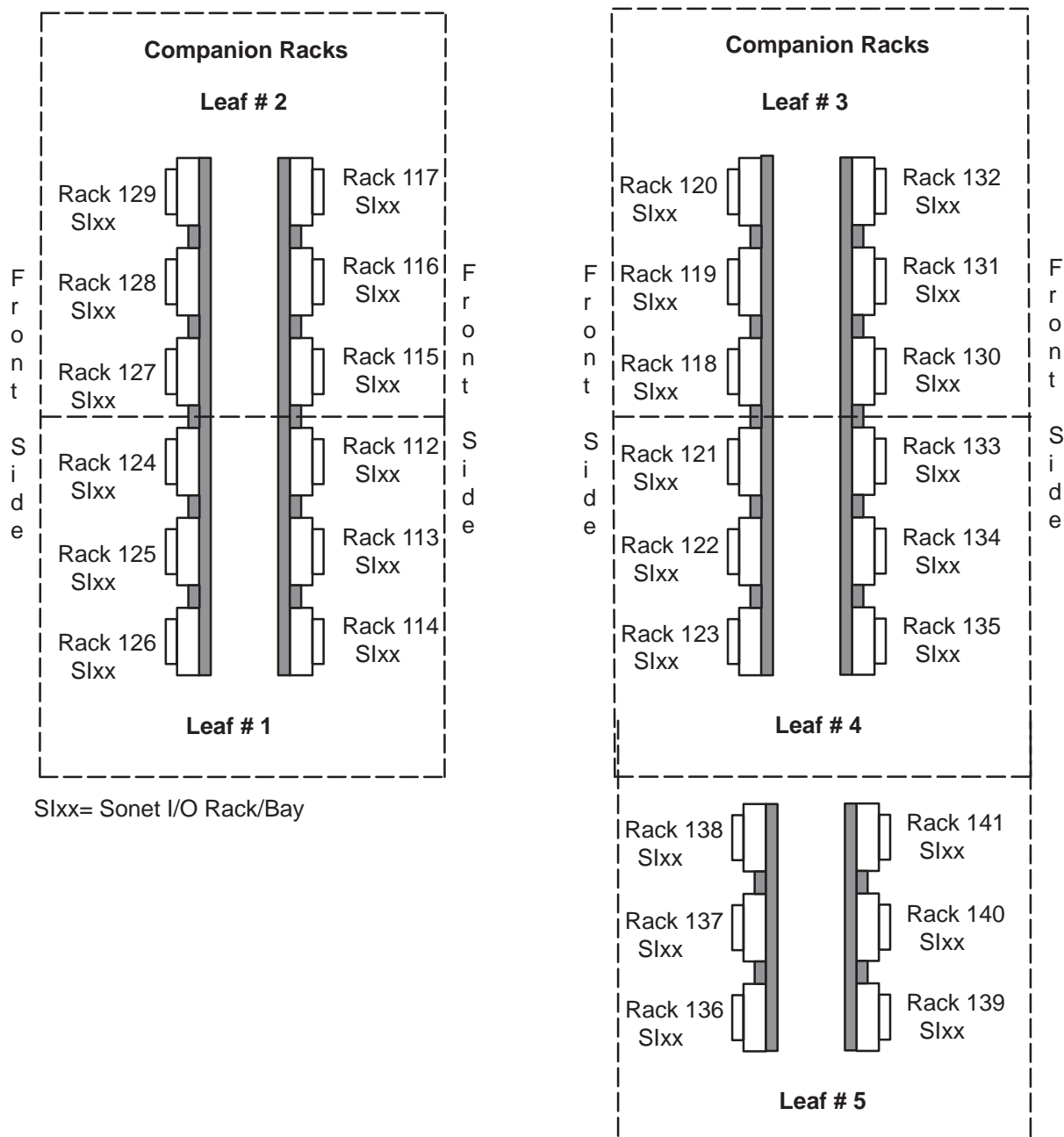


Figure B.11. I/O Companion Racks Floor Plan Top View

	RDU (700)	RDU (701)	RDU (702)	RDU (703)	RDU (704)	RDU (705)	RDU (706)	RDU (707)	RDU (708)	RDU (709)
1	I/O (141)	I/O (145)	I/O (149)	I/O (153)	I/O (157)	I/O (161)	I/O (165)	I/O (169)	I/O (173)	I/O (177)
	fans	fans	fans	fans	fans	fans	fans	fans	fans	fans
2	I/O (142)	I/O (146)	I/O (150)	I/O (154)	I/O (158)	I/O (162)	I/O (166)	I/O (170)	I/O (174)	I/O (178)
3	I/O (143)	I/O (147)	I/O (151)	I/O (155)	I/O (159)	I/O (163)	I/O (167)	I/O (171)	I/O (175)	I/O (179)
	fans	fans	fans	fans	fans	fans	fans	fans	fans	fans
4	I/O (144)	I/O (148)	I/O (152)	I/O (156)	I/O (160)	I/O (164)	I/O (168)	I/O (172)	I/O (176)	I/O (180)
	44 (3)	45 (4)	46 (5)	47 (6)	48 (10)	49 (11)	50 (12)	51 (13)	52 (14)	53 (15)

	RDU (710)	RDU (711)	RDU (712)	RDU (713)	RDU (714)	RDU (715)	RDU (716)	RDU (717)	RDU (718)	RDU (719)
1	I/O (181)	I/O (185)	I/O (189)	I/O (193)	I/O (197)	I/O (201)	I/O (205)	I/O (209)	I/O (213)	I/O (217)
	fans	fans	fans	fans	fans	fans	fans	fans	fans	fans
2	I/O (182)	I/O (186)	I/O (190)	I/O (194)	I/O (198)	I/O (202)	I/O (206)	I/O (210)	I/O (214)	I/O (218)
3	I/O (183)	I/O (187)	I/O (191)	I/O (195)	I/O (199)	I/O (203)	I/O (207)	I/O (211)	I/O (215)	I/O (219)
	fans	fans	fans	fans	fans	fans	fans	fans	fans	fans
4	I/O (184)	I/O (188)	I/O (192)	I/O (196)	I/O (200)	I/O (204)	I/O (208)	I/O (212)	I/O (216)	I/O (220)
	54 (16)	55 (17)	56 (18)	57 (19)	58 (20)	59 (21)	60 (22)	61 (23)	62 (24)	63 (25)

FRONT VIEW of racks/bays are shown

This Diagram is not intended to show rack locations.

Rack #s not in Paranthesis are the default Alcatel rack numbers

Rack #s in Paranthesis and in bold letters are the default alternate map rack numbers

Shelf #s in Paranthesis and not in bold letters are Green Shelf numbers

DS1 Quad Shelves, upto a maximum of 20 bays allowed in this release. This gives 17,920 electrical DS1s.

Only racks 44 to 53 may contain DS3 quads.

Figure B.12. 3360–Port LMC Asynchronous Rack/Shelf Front View

B.3. Equipment Name/Mnemonic and Equipment AID Value Sets

The equipment names/mnemonics and the associated Alcatel (default) and Alternate value sets for each equipment entity in the system are shown in Table NO TAG

Table B.1. Alcatel and Alternate Equipment AIDs		
Equipment Description	Alcatel AIDs	Alternate AIDs
ACL (Administration Communication Link)	ACL-1-2-{9-28, 37-56, 65-84, 93-112}	ACL-1-2-{9-28, 37-56, 65-84, 93-112}
ACM (Administrative Communications Module)	ACM-1-2-{3-7,10-14}	ACM-1-2-{3-7,10-14}
CBL (Cable Identifier)	CBL-{4,5,10,11,16,17,22,23,102,103}- {3}- {LX052A-LX052H,LX052J, UX052A-UX052H,UX052J, LX082A-LX082H,LX082J, UX082A-UX082H,UX082J, LX112A-LX112H,LX112J, UX112A-UX112H,UX112J, LX142A-LX142H,LX142J, UX142A-UX142H,UX142J}	CBL-{42-49,50,51}- {3}- {LX052A-LX052H,LX052J, UX052A-UX052H,UX052J, LX082A-LX082H,LX082J, UX082A-UX082H,UX082J, LX112A-LX112H,LX112J, UX112A-UX112H,UX112J, LX142A-LX142H,LX142J, UX142A-UX142H,UX142J}

Table B.1. Alcatel and Alternate Equipment AIDs

Equipment Description	Alcatel AIDs	Alternate AIDs
	CBL-{2-5,10,11,17,22,23,102,103}-{3}- {LX031B-LX031H, LX031J, UX031B -UX031H, UX031J, LX041B- LX041H, LX041J, UX041B- UX041H, UX041J, LX051B- LX051H, LX051J, UX051B- UX051H, UX051J, LX061B-LX061H, LX061J, UX061B -UX061H, UX061J, LX071B- LX071H, LX071J, UX071B- UX071H, UX071J, LX081B- LX081H, LX081J, UX081B- UX081H, UX081J, LX091B- LX091H, LX091J, UX091B- UX091H, UX091J, LX101B- LX101H, LX101J, UX101B- UX101H, UX101J, LX111B-LX111H, LX111J, UX111B -UX111H, UX111J, LX121B-LX121H, LX121J, UX121B -UX121H, UX121J, LX131B- LX131H, LX131J, UX131B- UX131H, UX131J, LX141B-LX141H, LX141J, UX141B -UX141H, UX141J, LX151B-LX151H, LX151J, UX151B -UX151H, UX151J, LX161B-LX161H, LX161J, UX161B -UX161H, UX161J, LX171B- LX171H, LX171J, UX171B- UX171H, UX171J, LX181B- LX181H, LX181J, UX181B- UX181H, UX181J}	CBL-{40-49,50,51}-{3}- {LX031B-LX031H, LX031J, UX031B -UX031H, UX031J, LX041B- LX041H, LX041J, UX041B- UX041H, UX041J, LX051B- LX051H, LX051J, UX051B- UX051H, UX051J, LX061B-LX061H, LX061J, UX061B -UX061H, UX061J, LX071B- LX071H, LX071J, UX071B- UX071H, UX071J, LX081B- LX081H, LX081J, UX081B- UX081H, UX081J, LX091B- LX091H, LX091J, UX091B- UX091H, UX091J, LX101B- LX101H, LX101J, UX101B- UX101H, UX101J, LX111B-LX111H, LX111J, UX111B -UX111H, UX111J, LX121B-LX121H, LX121J, UX121B -UX121H, UX121J, LX131B- LX131H, LX131J, UX131B- UX131H, UX131J, LX141B-LX141H, LX141J, UX141B -UX141H, UX141J, LX151B- LX151H, LX151J, UX151B- UX151H, UX151J, LX161B- LX161H, LX161J, UX161B- UX161H, UX161J, LX171B- LX171H, LX171J, UX171B- UX171H, UX171J, LX181B- LX181H, LX181J, UX181B- UX181H, UX181J}

Table B.1. Alcatel and Alternate Equipment AIDs

Equipment Description	Alcatel AIDs	Alternate AIDs
	CBL-{2, 3}-{1}- {LX031B-LX031H, LX031J, UX031B -UX031H, UX031J, LX041B- LX041H, LX041J, UX041B- UX041H, UX041J, LX051B- LX051H, LX051J, UX051B- UX051H, UX051J, LX061B-LX061H, LX061J, UX061B -UX061H, UX061J, LX071B- LX071H, LX071J, UX071B- UX071H, UX071J, LX081B- LX081H, LX081J, UX081B- UX081H, UX081J, LX091B- LX091H, LX091J, UX091B- UX091H, UX091J, LX101B- LX101H, LX101J, UX101B- UX101H, UX101J, LX111B-LX111H, LX111J, UX111B -UX111H, UX111J, LX121B-LX121H, LX121J, UX121B -UX121H, UX121J, LX131B- LX131H, LX131J, UX131B- UX131H, UX131J, LX141B-LX141H, LX141J, UX141B -UX141H, UX141J, LX151B-LX151H, LX151J, UX151B -UX151H, UX151J, LX161B-LX161H, LX161J, UX161B -UX161H, UX161J, LX171B- LX171H, LX171J, UX171B- UX171H, UX171J, LX181B- LX181H, LX181J, UX181B- UX181H, UX181J}	CBL-{40, 41}-{1}- {LX031B-LX031H, LX031J, UX031B -UX031H, UX031J, LX041B- LX041H, LX041J, UX041B- UX041H, UX041J, LX051B- LX051H, LX051J, UX051B- UX051H, UX051J, LX061B-LX061H, LX061J, UX061B -UX061H, UX061J, LX071B- LX071H, LX071J, UX071B- UX071H, UX071J, LX081B- LX081H, LX081J, UX081B- UX081H, UX081J, LX091B- LX091H, LX091J, UX091B- UX091H, UX091J, LX101B- LX101H, LX101J, UX101B- UX101H, UX101J, LX111B-LX111H, LX111J, UX111B -UX111H, UX111J, LX121B-LX121H, LX121J, UX121B -UX121H, UX121J, LX131B- LX131H, LX131J, UX131B- UX131H, UX131J, LX141B-LX141H, LX141J, UX141B -UX141H, UX141J, LX151B- LX151H, LX151J, UX151B- UX151H, UX151J, LX161B- LX161H, LX161J, UX161B- UX161H, UX161J, LX171B- LX171H, LX171J, UX171B- UX171H, UX171J, LX181B- LX181H, LX181J, UX181B- UX181H, UX181J}

Table B.1. Alcatel and Alternate Equipment AIDs

Equipment Description	Alcatel AIDs	Alternate AIDs
	CBL-{2, 3}-{1,3}- {LX041FCS-LX041HCS, LX041JCS, UX041FCS-UX041HCS, UX041JCS, LX061FCS-LX061HCS, LX061JCS, UX061FCS-UX061HCS, UX061JCS, LX081FCS-LX081HCS, LX081JCS, UX081FCS-UX081HCS, UX081JCS, LX101FCS-LX101HCS, LX101JCS, UX101FCS-UX101HCS, UX101JCS, LX121FCS-LX121HCS, LX121JCS, UX121FCS-UX121HCS, UX121JCS, LX141FCS-LX141HCS, LX141JCS, UX141FCS-UX141HCS, UX141JCS, LX161FCS-LX161HCS, LX161JCS, UX161FCS-UX161HCS, UX161JCS, LX181FCS-LX181HCS, LX181JCS, UX181FCS-UX181HCS, UX181JCS}	CBL-{40, 41}-{1,3}- {LX041FCS-LX041HCS, LX041JCS, UX041FCS-UX041HCS, UX041JCS, LX061FCS-LX061HCS, LX061JCS, UX061FCS-UX061HCS, UX061JCS, LX081FCS-LX081HCS, LX081JCS, UX081FCS-UX081HCS, UX081JCS, LX101FCS-LX101HCS, LX101JCS, UX101FCS-UX101HCS, UX101JCS, LX121FCS-LX121HCS, LX121JCS, UX121FCS-UX121HCS, UX121JCS, LX141FCS-LX141HCS, LX141JCS, UX141FCS-UX141HCS, UX141JCS, LX161FCS-LX161HCS, LX161JCS, UX161FCS-UX161HCS, UX161JCS, LX181FCS-LX181HCS, LX181JCS, UX181FCS-UX181HCS, UX181JCS}
	CBL-{2, 3}-{1,3}- {LX041FES-LX041HES, LX041JES, UX041FES-UX041HES, UX041JES, LX061FES-LX061HES, LX061JES, UX061FES-UX061HES, UX061JES, LX081FES-LX081HES, LX081JES, UX081FES-UX081HES, UX081JES, LX101FES-LX101HES, LX101JES, UX101FES-UX101HES, UX101JES, LX121FES-LX121HES, LX121JES, UX121FES-UX121HES, UX121JES, LX141FES-LX141HES, LX141JES, UX141FES-UX141HES, UX141JES, LX161FES-LX161HES, LX161JES, UX161FES-UX161HES, UX161JES, LX181FES-LX181HES, LX181JES, UX181FES-UX181HES, UX181JES}	CBL-{40, 41}-{1,3}- {LX041FES-LX041HES, LX041JES, UX041FES-UX041HES, UX041JES, LX061FES-LX061HES, LX061JES, UX061FES-UX061HES, UX061JES, LX081FES-LX081HES, LX081JES, UX081FES-UX081HES, UX081JES, LX101FES-LX101HES, LX101JES, UX101FES-UX101HES, UX101JES, LX121FES-LX121HES, LX121JES, UX121FES-UX121HES, UX121JES, LX141FES-LX141HES, LX141JES, UX141FES-UX141HES, UX141JES, LX161FES-LX161HES, LX161JES, UX161FES-UX161HES, UX161JES, LX181FES-LX181HES, LX181JES, UX181FES-UX181HES, UX181JES}
	CBL-{4,5,10,11,16,17,22,23,102,103}- {1}- {XA01B-XA01H,XA01J, XA02B-XA02H, XA02J, XA03B-XA03H, XA03J, XA04B-XA04H, XA04J, XA05B-XA05H, XA05J, XA06B-XA06H, XA06J, XA07B-XA07H, XA07J, XA09B-XA09H, XA09J, XA10B-XA10H, XA10J, XA11B-XA11H, XA11J, XA12B-XA12H, XA12J, XA13B-XA13H, XA13J, XA14B-XA14H, XA14J, XA15B-XA15H, XA15J, J1000A-J1000H, J1001A-J1001H, J1002A-J1002H, J1003A-J1003H, J1004A-J1004H, J1005A-J1005H, J1006A-J1006H, J2000A-J2000H, J2001A-J2001H, J2002A-J2002H, J2003A-J2003H, J2004A-J2004H, J2005A-J2005H, J2006A-J2006H}	CBL-{42-49,50,51}-{1}- {XA01B-XA01H,XA01J, XA02B-XA02H, XA02J, XA03B-XA03H, XA03J, XA04B-XA04H, XA04J, XA05B-XA05H, XA05J, XA06B-XA06H, XA06J, XA07B-XA07H, XA07J, XA09B-XA09H, XA09J, XA10B-XA10H, XA10J, XA11B-XA11H, XA11J, XA12B-XA12H, XA12J, XA13B-XA13H, XA13J, XA14B-XA14H, XA14J, XA15B-XA15H, XA15J, J1000A-J1000H, J1001A-J1001H, J1002A-J1002H, J1003A-J1003H, J1004A-J1004H, J1005A-J1005H, J1006A-J1006H, J2000A-J2000H, J2001A-J2001H, J2002A-J2002H, J2003A-J2003H, J2004A-J2004H, J2005A-J2005H, J2006A-J2006H}

Table B.1. Alcatel and Alternate Equipment AIDs

Equipment Description	Alcatel AIDs	Alternate AIDs
	CBL-{6-9, 12-15, 18-21, 24-43, 104-111 , 112-135, 136-141 }-{1, 3}- {XA150B-XA150H, XA150J, XA250B-XA250H, XA250J, J1000A-J1000H, J2000A-J2000H}	CBL-{60-83, 84-89 ,90-97, 98,99 ,112-135, 136-141 }-{1,3} {XA150B-XA150H, XA150J, XA250B-XA250H, XA250J, J1000A-J1000H, J2000A-J2000H}
	CBL-{44-63}-{1-4}- {1J1RX, 1J1TX, 2J1RX,2J1TX}	CBL-{3-6,10-25}-{1-4}- {1J1RX, 1J1TX, 2J1RX,2J1TX}
	CBL-{6-8,12-14}-{1,3}- {1J1RX,1J1TX,1J2RX,1J2TX, 3J1RX,3J1TX,3J2RX,3J2TX, 5J1RX,5J1TX,5J2RX,5J2TX, 7J1RX,7J1TX,7J2RX,7J2TX, XA150B,XA150D,XA151B,XA151D, XA152B,XA152D,XA153B,XA153D, XA250B,XA250D,XA251B,XA251D, XA252B,XA252D,XA253B,XA253D}, CBL-{9}-{3}- {1J1RX,1J1TX,1J2RX,1J2TX, 3J1RX,3J1TX,3J2RX,3J2TX, 5J1RX,5J1TX,5J2RX,5J2TX, 7J1RX,7J1TX,7J2RX,7J2TX, XA150B,XA150D,XA151B,XA151D, XA152B,XA152D,XA153B,XA153D, XA250B,XA250D,XA251B,XA251D, XA252B,XA252D,XA253B,XA253D}, CBL-{15}-{1}- {1J1RX,1J1TX,1J2RX,1J2TX, 3J1RX,3J1TX,3J2RX,3J2TX, 5J1RX,5J1TX,5J2RX,5J2TX, 7J1RX,7J1TX,7J2RX,7J2TX, XA150B,XA150D,XA151B,XA151D, XA152B,XA152D,XA153B,XA153D, XA250B,XA250D,XA251B,XA251D, XA252B,XA252D,XA253B,XA253D}	CBL-{60-65}-{1,3}- {1J1RX,1J1TX,1J2RX,1J2TX, 3J1RX,3J1TX,3J2RX,3J2TX, 5J1RX,5J1TX,5J2RX,5J2TX, 7J1RX,7J1TX,7J2RX,7J2TX, XA150B,XA150D,XA151B,XA151D, XA152B,XA152D,XA153B,XA153D, XA250B,XA250D,XA251B,XA251D, XA252B,XA252D,XA253B,XA253D}, CBL-{91}-{3}- {1J1RX,1J1TX,1J2RX,1J2TX, 3J1RX,3J1TX,3J2RX,3J2TX, 5J1RX,5J1TX,5J2RX,5J2TX, 7J1RX,7J1TX,7J2RX,7J2TX, XA150B,XA150D,XA151B,XA151D, XA152B,XA152D,XA153B,XA153D, XA250B,XA250D,XA251B,XA251D, XA252B,XA252D,XA253B,XA253D}, CBL-{90}-{1}- {1J1RX,1J1TX,1J2RX,1J2TX, 3J1RX,3J1TX,3J2RX,3J2TX, 5J1RX,5J1TX,5J2RX,5J2TX, 7J1RX,7J1TX,7J2RX,7J2TX, XA150B,XA150D,XA151B,XA151D, XA152B,XA152D,XA153B,XA153D, XA250B,XA250D,XA251B,XA251D, XA252B,XA252D,XA253B,XA253D}
CDA (Clock Distribution A)	CDA-{4,5,10,11,16,17,22,23, 102,103 }- 3-1	CDA-{42-49, 50,51 }-3-1
CDB (Clock Distribution B)	CDB-{2, 3}-{1,3}-{1, 2}, CDB-{4-43,112-135}-{1, 3}-{1, 2} CDB-{102-111,136-141}-{1,3}-{1,2}	CDB-{40,41}-{1,3}-{1, 2}, CDB-{42-49,60-83,90-97,112-135,- {1, 3}-{1, 2} CDB-{50,51,84-89,98,99,136-141}- {1,3}-{1,2}
CID (Communications Inter- face Device)	CID-1-1-{1-12}	CID-1-1-{1-12}
CIM (Communications Inter- face Module)	CIM-1-2-{3-7,10-14}	CIM-1-2-{3-7,10-14}
CKB (Circuit Breaker, bay/rack circuit breaker in the PDU/ RSP)	CKB-1-0-{1,2} CKB-{2-43,44-63,112-135}-0- {1,2}, CKB-101-0-{1,2} CKB-{102-111,136-141}-0-{1,2}	CKB-1-0-{1,2} CKB-{40-49,60-83,90-97,3-6, 10-25,112-135}-0-{1,2}, CKB-101-0-{1,2} CKB-{50,51,84-89,98,99,136-141}- 0-{1,2}
CPU (Central Processing Unit)	CPU-1-2-{1,2}	CPU-1-2-{1,2}

Table B.1. Alcatel and Alternate Equipment AIDs

Equipment Description	Alcatel AIDs	Alternate AIDs
DSB (DCC Server Board)	DSB-{6-9, 12-15, 18-21, 24-43, 112-135}-{1, 3}-{1, 2} DSB-{104-111,136-141}-{1,3}-{1,2}	DSB-{60-83,90-97,112-135}-{1,3}-{1, 2} DSB-{84-89,98,99,136-141}-{1,3}-{1, 2}
DSI (DS1 Input/Output)	DSI-{44-63}-{1-4}-{1-32}	DSI-{3-6,10-25}-{1-4}-{1-32}
DSK (Hard Disk Drive)	DSK-1-3-1, DSK-1-4-2	DSK-1-3-1, DSK-1-4-2
EOB (Electrical to Optical conversion Board)	EOB-{6-9, 12-15, 18-21, 24-43, 104-111,136-141 ,112-135}-{1, 3}-{1, 2}, EOB-{4, 5, 10, 11, 16, 17, 22, 23, 102,103 }-1-{1-7, 9-15}	EOB-{60-83, 84-89 ,90-97, 98,99 ,112-135, 136-141 }-{1,3}-{1, 2}, EOB-{42-49, 50,51 }-1-{1-7, 9-15}
EP3 (Electrical Plesiochronous DS3/STS-1 Interface)	EP3-{6-8, 12-14, 18-20,24-26,28-30,32-34,36-38,40-42, 104-106,108-110 }-{1, 3}-{1-18} EP3-{9, 21, 35, 43, 107 }-3-{1-18} EP3-{15, 27, 31, 39, 111 }-1-{1-18}	EP3-{60-83, 84-89 }-{1, 3}-{1-18} EP3-{91,92,95,97, 98 }-3-{1-18} EP3-{90,93,94,96, 99 }-1-{1-18}
ES1 (Electrical STS-1 Interface)	ES1-{6-8, 12-14, 18-20,24-26,28-30,32-34,36-38,40-42, 104-106,108-110 }-{1, 3}-{1-18} ES1-{9, 21, 35, 43, 107 }-3-{1-18} ES1-{15, 27, 31, 39, 111 }-1-{1-18}	ES1-{60-83, 84-89 }-{1, 3}-{1-18} ES1-{91,92,95,97, 98 }-3-{1-18} ES1-{90,93,94,96, 99 }-1-{1-18}
ESA (External DS1 Signal Adapter)	ESA-{44-63}-{1-4}-{1,2}	ESA-{3-6,10-25}-{1-4}-{1,2}
FAN (Fan/Blower assembly)	FAN-1-0-1 FAN-{2-43, 102-111 ,112-135, 136-141 }-1 FAN-{44-63}-{1,3}-1 FAN-101-0-1	FAN-1-0-1 FAN-{40-49, 50,51 ,60-83, 84-89 ,90-97, 98,99 ,112-135, 136-141 }-{1,3}-1 FAN-{3-6,10-25}-{1,3}-1 FAN-101-0-1
FUSE (Fuse, PDU fuse)	FUSE-{2-43, 102-111 ,112-135, 136-141 }-0-{1-2}	FUSE-{40-49, 50,51 ,60-83, 84-89 ,90-97, 98,99 ,112-135, 136-141 }-0-{1-2}
G1M16 (GTI cable terminating on an M16)	G1M16-{2,3,4,5,10,11,16,17,22,23}-3-{1-16}-{1-16}	G1M16-{40-49}-3-{1-16}-{1-16}
G1M32 (GTI cable terminating on an M32)	G1M32-{4,5,10,11,16,17,22,23, 102,103 }-3-{1-16}-{1-32}	G1M32-{42-49, 50,51 }-3-{1-16}-{1-32}
G1M40 (GTI cable terminating on an M40)	G1M40-{2,3}-{1,3}-{1-16}-{1-32}	G1M40-{40,41}-{1,3}-{1-16}-{1-32}
G1EOB (GTI cable terminating on an EOB)	G1EOB-{4, 5, 10, 11, 16, 17, 22, 23, 102,103 }-1-{1-7, 9-15}-{1-16}, G1EOB-{6-9, 12-15, 18-21, 24-43, 104-111 ,112-135, 136-141 }-{1, 3}-{1, 2}-{1-16}	G1EOB-{42-49, 50,51 }-1-{1-7,9-15}-{1-16} G1EOB-{60-83, 84-89 ,90-97, 98,99 ,112-135, 136-141 }-{1,3}-{1, 2}-{1-16}
G1EP3 (GTI cable terminating on an EP3)	G1EP3-{6-8, 12-14, 18-20, 24-26, 28-30,32-34,36-38,40-42, 104-106,108-110 }-{1, 3}-{1-18}-{1,2} G1EP3-{9, 21, 35, 43, 107 }-3-{1-18}-{1, 2} G1EP3-{15, 27, 31, 39, 111 }-1-{1-18}-{1, 2}	G1EP3-{60-83, 84-89 }-{1, 3}-{1-18}-{1, 2}, G1EP3-{91,92,95,97, 98 }-3-{1-18}-{1, 2} G1EP3-{90,93,94,96, 99 }-1-{1-18}-{1, 2}

Table B.1. Alcatel and Alternate Equipment AIDs

Equipment Description	Alcatel AIDs	Alternate AIDs
G1ES1 (GTI cable terminating on an ES1)	G1ES1 – {6–8, 12–14, 18–20, 24–26, 28–30, 32–34, 36–38, 40–42, 104–106, 108–110 } – {1, 3} – {1–18} – {1, 2}, G1ES1 – {9, 21, 35, 43, 107 } – 3 – {1–18} – {1, 2}, G1ES1 – {15, 27, 31, 39, 111 } – 1 – {1–18} – {1, 2}	G1ES1 – {60–83, 84–89 } – {1, 3} – {1–18} – {1, 2}, G1ES1 – {91, 92, 95, 97, 98 } – 3 – {1–18} – {1, 2}, G1ES1 – {90, 93, 94, 96, 99 } – 1 – {1–18} – {1, 2}
G1IRPB (GTI cable terminating on the I/O side of an RPB)	G1IRPB – {6–9, 12–15, 18–21, 24–43, 104–111, 112–135, 136–141 } – {1, 3} – {1, 2} – {1–18}	G1IRPB – {60–83, 84–89, 90–97, 98, 99, 112–135, 136–141 } – {1, 3} – {1, 2} – {1–18}
G1MRPB (GTI cable terminating on the Matrix side of an RPB)	G1MRPB – {6–9, 12–15, 18–21, 24–43, 104–111, 112–135, 136–141 } – {1, 3} – {1, 2} – {1–16}	G1MRPB – {60–83, 84–89, 90–97, 98, 99, 112–135, 136–141 } – {1, 3} – {1, 2} – {1–16}
G1O1B (GTI cable terminating on an O1B)	G1O1B – {6–9, 12–15, 18–21, 24–43, 104–111, 112–135, 136–141 } – {1, 3} – {2–9, 11–18} – {1, 2}	G1O1B – {60–83, 84–89, 90–97, 98, 99, 112–135, 136–141 } – {1, 3} – {2–9, 11–18} – {1, 2}
G1O4M (GTI cable terminating on an O4M)	G1O4M – {6–9, 12–15, 18–21, 24–43, 104–111, 112–135, 136–141 } – {1, 3} – {2, 3, 11, 12} – {1, 2}	G1O4M – {60–83, 84–89, 90–97, 98, 99, 112–135, 136–141 } – {1, 3} – {2, 3, 11, 12} – {1, 2}
G1S3M (GTI cable terminating on an S3M)	G1S3M – {6–9, 12–15, 18–21, 24–43, 104–111, 112–135, 136–141 } – {1, 3} – {4–9, 13–18} – {1, 2}	G1S3M – {60–83, 84–89, 90–97, 98, 99, 112–135, 136–141 } – {1, 3} – {4–9, 13–18} – {1, 2}
G1TGR (GTI cable terminating on a TGR)	G1TGR – {6–8, 12–14, 18–20, 24–26, 28–30, 32–34, 36–38, 40–42, 104–106, 108–110 } – {1, 3} – {9, 18} – {1, 2}, G1TGR – {9, 21, 35, 43, 107 } – 3 – {9, 18} – {1, 2}, G1TGR – {15, 27, 31, 39, 111 } – 1 – {9, 18} – {1, 2}	G1TGR – {60–83, 84–89 } – {1, 3} – {9–18} – {1, 2}, G1TGR – {91, 92, 95, 97, 98 } – 3 – {9, 18} – {1, 2}, G1TGR – {90, 93, 94, 96, 99 } – 1 – {9, 18} – {1, 2}
G4EOB (GTI cable terminating on an EOB)	G4EOB – {6–9, 12–15, 18–21, 24–43, 104–111, 112–135, 136–141 } – {1, 3} – {1, 2} – {1–4}, G4EOB – {4, 5, 10, 11, 16, 17, 22, 23, 102, 103 } – 1 – {1–7, 9–15} – {1–4}	G4EOB – {60–83, 84–89, 90–97, 98, 99, 112–135, 136–141 } – {1, 3} – {1, 2} – {1–4}, G4EOB – {42–49, 50, 51 } – 1 – {1–7, 9–15} – {1–4}
G1IOB (GTI cable terminating on an IOB)	G1IOB – {6–8, 12–14} – {1, 3} – {1, 3, 5, 7} – {1–3, 5–7}, G1IOB – 9 – 3 – {1, 3, 5, 7} – {1–3, 5–7}, G1IOB – 15 – 1 – {1, 3, 5, 7} – {1–3, 5–7}	G1IOB – {60–65} – {1, 3} – {1, 3, 5, 7} – {1–3, 5–7}, G1IOB – 91 – 3 – {1, 3, 5, 7} – {1–3, 5–7}, G1IOB – 90 – 1 – {1, 3, 5, 7} – {1–3, 5–7}
G4IOB (GTI cable terminating on an IOB)	G4IOB – {6–8, 12–14} – {1, 3} – {1, 3, 5, 7} – {1, 2}, G4IOB – 9 – 3 – {1, 3, 5, 7} – {1, 2}, G4IOB – 15 – 1 – {1, 3, 5, 7} – {1, 2}	G4IOB – {60–65} – {1, 3} – {1, 3, 5, 7} – {1, 2}, G4IOB – 91 – 3 – {1, 3, 5, 7} – {1, 2}, G4IOB – 90 – 1 – {1, 3, 5, 7} – {1, 2}
G4OXB (GTI cable terminating on an OXB)	G4OXB – {44–63} – {1–4} – {1, 2} – 1	G4OXB – {3–6, 10–25} – {1–4} – {1, 2} – 1
HMU (High Speed Muldem Unit)	HMU – {44–53} – {1–4} – {1–8}	HMU – {3–6, 10–15} – {1–4} – {1–8}
ICM (Intelligent Communication Module)	ICM – 1 – 2 – {1, 2, 8, 9}	ICM – 1 – 2 – {1, 2, 8, 9}
IOB (Inter-rack Optical Board)	IOB – {6–8, 12–14} – {1, 3} – {1, 3, 5, 7}, IOB – 9 – 3 – {1, 3, 5, 7}, IOB – 15 – 1 – {1, 3, 5, 7}	IOB – {60–65} – {1, 3} – {1, 3, 5, 7}, IOB – 91 – 3 – {1, 3, 5, 7}, IOB – 90 – 1 – {1, 3, 5, 7}

Table B.1. Alcatel and Alternate Equipment AIDs		
Equipment Description	Alcatel AIDs	Alternate AIDs
IPB (Internal Protection Board)	IPB-{6-9, 12-15, 18-21,24-43, 104-111 , 112-135, 136-141 }-{1, 3}-{1, 2}	IPB-{60-83, 84-89 ,90-97, 98,99 ,112-135, 136-141 }-{1,3}-{1, 2}
IPU (Interface Processing Unit)	IPU-{44-63}-{1-4}-{1-8}	IPU-{3-6,10-25}-{1-4}-{1-8}
LMU (Low Speed Muldem Unit)	LMU-{44-53}-{1-4}-{1-32}	LMU-{3-6,10-15}-{1-4}-{1-32}
LT1 (Level 1 Translator)	LT1-1-1-{1-6}	LT1-1-1-{1-6}
LT2 (Level 2 Translator)	LT2-1-1-{1-6}	LT2-1-1-{1-6}
LT3 (Level 3 Translator)	LT3-1-1-{4-6}	LT3-1-1-{4-6}
LT4 (Level Translator 4)	LT4-1-1-{7-16}	LT4-1-1-{7-16}
LT5 (Level Translator 5)	LT5-1-1-{2-6}	LT5-1-1-{2-6}
LT8 (Level Translator 8)	LT8-1-1-{7-16}	LT8-1-1-{7-16}
M16 (Matrix End/Center Stage 16)	M16-{2-5,10,11,16,17,22,23}-3-{1-16}	M16-{40-49}-3-{1-16}
32 (Matrix End Stage 32)	M32-{4,5,10,11,16,17,22,23, 102,103 }-3-{1-16}	M32-{42-49, 50,51 }-3-{1-16}
M40 (Matrix End/Center Stage 40)	M40-{2,3}-{1,3}-{1-16}	M40-{40,41}-{1,3}-{1-16}
MCB (Master Clock Board)	MCB-{2,3}-3-1	MCB-{40,41}-3-1
O1B (Optical Interface Level 1 [OC-3] Board)	O1B-{6-9, 12-15, 18-21, 24-43, 104-111 ,112-135, 136-141 }-{1, 3}-{2-9, 11-18}	O1B-{60-83, 84-89 ,90-97, 98,99 ,112-135, 136-141 }-{1, 3}-{2-9, 11-18}
O4M (OC-12 Muldem)	O4M-{6-9,12-15,18-21,24-43, 104-111 , 112-135, 136-141 }-{1, 3}-{2,3,11,12}	O4M-{60-83, 84-89 ,90-97, 98,99 ,112-135, 136-141 }-{1,3}-{2,3,11,12}
OPD (Optical Disk Drive)	OPD-1-3-1, OPD-1-4-2	OPD-1-3-1, OPD-1-4-2
OXB (Optical Transceiver Board)	OXB-{44-63}-{1-4}-{1,2}	OXB-{3-6,10-25}-{1-4}-{1,2}
P39 (Power Supply, 3.9V)	For Racks without an RPC shelf: P39-{6-9,12-15,18-21,24-43, 104-111 , 112-135, 136-141 }-{1, 3}-{1-3}, P39-{4, 5,10,11,16, 17, 22, 23, 102,103 }-1-{1-3}, P39-{4, 5, 10, 11,16,17,22, 23, 102,103 }-3-{1-4}	P39-{60-83, 84-89 ,90-97, 98,99 ,112-135, 136-141 }-{1, 3}-{1,3}, P39-{42-49, 50,51 }-1-{1-3}, P39-{42-49, 50,51 }-3-{1-4}
	For Racks with an RPC shelf: P39-{6-9,12-15,18-21,24-43, 104-111 , 112-135, 136-141 }-{1, 3}-{1-3}, P39-{6-9,12-15,18-21,24-43, 104-111 , 112-135, 136-141 }-2-{3, 7, 11, 15}, P39-{4, 5, 10, 11,16,17, 22, 23, 102,103 }-1-{1-3}, P39-{4, 5, 10, 11,16,17, 22, 23, 102,103 }-2-{3, 7, 11, 12, 15}, P39-{4, 5, 10, 11, 16,17,22, 23, 102,103 }-3-{1-3}	N/A

Table B.1. Alcatel and Alternate Equipment AIDs

Equipment Description	Alcatel AIDs	Alternate AIDs
P56 (Power Supply, 5.6V)	For Racks without an RPC shelf: P56-{6-9, 12-15, 18-21, 24-43, 104-111,112-135,136-141 }-{1, 3} - {1-5}, P56-{2, 3}-{1, 3}-{1-4} P56 - {4, 5, 10, 11, 16, 17, 22, 23, 102,103 }-3- {1-4}, P56-{4,5,10,11,16,17,22,23, 102,103 }-1 - {1-5}	P56-{60-83, 84-89,90-97,98,99 ,112-13 5136-141 }-{1, 3} - {1-5} P56-{40,41}-{1, 3}-{1-4}, P56 - {42-49, 50,51 }-3-{1-4}, P56 - {42-49, 50,51 } -1 - {1-5}
	For Racks with an RPC shelf: P56-{6-9, 12-15, 18-21, 24-43,104-111, 112-135,136-141}-{1, 3} - {1,2,4,5} P56-{6-9,12-15,18-21,24-43,104-111, 112-135,136-141}-2-{1,2,5,6,9,10 ,13,14} P56-{2, 3}-{1, 3}-{1-3}, P56 - {4, 5, 10, 11, 16, 17, 22, 23,102,103}-3- {1-3}, P56 - {4, 5, 10, 11, 16, 17, 22,23,102,103}-1-{1, 2, 4, 5}, P56-{2, 3}-2-{1, 2, 5, 9, 10, 13}, P56-{4, 5, 10, 11, 16, 17, 22, 23,102,103}-2-{1, 2, 5, 6, 9, 10, 13}	N/A
PDU (Power Distribution Unit)	PDU-{2-43,102-111112-135,136-141} -0-1	PDU-{40-49,50,51,60-83,84-89,90-97 ,98,99,112-135,136-141}-0-1
PRT (DSI Protect)	PRT-{44-63}-{1-4}-{8,16,24,32}	PRT-{3-6,10-25}-{1-4}-{8,16,24,32}
PSF (Power Supply, 5V)	PSF-1-{3,4}-{1,2}, PSF-{44-63}-{1-4}-{1,2}	PSF-1-{3,4}-{1,2}, PSF-{3-6,10-25}-{1-4}-{1,2}
PST (Power Supply, 12V)	PST-1-{3,4}-{1,2}	PST-1-{3,4}-{1,2}
QUAD (DS1 Shelf Quadrant)	QUAD-{44-63}-{1-4}-{1-4}	QUAD-{3-6,10-25}-{1-4}-{1-4}
RACK (Rack/Bay)	RACK-{1-63,101,102-111,112-135,136 -141}-0-1	RACK-{1,3-6,10-25,40-49,50,51,60-8 3,84-89,90-97,98,99,101,112-135,136 -141}-0-1
RDU (Rack Distribution Unit)	RDU-{44-63}-0-1	RDU-{3-6,10-25}-0-1
RPB (Ring Protection Board)	RPB-{6-9,12-15,18-21,24-43,104-111 ,112-135,136-141}-{1, 3}-{1, 2}	RPB-{60-83,84-89,90-97,98,99,112- 135,136-141}-{1,3}-{1, 2}
RSP (Rack Status Panel)	RSP-{1,101}-0-1	RSP-{1,101}-0-1
S3M (STS-3 Transmux Mul- dem)	S3M-{6-9,12-15,18-21,24-43,104-111 ,112-135,136-141}-{1,3}-{4-9, 13-18}	S3M-{60-83,84-89,90-97,98,99,112- 135,136-141}-{1,3}-{4-9,13-18}
SBT (System Bus Termination)	SBT-1-2-{1-4}	SBT-1-2-{1-4}
SHELF (I/O, EOC, ES, CS Shelf)	SHELF-{2, 3}-{1,3}-1, SHELF-{4-43,102-111,112-135, 136-141}-{1, 3}-1	SHELF-{40,41}-{1,3}-1, SHELF-{42-49,50,51,60-83,84-89,90- 97,98,99,112-135,136-141}-{1,3}-1
SIO (Serial Input/OutputSIO (Serial Input/Output	SIO-1-2-{1,2,8,9}	SIO-1-2-{1,2,8,9}
SPB (Satellite Processor Board)	SPB-{2, 3}-{1,3}-{1, 2}, SPB-{4-43,102-111,112-135,136-141} - {1, 3}-{1, 2}	SPB-{40,41}-{1,3}-{1, 2}, SPB-{42-49,50,51,60-83,84-89,90-97, 98,99,112-135,136-141}-{1, 3}-{1, 2}

Table B.1. Alcatel and Alternate Equipment AIDs		
Equipment Description	Alcatel AIDs	Alternate AIDs
SWI (DSI Switch circuit pack)	SWI-{44-63}-{1-4}-{1-7,9-15,17-23,25-31}	SWI-{3-6,10-25}-{1-4}-{1-7,9-15,17-23,25-31}
TGR	TGR-{6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42,104-106,108-110}-{1, 3}-{9, 18} TGR-{9, 21, 35, 43,107}-3-{9, 18} TGR-{15, 27, 31, 39,111}-1-{9, 18}	TGR-{60-83,84-89}-{1,3}-{9-18} TGR-{91,92,95,97,98}-3-{9,18} TGR-{90,93,94,96,99}-1-{9,18}
Equipment AIDs in 240 port LMC matrix Shelves:	Equipment AIDs in CMC Shelves: CDB-5-{1,3}-{1,2} EOB-5-{1,3}-{1-5} M32-5-{1,3}-{1-3,6-8} M40-5-{1,3}-{4,5,9,10} MCB-5-{1,3}-1 P39-5-1-{1-3,4} P39-5-3-{1-4} P56-5-{1,3}-{1-4} SHELF-5-{1,3}-{1} SPB-5-{1,3}-{1,2}	Equipment AIDs in CMC Shelves: CDB-43-{1,3}-{1,2} EOB-43-{1,3}-{1-5} M32-43-{1,3}-{1-3,6-8} M40-43-{1,3}-{4,5,9,10} MCB-43-{1,3}-1 P39-43-1-{1-3,4} P39-43-3-{1-4} P56-43-{1,3}-{1-4} SHELF-43-{1,3}-{1} SPB-43-{1,3}-{1,2}
Cable AIDs in 240 port LMC matrix Shelves:	Cable AIDs in CMC Shelves: G1EOB-5-{1,3}-{1-5}-{1-16} G4EOB-5-{1,3}-{1-5}-{1-4} G1M32-5-{1,3}-{1-3,6-8}-{1-32} G1M40-5-{1,3}-{4,5,9,10}-{1-32}	Cable AIDs in CMC Shelves: G1EOB-5-{1,3}-{1-5}-{1-16} G4EOB-5-{1,3}-{1-5}-{1-4} G1M32-5-{1,3}-{1-3,6-8}-{1-32} G1M40-5-{1,3}-{4,5,9,10}-{1-32}
Equipment AIDs for RPC shelf in the 240 port LMC matrix Rack:	Equipment AIDs for RPC shelf in the CMC Rack: P39-5-{1,3}-{3,4,7,11,12,15} P56-5-{1,3}-{1,2,5,9,10,13}	Equipment AIDs for RPC shelf in the CMC Rack: P39-43-{1,3}-{3,4,7,11,12,15} P56-43-{1,3}-{1,2,5,9,10,13}

B.4. Facility AIDs vs. Input/Output Equipment AIDs for SI48 Racks

Table B.2. provides a cross-reference of facility AIDs vs. I/O Equipment AIDs for SI48 Racks (shelf type = SI48). Alcatel AIDs and Alternate AIDs are shown.

Table B.2. does not include a cross-reference of I/O equipment AIDs to facility AIDs for constituents of an OC-3, OC-12, EC1, or DS3. These AIDs can be determined by extrapolating from an OC3 AID, an OC12 AID, an EC1 AID, or a T3 AID, respectively. For example:

An EC1VT1 AID has the format EC1VT1-EC1/STS1#-VTGrp#-VT1.5# with possible values of:
{EC1VT1-{1-3840}-{1-7}-{1-4}} (EC1VT1-EC1/STS1#-VTGrp#-VT1.5#)

Table B.2. Facility AIDs for SI48 I/O Racks			
Alcatel AID Equipment	Alcatel AID Facility	Alternate AID Equipment	Alternate AID Facility
EP3-6-1- {2-9, 11-18}	EC1-{1-48} T3-{961-1008}	EP3-63-1- {2-9, 11-18}	EC1-{577-624} T3-{577-624}
ES1-6-1- {2-9, 11-18}	EC1-{1-48}	ES1-63-1- {2-9, 11-18}	EC1-{577-624}
O1B-6-1- {2-9, 11-18}	OC3-{1-16}	O1B-63-1- {2-9, 11-18}	OC3-{289-304}
O4M-6-1- {2-3, 11-12}	OC12-{1-4}	O4M-63-1- {2-3, 11-12}	OC12-{25-28}
EP3-6-3- {2-9, 11-18}	EC1-{49-96} T3-{1009-1056}	EP3-63-3- {2-9, 11-18}	EC1-{625-672} T3-{625-672}
ES1-6-3- {2-9, 11-18}	EC1-{49-96}	ES1-63-3- {2-9, 11-18}	EC1-{625-672}
O1B-6-3- {2-9, 11-18}	OC3-{17-32}	O1B-63-3- {2-9, 11-18}	OC3-{305-320}
O4M-6-3- {2-3, 11-12}	OC12-{5-8}	O4M-63-3- {2-3, 11-12}	OC12-{29-32}
EP3-7-1- {2-9, 11-18}	EC1-{97-144} T3-{1057-1104}	EP3-64-1- {2-9, 11-18}	EC1-{673-720} T3-{673-720}
ES1-7-1- {2-9, 11-18}	EC1-{97-144}	ES1-64-1- {2-9, 11-18}	EC1-{673-720}
O1B-7-1- {2-9, 11-18}	OC3-{33-48}	O1B-64-1- {2-9, 11-18}	OC3-{321-336}
O4M-7-1- {2-3, 11-12}	OC12-{9-12}	O4M-64-1- {2-3, 11-12}	OC12-{33-36}
EP3-7-3- {2-9, 11-18}	EC1-{145-192} T3-{1105-1152}	EP3-64-3- {2-9, 11-18}	EC1-{721-768} T3-{721-768}
ES1-7-3- {2-9, 11-18}	EC1-{145-192}	ES1-64-3- {2-9, 11-18}	EC1-{721-768}
O1B-7-3- {2-9, 11-18}	OC3-{49-64}	O1B-64-3- {2-9, 11-18}	OC3-{337-352}
O4M-7-3- {2-3, 11-12}	OC12-{13-16}	O4M-64-3- {2-3, 11-12}	OC12-{37-40}
EP3-8-1- {2-9, 11-18}	EC1-{193-240} T3-{1153-1200}	EP3-65-1- {2-9, 11-18}	EC1-{769-816} T3-{769-816}
ES1-8-1- {2-9, 11-18}	EC1-{193-240}	ES1-65-1- {2-9, 11-18}	EC1-{769-816}

Table B.2. Facility AIDs for SI48 I/O Racks (Continued)			
Alcatel AID Equipment	Alcatel AID Facility	Alternate AID Equipment	Alternate AID Facility
O1B-8-1- {2-9, 11-18}	OC3-{65-80}	O1B-65-1- {2-9, 11-18}	OC3-{353-368}
O4M-8-1- {2-3,11-12}	OC12-{17-20}	O4M-65-1- {2-3,11-12}	OC12-{41-44}
EP3-8-3- {2-9, 11-18}	EC1-{241-288} T3-{1201-1248}	EP3-65-3- {2-9, 11-18}	EC1-{817-864} T3-{817-864}
ES1-8-3- {2-9, 11-18}	EC1-{241-288}	ES1-65-3- {2-9, 11-18}	EC1-{817-864}
O1B-8-3- {2-9, 11-18}	OC3-{81-96}	O1B-65-3- {2-9, 11-18}	OC3-{369-384}
O4M-8-3- {2-3,11-12}	OC12-{21-24}	O4M-65-3- {2-3,11-12}	OC12-{45-48}
O1B-9-1- {2-9, 11-18}	OC3-{97-112}	O1B-91-1- {2-9, 11-18}	OC3-{1185-1200}
O4M-9-1- {2-3,11-12}	OC12-{25-28}	O4M-91-1- {2-3,11-12}	OC12-{249-252}
EP3-9-3- {2-9, 11-18}	EC1-{337-384} T3-{1297-1344}	EP3-91-3- {2-9, 11-18}	EC1-{3313-3360} T3-{3313-3360}
ES1-9-3- {2-9, 11-18}	EC1-{337-384}	ES1-91-3- {2-9, 11-18}	EC1-{3313-3360}
O1B-9-3- {2-9, 11-18}	OC3-{113-128}	O1B-91-3- {2-9, 11-18}	OC3-{1201-1216}
O4M-9-3- {2-3,11-12}	OC12-{29-32}	O4M-91-3- {2-3,11-12}	OC12-{253-256}
EP3-12-1- {2-9, 11-18}	EC1-{385-432} T3-{1345-1392}	EP3-60-1- {2-9, 11-18}	EC1-{289-336} T3-{289-336}
ES1-12-1- {2-9, 11-18}	EC1-{385-432}	ES1-60-1- {2-9, 11-18}	EC1-{289-336}
O1B-12-1- {2-9, 11-18}	OC3-{129-144}	O1B-60-1- {2-9, 11-18}	OC3-{193-208}
O4M-12-1- {2-3,11-12}	OC12-{33-36}	O4M-60-1- {2-3,11-12}	OC12-{1-4}
EP3-12-3- {2-9, 11-18}	EC1-{433-480} T3-{1393-1440}	EP3-60-3- {2-9, 11-18}	EC1-{337-384} T3-{337-384}
ES1-12-3- {2-9, 11-18}	EC1-{433-480}	ES1-60-3- {2-9, 11-18}	EC1-{337-384}
O1B-12-3- {2-9, 11-18}	OC3-{145-160}	O1B-60-3- {2-9, 11-18}	OC3-{209-224}
O4M-12-3- {2-3,11-12}	OC12-{37-40}	O4M-60-3- {2-3,11-12}	OC12-{5-8}
EP3-13-1- {2-9, 11-18}	EC1-{481-528} T3-{1441-1488}	EP3-61-1- {2-9, 11-18}	EC1-{385-432} T3-{385-432}
ES1-13-1- {2-9, 11-18}	EC1-{481-528}	ES1-61-1- {2-9, 11-18}	EC1-{385-432}

Table B.2. Facility AIDs for SI48 I/O Racks (Continued)

Alcatel AID Equipment	Alcatel AID Facility	Alternate AID Equipment	Alternate AID Facility
O1B-13-1- {2-9, 11-18}	OC3-{161-176}	O1B-61-1- {2-9, 11-18}	OC3-{225-240}
O4M-13-1- {2-3,11-12}	OC12-{41-44}	O4M-61-1- {2-3,11-12}	OC12-{9-12}
EP3-13-3- {2-9, 11-18}	EC1-{529-576} T3-{1489-1536}	EP3-61-3- {2-9, 11-18}	EC1-{433-480} T3-{433-480}
ES1-13-3- {2-9, 11-18}	EC1-{529-576}	ES1-61-3- {2-9, 11-18}	EC1-{433-480}
O1B-13-3- {2-9, 11-18}	OC3-{177-192}	O1B-61-3- {2-9, 11-18}	OC3-{241-256}
O4M-13-3- {2-3,11-12}	OC12-{45-48}	O4M-61-3- {2-3,11-12}	OC12-{13-16}
EP3-14-1- {2-9, 11-18}	EC1-{577-624} T3-{1537-1584}	EP3-62-1- {2-9, 11-18}	EC1-{481-528} T3-{481-528}
ES1-14-1- {2-9, 11-18}	EC1-{577-624}	ES1-62-1- {2-9, 11-18}	EC1-{481-528}
O1B-14-1- {2-9, 11-18}	OC3-{193-208}	O1B-62-1- {2-9, 11-18}	OC3-{257-272}
O4M-14-1- {2-3,11-12}	OC12-{49-52}	O4M-62-1- {2-3,11-12}	OC12-{17-20}
EP3-14-3- {2-9, 11-18}	EC1-{625-672} T3-{1585-1632}	EP3-62-3- {2-9, 11-18}	EC1-{529-576} T3-{529-576}
ES1-14-3- {2-9, 11-18}	EC1-{625-672}	ES1-62-3- {2-9, 11-18}	EC1-{529-576}
O1B-14-3- {2-9, 11-18}	OC3-{209-224}	O1B-62-3- {2-9, 11-18}	OC3-{273-288}
O4M-14-3- {2-3,11-12}	OC12-{53-56}	O4M-62-3- {2-3,11-12}	OC12-{21-24}
EP3-15-1- {2-9, 11-18}	EC1-{673-720} T3-{1633-1680}	EP3-90-1- {2-9, 11-18}	EC1-{3169-3216} T3-{3169-3216}
ES1-15-1- {2-9, 11-18}	EC1-{673-720}	ES1-90-1- {2-9, 11-18}	EC1-{3169-3216}
O1B-15-1- {2-9, 11-18}	OC3-{225-240}	O1B-90-1- {2-9, 11-18}	OC3-{1153-1168}
O4M-15-1- {2-3,11-12}	OC12-{57-60}	O4M-90-1- {2-3,11-12}	OC12-{241-244}
O1B-15-3- {2-9, 11-18}	OC3-{241-256}	O1B-90-3- {2-9, 11-18}	OC3-{1169-1184}
O4M-15-3- {2-3,11-12}	OC12-{61-64}	O4M-90-3- {2-3,11-12}	OC12-{245-248}
EP3-18-1- {2-9, 11-18}	EC1-{769-816} T3-{1729-1776}	EP3-66-1- {2-9, 11-18}	EC1-{865-912}, T3-{865-912}
ES1-18-1- {2-9, 11-18}	EC1-{769-816}	ES1-66-1- {2-9, 11-18}	EC1-{865-912}

Table B.2. Facility AIDs for SI48 I/O Racks (Continued)			
Alcatel AID Equipment	Alcatel AID Facility	Alternate AID Equipment	Alternate AID Facility
O1B-18-1- {2-9, 11-18}	OC3-{257-272}	O1B-66-1- {2-9, 11-18}	OC3-{385-400}
O4M-18-1- {2-3,11-12}	OC12-{65-68}	O4M-66-1- {2-3,11-12}	OC12-{49-52}
EP3-18-3- {2-9, 11-18}	EC1-{817-864} T3-{1777-1824}	EP3-66-3- {2-9, 11-18}	EC1-{913-960} T3-{913-960}
ES1-18-3- {2-9, 11-18}	EC1-{817-864}	ES1-66-3- {2-9, 11-18}	EC1-{913-960}
O1B-18-3- {2-9, 11-18}	OC3-{273-288}	O1B-66-3- {2-9, 11-18}	OC3-{401-416}
O4M-18-3- {2-3,11-12}	OC12-{69-72}	O4M-66-3- {2-3,11-12}	OC12-{53-56}
EP3-19-1- {2-9, 11-18}	EC1-{865-912} T3-{1825-1872}	EP3-67-1- {2-9, 11-18}	EC1-{961-1008} T3-{961-1008}
ES1-19-1- {2-9, 11-18}	EC1-{865-912}	ES1-67-1- {2-9, 11-18}	EC1-{961-1008}
O1B-19-1- {2-9, 11-18}	OC3-{289-304}	O1B-67-1- {2-9, 11-18}	OC3-{417-432}
O4M-19-1- {2-3,11-12}	OC12-{73-76}	O4M-67-1- {2-3,11-12}	OC12-{57-60}
EP3-19-3- {2-9, 11-18}	EC1-{913-960} T3-{1873-1920}	EP3-67-3- {2-9, 11-18}	EC1-{1009-1056} T3-{1009-1056}
ES1-19-3- {2-9, 11-18}	EC1-{913-960}	ES1-67-3- {2-9, 11-18}	EC1-{1009-1056}
O1B-19-3- {2-9, 11-18}	OC3-{305-320}	O1B-67-3- {2-9, 11-18}	OC3-{433-448}
O4M-19-3- {2-3,11-12}	OC12-{77-80}	O4M-67-3- {2-3,11-12}	OC12-{61-64}
EP3-20-1- {2-9, 11-18}	EC1-{961-1008} T3-{1921-1968}	EP3-68-1- {2-9, 11-18}	EC1-{1057-1104} T3-{1057-1104}
ES1-20-1- {2-9, 11-18}	EC1-{961-1008}	ES1-68-1- {2-9, 11-18}	EC1-{1057-1104}
O1B-20-1- {2-9, 11-18}	OC3-{321-336}	O1B-68-1- {2-9, 11-18}	OC3-{449-464}
O4M-20-1- {2-3,11-12}	OC12-{81-84}	O4M-68-1- {2-3,11-12}	OC12-{65-68}
EP3-20-3- {2-9, 11-18}	EC1-{1009-1056}, T3-{1969-2016}	EP3-68-3- {2-9, 11-18}	EC1-{1105-1152} T3-{1105-1152}
ES1-20-3- {2-9, 11-18}	EC1-{1009-1056}	ES1-68-3- {2-9, 11-18}	EC1-{1105-1152}
O1B-20-3- {2-9, 11-18}	OC3-{337-352}	O1B-68-3- {2-9, 11-18}	OC3-{465-480}
O4M-20-3- {2-3,11-12}	OC12-{85-88}	O4M-68-3- {2-3,11-12}	OC12-{69-72}

Table B.2. Facility AIDs for SI48 I/O Racks (Continued)

Alcatel AID Equipment	Alcatel AID Facility	Alternate AID Equipment	Alternate AID Facility
O1B-21-1- {2-9, 11-18}	OC3-{353-368}	O1B-92-1- {2-9, 11-18}	OC3-{1217-1232}
O4M-21-1- {2-3,11-12}	OC12-{89-92}	O4M-92-1- {2-3,11-12}	OC12-{257-260}
EP3-21-3- {2-9, 11-18}	EC1-{1105-1152} T3-{2065-2112}	EP3-92-3- {2-9, 11-18}	EC1-{3409-3456} T3-{3409-3456}
ES1-21-3- {2-9, 11-18}	EC1-{1105-1152}	ES1-92-3- {2-9, 11-18}	EC1-{3409-3456}
O1B-21-3- {2-9, 11-18}	OC3-{369-384}	O1B-92-3- {2-9, 11-18}	OC3-{1233-1248}
O4M-21-3- {2-3,11-12}	OC12-{93-96}	O4M-92-3- {2-3,11-12}	OC12-{261-264}
EP3-24-1- {2-9, 11-18}	EC1-{1153-1200} T3-{2113-2160}	EP3-69-1- {2-9, 11-18}	EC1-{1153-1200} T3-{1153-1200}
ES1-24-1- {2-9, 11-18}	EC1-{1153-1200}	ES1-69-1- {2-9, 11-18}	EC1-{1153-1200}
O1B-24-1- {2-9, 11-18}	OC3-{385-400}	O1B-69-1- {2-9, 11-18}	OC3-{481-496}
O4M-24-1- {2-3,11-12}	OC12-{97-100}	O4M-69-1- {2-3,11-12}	OC12-{73-76}
EP3-24-3- {2-9, 11-18}	EC1-{1201-1248} T3-{2161-2208}	EP3-69-3- {2-9, 11-18}	EC1-{1201-1248} T3-{1201-1248}
ES1-24-3- {2-9, 11-18}	EC1-{1201-1248}	ES1-69-3- {2-9, 11-18}	EC1-{1201-1248}
O1B-24-3- {2-9, 11-18}	OC3-{401-416}	O1B-69-3- {2-9, 11-18}	OC3-{497-512}
O4M-24-3- {2-3,11-12}	OC12-{101-104}	O4M-69-3- {2-3,11-12}	OC12-{77-80}
EP3-25-1- {2-9, 11-18}	EC1-{1249-1296} T3-{1209-2256}	EP3-70-1- {2-9, 11-18}	EC1-{1249-1296} T3-{1249-1296}
ES1-25-1- {2-9, 11-18}	EC1-{1249-1296}	ES1-70-1- {2-9, 11-18}	EC1-{1249-1296}
O1B-25-1- {2-9, 11-18}	OC3-{417-432}	O1B-70-1- {2-9, 11-18}	OC3-{513-528}
O4M-25-1- {2-3,11-12}	OC12-{105-108}	O4M-70-1- {2-3,11-12}	OC12-{81-84}
EP3-25-3- {2-9, 11-18}	EC1-{1297-1344} T3-{2257-2304}	EP3-70-3- {2-9, 11-18}	EC1-{1297-1344} T3-{1297-1344}
ES1-25-3- {2-9, 11-18}	EC1-{1297-1344}	ES1-70-3- {2-9, 11-18}	EC1-{1297-1344}
O1B-25-3- {2-9, 11-18}	OC3-{433-448}	O1B-70-3- {2-9, 11-18}	OC3-{529-544}
O4M-25-3- {2-3,11-12}	OC12-{109-112}	O4M-70-3- {2-3,11-12}	OC12-{85-88}

Table B.2. Facility AIDs for SI48 I/O Racks (Continued)			
Alcatel AID Equipment	Alcatel AID Facility	Alternate AID Equipment	Alternate AID Facility
EP3-26-1- {2-9, 11-18}	EC1-{1345-1392} T3-{2305-2352}	EP3-71-1- {2-9, 11-18}	EC1-{1345-1392} T3-{1345-1392}
ES1-26-1- {2-9, 11-18}	EC1-{1345-1392}	ES1-71-1- {2-9, 11-18}	EC1-{1345-1392}
O1B-26-1- {2-9, 11-18}	OC3-{449-464}	O1B-71-1- {2-9, 11-18}	OC3-{545-560}
O4M-26-1- {2-3,11-12}	OC12-{113-116}	O4M-71-1- {2-3,11-12}	OC12-{89-92}
EP3-26-3- {2-9, 11-18}	EC1-{1393-1440} T3-{2353-2400}	EP3-71-3- {2-9, 11-18}	EC1-{1393-1440} T3-{1393-1440}
ES1-26-3- {2-9, 11-18}	EC1-{1393-1440}	ES1-71-3- {2-9, 11-18}	EC1-{1393-1440}
O1B-26-3- {2-9, 11-18}	OC3-{465-480}	O1B-71-3- {2-9, 11-18}	OC3-{561-576}
O4M-26-3- {2-3,11-12}	OC12-{117-120}	O4M-71-3- {2-3,11-12}	OC12-{93-96}
EP3-27-1- {2-9, 11-18}	EC1-{1441-1488} T3-{2401-2448}	EP3-93-1- {2-9, 11-18}	EC1-{3457-3504} T3-{3457-3504}
ES1-27-1- {2-9, 11-18}	EC1-{1441-1488}	ES1-93-1- {2-9, 11-18}	EC1-{3457-3504}
O1B-27-1- {2-9, 11-18}	OC3-{481-496}	O1B-93-1- {2-9, 11-18}	OC3-{1249-1264}
O4M-27-1- {2-3,11-12}	OC12-{121-124}	O4M-93-1- {2-3,11-12}	OC12-{265-268}
O1B-27-3- {2-9, 11-18}	OC3-{497-512}	O1B-93-3- {2-9, 11-18}	OC3-{1265-1280}
O4M-27-3- {2-3,11-12}	OC12-{125-128}	O4M-93-3- {2-3,11-12}	OC12-{269-272}
EP3-28-1- {2-9, 11-18}	EC1-{1537-1584} T3-{2497-2544}	EP3-72-1- {2-9, 11-18}	EC1-{1441-1488} T3-{1441-1488}
ES1-28-1- {2-9, 11-18}	EC1-{1537-1584}	ES1-72-1- {2-9, 11-18}	EC1-{1441-1488}
O1B-28-1- {2-9, 11-18}	OC3-{513-528}	O1B-72-1- {2-9, 11-18}	OC3-{577-592}
O4M-28-1- {2-3,11-12}	OC12-{129-132}	O4M-72-1- {2-3,11-12}	OC12-{97-100}
EP3-28-3- {2-9, 11-18}	EC1-{1585-1632} T3-{2545-2592}	EP3-72-3- {2-9, 11-18}	EC1-{1489-1536} T3-{1489-1536}
ES1-28-3- {2-9, 11-18}	EC1-{1585-1632}	ES1-72-3- {2-9, 11-18}	EC1-{1489-1536}
O1B-28-3- {2-9, 11-18}	OC3-{529-544}	O1B-72-3- {2-9, 11-18}	OC3-{593-608}
O4M-28-3- {2-3,11-12}	OC12-{133-136}	O4M-72-3- {2-3,11-12}	OC12-{101-104}

Table B.2. Facility AIDs for SI48 I/O Racks (Continued)

Alcatel AID Equipment	Alcatel AID Facility	Alternate AID Equipment	Alternate AID Facility
EP3-29-1- {2-9, 11-18}	EC1-{1633-1680} T3-{2593-2640}	EP3-73-1- {2-9, 11-18}	EC1-{1537-1584} T3-{1537-1584}
ES1-29-1- {2-9, 11-18}	EC1-{1633-1680}	ES1-73-1- {2-9, 11-18}	EC1-{1537-1584}
O1B-29-1- {2-9, 11-18}	OC3-{545-560}	O1B-73-1- {2-9, 11-18}	OC3-{609-624}
O4M-29-1- {2-3, 11-12}	OC12-{137-140}	O4M-73-1- {2-3, 11-12}	OC12-{105-108}
EP3-29-3- {2-9, 11-18}	EC1-{1681-1728} T3-{2641-2688}	EP3-73-3- {2-9, 11-18}	EC1-{1585-1632} T3-{1585-1632}
ES1-29-3- {2-9, 11-18}	EC1-{1681-1728}	ES1-73-3- {2-9, 11-18}	EC1-{1585-1632}
O1B-29-3- {2-9, 11-18}	OC3-{561-576}	O1B-73-3- {2-9, 11-18}	OC3-{625-640}
O4M-29-3- {2-3, 11-12}	OC12-{141-144}	O4M-73-3- {2-3, 11-12}	OC12-{109-112}
EP3-30-1- {2-9, 11-18}	EC1-{1729-1776} T3-{2689-2736}	EP3-74-1- {2-9, 11-18}	EC1-{1633-1680} T3-{1633-1680}
ES1-30-1- {2-9, 11-18}	EC1-{1729-1776}	ES1-74-1- {2-9, 11-18}	EC1-{1633-1680}
O1B-30-1- {2-9, 11-18}	OC3-{577-592}	O1B-74-1- {2-9, 11-18}	OC3-{641-656}
O4M-30-1- {2-3, 11-12}	OC12-{145-148}	O4M-74-1- {2-3, 11-12}	OC12-{113-116}
EP3-30-3- {2-9, 11-18}	EC1-{1777-1824} T3-{2737-2784}	EP3-74-3- {2-9, 11-18}	EC1-{1681-1728} T3-{1681-1728}
ES1-30-3- {2-9, 11-18}	EC1-{1777-1824}	ES1-74-3- {2-9, 11-18}	EC1-{1681-1728}
O1B-30-3- {2-9, 11-18}	OC3-{593-608}	O1B-74-3- {2-9, 11-18}	OC3-{657-672}
O4M-30-3- {2-3, 11-12}	OC12-{149-152}	O4M-74-3- {2-3, 11-12}	OC12-{117-120}
EP3-31-1- {2-9, 11-18}	EC1-{1825-1872} T3-{2785-2832}	EP3-94-1- {2-9, 11-18}	EC1-{3553-3600} T3-{3553-3600}
ES1-31-1- {2-9, 11-18}	EC1-{1825-1872}	ES1-94-1- {2-9, 11-18}	EC1-{3553-3600}
O1B-31-1- {2-9, 11-18}	OC3-{609-624}	O1B-94-1- {2-9, 11-18}	OC3-{1281-1296}
O4M-31-1- {2-3, 11-12}	OC12-{153-156}	O4M-94-1- {2-3, 11-12}	OC12-{273-276}
O1B-31-3- {2-9, 11-18}	OC3-{625-640}	O1B-94-3- {2-9, 11-18}	OC3-{1297-1312}
O4M-31-3- {2-3, 11-12}	OC12-{157-160}	O4M-94-3- {2-3, 11-12}	OC12-{277-280}

Table B.2. Facility AIDs for SI48 I/O Racks (Continued)			
Alcatel AID Equipment	Alcatel AID Facility	Alternate AID Equipment	Alternate AID Facility
EP3-32-1- {2-9, 11-18}	EC1-{1921-1968} T3-{2881-2928}	EP3-75-1- {2-9, 11-18}	EC1-{1729-1776} T3-{1729-1776}
ES1-32-1- {2-9, 11-18}	EC1-{1921-1968}	ES1-75-1- {2-9, 11-18}	EC1-{1729-1776}
O1B-32-1- {2-9, 11-18}	OC3-{641-656}	O1B-75-1- {2-9, 11-18}	OC3-{673-688}
O4M-32-1- {2-3, 11-12}	OC12-{161-164}	O4M-75-1- {2-3, 11-12}	OC12-{121-124}
EP3-32-3- {2-9, 11-18}	EC1-{1969-2016} T3-{2929-2976}	EP3-75-3- {2-9, 11-18}	EC1-{1777-1824} T3-{1777-1824}
ES1-32-3- {2-9, 11-18}	EC1-{1969-2016}	ES1-75-3- {2-9, 11-18}	EC1-{1777-1824}
O1B-32-3- {2-9, 11-18}	OC3-{657-672}	O1B-75-3- {2-9, 11-18}	OC3-{689-704}
O4M-32-3- {2-3, 11-12}	OC12-{165-168}	O4M-75-3- {2-3, 11-12}	OC12-{125-128}
EP3-33-1- {2-9, 11-18}	EC1-{2017-2064} T3-{2977-3024}	EP3-76-1- {2-9, 11-18}	EC1-{1825-1872} T3-{1825-1872}
ES1-33-1- {2-9, 11-18}	EC1-{2017-2064}	ES1-76-1- {2-9, 11-18}	EC1-{1825-1872}
O1B-33-1- {2-9, 11-18}	OC3-{673-688}	O1B-76-1- {2-9, 11-18}	OC3-{705-720}
O4M-33-1- {2-3, 11-12}	OC12-{169-172}	O4M-76-1- {2-3, 11-12}	OC12-{129-132}
EP3-33-3- {2-9, 11-18}	EC1-{2065-2112} T3-{3025-3072}	EP3-76-3- {2-9, 11-18}	EC1-{1873-1920} T3-{1873-1920}
ES1-33-3- {2-9, 11-18}	EC1-{2065-2112}	ES1-76-3- {2-9, 11-18}	EC1-{1873-1920}
O1B-33-3- {2-9, 11-18}	OC3-{689-704}	O1B-76-3- {2-9, 11-18}	OC3-{721-736}
O4M-33-3- {2-3, 11-12}	OC12-{173-176}	O4M-76-3- {2-3, 11-12}	OC12-{133-136}
EP3-34-1- {2-9, 11-18}	EC1-{2113-2160} T3-{3073-3120}	EP3-77-1- {2-9, 11-18}	EC1-{1921-1968} T3-{1921-1968}
ES1-34-1- {2-9, 11-18}	EC1-{2113-2160}	ES1-77-1- {2-9, 11-18}	EC1-{1921-1968}
O1B-34-1- {2-9, 11-18}	OC3-{705-720}	O1B-77-1- {2-9, 11-18}	OC3-{737-752}
O4M-34-1- {2-3, 11-12}	OC12-{177-180}	O4M-77-1- {2-3, 11-12}	OC12-{137-140}

Table B.2. Facility AIDs for SI48 I/O Racks (Continued)

Alcatel AID Equipment	Alcatel AID Facility	Alternate AID Equipment	Alternate AID Facility
EP3-34-3- {2-9, 11-18}	EC1-{2161-2208} T3-{3121-3168}	EP3-77-3- {2-9, 11-18}	EC1-{1969-2016} T3-{1969-2016}
ES1-34-3- {2-9, 11-18}	EC1-{2161-2208}	ES1-77-3- {2-9, 11-18}	EC1-{1969-2016}
O1B-34-3- {2-9, 11-18}	OC3-{721-736}	O1B-77-3- {2-9, 11-18}	OC3-{753-768}
O4M-34-3- {2-3, 11-12}	OC12-{181-184}	O4M-77-3- {2-3, 11-12}	OC12-{141-144}
O1B-35-1- {2-9, 11-18}	OC3-{737-752}	O1B-95-1- {2-9, 11-18}	OC3-{1313-1328}
O4M-35-1- {2-3, 11-12}	OC12-{185-188}	O4M-95-1- {2-3, 11-12}	OC12-{281-284}
EP3-35-3- {2-9, 11-18}	EC1-{2257-2304} T3-{3217-3264}	EP3-95-3- {2-9, 11-18}	EC1-{3697-3744} T3-{3697-3744}
ES1-35-3- {2-9, 11-18}	EC1-{2257-2304}	ES1-95-3- {2-9, 11-18}	EC1-{3697-3744}
O1B-35-3- {2-9, 11-18}	OC3-{753-768}	O1B-95-3- {2-9, 11-18}	OC3-{1329-1344}
O4M-35-3- {2-3, 11-12}	OC12-{189-192}	O4M-95-3- {2-3, 11-12}	OC12-{285-288}
EP3-36-1- {2-9, 11-18}	EC1-{2305-2352} T3-{3265-3312}	EP3-78-1- {2-9, 11-18}	EC1-{2017-2064} T3-{2017-2064}
ES1-36-1- {2-9, 11-18}	EC1-{2305-2352}	ES1-78-1- {2-9, 11-18}	EC1-{2017-2064}
O1B-36-1- {2-9, 11-18}	OC3-{769-784}	O1B-78-1- {2-9, 11-18}	OC3-{769-784}
O4M-36-1- {2-3, 11-12}	OC12-{193-196}	O4M-78-1- {2-3, 11-12}	OC12-{145-148}
EP3-36-3- {2-9, 11-18}	EC1-{2353-2400} T3-{3313-3360}	EP3-78-3- {2-9, 11-18}	EC1-{2065-2112}, T3-{2065-2112}
ES1-36-3- {2-9, 11-18}	EC1-{2353-2400}	ES1-78-3- {2-9, 11-18}	EC1-{2065-2112}
O1B-36-3- {2-9, 11-18}	OC3-{785-800}	O1B-78-3- {2-9, 11-18}	OC3-{785-800}
O4M-36-3- {2-3, 11-12}	OC12-{197-200}	O4M-78-3- {2-3, 11-12}	OC12-{149-152}
EP3-37-1- {2-9, 11-18}	EC1-{2401-2448}, T3-{3361-3408}	EP3-79-1- {2-9, 11-18}	EC1-{2113-2160}, T3-{2113-2160}
ES1-37-1- {2-9, 11-18}	EC1-{2401-2448}	ES1-79-1- {2-9, 11-18}	EC1-{2113-2160}
O1B-37-1- {2-9, 11-18}	OC3-{801-816}	O1B-79-1- {2-9, 11-18}	OC3-{801-816}
O4M-37-1- {2-3, 11-12}	OC12-{201-204}	O4M-79-1- {2-3, 11-12}	OC12-{153-156}

Table B.2. Facility AIDs for SI48 I/O Racks (Continued)			
Alcatel AID Equipment	Alcatel AID Facility	Alternate AID Equipment	Alternate AID Facility
EP3-37-3- {2-9, 11-18}	EC1-{2449-2496}, T3-{3409-3456}	EP3-79-3- {2-9, 11-18}	EC1-{2161-2208}, T3-{2161-2208}
ES1-37-3- {2-9, 11-18}	EC1-{2449-2496}	ES1-79-3- {2-9, 11-18}	EC1-{2161-2208}
O1B-37-3- {2-9, 11-18}	OC3-{817-832}	O1B-79-3- {2-9, 11-18}	OC3-{817-832}
O4M-37-3- {2-3,11-12}	OC12-{205-208}	O4M-79-3- {2-3,11-12}	OC12-{157-160}
EP3-38-1- {2-9, 11-18}	EC1-{2497-2544}, T3-{3457-3504}	EP3-80-1- {2-9, 11-18}	EC1-{2209-2256}, T3-{2209-2256}
ES1-38-1- {2-9, 11-18}	EC1-{2497-2544}	ES1-80-1- {2-9, 11-18}	EC1-{2209-2256}
O1B-38-1- {2-9, 11-18}	OC3-{833-848}	O1B-80-1- {2-9, 11-18}	OC3-{833-848}
O4M-38-1- {2-3,11-12}	OC12-{209-212}	O4M-80-1- {2-3,11-12}	OC12-{161-164}
EP3-38-3- {2-9, 11-18}	EC1-{2545-2592}, T3-{3505-3552}	EP3-80-3- {2-9, 11-18}	EC1-{2257-2304}, T3-{2257-2304}
ES1-38-3- {2-9, 11-18}	EC1-{2545-2592}	ES1-80-3- {2-9, 11-18}	EC1-{2257-2304}
O1B-38-3- {2-9, 11-18}	OC3-{849-864}	O1B-80-3- {2-9, 11-18}	OC3-{849-864}
O4M-38-3- {2-3,11-12}	OC12-{213-216}	O4M-80-3- {2-3,11-12}	OC12-{165-168}
EP3-39-1- {2-9, 11-18}	EC1-{2593-2640}, T3-{3553-3600}	EP3-96-1- {2-9, 11-18}	EC1-{3745-3792}, T3-{3745-3792}
ES1-39-1- {2-9, 11-18}	EC1-{2593-2640}	ES1-96-1- {2-9, 11-18}	EC1-{3745-3792}
O1B-39-1- {2-9, 11-18}	OC3-{865-880}	O1B-96-1- {2-9, 11-18}	OC3-{1345-1360}
O4M-39-1- {2-3,11-12}	OC12-{217-220}	O4M-96-1- {2-3,11-12}	OC12-{289-292}
O1B-39-3- {2-9, 11-18}	OC3-{881-896}	O1B-96-3- {2-9, 11-18}	OC3-{1361-1376}
O4M-39-3- {2-3,11-12}	OC12-{221-224}	O4M-96-3- {2-3,11-12}	OC12-{293-296}
EP3-40-1- {2-9, 11-18}	EC1-{2689-2736}, T3-{3649-3696}	EP3-81-1- {2-9, 11-18}	EC1-{2305-2352}, T3-{2305-2352}
ES1-40-1- {2-9, 11-18}	EC1-{2689-2736}	ES1-81-1- {2-9, 11-18}	EC1-{2305-2352}
O1B-40-1- {2-9, 11-18}	OC3-{897-912}	O1B-81-1- {2-9, 11-18}	OC3-{865-880}
O4M-40-1- {2-3,11-12}	OC12-{225-228}	O4M-81-1- {2-3,11-12}	OC12-{169-172}

Table B.2. Facility AIDs for SI48 I/O Racks (Continued)

Alcatel AID Equipment	Alcatel AID Facility	Alternate AID Equipment	Alternate AID Facility
EP3-40-3- {2-9, 11-18}	EC1-{2737-2784}, T3-{3697-3744}	EP3-81-3- {2-9, 11-18}	EC1-{2353-2400}, T3-{2353-2400}
ES1-40-3- {2-9, 11-18}	EC1-{2737-2784}	ES1-81-3- {2-9, 11-18}	EC1-{2353-2400}
O1B-40-3- {2-9, 11-18}	OC3-{913-928}	O1B-81-3- {2-9, 11-18}	OC3-{881-896}
O4M-40-3- {2-3,11-12}	OC12-{229-232}	O4M-81-3- {2-3,11-12}	OC12-{173-176}
EP3-41-1- {2-9, 11-18}	EC1-{2785-2832}, T3-{3745-3792}	EP3-82-1- {2-9, 11-18}	EC1-{2401-2448}, T3-{2401-2448}
ES1-41-1- {2-9, 11-18}	EC1-{2785-2832}	ES1-82-1- {2-9, 11-18}	EC1-{2401-2448}
O1B-41-1- {2-9, 11-18}	OC3-{929-944}	O1B-82-1- {2-9, 11-18}	OC3-{897-912}
O4M-41-1- {2-3,11-12}	OC12-{233-236}	O4M-82-1- {2-3,11-12}	OC12-{177-180}
EP3-41-3- {2-9, 11-18}	EC1-{2833-2880}, T3-{3793-3840}	EP3-82-3- {2-9, 11-18}	EC1-{2449-2496}, T3-{2449-2496}
ES1-41-3- {2-9, 11-18}	EC1-{2833-2880}	ES1-82-3- {2-9, 11-18}	EC1-{2449-2496}
O1B-41-3- {2-9, 11-18}	OC3-{945-960}	O1B-82-3- {2-9, 11-18}	OC3-{913-928}
O4M-41-3- {2-3,11-12}	OC12-{237-240}	O4M-82-3- {2-3,11-12}	OC12-{181-184}
EP3-42-1- {2-9, 11-18}	EC1-{2881-2928}, T3-{3841-3888}	EP3-83-1- {2-9, 11-18}	EC1-{2497-2544}, T3-{2497-2544}
ES1-42-1- {2-9, 11-18}	EC1-{2881-2928}	ES1-83-1- {2-9, 11-18}	EC1-{2497-2544}
O1B-42-1- {2-9, 11-18}	OC3-{961-976}	O1B-83-1- {2-9, 11-18}	OC3-{929-944}
O4M-42-1- {2-3,11-12}	OC12-{241-244}	O4M-83-1- {2-3,11-12}	OC12-{185-188}
EP3-42-3- {2-9, 11-18}	EC1-{2929-2976}, T3-{3889-3936}	EP3-83-3- {2-9, 11-18}	EC1-{2545-2592}, T3-{2545-2592}
ES1-42-3- {2-9, 11-18}	EC1-{2929-2976}	ES1-83-3- {2-9, 11-18}	EC1-{2545-2592}
O1B-42-3- {2-9, 11-18}	OC3-{977-992}	O1B-83-3- {2-9, 11-18}	OC3-{945-960}
O4M-42-3- {2-3,11-12}	OC12-{245-248}	O4M-83-3- {2-3,11-12}	OC12-{189-192}
O1B-43-1- {2-9, 11-18}	OC3-{993-1008}	O1B-97-1- {2-9, 11-18}	OC3-{1377-1392}
O4M-43-1- {2-3,11-12}	OC12-{249-252}	O4M-97-1- {2-3,11-12}	OC12-{297-300}

Table B.2. Facility AIDs for SI48 I/O Racks (Continued)			
Alcatel AID Equipment	Alcatel AID Facility	Alternate AID Equipment	Alternate AID Facility
EP3-43-3- {2-9, 11-18}	EC1-{3025-3072}, T3-{3985-4032}	EP3-97-3- {2-9, 11-18}	EC1-{3889-3936}, T3-{3889-3936}
ES1-43-3- {2-9, 11-18}	EC1-{3025-3072}	ES1-97-3- {2-9, 11-18}	EC1-{3889-3936}
O1B-43-3- {2-9, 11-18}	OC3-{1009-1024}	O1B-97-3- {2-9, 11-18}	OC3-{1393-1408}
O4M-43-3- {2-3,11-12}	OC12-{253-256}	O4M-97-3- {2-3,11-12}	OC12-{301-304}
EP3-104-1- {2-9, 11-18}	EC1-{3073-3120}T3-{403 3-4080}	EP3-84-1- {2-9, 11-18}	EC1-{2593-2640}T3-{259 3-2640}
ES1-104-1- {2-9, 11-18}	EC1-{3073-3120}	ES1-84-1- {2-9, 11-18}	EC1-{2593-2640}
O1B-104-1- {2-9, 11-18}	OC3-{1025-1040}	O1B-84-1- {2-9, 11-18}	OC3-{961-976}
O4M-104-1- {2-3,11-12}	OC12-{257-260}	O4M-84-1- {2-3,11-12}	OC12-{193-196}
EP3-104-3- {2-9, 11-18}	EC1-{3121-3168}T3-{408 1-4128}	EP3-84-3- {2-9, 11-18}	EC1-{2641-2688} T3-{2641-2688}
ES1-104-3- {2-9, 11-18}	EC1-{3121-3168}	ES1-84-3- {2-9, 11-18}	EC1-{2641-2688}
O1B-104-3- {2-9, 11-18}	OC3-{1041-1056}	O1B-84-3- {2-9, 11-18}	OC3-{977-992}
O4M-104-3- {2-3,11-12}	OC12-{261-264}	O4M-84-3- {2-3,11-12}	OC12-{197-200}
EP3-105-1- {2-9, 11-18}	EC1-{3169-3216}T3-{412 9-4176}	EP3-85-1- {2-9, 11-18}	EC1-{2689-2736} T3-{2689-2736}
ES1-105-1- {2-9, 11-18}	EC1-{3169-3216}	ES1-85-1- {2-9, 11-18}	EC1-{2689-2736}
O1B-105-1- {2-9, 11-18}	OC3-{1057-1072}	O1B-85-1- {2-9, 11-18}	OC3-{993-1008}
O4M-105-1- {2-3,11-12}	OC12-{265-268}	O4M-85-1- {2-3,11-12}	OC12-{201-204}
EP3-105-3- {2-9, 11-18}	EC1-{3217-3264}T3-{417 7-4224}	EP3-85-3- {2-9, 11-18}	EC1-{2737-2784} T3-{2737-2784}
ES1-105-3- {2-9, 11-18}	EC1-{3217-3264}	ES1-85-3- {2-9, 11-18}	EC1-{2737-2784}
O1B-105-3- {2-9, 11-18}	OC3-{1073-1088}	O1B-85-3- {2-9, 11-18}	OC3-{1009-1024}
O4M-105-3- {2-3,11-12}	OC12-{269-272}	O4M-85-3- {2-3,11-12}	OC12-{205-208}
EP3-106-1- {2-9, 11-18}	EC1-{3265-3312}T3-{422 5-4272}	EP3-86-1- {2-9, 11-18}	EC1-{2785-2832} T3-{2785-2832}
ES1-106-1- {2-9, 11-18}	EC1-{3265-3312}	ES1-86-1- {2-9, 11-18}	EC1-{2785-2832}

Table B.2. Facility AIDs for SI48 I/O Racks (Continued)

Alcatel AID Equipment	Alcatel AID Facility	Alternate AID Equipment	Alternate AID Facility
O1B-106-1- {2-9, 11-18}	OC3-{1089-1104}	O1B-86-1- {2-9, 11-18}	OC3-{1025-1040}
O4M-106-1- {2-3,11-12}	OC12-{273-276}	O4M-86-1- {2-3,11-12}	OC12-{209-212}
EP3-106-3- {2-9, 11-18}	EC1-{3313-3360}T3-{427 3-4320}	EP3-86-3- {2-9, 11-18}	EC1-{2833-2880} T3-{2833-2880}
ES1-106-3- {2-9, 11-18}	EC1-{3313-3360}	ES1-86-3- {2-9, 11-18}	EC1-{2833-2880}
O1B-106-3- {2-9, 11-18}	OC3-{1105-1120}	O1B-86-3- {2-9, 11-18}	OC3-{1041-1056}
O4M-106-3- {2-3,11-12}	OC12-{277-280}	O4M-86-3- {2-3,11-12}	OC12-{213-216}
O1B-107-1- {2-9, 11-18}	OC3-{1121-1136}	O1B-98-1- {2-9, 11-18}	OC3-{1409-1424}
O4M-107-1- {2-3,11-12}	OC12-{281-284}	O4M-98-1- {2-3,11-12}	OC12-{305-308}
EP3-107-3- {2-9, 11-18}	EC1-{3409-3456}T3-{436 9-4416}	EP3-98-3- {2-9, 11-18}	EC1-{3985-4032} T3-{3985-4032}
ES1-107-3- {2-9, 11-18}	EC1-{3409-3456}	ES1-98-3- {2-9, 11-18}	EC1-{3985-4032}
O1B-107-3- {2-9, 11-18}	OC3-{1137-1152}	O1B-98-3- {2-9, 11-18}	OC3-{1425-1440}
O4M-107-3- {2-3,11-12}	OC12-{285-288}	O4M-98-3- {2-3,11-12}	OC12-{309-312}
EP3-108-1- {2-9, 11-18}	EC1-{3457-3504}T3-{441 7-4464}	EP3-87-1- {2-9, 11-18}	EC1-{2881-2928}T3-{288 1-2928}
ES1-108-1- {2-9, 11-18}	EC1-{3457-3504}	ES1-87-1- {2-9, 11-18}	EC1-{2881-2928}
O1B-108-1- {2-9, 11-18}	OC3-{1153-1168}	O1B-87-1- {2-9, 11-18}	OC3-{1057-1072}
O4M-108-1- {2-3,11-12}	OC12-{289-292}	O4M-87-1- {2-3,11-12}	OC12-{217-220}
EP3-108-3- {2-9, 11-18}	EC1-{3505-3552}T3-{446 5-4512}	EP3-87-3- {2-9, 11-18}	EC1-{2929-2976} T3-{2929-2976}
ES1-108-3- {2-9, 11-18}	EC1-{3505-3552}	ES1-87-3- {2-9, 11-18}	EC1-{2929-2976}
O1B-108-3- {2-9, 11-18}	OC3-{1169-1184}	O1B-87-3- {2-9, 11-18}	OC3-{1073-1088}
O4M-108-3- {2-3,11-12}	OC12-{293-296}	O4M-87-3- {2-3,11-12}	OC12-{221-224}
EP3-109-1- {2-9, 11-18}	EC1-{3553-3600}T3-{451 3-4560}	EP3-88-1- {2-9, 11-18}	EC1-{2977-3024} T3-{2977-3024}
ES1-109-1- {2-9, 11-18}	EC1-{3553-3600}	ES1-88-1- {2-9, 11-18}	EC1-{2977-3024}

Table B.2. Facility AIDs for SI48 I/O Racks (Continued)			
Alcatel AID Equipment	Alcatel AID Facility	Alternate AID Equipment	Alternate AID Facility
O1B-109-1- {2-9, 11-18}	OC3-{1185-1200}	O1B-88-1- {2-9, 11-18}	OC3-{1089-1104}
O4M-109-1- {2-3,11-12}	OC12-{297-300}	O4M-88-1- {2-3,11-12}	OC12-{225-228}
EP3-109-3- {2-9, 11-18}	EC1-{3601-3648}T3-{456 1-4608}	EP3-88-3- {2-9, 11-18}	EC1-{3025-3072} T3-{3025-3072}
ES1-109-3- {2-9, 11-18}	EC1-{3601-3648}	ES1-88-3- {2-9, 11-18}	EC1-{3025-3072}
O1B-109-3- {2-9, 11-18}	OC3-{1201-1216}	O1B-88-3- {2-9, 11-18}	OC3-{1105-1120}
O4M-109-3- {2-3,11-12}	OC12-{301-304}	O4M-88-3- {2-3,11-12}	OC12-{229-232}
EP3-110-1- {2-9, 11-18}	EC1-{3649-3696}T3-{460 9-4656}	EP3-89-1- {2-9, 11-18}	EC1-{3073-3120} T3-{3073-3120}
ES1-110-1- {2-9, 11-18}	EC1-{3649-3696}	ES1-89-1- {2-9, 11-18}	EC1-{3073-3120}
O1B-110-1- {2-9, 11-18}	OC3-{1217-1232}	O1B-89-1- {2-9, 11-18}	OC3-{1121-1136}
O4M-110-1- {2-3,11-12}	OC12-{305-308}	O4M-89-1- {2-3,11-12}	OC12-{233-236}
EP3-110-3- {2-9, 11-18}	EC1-{3697-3744}T3-{465 7-4704}	EP3-89-3- {2-9, 11-18}	EC1-{3121-3168} T3-{3121-3168}
ES1-110-3- {2-9, 11-18}	EC1-{3697-3744}	ES1-89-3- {2-9, 11-18}	EC1-{3121-3168}
O1B-110-3- {2-9, 11-18}	OC3-{1233-1248}	O1B-89-3- {2-9, 11-18}	OC3-{1137-1152}
O4M-110-3- {2-3,11-12}	OC12-{309-312}	O4M-89-3- {2-3,11-12}	OC12-{237-240}
EP3-111-1- {2-9, 11-18}	EC1-{3745-3792}T3-{470 5-4752}	EP3-99-1- {2-9, 11-18}	EC1-{4033-4080} T3-{4033-4080}
ES1-111-1- {2-9, 11-18}	EC1-{3745-3792}	ES1-99-1- {2-9, 11-18}	EC1-{4033-4080}
O1B-111-1- {2-9, 11-18}	OC3-{1249-1264}	O1B-99-1- {2-9, 11-18}	OC3-{1441-1456}
O4M-111-1- {2-3,11-12}	OC12-{313-316}	O4M-99-1- {2-3,11-12}	OC12-{313-316}
O1B-111-3- {2-9, 11-18}	OC3-{1265-1280}	O1B-99-3- {2-9, 11-18}	OC3-{1457-1472}
O4M-111-3- {2-3,11-12}	OC12-{317-320}	O4M-99-3- {2-3,11-12}	OC12-{317-320}
O1B-112-1- {2-9, 11-18}	OC3-{1281-1296}	O1B-112-1- {2-9, 11-18}	OC3-{1857-1872}
O4M-112-1- {2-3,11-12}	OC12-{321-324}	O4M-112-1- {2-3,11-12}	OC12-{417-420}

Table B.2. Facility AIDs for SI48 I/O Racks (Continued)

Alcatel AID Equipment	Alcatel AID Facility	Alternate AID Equipment	Alternate AID Facility
O1B-112-3- {2-9, 11-18}	OC3-{1297-1312}	O1B-112-3- {2-9, 11-18}	OC3-{1873-1888}
O4M-112-3- {2-3, 11-12}	OC12-{325-328}	O4M-112-3- {2-3, 11-12}	OC12-{421-424}
O1B-113-1- {2-9, 11-18}	OC3-{1313-1328}	O1B-113-1- {2-9, 11-18}	OC3-{1889-1904}
O4M-113-1- {2-3, 11-12}	OC12-{329-332}	O4M-113-1- {2-3, 11-12}	OC12-{425-428}
O1B-113-3- {2-9, 11-18}	OC3-{1329-1344}	O1B-113-3- {2-9, 11-18}	OC3-{1905-1920}
O4M-113-3- {2-3, 11-12}	OC12-{333-336}	O4M-113-3- {2-3, 11-12}	OC12-{429-432}
O1B-114-1- {2-9, 11-18}	OC3-{1345-1360}	O1B-114-1- {2-9, 11-18}	OC3-{1921-1936}
O4M-114-1- {2-3, 11-12}	OC12-{337-340}	O4M-114-1- {2-3, 11-12}	OC12-{433-436}
O1B-114-3- {2-9, 11-18}	OC3-{1361-1376}	O1B-114-3- {2-9, 11-18}	OC3-{1937-1952}
O4M-114-3- {2-3, 11-12}	OC12-{341-344}	O4M-114-3- {2-3, 11-12}	OC12-{437-440}
O1B-115-1- {2-9, 11-18}	OC3-{1377-1392}	O1B-115-1- {2-9, 11-18}	OC3-{1953-1968}
O4M-115-1- {2-3, 11-12}	OC12-{345-348}	O4M-115-1- {2-3, 11-12}	OC12-{441-444}
O1B-115-3- {2-9, 11-18}	OC3-{1393-1408}	O1B-115-3- {2-9, 11-18}	OC3-{1969-1984}
O4M-115-3- {2-3, 11-12}	OC12-{349-352}	O4M-115-3- {2-3, 11-12}	OC12-{445-448}
O1B-116-1- {2-9, 11-18}	OC3-{1409-1424}	O1B-116-1- {2-9, 11-18}	OC3-{1985-2000}
O4M-116-1- {2-3, 11-12}	OC12-{353-356}	O4M-116-1- {2-3, 11-12}	OC12-{449-452}
O1B-116-3- {2-9, 11-18}	OC3-{1425-1440}	O1B-116-3- {2-9, 11-18}	OC3-{2001-2016}
O4M-116-3- {2-3, 11-12}	OC12-{357-360}	O4M-116-3- {2-3, 11-12}	OC12-{453-456}
O1B-117-1- {2-9, 11-18}	OC3-{1441-1456}	O1B-117-1- {2-9, 11-18}	OC3-{2017-2032}
O4M-117-1- {2-3, 11-12}	OC12-{361-364}	O4M-117-1- {2-3, 11-12}	OC12-{457-460}
O1B-117-3- {2-9, 11-18}	OC3-{1457-1472}	O1B-117-3- {2-9, 11-18}	OC3-{2033-2048}
O4M-117-3- {2-3, 11-12}	OC12-{365-368}	O4M-117-3- {2-3, 11-12}	OC12-{461-464}

Table B.2. Facility AIDs for SI48 I/O Racks (Continued)			
Alcatel AID Equipment	Alcatel AID Facility	Alternate AID Equipment	Alternate AID Facility
O1B-118-1- {2-9, 11-18}	OC3-{1473-1488}	O1B-118-1- {2-9, 11-18}	OC3-{2049-2064}
O4M-118-1- {2-3,11-12}	OC12-{369-372}	O4M-118-1- {2-3,11-12}	OC12-{465-468}
O1B-118-3- {2-9, 11-18}	OC3-{1489-1504}	O1B-118-3- {2-9, 11-18}	OC3-{2065-2080}
O4M-118-3- {2-3,11-12}	OC12-{373-376}	O4M-118-3- {2-3,11-12}	OC12-{469-472}
O1B-119-1- {2-9, 11-18}	OC3-{1505-1520}	O1B-119-1- {2-9, 11-18}	OC3-{2081-2096}
O4M-119-1- {2-3,11-12}	OC12-{377-380}	O4M-119-1- {2-3,11-12}	OC12-{473-476}
O1B-119-3- {2-9, 11-18}	OC3-{1521-1536}	O1B-119-3- {2-9, 11-18}	OC3-{2097-2112}
O4M-119-3- {2-3,11-12}	OC12-{381-384}	O4M-119-3- {2-3,11-12}	OC12-{477-480}
O1B-120-1- {2-9, 11-18}	OC3-{1537-1552}	O1B-120-1- {2-9, 11-18}	OC3-{2113-2128}
O4M-120-1- {2-3,11-12}	OC12-{385-388}	O4M-120-1- {2-3,11-12}	OC12-{481-484}
O1B-120-3- {2-9, 11-18}	OC3-{1553-1568}	O1B-120-3- {2-9, 11-18}	OC3-{2129-2144}
O4M-120-3- {2-3,11-12}	OC12-{389-392}	O4M-120-3- {2-3,11-12}	OC12-{485-488}
O1B-121-1- {2-9, 11-18}	OC3-{1569-1584}	O1B-121-1- {2-9, 11-18}	OC3-{2145-2160}
O4M-121-1- {2-3,11-12}	OC12-{393-396}	O4M-121-1- {2-3,11-12}	OC12-{489-492}
O1B-121-3- {2-9, 11-18}	OC3-{1585-1600}	O1B-121-3- {2-9, 11-18}	OC3-{2161-2176}
O4M-121-3- {2-3,11-12}	OC12-{397-400}	O4M-121-3- {2-3,11-12}	OC12-{493-496}
O1B-122-1- {2-9, 11-18}	OC3-{1601-1616}	O1B-122-1- {2-9, 11-18}	OC3-{2177-2192}
O4M-122-1- {2-3,11-12}	OC12-{401-404}	O4M-122-1- {2-3,11-12}	OC12-{497-500}
O1B-122-3- {2-9, 11-18}	OC3-{1617-1632}	O1B-122-3- {2-9, 11-18}	OC3-{2193-2208}
O4M-122-3- {2-3,11-12}	OC12-{405-408}	O4M-122-3- {2-3,11-12}	OC12-{501-504}
O1B-123-1- {2-9, 11-18}	OC3-{1633-1648}	O1B-123-1- {2-9, 11-18}	OC3-{2209-2224}
O4M-123-1- {2-3,11-12}	OC12-{409-412}	O4M-123-1- {2-3,11-12}	OC12-{505-508}

Table B.2. Facility AIDs for SI48 I/O Racks (Continued)

Alcatel AID Equipment	Alcatel AID Facility	Alternate AID Equipment	Alternate AID Facility
O1B-123-3- {2-9, 11-18}	OC3-{1649-1664}	O1B-123-3- {2-9, 11-18}	OC3-{2225-2240}
O4M-123-3- {2-3, 11-12}	OC12-{413-416}	O4M-123-3- {2-3, 11-12}	OC12-{509-512}
O1B-124-1- {2-9, 11-18}	OC3-{1665-1680}	O1B-124-1- {2-9, 11-18}	OC3-{2241-2256}
O4M-124-1- {2-3, 11-12}	OC12-{417-420}	O4M-124-1- {2-3, 11-12}	OC12-{513-516}
O1B-124-3- {2-9, 11-18}	OC3-{1681-1696}	O1B-124-3- {2-9, 11-18}	OC3-{2257-2272}
O4M-124-3- {2-3, 11-12}	OC12-{421-424}	O4M-124-3- {2-3, 11-12}	OC12-{517-520}
O1B-125-1- {2-9, 11-18}	OC3-{1697-1712}	O1B-125-1- {2-9, 11-18}	OC3-{2273-2288}
O4M-125-1- {2-3, 11-12}	OC12-{425-428}	O4M-125-1- {2-3, 11-12}	OC12-{521-524}
O1B-125-3- {2-9, 11-18}	OC3-{1713-1728}	O1B-125-3- {2-9, 11-18}	OC3-{2289-2304}
O4M-125-3- {2-3, 11-12}	OC12-{429-432}	O4M-125-3- {2-3, 11-12}	OC12-{525-528}
O1B-126-1- {2-9, 11-18}	OC3-{1729-1744}	O1B-126-1- {2-9, 11-18}	OC3-{2305-2320}
O4M-126-1- {2-3, 11-12}	OC12-{433-436}	O4M-126-1- {2-3, 11-12}	OC12-{529-532}
O1B-126-3- {2-9, 11-18}	OC3-{1745-1760}	O1B-126-3- {2-9, 11-18}	OC3-{2321-2336}
O4M-126-3- {2-3, 11-12}	OC12-{437-440}	O4M-126-3- {2-3, 11-12}	OC12-{533-536}
O1B-127-1- {2-9, 11-18}	OC3-{1761-1776}	O1B-127-1- {2-9, 11-18}	OC3-{2337-2352}
O4M-127-1- {2-3, 11-12}	OC12-{441-444}	O4M-127-1- {2-3, 11-12}	OC12-{537-540}
O1B-127-3- {2-9, 11-18}	OC3-{1777-1792}	O1B-127-3- {2-9, 11-18}	OC3-{2353-2368}
O4M-127-3- {2-3, 11-12}	OC12-{445-448}	O4M-127-3- {2-3, 11-12}	OC12-{541-544}
O1B-128-1- {2-9, 11-18}	OC3-{1793-1808}	O1B-128-1- {2-9, 11-18}	OC3-{2369-2384}
O4M-128-1- {2-3, 11-12}	OC12-{449-452}	O4M-128-1- {2-3, 11-12}	OC12-{545-548}
O1B-128-3- {2-9, 11-18}	OC3-{1809-1824}	O1B-128-3- {2-9, 11-18}	OC3-{2385-2400}
O4M-128-3- {2-3, 11-12}	OC12-{453-456}	O4M-128-3- {2-3, 11-12}	OC12-{549-552}

Table B.2. Facility AIDs for SI48 I/O Racks (Continued)			
Alcatel AID Equipment	Alcatel AID Facility	Alternate AID Equipment	Alternate AID Facility
O1B-129-1- {2-9, 11-18}	OC3-{1825-1840}	O1B-129-1- {2-9, 11-18}	OC3-{2401-2416}
O4M-129-1- {2-3, 11-12}	OC12-{457-460}	O4M-129-1- {2-3, 11-12}	OC12-{553-556}
O1B-129-3- {2-9, 11-18}	OC3-{1841-1856}	O1B-129-3- {2-9, 11-18}	OC3-{2417-2432}
O4M-129-3- {2-3, 11-12}	OC12-{461-464}	O4M-129-3- {2-3, 11-12}	OC12-{557-560}
O1B-130-1- {2-9, 11-18}	OC3-{1857-1872}	O1B-130-1- {2-9, 11-18}	OC3-{2433-2448}
O4M-130-1- {2-3, 11-12}	OC12-{465-468}	O4M-130-1- {2-3, 11-12}	OC12-{561-564}
O1B-130-3- {2-9, 11-18}	OC3-{1873-1888}	O1B-130-3- {2-9, 11-18}	OC3-{2449-2464}
O4M-130-3- {2-3, 11-12}	OC12-{469-472}	O4M-130-3- {2-3, 11-12}	OC12-{565-568}
O1B-131-1- {2-9, 11-18}	OC3-{1889-1904}	O1B-131-1- {2-9, 11-18}	OC3-{2465-2480}
O4M-131-1- {2-3, 11-12}	OC12-{473-476}	O4M-131-1- {2-3, 11-12}	OC12-{569-572}
O1B-131-3- {2-9, 11-18}	OC3-{1905-1920}	O1B-131-3- {2-9, 11-18}	OC3-{2481-2496}
O4M-131-3- {2-3, 11-12}	OC12-{477-480}	O4M-131-3- {2-3, 11-12}	OC12-{573-576}
O1B-132-1- {2-9, 11-18}	OC3-{1921-1936}	O1B-132-1- {2-9, 11-18}	OC3-{2497-2512}
O4M-132-1- {2-3, 11-12}	OC12-{481-484}	O4M-132-1- {2-3, 11-12}	OC12-{577-580}
O1B-132-3- {2-9, 11-18}	OC3-{1937-1952}	O1B-132-3- {2-9, 11-18}	OC3-{2513-2528}
O4M-132-3- {2-3, 11-12}	OC12-{485-488}	O4M-132-3- {2-3, 11-12}	OC12-{581-584}
O1B-133-1- {2-9, 11-18}	OC3-{1953-1968}	O1B-133-1- {2-9, 11-18}	OC3-{2529-2544}
O4M-133-1- {2-3, 11-12}	OC12-{489-492}	O4M-133-1- {2-3, 11-12}	OC12-{585-588}
O1B-133-3- {2-9, 11-18}	OC3-{1969-1984}	O1B-133-3- {2-9, 11-18}	OC3-{2545-2560}
O4M-133-3- {2-3, 11-12}	OC12-{493-496}	O4M-133-3- {2-3, 11-12}	OC12-{589-592}
O1B-134-1- {2-9, 11-18}	OC3-{1985-2000}	O1B-134-1- {2-9, 11-18}	OC3-{2561-2576}
O4M-134-1- {2-3, 11-12}	OC12-{497-500}	O4M-134-1- {2-3, 11-12}	OC12-{593-596}

Table B.2. Facility AIDs for SI48 I/O Racks (Continued)			
Alcatel AID Equipment	Alcatel AID Facility	Alternate AID Equipment	Alternate AID Facility
O1B-134-3- {2-9, 11-18}	OC3-{2001-2016}	O1B-134-3- {2-9, 11-18}	OC3-{2577-2592}
O4M-134-3- {2-3,11-12}	OC12-{501-504}	O4M-134-3- {2-3,11-12}	OC12-{597-600}
O1B-135-1- {2-9, 11-18}	OC3-{2017-2032}	O1B-135-1- {2-9, 11-18}	OC3-{2593-2608}
O4M-135-1- {2-3,11-12}	OC12-{505-508}	O4M-135-1- {2-3,11-12}	OC12-{601-604}
O1B-135-3- {2-9, 11-18}	OC3-{2033-2048}	O1B-135-3- {2-9, 11-18}	OC3-{2609-2624}
O4M-135-3- {2-3,11-12}	OC12-{509-512}	O4M-135-3- {2-3,11-12}	OC12-{605-608}
O1B-136-1- {2-9, 11-18}	OC3-{2049-2064}	O1B-136-1- {2-9, 11-18}	OC3-{2625-2640}
O4M-136-1- {2-3,11-12}	OC12-{513-516}	O4M-136-1- {2-3,11-12}	OC12-{609-612}
O1B-136-3- {2-9, 11-18}	OC3-{2065-2080}	O1B-136-3- {2-9, 11-18}	OC3-{2641-2656}
O4M-136-3- {2-3,11-12}	OC12-{517-520}	O4M-136-3- {2-3,11-12}	OC12-{613-616}
O1B-137-1- {2-9, 11-18}	OC3-{2081-2096}	O1B-137-1- {2-9, 11-18}	OC3-{2657-2672}
O4M-137-1- {2-3,11-12}	OC12-{521-524}	O4M-137-1- {2-3,11-12}	OC12-{617-620}
O1B-137-3- {2-9, 11-18}	OC3-{2097-2112}	O1B-137-3- {2-9, 11-18}	OC3-{2673-2688}
O4M-137-3- {2-3,11-12}	OC12-{525-528}	O4M-137-3- {2-3,11-12}	OC12-{621-624}
O1B-138-1- {2-9, 11-18}	OC3-{2113-2128}	O1B-138-1- {2-9, 11-18}	OC3-{2689-2704}
O4M-138-1- {2-3,11-12}	OC12-{529-532}	O4M-138-1- {2-3,11-12}	OC12-{625-628}
O1B-138-3- {2-9, 11-18}	OC3-{2129-2144}	O1B-138-3- {2-9, 11-18}	OC3-{2705-2720}
O4M-138-3- {2-3,11-12}	OC12-{533-536}	O4M-138-3- {2-3,11-12}	OC12-{629-632}
O1B-139-1- {2-9, 11-18}	OC3-{2145-2160}	O1B-139-1- {2-9, 11-18}	OC3-{2721-2736}
O4M-139-1- {2-3,11-12}	OC12-{537-540}	O4M-139-1- {2-3,11-12}	OC12-{633-636}
O1B-139-3- {2-9, 11-18}	OC3-{2161-2176}	O1B-139-3- {2-9, 11-18}	OC3-{2737-2752}
O4M-139-3- {2-3,11-12}	OC12-{541-544}	O4M-139-3- {2-3,11-12}	OC12-{637-640}

Table B.2. Facility AIDs for SI48 I/O Racks (Continued)			
Alcatel AID Equipment	Alcatel AID Facility	Alternate AID Equipment	Alternate AID Facility
O1B-140-1- {2-9, 11-18}	OC3-{2177-2192}	O1B-140-1- {2-9, 11-18}	OC3-{2753-2768}
O4M-140-1- {2-3,11-12}	OC12-{545-548}	O4M-140-1- {2-3,11-12}	OC12-{641-644}
O1B-140-3- {2-9, 11-18}	OC3-{2193-2208}	O1B-140-3- {2-9, 11-18}	OC3-{2769-2784}
O4M-140-3- {2-3,11-12}	OC12-{549-552}	O4M-140-3- {2-3,11-12}	OC12-{645-648}
O1B-141-1- {2-9, 11-18}	OC3-{2209-2224}	O1B-141-1- {2-9, 11-18}	OC3-{2785-2800}
O4M-141-1- {2-3,11-12}	OC12-{553-556}	O4M-141-1- {2-3,11-12}	OC12-{649-652}
O1B-141-3- {2-9, 11-18}	OC3-{2225-2240}	O1B-141-3- {2-9, 11-18}	OC3-{2801-2816}
O4M-141-3- {2-3,11-12}	OC12-{557-560}	O4M-141-3- {2-3,11-12}	OC12-{653-656}

B.5. Facility AIDs vs. Input/Output Equipment AIDs for DS3 I/O Racks

Table NO TAG provides a cross-reference of facility AIDs vs. I/O equipment AIDs for DS3 Racks. Alcatel AIDs and Alternate AIDs are shown.

Table B.3. Facility AIDs for DS3 I/O Racks			
Alcatel AID Equipment	Alcatel AID Facility	Alternate AID Equipment	Alternate AID Facility
HMU-44-{1-4}-{1-8}, LMU-44-{1-4}-{1-32}	T3-{1-32}	HMU-3-{1-4}-{1-8}, LMU-3-{1-4}-{1-32}	T3-{1-32}
HMU-45-{1-4}-{1-8}, LMU-45-{1-4}-{1-32}	T3-{97-128}	HMU-4-{1-4}-{1-8}, LMU-4-{1-4}-{1-32}	T3-{33-64}
HMU-46-{1-4}-{1-8}, LMU-46-{1-4}-{1-32}	T3-{193-224}	HMU-5-{1-4}-{1-8}, LMU-5-{1-4}-{1-32}	T3-{65-96}
HMU-47-{1-4}-{1-8}, LMU-47-{1-4}-{1-32}	T3-{289-320}	HMU-6-{1-4}-{1-8}, LMU-6-{1-4}-{1-32}	T3-{97-128}
HMU-48-{1-4}-{1-8}, LMU-48-{1-4}-{1-32}	T3-{385-416}	HMU-10-{1-4}-{1-8}, LMU-10-{1-4}-{1-32}	T3-{129-160}
HMU-49-{1-4}-{1-8}, LMU-49-{1-4}-{1-32}	T3-{481-512}	HMU-11-{1-4}-{1-8}, LMU-11-{1-4}-{1-32}	T3-{161-192}
HMU-50-{1-4}-{1-8}, LMU-50-{1-4}-{1-32}	T3-{577-608}	HMU-12-{1-4}-{1-8}, LMU-12-{1-4}-{1-32}	T3-{193-224}
HMU-51-{1-4}-{1-8}, LMU-51-{1-4}-{1-32}	T3-{673-704}	HMU-13-{1-4}-{1-8}, LMU-13-{1-4}-{1-32}	T3-{225-256}
HMU-52-{1-4}-{1-8}, LMU-52-{1-4}-{1-32}	T3-{769-800}	HMU-14-{1-4}-{1-8}, LMU-14-{1-4}-{1-32}	T3-{257-288}
HMU-53-{1-4}-{1-8}, LMU-53-{1-4}-{1-32}	T3-{865-896}	HMU-15-{1-4}-{1-8}, LMU-15-{1-4}-{1-32}	N/A

B.6. Facility AIDs vs. Input/Output Equipment AIDs for DS1 I/O Racks

Table B.4. provides a cross-reference of facility AIDs vs. I/O equipment AIDs for DS1 Racks. Alcatel AIDs and Alternate AIDs are shown.

Table B.4. Facility AIDs for DS1 I/O Racks			
Alcatel AID Equipment	Alcatel AID Facility	Alternate AID Equipment	Alternate AID Facility
DSI-44-{1-4}-{1-32}	T1-{1-1024}	DSI-3-{1-4}-{1-32}	T1-{1-1024}
DSI-45-{1-4}-{1-32}	T1-{3073-4096}	DSI-4-{1-4}-{1-32}	T1-{1025-2048}
DSI-46-{1-4}-{1-32}	T1-{6145-7168}	DSI-5-{1-4}-{1-32}	T1-{2049-3072}
DSI-47-{1-4}-{1-32}	T1-{9217-10240}	DSI-6-{1-4}-{1-32}	T1-{3073-4096}
DSI-48-{1-4}-{1-32}	T1-{12289-13312}	DSI-10-{1-4}-{1-32}	T1-{4097-5120}
DSI-49-{1-4}-{1-32}	T1-{15361-16384}	DSI-11-{1-4}-{1-32}	T1-{5121-6144}
DSI-50-{1-4}-{1-32}	T1-{18433-19456}	DSI-12-{1-4}-{1-32}	T1-{6145-7168}
DSI-51-{1-4}-{1-32}	T1-{21505-22528}	DSI-13-{1-4}-{1-32}	T1-{7169-8192}
DSI-52-{1-4}-{1-32}	T1-{24577-25600}	DSI-14-{1-4}-{1-32}	T1-{8193-9216}
DSI-53-{1-4}-{1-32}	T1-{27649-28672}	DSI-15-{1-4}-{1-32}	T1-{9217-10240}
DSI-54-{1-4}-{1-32}	T1-{30721-33744}	DSI-16-{1-4}-{1-32}	T1-{10241-11264}
DSI-55-{1-4}-{1-32}	T1-{33793-34816}	DSI-17-{1-4}-{1-32}	T1-{11265-12288}
DSI-56-{1-4}-{1-32}	T1-{36865-37888}	DSI-18-{1-4}-{1-32}	T1-{12289-13312}
DSI-57-{1-4}-{1-32}	T1-{39937-40960}	DSI-19-{1-4}-{1-32}	T1-{13313-14336}
DSI-58-{1-4}-{1-32}	T1-{43009-44032}	DSI-20-{1-4}-{1-32}	T1-{14337-15360}
DSI-59-{1-4}-{1-32}	T1-{46081-47104}	DSI-21-{1-4}-{1-32}	T1-{15361-16384}
DSI-60-{1-4}-{1-32}	T1-{49153-50176}	DSI-22-{1-4}-{1-32}	T1-{16385-17408}
DSI-61-{1-4}-{1-32}	T1-{52225-53248}	DSI-23-{1-4}-{1-32}	T1-{17409-18432}
DSI-62-{1-4}-{1-32}	T1-{55297-56320}	DSI-24-{1-4}-{1-32}	T1-{18433-19456}
DSI-63-{1-4}-{1-32}	T1-{58369-59392}	DSI-25-{1-4}-{1-32}	T1-{19457-20480}

APPENDIX C. CONDITION TYPES

This appendix provides a list of the equipment, facility, and common (no specific entity) standing and non-threshold-crossing transient condition types used in the 1631 SX, along with the factory default notification codes (Major, Minor, Not-Alarm, or Not-Reported) for each service effect setting (Service Affecting or Non-Service Affecting) standing condition type.

This appendix does not include a list of the transient facility performance monitoring threshold-crossing conditions supported by the system. Refer to Appendix F, Monitored PM Parameters for a list of performance monitoring parameters that could cause a transient condition and to REPT^EVT^rr autonomous responses (where rr can be EC1, OC3, STS1, STS3C, T1, T3, VT1) for a list of transient threshold-crossing condition types for each facility type.

The 1631 SX uses standing condition types to report non-transient (standing) abnormal or trouble conditions pertaining to an equipment entity, facility entity, or no specific entity (common). The notification code for each standing condition type is provisionable with the SET-ATTR-{COM, EQPT, rr} commands, where SET-ATTR-{COM, EQPT} support provisioning per entity type and SET-ATTR-rr support provisioning per facility. In addition, the system-wide default notification code for standing facility condition types is provisionable with the SET-DFLTATTR-rr commands.

Standing conditions with condition types provisioned as major or minor alarms are reported with a REPT^ALM^{COM, EQPT, rr} autonomous response message and are retrievable with the RTRV-ALM-{COM, EQPT, rr} commands. Standing conditions with condition types provisioned as non-alarmed are reported with a REPT^EVT^{COM, EQPT, rr} autonomous response message and are retrievable with the RTRV-COND-{COM, EQPT, rr} commands. Standing conditions with condition types provisioned as not-reported are not autonomously reported, but are retrievable with the RTRV-COND-{COM, EQPT, rr} commands.

Transient non-threshold-crossing conditions are reported with a REPT^EVT^rr autonomous response message.

This appendix provides a list of Standing and Transient Condition types for the Equipment, Facility and Common AIDs.

Table C.1.	Standing Equipment Condition Types
Table C.2.	Transient Equipment Condition Types
Table C.3.	Standing Facility Condition Types
Table C.4.	Transient Facility Condition Types (Non-TCA)
Table C.5.	Transient Facility Condition Types (TCA)
Table C.6.	Standing Common Condition Types
Table C.7.	Transient Common Condition Types

Table C.1. Standing Equipment Condition Types						
CONDTYPE	SRV EFF	Factory Default NTFCNCDE		CON- DEF F	Equipment Type	Description
		GM	GRE EN			
ALMCKT	SA	–	–	–	RDU, RSP	Alarm Circuit, RDU/RSP failure detected
	NSA	MJ	MN	SC		
BKUPMEMP	SA	CR	MJ	SC	DSK	Backup Memory–Primary, magnetic disk backup failure
	NSA	MJ	MJ	SC		
BKUPMEMS	SA	CR	MJ	SC	OPD	Backup Memory–Secondary, optical disk/tape drive backup failure
	NSA	MN	MN	SC		
BPMISM	SA	MJ	MJ	SC	SHELF	Backplane Mismatch, mismatch between the provisioned shelf and the installed shelf backplane
	NSA	–	–	–		
BPTERM	SA	CR	MJ	SC	SHELF	Backplane Termination failure detected in the SI48 I/O, EOC, ES & CS
	NSA	–	–	–		
CARLOS	SA	–	–	–	DSB	Carrier Loss, loss of carrier event during IEEE 802.3 frame transmission on the LAN
	NSA	NR	NR	SC		
CARLOS	SA	CR	MJ	SC	CID	Carrier Loss, loss of carrier event during IEEE 802.3 frame transmission on the LAN
	NSA	–	–	–		
CD	SA	–	–	–	CID	Control and Display interface audit error detected
	NSA	MJ	MN	SC		
CLKLCK0	SA	–	–	–	QUAD, SHELF	Clock Lock 0, the clock path of the I/O, EOC, ES & CS locked to clock bus 0
	NSA	MN	MN	SC		
CLKLCK1	SA	–	–	–	QUAD, SHELF	Clock Lock 1, the clock path of the I/O, EOC, ES & CS locked to clock bus 1
	NSA	MN	MN	SC		
CNTRLRFL	SA	–	–	–	DSB	Controller Failure, LAPD or LAN controller failed set on the DSB.
	NSA	NR	NR	SC		
CONTBUS	SA	CR	MJ	SC	IPU, SPB	Control Bus, shelf control bus interface failure
	NSA	MN	MN	SC		
CONTCOM	SA	CR	MJ	SC	ACM, CIM, ICM, SIO	Control Communication equipment failure
	NSA	MN	MN	SC		
CONTR	SA	–	–	–	CPU	Control processor equipment failure (Note. An SA CONTR cannot be reported if both CPUs fail.)
	NSA	MN	MN	SC		
CONTR	SA	CR	MJ	SC	IPU, SPB	Control processor equipment failure
	NSA	MN	MN	SC		
CTNEQPT	SA	CR	MJ	SC	EOB, IPB, RPB, S3M	Connection Equipment, facility/circuit inter-connection equipment failure
	NSA	MN	MN	SC		
CTNEQPT	SA	CR	–	SC	IOB LMU	Connection Equipment, facility/circuit inter-connection equipment failure
	NSA	MN	–	SC		

Table C.1. Standing Equipment Condition Types

CONDTYPE	SRV EFF	Factory Default NTFCNCDE		CON- DEF F	Equipment Type	Description
		GM	GRE EN			
CTNEQPT	SA	CR	MJ	SC	OXB	Connection Equipment, facility/circuit inter-connection equipment failure
	NSA	MJ	MN	SC		
DBF	SA	–	–	–	OPD	Database Backup Failure, OPD database backup failure detected (on second try)
	NSA	MJ	MJ	SC		
DBFFT	SA	–	–	–	OPD	Database Backup Failed on First Try, OPD database backup failure detected on first try
	NSA	MJ	MJ	SC		
DCCEQPT	SA	CR	MJ	SC	DSB	Data Communication Channel Equipment, DCC Server Board failed
	NSA	MN	MN	SC		
DTLCKCPYFL	SA	–	–	–	SHELF, QUAD	Data Lock Copy Fail, I/O modules in shelf/quad not locked to the copy specified
	NSA	MN	MN	SC		
DUPMACADDR	SA	–	–	–	DSB	Duplicate MAC Address detected on the LAN
	NSA	NR	NR	SC		
DUPTARPENTRY	SA	–	–	–	DSB	Duplicate TARP adjacency table
	NSA	NA	NA	SC		
FA	SA	CR	MJ	SC	CKB, FUSE	Fuse Alarm, a PDU/RDU/RSP circuit breaker or PDU fuse has failed.
	NSA	MN	MN	SC		
FANEQPT	SA	–	–	–	FAN	Fan Equipment, one or more of the fans in a fan assembly failed
	NSA	MN	MN	SC		
FWMISM	SA	CR	MJ	SC	MCB	Firmware Mismatch, firmware version number does not match that in the system database
	NSA	MN	MN	SC		
GT1	SA	–	–	–	G1EOB, G1EP3, G1ES1, G1IOB, G1M16, G1M32, G1M40, G1MRPB, G1O1B, G1O4M, G1IRPB, G1S3M	GTI Cable fault for GTI cable carrying an STM1 signal
	NSA	MN	MN	SC		
GT4	SA	–	–	–	G4EOB, G4IOB, G4OXB	GTI Cable fault for GTI cable carrying an STM4 signal
	NSA	MN	MN	SC		
IMPROPRMVL	SA	CR	MJ	SC	ACM, CDA, CDB, CIM, DSB, DSI, EOB, EP3, ES1, ESA, ICM, IPB, IPU, M16, M32, M40, MCB, O1B, O4M, P39, P56, PSF, PST, RPB, S3M, SBT, SIO, SPB	Improper Removal, result of a physical circuit pack removal that was not preceded by a logical removal
	NSA	MN	MN	SC		
IMPROPRMVL	SA	CR	–	SC	HMU, IOB, LMU	Improper Removal, result of a physical circuit pack removal that was not preceded by a logical removal
	NSA	MN	–	SC		

Table C.1. Standing Equipment Condition Types						
CONDTYPE	SRV EFF	Factory Default NTFCNCDE		CON- DEF F	Equipment Type	Description
		GM	GRE EN			
IMPROPRMVL	SA	–	–	–	CPU	Improper Removal, result of a physical circuit pack removal that was not preceded by a logical removal (Note. An SA IMPROPRMVL cannot be reported if both CPUs are physically removed.)
	NSA	MN	MN	SC		
IMPROPRMVL	SA	MJ	MJ	SC	FAN	Improper Removal, result of a physical removal of a fan in an I/O, End Stage, or Center Stage rack
	NSA	–	–	–		
IMPROPRMVL	SA	CR	MJ	SC	LT1, LT2, LT4, LT5, LT8	Improper Removal, result of a physical removal of a LTx circuit pack
	NSA	–	–	–		
IMPROPRMVL	SA	CR	MJ	SC	OXB	Improper Removal, result of a physical OXB circuit pack removal that was not preceded by a logical removal
	NSA	MJ	MN	SC		
IMPROPRMVL	SA	–	–	–	PDU, RDU	Improper Removal, result of a physical removal of a PDU/RDU assembly
	NSA	MJ	MN	SC		
IMPROPRMVL	SA	NA	NA	SC	PRT	Improper Removal, result of a PRT circuit pack removal
	NSA	NA	NA	SC		
IMPROPRMVL	SA	CR	MJ	SC	SWI	Improper Removal, result of a SWI circuit pack removal
	NSA	MJ	MJ	SC		
IMPROPRMVL	SA	–	–	SC	TGR	Improper Removal, result of a physical circuit pack removal that was not preceded by a logical removal
	NSA	–	MN	SC		
INHSDWX	SA	–	–	–	CPU, IPU, SPB	Inhibit Switch Duplex, automatic copy switching of duplex equipment inhibited
	NSA	MN	MN	SC		
INHSDWPR	SA	–	–	–	DSI, EP3, ES1	Inhibit Switch to Protection, automatic protection switching of a main circuit pack to protection unit is inhibited
	NSA	NA	NA	NA		
INHSDWPR	SA	–	–	–	, LMU	Inhibit Switch to Protection, automatic protection switching of a main circuit pack to protection unit is inhibited
	NSA	NA	–	NA		
INHSDWKG	SA	–	–	–	DSI, EP3, ES1	Inhibit Switch to Working, automatic switching of a main circuit pack back to working (from protection) is inhibited
	NSA	NA	NA	NA		
INHSDWKG	SA	–	–	–	HMU, LMU	Inhibit Switch to Working, automatic switching of a main circuit pack back to working (from protection) is inhibited
	NSA	NA	–	NA		
INTERR	SA	–	–	–	CDA, CDB, EOB, EP3, ES1, IPB, M16, M32, M40, MCB, O1B, O4M, OXB, RPB, S3M	Internal Error, internal error suspected on equipment
	NSA	MN	MN	SC		
INTERR	SA	–	–	–	HMU, IOB	Internal Error, internal error suspected on equipment
	NSA	MN	–	SC		

Table C.1. Standing Equipment Condition Types

CONDTYPE	SRV EFF	Factory Default NTFCNCDE		CON- DEF F	Equipment Type	Description
		GM	GRE EN			
INTERR	SA	MJ	MJ	SC	DSI	Internal Error, internal error suspected on equipment
	NSA	MN	MN	SC		
INTERR	SA	MJ	–	SC	LMU	Internal Error, internal error suspected on equipment
	NSA	MN	–	SC		
LOCKOUT	SA	–	–	–	DSI, EP3, ES1,	LockOut of automatic revertive switching due to excessive protection switching
	NSA	MN	MN	SC		
LOCKOUT	SA	–	–	–	HMU, LMU	LockOut of automatic revertive switching due to excessive protection switching
	NSA	MN	–	SC		
LOTRI	SA	–	–	–	MCB	Loss of Offboard Timing Reference Input from mate Master Clock Board circuit pack
	NSA	MN	MN	SC		
MAN	SA	CR	MJ	SC	ACM, CDA, CDB, CIM, DSB, DSI, EOB, EP3, ES1, IPB, IPU, M16, M32, M40, MCB, O1B, O4M, P39, P56, PSF, RPB, S3M, SIO, SPB	Manual removal (logical removal was performed on a circuit pack)
	NSA	MN	MN	SC		
MAN	SA	CR	–	SC	HMU, IOB, LMU	Manual removal (logical removal was performed on a circuit pack)
	NSA	MN	–	SC		
MAN	SA	–	–	–	CPU	Manual removal (logical removal was performed on a circuit pack). (Note. An SA MAN cannot be reported if both CPUs are logically removed.)
	NSA	MN	MN	SC		
MAN	SA	CR	MJ	SC	DSK	Manual removal (logical removal was performed on a disk)
	NSA	MJ	MJ	SC		
MAN	SA	CR	MJ	SC	OXB	Manual removal (logical removal was performed)
	NSA	MJ	MN			
MAN	SA	–	–	SC	TGR	Manual removal (logical removal was performed on a TGR circuit pack)
	NSA	–	MN			
MANWKSWPR	SA	–	–	–	DSI, EP3, ES1	Manual Working Switched to Protection, main/working unit was manually switched to the protection unit (reported on the protect unit)
	NSA	MN	MN	SC		
MANWKSWPR	SA	–	–	–	HMU, LMU	Manual Working Switched to Protection, main/working unit was manually switched to the protection unit (reported on the protect unit)
	NSA	MN	–	SC		
MISC–1	SA	CR	MJ	SC	MCB	Miscellaneous Class–1, slave MCB is not ready
	NSA	MJ	MJ	SC		

Table C.1. Standing Equipment Condition Types						
CONDTYPE	SRV EFF	Factory Default NTFCNCDE		CON- DEF F	Equipment Type	Description
		GM	GRE EN			
OSIPARMISM	SA	–	–	–	DSB	OS Initialization Parameter Mismatch, upper layer parameters or lower layer parameters specific to the LAN or manual area addresses are mismatched between two redundant DSBs
	NSA	MN	MN	SC		
PLLEOR	SA	–	–	–	MCB	Phase Lock Loop End (out) Of Range detected
	NSA	MN	MN	SC		
PRCDRERR	SA	CR	MJ	SC	ACM, CDA, CDB, CIM, CPU, DSB, DSI, EOB, EP3, ES1, ICM, IPB, IPU, M16, M32, M40, OXB, O1B, O4M, P39, P56, PRT, RPB, S3M, SIO, SPB	Procedure Error, installed equipment does not support facility provisioning or it does not match its configuration.
	NSA	MN	MN	SC		
PRCDRERR	SA	CR	–	SC	HMU, IOB, LMU	Procedure Error, installed equipment does not support facility provisioning or it does not match its configuration.
	NSA	MN	–	SC		
PRCDRERR	SA	CR	MJ	SC	LT1, LT2, LT4, LT5, LT8	Procedure Error, installed equipment does not support facility provisioning
	NSA	–	–	–		
PRCDRERR	SA	CR	MJ	SC	SWI	Procedure Error, installed equipment does not support facility provisioning
	NSA	MJ	MJ	SC		
PRCDRERR	SA	–	–	SC	TGR	Procedure Error, installed equipment does not support facility provisioning
	NSA	–	MN	SC		
PWR	SA	CR	MJ	SC	P39, P56, PSF, PST	Power, internal power failure detected
	NSA	MN	MN	SC		
PWR	SA	–	–	–	RSP	Power, internal power failure detected
	NSA	MN	MN	SC		
RARFAIL	SA	CR	MJ	SC	M16, M32, M40, SPB	Re-Arrangement Failed, cross-connect rearrangement through the matrix failed due to SPB communication problem
	NSA	–	–	–		
SWFTDWN	SA	–	–	–	ACM, CIM, DSB, EP3, ES1, ICM, IPU, M16, M32, M40, O1B, O4M, OXB, RPB, S3M, SPB	Software Download is in process on a circuit pack
	NSA	NA	NA	SC		
SYNCEQPT	SA	CR	MJ	SC	CDA, CDB, MCB	Synchronization Equipment failure detected
	NSA	MJ	MN	SC		
TERM-EC1	SA	CR	MJ	SC	ES1	Termination equipment – EC1, EC1 termination equipment failure (ES1 circuit pack failure)
	NSA	MN	MN	SC		
TERM-OC12	SA	CR	MJ	SC	O4M	Termination equipment – OC12, OC12 termination equipment failure (O4M circuit pack failure)
	NSA	MN	MN	SC		

Table C.1. Standing Equipment Condition Types

CONDTYPE	SRV EFF	Factory Default NTFCNCDE		CON- DEF F	Equipment Type	Description
		GM	GRE EN			
TERM-OC3	SA	CR	MJ	SC	O1B	Termination equipment – OC3, OC3 termination equipment failure (O1B circuit pack failure, which includes Laser Bias Current Level exceeded and Optical Transmitter level outside of nominal value detected alarms)
	NSA	MN	MN	SC		
TERM-T1	SA	CR	MJ	SC	DSI	Termination equipment – T1, DS1 termination equipment failure (DSI circuit pack failure)
	NSA	MN	MN	SC		
TERM-T3	SA	CR	–	SC	HMU	Termination equipment – T3, DS3 termination equipment failure (HMU circuit pack failure)
	NSA	MN	–	SC		
TERM-T3EC1	SA	CR	MJ	SC	EP3	Termination equipment – T3 or EC1, DS3 or EC1 termination equipment failure (EP3 circuit pack failure)
	NSA	MN	MN	SC		
TSA	SA	–	–	SC	DSI, EP3, ES1, O1B, M16, M32, O4M, S3M	Test Session Active, maintenance test session is active on the equipment (SST of MT applied)
	NSA	NA	NA	SC		
TSA	SA	–	–	SC	HMU, LMU	Test Session Active, maintenance test session is active on the equipment (SST of MT applied)
	NSA	NA	–	SC		
TSI	SA	CR	MJ	SC	M16, M32, M40	Time Slot Interchange equipment failure
	NSA	MN	MN	SC		
TSTEQPT	SA	–	–	SC	TGR	Test Equipment, TGR circuit pack failure
	NSA	–	MN	SC		
WKSWPR	SA	–	–	SC	DSI, EP3, ES1	Working Switched to Protection, main/working unit automatically switched to the protection unit
	NSA	MN	MN	SC		
WKSWPR	SA	–	–	SC	HMU, LMU	Working Switched to Protection, main/working unit automatically switched to the protection unit
	NSA	MN	–	SC		
XIDMISM	SA	CR	MJ	SC	QUAD, SHELF	Connection ID Mismatch, internal Connection ID Mismatch detected in the I/O shelf/quad.
	NSA	MN	MN	SC		

Table C.2. Transient Equipment Condition Types						
CONDTYPE	SRV EFF	Factory Default NTFCNCDE		CON- DEF F	Equipment Type	Description
		GM	GRE EN			
EXCOL	SA	–	–	–	DSB	Excessive Collisions event occurred on the 802.3 LAN interface
	NSA	NA	NA	TC		

Table C.3. Standing Facility Condition Types													
CONDTYPE	SRV EFF	Factory Default NTFCN CDE		CON D EFF	Description	Facility/AID Type							
		GM	GR EEN			O C 1 2	O C 3	S T S 3 C	E C 1	S T S 1	V T 1	F 3	D S 3
1TO6LOF	SA	MJ	NA	SC	1 To 6 Loss Of Frame, Incoming LOF detected on 1 to 6 embedded DS2s								X
	NSA	NA	NA	SC									
7LOF	SA	CR	MJ	SC	7 Loss Of Frame, Incoming LOF detected on all 7 embedded DS2s								X
	NSA	NA	MJ	SC									
ACTLPBK	SA	–	–	–	Active Loopback, port is in loop back	X	X	X	X	X	X		X
	NSA	NA	NA	SC									
AICMIS	SA	CR	MJ	SC	Application Identification Channel Mismatch, AIC mismatch detected								X
	NSA	NA	MJ	SC									
AIS	SA	NA	NA	SC	Alarm Indication Signal, Far-end AIS detected								X
	NSA	NA	NA	SC									
AIS	SA	MN	MJ	SC	Alarm Indication Signal, Incoming AIS detected	X	X						
	NSA	MN	MJ	SC									
AIS	SA	NA	MJ	SC	Alarm Indication Signal, Incoming AIS detected			X	X	X			X
	NSA	NA	MJ	SC									
AIS	SA	NA	NR	SC	Alarm Indication Signal, Incoming AIS detected						X		
	NSA	NA	NR	SC									
AIS	SA	CR	NR	SC	Alarm Indication Signal, Incoming AIS detected								X
	NSA	NA	NR	SC									
AIS	SA	–	–	–	Alarm Indication Signal, Incoming AIS detected								X
	NSA	NA	NA	SC									
AIS–CI	SA	CR	NR	SC	Alarm Indication Signal for Customer Installation, Incoming AIS detected								X
	NSA	NA	NR	SC									
ALWCBLPBK	SA	–	–	–	Allow C–Bit Loopback, DS1 C–Bit loopback allowed								X
	NSA	NA	NA	SC									
DS1ISD	SA	NA	NR	SC	DS1 Idle Signal Detected, Incoming								X
	NSA	NA	NR	SC									
DS2YEL	SA	NA	NA	SC	DS2 Yellow (Remote Alarm Indication) detected (set on the supporting DS3)								X
	NSA	NA	NA	SC									
DUPTAR-PENTRY	SA	–	–	–	Duplicate TARP adjacency table	X	X						
	NSA	MN	MN	SC									
EBER	SA	MJ	MJ	SC	Excessive Bit Error Rate detected	X	X						
	NSA	MN	MJ	SC									

Table C.3. Standing Facility Condition Types															
CONDTYPE	SRV EFF	Factory Default NTFCN CDE		CON D EFF	Description	Facility/AID Type									
		GM	GR EEN			O C 1 2	O C 3	S T S 3 C	E C 1	S T S 1	V T 1	F 3	D S 3	D S 1	T M G
EBER	SA	MN	MN	SC	Excessive Bit Error Rate detected					X	X				
	NSA	NA	NA	SC											
EOC	SA	NA	NR	SC	Embedded Operations Channel, EOC failure detected									X	
	NSA	NA	NR	SC											
ESW	SA	–	–	–	Excessive Switching, lockout of automatic revertive switching due to excessive switching	X	X			X	X				
	NSA	MN	MN	SC											
FEACEQPT	SA	NA	NA	SC	Far–End Alarm & Control (FEAC) Equipment detected								X		
	NSA	NA	NA	SC											
FLTESC	SA	NA	NA	SC	Facility Fault Escalation active					X	X		X		
	NSA	NA	NA	SC											
FRCDWK–SWBK	SA	–	–	–	Forced Working Switched Back, working facility was manually force switched from protection to the main facility	X	X								
	NSA	MN	MN	SC											
FRCDWK–SWBK	SA	–	–	–	Forced Working Switched Back, working facility was manually force switched from protection to the main facility					X	X				
	NSA	NR	NR	SC											
FRCDWK–SWPR	SA	–	–	–	Forced Working Switched to Protec-tion, working facility was manually force switched to the protection facili-ty	X	X								
	NSA	MN	MN	SC											
FRCDWK–SWPR	SA	–	–	–	Forced Working Switched to Protec-tion, working facility was manually force switched to the protection facili-ty					X	X				
	NSA	NR	NR	SC											
IDLE	SA	NA	MJ	SC	Idle, incoming idle detected			X		X					
	NSA	NA	MJ	SC											
IDLE	SA	NA	NR	SC	Idle, incoming idle detected						X				
	NSA	NA	NR	SC											
IDMISMATCH	SA	–	MJ	SC	Path ID (PID) Mismatch detected								X		
	NSA	–	MN	SC											
IDUNREAD-ABLE	SA	–	MJ	SC	Path ID (PID) Un–Readable								X		
	NSA	–	MN	SC											
INHPMREPT	SA	–	–	–	Inhibit Performance Monitoring Re-port, PM report capability inhibited	X	X	X	X	X	X	X	X	X	
	NSA	NR	NR	SC											

Table C.3. Standing Facility Condition Types															
CONDTYPE	SRV EFF	Factory Default NTFCN CDE		CON D EFF	Description	Facility/AID Type									
		GM	GR EEN			O C 1 2	O C 3	S T S 3 C	E C 1	S T S 1	V T 1	F 3	D S 3	D S 1	T M G
ISD	SA	NA	NA	SC	Idle Signal Detected, Far–end									X	
	NSA	NA	NA	SC											
ISD	SA	CR	MJ	SC	Idle Signal Detected, Incoming									X	
	NSA	NA	MJ	SC											
L2LCONFAIL	SA	MN	MN	SC	Layer 2 Line DCC Connection Failure	X	X								
	NSA	–	–	–											
L2SCONFAIL	SA	MN	MN	SC	Layer 2 Section DCC Connection Failure	X	X								
	NSA	–	–	–											
LDCCDLFL	SA	MN	MN	SC	Line DCC Data Link Failure	X	X								
	NSA	–	–	–											
LOCKOUT– OFPR	SA	–	–	–	LockOut Of Protection facility	X	X								
	NSA	MN	MN	SC											
LOF	SA	NA	NA	SC	Loss Of Frame, Far–end detected									X	
	NSA	NA	NA	SC											
LOF	SA	CR	MJ	SC	Loss Of Frame, Incoming detected	X	X								
	NSA	MN	MJ	SC											
LOF	SA	CR	MJ	SC	Loss Of Frame, Incoming detected				X					X	
	NSA	NA	MJ	SC											
LOF	SA	CR	NR	SC	Loss Of Frame, Incoming detected										X
	NSA	NA	NR	SC											
LOF	SA	–	–	–	Loss Of Frame, Incoming detected										X
	NSA	MN	MN	SC											
LOP	SA	CR	MJ	SC	Loss Of Pointer, Incoming detected			X							
	NSA	MN	MJ	SC											
LOP	SA	CR	MJ	SC	Loss Of Pointer, Incoming detected					X					
	NSA	NA	MJ	SC											
LOP	SA	CR	NR	SC	Loss Of Pointer, Incoming detected						X				
	NSA	NA	NR	SC											
LOS	SA	NA	NA	SC	Loss Of Signal, Far–end detected									X	
	NSA	NA	NA	SC											
LOS	SA	CR	MJ	SC	Loss Of Signal, Incoming detected	X	X								
	NSA	MN	MJ	SC											
LOS	SA	CR	MJ	SC	Loss Of Signal, Incoming detected				X					X	
	NSA	NA	MJ	SC											

Table C.3. Standing Facility Condition Types													
CONDTYPE	SRV EFF	Factory Default NTFCN CDE		CON D EFF	Description	Facility/AID Type							
		GM	GR EEN			O C 1 2	O C 3	S T S 3 C	E C 1	S T S 1	V T 1	F 3	D S 3
LOS	SA	CR	NR	SC	Loss Of Signal, Incoming detected								X
	NSA	NA	NR	SC									
LOS	SA	–	–	–	Loss Of Signal, Incoming detected								X
	NSA	MN	MN	SC									
MAN	SA	MJ	NA	SC	Manual removal (logical removal was performed on the facility)	X	X						
	NSA	MN	NA	SC									
MAN	SA	NA	NA	SC	Manual removal (logical removal was performed on the facility)			X	X	X	X		X
	NSA	NA	NA	SC									X
MANWK– SWBK	SA	–	–	–	Manual Working Switched Back, working facility was manually switched from protection to the main facility	X	X						
	NSA	NA	NA	SC									
MANWK– SWBK	SA	–	–	–	Manual Working Switched Back, working facility was manually switched from protection to the main facility					X	X		
	NSA	NR	NR	SC									
MANWK– SWPR	SA	–	–	–	Manual Working Switched to Protec- tion, working facility was manually switched to the protection facility	X	X						
	NSA	NA	NA	SC									
MANWK– SWPR	SA	–	–	–	Manual Working Switched to Protec- tion, working facility was manually switched to the protection facility					X	X		
	NSA	NR	NR	SC									
PDI	SA	NA	NA	SC	Incoming PDI signal detected					X			
	NSA	NA	NA	SC									
PDIINS	SA	NA	NA	SC	Standard PDI or Alcatel PDI Insertion active					X			
	NSA	NA	NA	SC									
RAI	SA	NA	NA	SC	Remote Alarm Indication detected								X
	NSA	NA	NA	SC									
RAI	SA	NA	NR	SC	Remote Alarm Indication detected								X
	NSA	NA	NR	SC									
RAI–CI	SA	NA	NR	SC	Remote Alarm Indication for Custom- er Installation detected								X
	NSA	NA	NR	SC									
RCVCBLPBK	SA	MN	MN	SC	Receive (DS1) C–Bit Loopback								X
	NSA	NA	NA	SC									
RFI	SA	–	–	–	Remote Failure Indication detected	X	X						
	NSA	NA	NA	SC									

Table C.3. Standing Facility Condition Types															
CONDTYPE	SRV EFF	Factory Default NTFCN CDE		CON D EFF	Description	Facility/AID Type									
		GM	GR EEN			O C 1 2	O C 3	S T S 3 C	E C 1	S T S 1	V T 1	F 3	D S 3	D S 1	T M G
RFI	SA	NA	NA	SC	Remote Failure Indication detected			X	X	X					
	NSA	NA	NA	SC											
RFI	SA	CR	NR	SC	Remote Failure Indication detected						X				
	NSA	NA	NR	SC											
ROLLMON	SA	–	–	–	Roll Monitoring, receive-side RTO port being monitored for valid signal						X			X	
	NSA	NA	NA	SC											
SDBER	SA	MJ	MJ	SC	Signal Degrade Bit Error Rate detected	X	X								
	NSA	MN	MJ	SC											
SDBER	SA	MN	MN	SC	Signal Degrade Bit Error Rate detected					X	X				
	NSA	NA	NA	SC											
SDCCDLFL	SA	MN	MN	SC	Section DCC Data Link Failure	X	X								
	NSA	–	–	–											
SLMF	SA	NA	MJ	SC	Signal Label Match Failure detected			X		X					
	NSA	NA	MJ	SC											
SLMF	SA	NA	NR	SC	Signal Label Match Failure detected						X				
	NSA	NA	NR	SC											
SLTMSIG	SA	–	–	–	Slipping Timing Reference Signal detected										X
	NSA	MN	MN	SC											
SYNCPRI	SA	CR	MJ	SC	Primary Reference Synchronization failure										X
	NSA	MN	MN	SC											
SYNCSEC	SA	CR	MJ	SC	Secondary Reference Synchroniza- tion failure										X
	NSA	MN	MN	SC											
SYNC- STATQUAL	SA	–	–	–	Synchronization Status Quality, set when the sync message indicates that the reference is traceable to a clock that is below ST3										X
	NSA	MN	MN	SC											
WTR	SA	–	–	–	Wait To Restore of protection facility	X	X			X	X				
	NSA	NA	NA	SC											
XMTCLPBK	SA	–	–	–	Transmit (DS1) C–Bit Loopback									X	
	NSA	NA	NA	SC											

Table C.4. Transient Facility Condition Types (Non–TCA)															
CONDTYPE	SRV EFF	Factory Default NTFCN CDE		CON D EFF	Description	Facility/AID Type									
		GM	GR EEN			O C 1 2	O C 3	S T S 3 C	E C 1	S T S 1	V T 1	F 3	D S 3	D S 1	T M G
LDCCDM	SA	–	–	–	Line DCC DM Frame received	X	X								
	NSA	NA	NA	TC											
LDCCFRMR	SA	–	–	–	Line DCC Frame Error Frame	X	X								
	NSA	NA	NA	TC											
LDCCRESET	SA	–	–	–	Line DCC SABME Frame received unexpectedly	X	X								
	NSA	NA	NA	TC											
SDCCDM	SA	–	–	–	Section DCC DM Frame received	X	X								
	NSA	NA	NA	TC											
SDCCFRMR	SA	–	–	–	Section DCC Frame Error Frame	X	X								
	NSA	NA	NA	TC											
SDCCRESET	SA	–	–	–	Section DCC SABME Frame re- ceived unexpectedly	X	X								
	NSA	NA	NA	TC											
SYNC- STATCHNG	SA	–	–	–	Synchronization Status Message Change										X
	NSA	NA	NA	TC											
WKSWBK	SA	–	–	–	Working Switched Back, working fa- cility automatically switched from protection to the main facility	X	X			X	X				
	NSA	NA	NA	TC											
WKSWPR	SA	–	–	–	Working Switched to Protect, working facility automatically switched to the protection facility	X	X			X	X				
	NSA	NA	NA	TC											

Table C.5. Transient Facility Condition Types (TCA)															
TCA CONDTYPE	SRV EFF	Factory Default NTFCN CDE		CON D EFF	Description	Facility/AID Type									
		GM	GR EEN			O C 1 2	O C 3	S T S 3 C	E C 1	S T S 1	V T 1	F 3	D S 3	D S 1	T M G
T-CVS	SA	–	–	–	TCA–Coding Violations Section, indicates a CV–S threshold crossing was detected.	X	X								
	NSA	NA	NA	TC											
T-ESA–S	SA	–	–	–	TCA–Errored Seconds Type A – Section, indicates an ESA–S threshold crossing was detected.	X	X								
	NSA	NA	NA	TC											
T-ESB–S	SA	–	–	–	TCA–Errored Seconds Type B – Section, indicates an ESB–S threshold crossing was detected.	X	X								
	NSA	NA	NA	TC											
T-ESS	SA	–	–	–	TCA–Errored Seconds Section, indicates an ES–S threshold crossing was detected.	X	X								
	NSA	NA	NA	TC											
T-LOSS	SA	–	–	–	TCA–Loss Of Signal Seconds – Section, indicates a LOSS–S threshold crossing was detected.	X	X		X				X	X	
	NSA	NA	NA	TC											
T-SEFS	SA	–	–	–	TCA–Severely Errored Frame Seconds – Section, indicates a SEFS–S threshold crossing was detected.	X	X		X					X	
	NSA	NA	NA	TC											
T-SESS	SA	–	–	–	TCA–Severely Errored Seconds Section, indicates a SES–S threshold crossing was detected.	X	X								
	NSA	NA	NA	TC											

Table C.5. Transient Facility Condition Types (TCA)																
TCA CONDTYPE	SRV EFF	Factory Default NTFCN CDE		CON D EFF	Description	Facility/AID Type										
		GM	GR EEN			O C 1 2	O C 3	S T S 3 C	E C 1	S T S 1	V T 1	F 3	D S 3	D S 1	T M G	
T-AISS	SA	–	–	–	TCA–AIS Seconds – Line, indicates an AISS–L threshold crossing was detected.	X	X		X					X	X	
	NSA	NA	NA	TC												
T-CVL	SA	–	–	–	TCA–Coding Violations Line, indicates a CV–L threshold crossing was detected.	X	X		X					X	X	
	NSA	NA	NA	TC												
T-ESA–L	SA	–	–	–	TCA–Errored Seconds type A – Line, indicates an ESA–L thresh- old crossing was detected.	X	X		X					X		
	NSA	NA	NA	TC												
T-ESB–L	SA	–	–	–	TCA–Errored Seconds type B – Line, indicates an ESB–L thresh- old crossing was detected.	X	X		X					X		
	NSA	NA	NA	TC												
T-ESL	SA	–	–	–	TCA–Errored Seconds Line, indi- cates an ES–L threshold crossing was detected.	X	X		X					X	X	
	NSA	NA	NA	TC												
T-FC–L	SA	–	–	–	TCA–Failure Count – Line, indi- cates a FC–L threshold crossing was detected.	X	X		X							
	NSA	NA	NA	TC												
T-PSC–L	SA	–	–	–	TCA–Protection Switch Counts– Line, indicates a PSC–L threshold crossing was detected.	X	X									
	NSA	NA	NA	TC												
T-PSD–L	SA	–	–	–	TCA–Protection Switch Duration – Line, indicates a PSD–L threshold crossing was detected.	X	X									
	NSA	NA	NA	TC												
T-SESL	SA	–	–	–	TCA–Severely Errored Seconds Line, indicates a SES–L threshold crossing was detected.	X	X		X					X	X	
	NSA	NA	NA	TC												
T-UASL	SA	–	–	–	TCA–Unavailable Seconds Line, indicates an UAS–L threshold crossing was detected.	X	X		X							
	NSA	NA	NA	TC												

Table C.5. Transient Facility Condition Types (TCA)															
TCA CONDTYPE	SRV EFF	Factory Default NTFCN CDE		CON D EFF	Description	Facility/AID Type									
		GM	GR EEN			O C 1 2	O C 3	S T S 3 C	E C 1	S T S 1	V T 1	F 3	D S 3	D S 1	T M G
T-ALS-P	SA	–	–	–	TCA-Alarm Indication Signal/Loss of Pointer Seconds- Path, indicates an ALS-P threshold crossing was detected.			X		X					
	NSA	NA	NA	TC											
T-CVP	SA	–	–	–	TCA-Coding Violations Path, indicates a CV-P threshold crossing was detected.			X		X			X	X	
	NSA	NA	NA	TC											
T-ESA-P	SA	–	–	–	TCA-Errored Seconds Type A – Path, indicates an ESA-P threshold crossing was detected.			X		X			X	X	
	NSA	NA	NA	TC											
T-ESB-P	SA	–	–	–	TCA-Errored Seconds Type B – Path, indicates an ESB-P threshold crossing was detected.			X		X			X	X	
	NSA	NA	NA	TC											
T-ESNP	SA	–	–	–	TCA-Errored Seconds Network Path, indicates an ES-NP threshold crossing was detected.									X	
	NSA	NA	NA	TC											
T-ESP	SA	–	–	–	TCA-Errored Seconds Path, indicates an ES-P threshold crossing was detected.			X		X			X	X	
	NSA	NA	NA	TC											
T-FC-P	SA	–	–	–	TCA-Failure Count – Path, indicates a FC-P threshold crossing was detected.			X		X			X	X	
	NSA	NA	NA	TC											
T-SAS-P	SA	–	–	–	TCA-Severely Errored Frame Seconds/AIS Seconds – Path, indicates a SAS-P threshold crossing was detected.								X	X	
	NSA	NA	NA	TC											
T-SESNP	SA	–	–	–										X	
	NSA	NA	NA	TC											
T-SESP	SA	–	–	–	TCA-Severely Errored Seconds Path, indicates a SES-P threshold crossing was detected.			X		X			X	X	
	NSA	NA	NA	TC											
T-UASP	SA	–	–	–	TCA-Unavailable Seconds Network Path, indicates an UAS-NP threshold crossing was detected.									X	
	NSA	NA	NA	TC											
T-UASP	SA	–	–	–	TCA-Unavailable Seconds Path, indicates an UAS-P threshold crossing was detected.			X		X			X	X	
	NSA	NA	NA	TC											
T-CSS	SA	–	–	–	TCA-Controlled Slip Seconds, indicates a CSS threshold crossing was detected.									X	
	NSA	NA	NA	TC											

Table C.5. Transient Facility Condition Types (TCA)															
TCA CONDTYPE	SRV EFF	Factory Default NTFCN CDE		CON D EFF	Description	Facility/AID Type									
		GM	GR EEN			O C 1 2	O C 3	S T S 3 C	E C 1	S T S 1	V T 1	F 3	D S 3	D S 1	T M G
T-QRSSS-P	SA	–	–	–	TCA-QRSSS – Path, indicates a QRSSS-P threshold crossing was detected.									X	
	NSA	NA	NA	TC											

Table C.5. Transient Facility Condition Types (TCA)												
TCA CONDTYPE	SRV EFF	Factory Default NTFCN CDE		CON D EFF	Description	Facility/AID Type						
		GM	GR EEN			O C 1 2	O C 3	S T S 3 C	E C 1	S T S 1	V T 1	F 3
T-CVCP-P	SA	–	–	–	TCA–Coding Violations, CP–bit parity – Path, indicates a CVCP–P threshold crossing was detected.							X
	NSA	NA	NA	TC								
T-ESACP-P	SA	–	–	–	TCA–Errored Seconds type A, CP–bit parity – Path, indicates an ESACP–P threshold crossing was detected.							X
	NSA	NA	NA	TC								
T-ESBCP-P	SA	–	–	–	TCA–Errored Seconds type B, CP–bit parity – Path, indicates an ESBCP–P threshold crossing was detected.							X
	NSA	NA	NA	TC								
T-ESCP-P	SA	–	–	–	TCA–Errored Seconds, CP–bit parity – Path, indicates an ESCP–P threshold crossing was detected.							X
	NSA	NA	NA	TC								
T-FCCP-P	SA	–	–	–	TCA–Failure Count, CP–bit parity – Path, indicates a FCCP–P threshold crossing was detected.							X
	NSA	NA	NA	TC								
T-SASCP-P	SA	–	–	–	TCA–Severe AIS Seconds, CP–bit parity – Path, indicates a SASCP–P threshold crossing was detected.							X
	NSA	NA	NA	TC								
T-SESCP-P	SA	–	–	–	TCA–Severely Errored Seconds, CP–bit parity – Path, indicates a SESCO-P threshold crossing was detected.							X
	NSA	NA	NA	TC								
T-UASCP-P	SA	–	–	–	TCA–Unavailable Seconds, CP–bit parity – Path, indicates an UASCP–P threshold crossing was detected.							X
	NSA	NA	NA	TC								

Table C.5. Transient Facility Condition Types (TCA)												
TCA CONDTYPE	SRV EFF	Factory Default NTFCN CDE		CON D EFF	Description	Facility/AID Type						
		GM	GR EEN			O C 1 2	O C 3	S T S 3 C	E C 1	S T S 1	V T 1	F 3
T-ALS-V	SA	–	–	–	TCA–Alarm Indication Signal/Loss of Pointer Seconds – VT Path, indicates an ALS–V threshold crossing was detected.						X	
	NSA	NA	NA	TC								
T-CVV	SA	–	–	–	TCA–Coding Violations VT Path, indicates a CV–V threshold crossing was detected.						X	
	NSA	NA	NA	TC								
T-ESA-V	SA	–	–	–	TCA–Errored Seconds Type A – VT Path, indicates an ESA–V threshold crossing was detected.						X	
	NSA	NA	NA	TC								
T-ESB-V	SA	–	–	–	TCA–Errored Seconds Type B – VT Path, indicates an ESB–V threshold crossing was detected.						X	
	NSA	NA	NA	TC								
T-ESV	SA	–	–	–	TCA–Errored Seconds VT Path, indicates an ES–V threshold crossing was detected.						X	
	NSA	NA	NA	TC								
T-FC-V	SA	–	–	–	TCA–Failure Count – VT Path, indicates a FC–V threshold crossing was detected.						X	
	NSA	NA	NA	TC								
T-SESV	SA	–	–	–	TCA–Severely Errored Seconds VT Path, indicates a SES–V threshold crossing was detected.						X	
	NSA	NA	NA	TC								
T-UASV	SA	–	–	–	TCA–Unavailable Seconds VT Path, indicates an UAS–V threshold crossing was detected.						X	
	NSA	NA	NA	TC								

Table C.6. Standing Common Condition Types					
CONDTYPE	SRV EFF	Factory Default NTFCNCDE		CON- DEF F	Description
		GM	GRE EN		
DATAFLT	SA	CR	MJ	SC	Data integrity Fault, CRC error detected during a (disk) database read
	NSA	–	–	–	
EUA	SA	MJ	MJ	SC	Emergency User Access Activated.
	NSA	–	–	–	
FRNGSYNC	SA	–	–	–	Free Running Synchronization, manual switch to free running clock reference synchronization mode
	NSA	NA	NA	SC	
FSTSYNC	SA	–	–	–	Fast Acquisition Synchronization, manual or automatic switch to fast acquisition clock reference synchronization mode
	NSA	NA	NA	SC	
GOS-EC1	SA	CR	MJ	SC	Grade-Of-Service-EC1, system-wide EC1 GOS threshold reached
	NSA	–	–	–	
GOS-OC12	SA	CR	MJ	SC	Grade-Of-Service-OC12, system-wide OC12 GOS threshold reached
	NSA	–	–	–	
GOS-OC3	SA	CR	MJ	SC	Grade-Of-Service-OC3, system-wide OC3 GOS threshold reached
	NSA	–	–	–	
GOS-ST1	SA	CR	MJ	SC	Grade-Of-Service-ST1, system-wide ST1 GOS threshold reached
	NSA	–	–	–	
GOS-ST3C	SA	CR	MJ	SC	Grade-Of-Service-ST3C, system-wide ST3C GOS threshold reached
	NSA	–	–	–	
GOS-T1	SA	CR	MJ	SC	Grade-Of-Service-T1, system-wide DS1 GOS threshold reached
	NSA	–	–	–	
GOS-T3	SA	CR	MJ	SC	Grade-Of-Service-T3, system-wide DS3 GOS threshold reached
	NSA	–	–	–	
GOS-VT1	SA	CR	MJ	SC	Grade-Of-Service-VT1, system-wide VT1.5 GOS threshold reached
	NSA	–	–	–	
HLDVRSYNC	SA	–	–	–	Synchronization Holdover, manual or automatic switch to holdover clock reference synchronization mode
	NSA	NA	NA	SC	
INHFL	SA	–	–	–	Inhibit Fault Locating, automatic system-wide fault isolation inhibited
	NSA	MN	MN	SC	
INIT	SA	MN	MN	SC	Initialization, system initialization in-process
	NSA	–	–	–	
ITMIP	SA	–	–	–	Installation Test and Maintenance (ITM) mode is set
	NSA	MN	MN	SC	
MANSELDTAC-PY0	SA	–	–	–	Manual Selection/Lock to Data Copy 0 due to execution of SE-LECT-COPY command
	NSA	MN	MN	SC	
MANSELDTAC-PY1	SA	–	–	–	Manual Selection/Lock to Data Copy 1 due to execution of SE-LECT-COPY command
	NSA	MN	MN	SC	

Table C.6. Standing Common Condition Types					
CONDTYPE	SRV EFF	Factory Default NTFCNCDE		CON- DEF F	Description
		GM	GRE EN		
MANSWTOPRI	SA	–	–	–	Manual Switch To Primary Synchronization Reference
	NSA	NA	NA	SC	
MANSWTOSEC	SA	–	–	–	Manual Switch To Secondary Synchronization Reference
	NSA	NA	NA	SC	
PAINTGRT	SA	CR	MJ	SC	PAth Integrity Failure, a system-wide data or clock failure detected
	NSA	–	–	–	
RCVRY	SA	MJ	MJ	SC	Recovery. The System level recovery has been executed. The user must issue INIT–SYS command.
	NSA	–	–	–	
SWTOPRI	SA	–	–	–	Automatic Switch To Primary Synchronization Reference
	NSA	NA	NA	SC	
SWTOSEC	SA	–	–	–	Automatic Switch To Secondary Synchronization Reference
	NSA	NA	NA	SC	
UPGRD1344	SA	–	–	–	672 Port to 1344 Port Upgrade in Progress, or 240 Port to 1344 Port System Growth In Progress.
	NSA	NA	NA	SC	
UPGRD2688	SA	–	–	–	1344 Port to 2688 Port Upgrade in Progress
	NSA	NA	NA	SC	
UPGRD3360	SA	–	–	–	2688 Port to 3360 Port Upgrade in Progress
	NSA	NA	NA	SC	

Table C.7. Transient Commom Condition Types					
CONDTYPE	SRV EFF	Factory Default NTFCNCDE		CON- DEF F	Description
		GM	GRE EN		
PMFILERDY	SA	–	–	–	15–Minute or 1–Day Binary PM Data is ready to be transferred.
	NSA	NA	NA	TC	

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APPENDIX D. ERROR CODES

This appendix contains an alphabetized list of the Error Codes used in an unsuccessful response message by the 1631 SX and referenced in this I/O manual and its related reference documents.

Section D.2. contains a list of the Error Codes, and associated Informational_Error_Description_Text, used in an unsuccessful response message by the system when a command cannot be successfully parsed by the system's Command Parser.

Section D.3. provides a list of the Database Error Status Numbers that may be included within non-parsable text in an unsuccessful response message that has a SDBE (Status, internal Data Base Error) error code.

D.1. Error Code Mnemonics

Shown below is an alphabetized list of the Error Code mnemonics used in an unsuccessful response message by the 1631 SX.

EANS	Equipage, Access Not Supported
EATN	Equipage, Not valid for Access Type
ENEQ	Equipage, Not EQuipped
ENFE	Equipage, FEature Not provided
EFON	Equipage, Feature Option Not provided
ENPM	Equipage, Not equipped for Performance Monitoring
ENRE	Equipage, Not Recognized Equipage
ENRI	Equipage, Not equipped for Retrieving specified Information
ENSI	Equipage, Not equipped for Setting specified Information
ENTL	Equipage, Not Terminate and Leave
ESPG	Equipage, Software ProGram
IBEX	Input, Block EXtra
IBMS	Input, Block MiSsing
IBNC	Input, Block Not Consistent
ICNV	Input, Command Not Valid
IDMS	Input, Data MiSsing
IDNC	Input, Data Not Consistent
IDNV	Input, Data Not Valid
IDRG	Input, Data RanGe
IEAE	Input, Entity Already Exists
INEE	Input, Entity does Not Exist
IIAC	Input, Invalid ACcess identifier
IICT	Input, Invalid Correlation Tag
IIDT	Input, Invalid DaTa parameter
IIFM	Input, Invalid data ForMat
IIPG	Input, Invalid Parameter Grouping
IISP	Input, Invalid Syntax or Punctuation
IITA	Input, Invalid TArget identifier
INUP	Input, Non-Null Unimplemented Parameter
IPEX	Input, Parameter EXtra
IPMS	Input, Parameter MiSsing
IPNC	Input, Parameter Not Consistent
IPNV	Input, Parameter Not Valid

ISCH	Input, invalid Syntax invalid CHaracter
ISPC	Input, Syntax PunCtuation
ITSN	Input, invalid/inactive Test Session Number
MERR	Multiple ERRor
PICC	Privilege, Invalid Command Code
PIMF	Privilege, Invalid Memory File
RABY	Resource, All taps BusY
RCBY	Resource, Circuit BusY
RCIN	Resource, requested Circuit Id does Not exist
RNBY	Resource, Ne is BusY
RTBY	Resource, requested Tap BusY
RTEN	Resource, requested Tap does Not Exist
RTUB	Resource, Test Unit Busy
SAAL	Status, Already ALlowed
SACS	Status, Access unit Can't Sync on facility signal
SADC	Status, Already DisConnected
SAIN	Status, Already INhibited
SAIS	Status, Already In Service
SAIU	Status, All In Use
SAMS	Status, Already in Maintenance State
SAOP	Status Already OPerated
SAOS	Status, Already Out of Service
SAPS	Status, Already in Protection State
SARB	Status, All Resources Busy
SARL	Status, Already ReLeased
SATF	Status, Automatic Test Failed
SAWS	Status, Already in Working State
SCAT	Status, Circuit Already connected to another Tap
SCSN	Status, invalid Command SequeNce
SDAS	Status, Diagnostics Already Started
SDBE	Status, internal Data Base Error
SDFA	Status, Duplex unit FAiled
SDNA	Status, Duplex unit Not Available
SDNC	Status, Data Not Consistent
SDNR	Status, Data Not Ready
SNCC	Status, Not Cross-Connected
SNIS	Status, Not In-Service
SNOS	Status, Not currently Out of Service
SNSR	Status, No Switch Request outstanding
SNVS	Status, Not in Valid State
SOSE	Status, Operating System Error
SPFA	Status, Protection unit FAiled
SRCI	Status, Requested Command Inhibited
SRCN	Status, Requested CoNdition already exists
SROF	Status, Requested Operation Failed

SRQN	Status, invalid ReQuest
SRT0	Status, Reply Timeout Occurred
SSRD	Status, Switch Request Denied
SSRE	Status, System Resources Exceeded
STTI	STatus, Tap Idle
SWFA	Status, Working unit FAiled

D.2. Command Parser Error Codes

Shown below is a list of the Error Codes, and associated Informational_Error_Description_Text, used in an unsuccessful response message by the system when a command cannot be successfully parsed by the system's Command Parser.

IBEX	Input, Block EXtra /* Too Many Blocks */
ICNV	Input, Command Not Valid
IDNV	Input, Data Not Valid /* Invalid Parameter Value */
IDRG	Input, Data RanGe /* Range not allowed for parameter */
IENE	Input, Entity does Not Exist /* The <shelf, quad> has not been provisioned */
IIAC	Input, Invalid ACcess identifier /* Invalid Parameter Value */ /* NULL Required parameter */
IICT	Input, Invalid Correlation Tag
IIDT	Input, Invalid DaTa parameter
IIFM	Input, Invalid data ForMat /* Identifier Too Long */
IISP	Input, Invalid Syntax or Punctuation
IITA	Input, Invalid TArget identifier /* Invalid TID */
INUP	Input, Non-Null Unimplemented Parameter
IPEX	Input, Parameter EXtra /* Too Many Parameters for the specified block */
IPMS	Input, Parameter MiSsing /* Keyword Required */ /* NULL Required parameter */
IPNV	Input, Parameter Not Valid /* Invalid Keyword */
ISPC	Input, Syntax PunCtuation /* Semantic error detected */
PICC	Privilege, Invalid Command Code /* Security Violation */
SSRE	Status, System Resources Exceeded

D.3. Database Error Code (SDBE) Error Status Numbers

Shown below is a list of the Database Error Status Numbers that may be included within non-parsable text in an unsuccessful response message that has a SDBE (Status, internal Data Base Error) error code.

-0	/* success */
-1	/* couldn't get/attach to header area */
-2	/* no match on file name in header area */
-3	/* couldn't close an open shm file */
-4	/* couldn't shmget on an shm file area */
-5	/* couldn't shmat to an shm file area */
-6	/* open with RD_WREXCL not allowed this area */
-7	/* this file not found on open list */
-8	/* record number given is past EOF for area */ (read)
-9	/* buffer addr passed points at NULL */
-10	/* flags passed inconsistent with open mode */
-11	/* read/lock permission denied, not excl_pid */
-12	/* read/lock permission denied, already locked */
-13	/* DBM can't read/lock this record */
-14	/* warning, data returned is transitional */
-15	/* record number given is past EOF for area */
-16	/* another process opened this area RD_WREXCL */
-17	/* PID is not the same as listed in area head */
-18	/* Must be locked in head before writing */
-19	/* Must be in lock list before writing */
-20	/* DBM can't write/unlock this record */
-21	/* the configuration file could not be read */
-22	/* length of a file could not be determined */
-23	/* error in initialization split routine */
-24	/* error return from smfainit() */
-25	/* error on DBM open_file() for a file */
-26	/* error on DBM read for a file */
-27	/* file already open */
-28	/* this open file has locks present */
-29	/* a malloc error has occurred */
-30	/* error on info for a disk only file */
-31	/* DBM could not read a record from disk */
-32	/* Record found from disk, file not in SHM */
-33	/* Invalid file type for smfind() and smgetptr() */
-34	/* Record match not found in smfind() */
-35	/* Some error has occurred in smfind()—read_indexed() */
-36	/* Read error, this record has been deleted */
-37	/* error from smcreat, file is in use */
-38	/* can't read multiple records yet */
-39	/* can't even open a file as DISK_ONLY */
-40	/* sequent files can not be locked/unlocked */
-41	/* dbm can't unlock record */

- 42 /* One of the above errors occurred, check for a report status to give exact one */
- 43 /* record size is > 2048, possible shm corruption */
- 44 /* key length > 2048, possible shm corruption */
- 45 /* MAXATTACHED has been reached */
- 46 /* key not found for shifting */
- 47 /* error has occurred while locking multiple records */
- 48 /* writing and updating at same time is not allowed */
- 49 /* writing new records with SMLOCK not allowed */

APPENDIX E. (COMMAND ENTRY) MENUS

This appendix describes the Command Input Menu and Forms Mode of operation (available with a VDT terminal) and the menu hierarchy (menu tree) from the main menu to each Command Input Form.

E.1. Menu Mode

The Command Input Menu Mode (Menu Mode) simplifies entering commands and parameter values by providing a fill-in-the-blank input form accessed through the menus. The Menu Mode is accessed by pressing the Mode function key (F7). The Mode function key toggles the VDT screen between the Direct Command Input Mode and the Menu Mode. A typical level 1 (Main) menu screen is shown in Figure E.1.

Alcatel 1631 SX ALCATEL		CID: 3		Mon Aug 2 09:10 1993	
Menu Mode: Menu		Output Waiting		Alarms — — —	
MAIN ACTIVITY MENU: LEVEL 1					
A. FAC/EQPT PROVISIONING		>		F. SYSTEM ADMINISTRATION	
B. CONNECTIONS		>		G. DELAYED ACTIVATION	
C. SYSTEM MAINTENANCE		>		H. REPORTS	
D. FACILITY TESTING		>		I. ALARMS/EVENT CONTROL	
E. PERFORMANCE MONITORING		>		J. LOGOUT (CANCEL USER)	
ENTER SELECTION:					
Command <					
Response:					
	F7 Mode	F8 Alarms	F9 Output	F10 Parent	F11 Abort

Figure E.1. Typical Level 1 Main Activity Menu Screen

A lower-level menu is selected from the displayed menu by entering the indicated letter for the desired menu selection (in this case, pressing the Enter key is not necessary), or by using the cursor up/down keys to highlight the desired menu selection and pressing the Enter key. Menu selections shown with a greater-than sign (>) produce a lower level menu display when selected. Menu selections shown without a greater-than sign (>) produce a Command Input Form when selected.

A typical level 2 menu is shown in Figure E.2.

Alcatel 1631 SX ALCATEL		CID: 3		Mon Aug 2 09:10 1993	
Menu Mode: Menu			Alarms — — —		
FAC/EQPT PROVISIONING MENU: LEVEL 2					
A. T1 TERMINATION POINTS		>	F. EC1 TERMINATION POINTS		>
B. F3 (FRAC T3) TERM POINTS		>	G. STS3C TERMINATION POINTS		>
C. T3 TERMINATION POINTS		>	H. OC3 TERMINATION POINTS		>
D. VT1 TERMINATION POINTS		>	I. EQUIPMENT		>
E. STS1 TERMINATION POINTS		>			
ENTER SELECTION:					
Command <					
Response:					
	F7 Mode	F8 Alarms	F9 Output	F10 Parent	F11 Abort

Figure E.2. Typical Level 2 Main Activity Menu Screen

Command Input Forms provide the format and field size for entering command parameter values. The Input Form contains fields in which parameter data required to execute the command is entered. There is no need to remember or enter the special TL1 syntax characters (separators, etc.); the system enters them.

Note: Input Forms can also be accessed directly from the command input line in Direct Command Input Mode which allows bypassing the menu tree. In the Direct Input Mode, enter the command code (verb–modifier[–modifier]) on the command line and then press the Mode function key (F7).

Each Input Form displays the command code at the top center of the form. The form displays the command parameters in fields below the command name and are in plain text for readability. The underscored characters denote required fields and the square brackets [] denote optional fields.

When possible, the valid values for a particular command parameter are listed in parentheses. If the valid values are not listed or to find the default value of a particular command parameter, please refer to the I/O manual.

A typical Command Input Form screen is shown in Figure E.3.

Alcatel 1631 SX ALCATEL		CID: 3		Mon Aug 2 09:10 1993	
Menu Mode: Form		Output Waiting		Alarms — — —	
RTRV-ALM-ALL					
AID (ALL)	[]	CTAG	[]		
NTFCNCDE (CR/MJ/MN)	[]	CONDTYPE	[]		
SRVEFF (NSA/SA)	[]	LOCN (FEND/NEND)	[]		
DIRN (NA/RCV/TRMT)	[]	TMPER (15-MIN/1-DAY)	[]		
Command <					
Response:					
	F7 Mode	F8 Alarms	F9 Output	F10 Parent	F11 Abt In
	F17 Clr Fld	F19 Execute	F20 Ex/ Recycle		

Figure E.3. Typical Input Form Screen

E.1.1. Limited Command Entry Mode Menu Screen

When a STOP-OPS command is executed and F7 is pressed, the system is placed in the Limited Command Entry mode. (The Limited Command Execution mode limits commands that can be executed during a database restoral. Note that a database restoral can also be performed from the Normal Command Execution mode without executing a STOP-OPS command.)

The typical Limited Command Entry screen is shown in Figure E.4.

<i>Alcatel 1631 SX SYS2</i>		<i>CID: 1</i>		<i>Fri Aug 19 11:17 1994</i>	
Limitd Mode: Menu			Alarms — — —		
MAIN INITIALIZATION MENU: LEVEL 1					
A. RETRIEVE DB MEDIA LABEL					
B. RESTORE DATABASE					
C. START NORMAL OPERATIONS					
ENTER SELECTION:					
Command <					
Response:					
<input type="button" value="F7 Mode"/>	<input type="button" value="F8 Alarms"/>	<input type="button" value="F9 Output"/>	<input type="button" value="F10 Parent"/>	<input type="button" value="F11 Abort"/>	<input type="button" value=" "/>

Figure E.4. Typical Limited Command Entry Mode Menu Screen

E.2. Menu Hierarchy

Shown below is the menu hierarchy (menu tree) and command code associated with each branch of the menu tree. Normal Command Entry mode commands are listed in Section E.2.1. Commands that may be entered in either Normal or Limited Command Entry mode are listed in in Section E.2.1. (Note that command text in parentheses does not appear on the actual menu screen but is included here for clarification.)

E.2.1. Normal Command Entry Mode Menus

MENU LEVEL 1	MENU LEVEL 2	MENU LEVEL 3	MENU LEVEL 4	COMMAND
A. FAC/EQPT PROVISIONING				
A. T1 TERMINATION POINTS				
		A. CREATE T1 TERM POINT		ENT-T1
		B. EDIT T1 PARAMETER		ED-T1
		C. RTRV T1 PARAMETER		RTRV-T1
		D. DELETE T1 TERM POINT		DLT-T1
		E. SET T1 ALARM ATTRIBS		SET-ATTR-T1
		F. RTRV T1 ALARM ATTRIBS		RTRV-ATTR-T1
		G. SET T1 PM MODE		SET-PMMODE-T1
		H. RTRV T1 PM MODE		RTRV-PMMODE-T1
		I. T1 FAULT ESCALATION		
			A.EDIT T1 FAULT PROP	ED-FLTPRO-T1
			B.RTRV T1 FAULT PROP	RTRV-FLTPRO-T1
B. F3 (FRAC T3) TERM POINTS				
		A. CREATE F3 TERM POINT		ENT-F3
		B. EDIT F3 PARAMETER		ED-F3
		C. RTRV F3 PARAMETER		RTRV-F3
		D. DELETE F3 TERM POINT		DLT-F3
		E. SET F3 ALARM ATTRIBS		SET-ATTR-F3
		F. RTRV F3 ALARM ATTRIBS		RTRV-ATTR-F3
		G. SET F3 PM MODE		SET-PMMODE-F3
		H. RTRV F3 PM MODE		RTRV-PMMODE-F3
C. T3 TERMINATION POINTS				
		A. CREATE T3 TERM POINT		ENT-T3
		B. EDIT T3 PARAMETER		ED-T3
		C. RTRV T3 PARAMETER		RTRV-T3
		D. DELETE T3 TERM POINT		DLT-T3
		E. SET T3 ALARM ATTRIBS		SET-ATTR-T3
		F. RTRV T3 ALARM ATTRIBS		RTRV-ATTR-T3
		G. SET T3 PM MODE		SET-PMMODE-T3
		H. RTRV T3 PM MODE		RTRV-PMMODE-T3
		I. T3 FAULT ESCALATION		

MENU LEVEL 1	MENU LEVEL 2	MENU LEVEL 3	MENU LEVEL 4	COMMAND
			A.EDIT T3 FAULT PROP	ED-FLTPRO-T3
			B.RTRV T3 FAULT PROP	RTRV-FLTPRO-T3
		D. VT1 TERMINATION POINTS		
		A.	CREATE VT1 TERM POINT	ENT-VT1
		B.	EDIT VT1 PARAMETER	ED-VT1
		C.	RTRV VT1 PARAMETER	RTRV-VT1
		D.	DELETE VT1 TERM POINT	DLT-VT1
		E.	SET VT1 ALARM ATTRIBS	SET-ATTR-VT1
		F.	RTRV VT1 ALARM ATTRIBS	RTRV-ATTR-VT1
		G.	SET VT1 PM MODE	SET-PMMODE-VT1
		H.	RTRV VT1 PM MODE	RTRV-PMMODE-VT1
		I.	VT1 PROTECTION GROUPS	
			A.EDIT VT1 PRTN GROUP	ED-FFP-VT1
			B.RTRV VT1 PRTN GROUP	RTRV-FFP-VT1
		J.	VT1 FAULT ESCALATION	
			A.EDIT VT1 FAULT PROP	ED-FLTPRO-VT1
			B.RTRV VT1 FAULT PROP	RTRV-FLTPRO-VT1
		E. STS1 TERMINATION POINTS		
		A.	CREATE STS1 TERM POINT	ENT-STS1
		B.	EDIT STS1 PARAMETER	ED-STS1
		C.	RTRV STS1 PARAMETER	RTRV-STS1
		D.	DELETE STS1 TERM POINT	DLT-STS1
		E.	STS ALARMS	
			A.SET STS1 ALARM ATTRIBS	SET-ATTR-STS1
			B.RTRV STS1 ALARM ATTRIBS	RTRV-ATTR-STS1
			C.SET STS1 PM MODE	SET-PMMODE-STS1
			D.RTRV STS1 PM MODE	RTRV-PMMODE-STS1
		F.	RTRV STS1 PATH TRACE	RTRV-PTHTRC-STS1
		G.	RTRV STS1 OVERHEAD BYTES	RTRV-OVRHD-STS1
		H.	STS1 PROTECTION GROUPS	
			A.EDIT STS1 PRTN GROUP	ED-FFP-STS1
			B.RTRV STS1 PRTN GROUP	RTRV-FFP-STS1
		I.	STS1 FAULT ESCALATION	
			A.EDIT STS1 FAULT PROP	ED-FLTPRO-STS1
			B.RTRV STS1 FAULT PROP	RTRV-FLTPRO-STS1
		F. EC1 TERMINATION POINTS		
		A.	CREATE EC1 TERM POINT	ENT-EC1
		B.	EDIT EC1 PARAMETER	ED-EC1

MENU LEVEL 1	MENU LEVEL 2	MENU LEVEL 3	MENU LEVEL 4	COMMAND
		C. RTRV EC1 PARAMETER		RTRV-EC1
		D. DELETE EC1 TERM POINT		DLT-EC1
		E. SET EC1 ALARM ATTRIBS		SET-ATTR-EC1
		F. RTRV EC1 ALARM ATTRIBS		RTRV-ATTR-EC1
		G. SET EC1 PM MODE		SET-PMMODE-EC1
		H. RTRV EC1 PM MODE		RTRV-PMMODE-EC1
	G. STS3C TERMINATION POINTS			
		A. CREATE STS3C TERM POINT		ENT-STS3C
		B. EDIT STS3C PARAMETER		ED-STS3C
		C. RTRV STS3C PARAMETER		RTRV-STS3C
		D. DELETE STS3C TERM POINT		DLT-STS3C
		E. SET STS3C ALARM ATTRIBS		SET-ATTR-STS3C
		F. RTRV STS3C ALARM ATTRIBS		RTRV-ATTR-STS3C
		G. SET STS3C PM MODE		SET-PMMODE-STS3C
		H. RTRV STS3C PM MODE		RTRV-PMMODE-STS3C
		I. RTRV STS3C PATH TRACE		RTRV-PTHTRC-STS3C
		J. RTRV STS3C OVERHEAD BYTES		RTRV-OVRHD-STS3C
	H. OC3 TERMINATION POINTS			
		A. CREATE OC3 TERM POINT		ENT-OC3
		B. EDIT OC3 PARAMETER		ED-OC3
		C. RTRV OC3 PARAMETER		RTRV-OC3
		D. DELETE OC3 TERM POINT		DLT-OC3
		E. SET OC3 ALARM ATTRIBS		SET-ATTR-OC3
		F. RTRV OC3 ALARM ATTRIBS		RTRV-ATTR-OC3
		G. SET OC3 PM MODE		SET-PMMODE-OC3
		H. RTRV OC3 PM MODE		RTRV-PMMODE-OC3
		I. RTRV OC3 OVERHEAD BYTES		RTRV-OVRHD-OC3
		J. OC3 PROTECTION GROUPS		
		A.CREATE OC3 PRTN GROUP		ENT-FFP-OC3
		B.EDIT OC3 PRTN GROUP		ED-FFP-OC3
		C.RTRV OC3 PRTN GROUP		RTRV-FFP-OC3
		D.DELETE OC3 PRTN GROUP		DLT-FFP-OC3
		E.CREATE RNG OC3 PRTN GROUP		ENT-RNG-OC3
		F.EDIT RNG OC3 PRTN GROUP		ED-RNG-OC3
		G.RTRV RNG OC3 PRTN GROUP		RTRV-RNG-OC3
		H.DELETE RNG OC3 PRTN GROUP		DLT-RNG-OC3
	I. OC12 TERMINATION POINTS			
		A. CREATE OC12 TERM POINT		ENT-OC12

MENU LEVEL 1	MENU LEVEL 2	MENU LEVEL 3	MENU LEVEL 4	COMMAND
		B.	EDIT OC12 PARAMETER	ED-OC12
		C.	RTRV OC12 PARAMETER	RTRV-OC12
		D.	DELETE OC12 TERM POINT	DLT-OC12
		E.	SET OC12 ALARM ATTRIBS	SET-ATTR-OC12
		F.	RTRV OC12 ALARM ATTRIBS	RTRV-ATTR-OC12
		G.	SET OC12 PM MODE	SET-PMMODE-OC12
		H.	RTRV OC12 PM MODE	RTRV-PMMODE-OC12
		I.	RTRV OC12 OVERHEAD BYTES	RTRV-OVRHD-OC12
		J.	OC12 PROTECTION GROUPS	
			A.CREATE OC12 PRTN GROUP	ENT-FFP-OC12
			B.EDIT OC12 PRTN GROUP	ED-FFP-OC12
			C.RTRV OC12 PRTN GROUP	RTRV-FFP-OC12
			D.DELETE OC12 PRTN GROUP	DLT-FFP-OC12
			E.CREATE RNG OC12 PRTN GROUP	ENT-RNG-OC12
			F.EDIT RNG OC12 PRTN GROUP	ED-RNG-OC12
			G.RTRV RNG OC12 PRTN GROUP	RTRV-RNG-OC12
			H.DELETE RNG OC12 PRTN GROUP	DLT-RNG-OC12
	J. EQUIPMENT			
		A.	CREATE EQUIPMENT	ENT-EQPT
		B.	EDIT EQUIPMENT PARAMETER	ED-EQPT
		C.	RTRV EQUIPMENT PARAMETER	RTRV-EQPT
		D.	DELETE EQUIPMENT	DLT-EQPT
		E.	RTRV EQUIPMENT STATE	RTRV-STATE-EQPT
B. CONNECTIONS				
	A. T1 CROSS-CONNECTIONS			
		A.	CREATE T1 X-CONNECT	ENT-CRS-T1
		B.	EDIT T1 X-CONNECT	ED-CRS-T1
		C.	RTRV T1 X-CONNECT	RTRV-CRS-T1
		D.	DELETE T1 X-CONNECT	DLT-CRS-T1
		E.	RTRV ALL TYPE CONNECTS	RTRV-CRS
		F.	RTRV T1 CONNECT PATH	RTRV-PATH-T1
		G.	RTRV AVAILABLE TIME SLOTS	RTRV-POOL
	B. T1 ROLLING			
		A.	CREATE T1 X-CONNECT	ENT-CRS-T1
		B.	RTRV ALL ROLLS	RTRV-ROLL-ALL
		C.	RTRV T1 X-CONNECT	RTRV-CRS-T1
		D.	DELETE T1 X-CONNECT	DLT-CRS-T1
		E.	CREATE ROLLING T1	ENT-ROLL-T1

MENU LEVEL 1	MENU LEVEL 2	MENU LEVEL 3	MENU LEVEL 4	COMMAND
		F.	RTRV ROLLING T1	RTRV-ROLL-T1
		G.	DELETE ROLLING T1	DLT-ROLL-T1
		H.	RTRV ALL TYPE CONNECTS	RTRV-CRS
		I.	RTRV T1 CONNECT PATH	RTRV-PATH-T1
		J.	RTRV AVAILABLE TIME SLOTS	RTRV-POOL
	C. T1 CONFERENCE			
		A.	CREATE T1 CONF OR LEG	ENT-CONF-T1
		B.	CREATE VT1 LEG	ENT-CONF-VT1
		C.	EDIT T1 CONF OR LEG	ED-CONF-T1
		D.	EDIT VT1 LEG	ED-CONF-VT1
		E.	RTRV T1 CONF LEGS	RTRV-CONF-T1
		F.	DELETE T1 CONF OR LEG	DLT-CONF-T1
		G.	RTRV ALL TYPE CONNECTS	RTRV-CRS
		H.	RTRV T1 CONNECT PATH	RTRV-PATH-T1
		I.	RTRV VT1 CONNECT PATH	RTRV-PATH-VT1
		J.	RTRV AVAILABLE TIME SLOTS	RTRV-POOL
	D. T3 CROSS-CONNECTIONS			
		A.	CREATE T3 X-CONNECT	ENT-CRS-T3
		B.	EDIT T3 X-CONNECT	ED-CRS-T3
		C.	RTRV T3 X-CONNECT	RTRV-CRS-T3
		D.	DELETE T3 X-CONNECT	DLT-CRS-T3
		E.	RTRV ALL TYPE CONNECTS	RTRV-CRS
		F.	RTRV T3 CONNECT PATH	RTRV-PATH-T3
	E. VT1 CROSS-CONNECTIONS			
		A.	CREATE VT1 X-CONNECT	ENT-CRS-VT1
		B.	EDIT VT1 X-CONNECT	ED-CRS-VT1
		C.	RTRV VT1 X-CONNECT	RTRV-CRS-VT1
		D.	DELETE VT1 X-CONNECT	DLT-CRS-VT1
		E.	RTRV ALL TYPE CONNECTS	RTRV-CRS
		F.	RTRV VT1 CONNECT PATH	RTRV-PATH-VT1
		G.	RTRV AVAILABLE TIME SLOTS	RTRV-POOL
	F. VT1 ROLLING			
		A.	CREATE VT1 X-CONNECT	ENT-CRS-VT1
		B.	RTRV ALL ROLLS	RTRV-ROLL-ALL
		C.	RTRV VT1 X-CONNECT	RTRV-CRS-VT1
		D.	DELETE VT1 X-CONNECT	DLT-CRS-VT1
		E.	CREATE ROLLING VT1	ENT-ROLL-VT1
		F.	RTRV ROLLING VT1	RTRV-ROLL-VT1

MENU LEVEL 1	MENU LEVEL 2	MENU LEVEL 3	MENU LEVEL 4	COMMAND
		G. DELETE ROLLING VT1		DLT-ROLL-VT1
		H. RTRV ALL TYPE CONNECTS		RTRV-CRS
		I. RTRV VT1 CONNECT PATH		RTRV-PATH-VT1
		J. RTRV AVAILABLE TIME SLOTS		RTRV-POOL
	G. VT1 CONFERENCE			
		A. CREATE VT1 CONF OR LEG		ENT-CONF-VT1
		B. CREATE T1 LEG		ENT-CONF-T1
		C. EDIT VT1 CONF OR LEG		ED-CONF-VT1
		D. EDIT T1 LEG		ED-CONF-T1
		E. RTRV VT1 CONF LEGS		RTRV-CONF-VT1
		F. DELETE VT1 CONF OR LEG		DLT-CONF-VT1
		G. RTRV ALL TYPE CONNECTS		RTRV-CRS
		H. RTRV VT1 CONNECT PATH		RTRV-PATH-VT1
		I. RTRV T1 CONNECT PATH		RTRV-PATH-T1
		J. RTRV AVAILABLE TIME SLOTS		RTRV-POOL
	H. STS1 CROSS-CONNECTIONS			
		A. CREATE STS1 X-CONNECT		ENT-CRS-STS1
		B. EDIT STS1 X-CONNECT		ED-CRS-STS1
		C. RTRV STS1 X-CONNECT		RTRV-CRS-STS1
		D. DELETE STS1 X-CONNECT		DLT-CRS-STS1
		E. RTRV ALL TYPE CONNECTS		RTRV-CRS
		F. RTRV STS1 CONNECT PATH		RTRV-PATH-STS1
	I. STS3C CROSS-CONNECTIONS			
		A. CREATE STS3C X-CONNECT		ENT-CRS-STS3C
		B. EDIT STS3C X-CONNECT		ED-CRS-STS3C
		C. RTRV STS3C X-CONNECT		RTRV-CRS-STS3C
		D. DELETE STS3C X-CONNECT		DLT-CRS-STS3C
		E. RTRV ALL TYPE CONNECTS		RTRV-CRS
		F. RTRV STS3C CONNECT PATH		RTRV-PATH-STS3C
	J. RTRV CKTID/RDL/FAC SUM			
		A. RTRV CIRCUIT ID INFO		RTRV-CKTID
		B. RTRV ALL REDLINE INFO		RTRV-RDL-ALL
		C. RTRV FAC & X-CONN SUM		RTRV-FAC-SUM
C. SYSTEM MAINTENANCE				
	A. RTRV/ACKNOWLEDGE ALARMS			
		A. ACKNOWLEDGE ALARMS		
			A.OPERATE ALARM CUT OFF	OPR-ACO-ALL
			B.CLEAR LATCHED EQPT ALARM	CLR-ALM-EQPT

MENU LEVEL 1	MENU LEVEL 2	MENU LEVEL 3	MENU LEVEL 4	COMMAND
			C.FLUSH USI BUFFER	ED-CID-LCTN
		B.	RTRV ANY (ALL) ALARMS	RTRV-ALM-ALL
		C.	RTRV EQUIPMENT ALARMS	RTRV-ALM-EQPT
		D.	RTRV COMMON ALARMS	RTRV-ALM-COM
		E.	RTRV FACILITY ALARMS	RTRV-ALM-FAC
			A.RTRV T1 ALARMS	RTRV-ALM-T1
			B.RTRV F3 ALARMS	RTRV-ALM-F3
			C.RTRV T3 ALARMS	RTRV-ALM-T3
			D.RTRV VT1 ALARMS	RTRV-ALM-VT1
			E.RTRV STS1 ALARMS	RTRV-ALM-STS1
			F.RTRV EC1 ALARMS	RTRV-ALM-EC1
			G.RTRV STS3C ALARMS	RTRV-ALM-STS3C
			H.RTRV OC3 ALARMS	RTRV-ALM-OC3
			I.RTRV OC12 ALARMS	RTRV-ALM-OC12
			J.RTRV ALARM SUMMARY	RTRV-ALM-SUM
		F.	RTRV ANY (ALL) CONDITIONS	RTRV-COND-ALL
		G.	RTRV EQUIPMENT CONDITIONS	RTRV-COND-EQPT
		H.	RTRV COMMON CONDITIONS	RTRV-COND-COM
		I.	RTRV FACILITY CONDITIONS	
			A.RTRV T1 CONDITIONS	RTRV-COND-T1
			B.RTRV F3 CONDITIONS	RTRV-COND-F3
			C.RTRV T3 CONDITIONS	RTRV-COND-T3
			D.RTRV VT1 CONDITIONS	RTRV-COND-VT1
			E.RTRV STS1 CONDITIONS	RTRV-COND-STS1
			F.RTRV EC1 CONDITIONS	RTRV-COND-EC1
			G.RTRV STS3C CONDITIONS	RTRV-COND-STS3C
			H.RTRV OC3 CONDITIONS	RTRV-COND-OC3
			I.RTRV OC12 CONDITIONS	RTRV-COND-OC12
	B. EQUIPMENT CONTROL			
		A.	EDIT EQUIPMENT PARAMETER	ED-EQPT
		B.	RTRV EQUIPMENT PARAMETER	RTRV-EQPT
		C.	RTRV EQUIPMENT STATE	RTRV-STATE-EQPT
		D.	SWITCH TO REDUNDANT EQPT	SW-DX-EQPT
		E.	REMOVE EQUIPMENT UNIT	RMV-EQPT
		F.	RESTORE EQUIPMENT UNIT	RST-EQPT
		G.	REPROGRAM EQPT EEPROM	RPGM-EQPT
	C. EQPT PROTECTION CONTROL			
		A.	SWITCH TO REDUNDANT EQPT	SW-DX-EQPT

MENU LEVEL 1	MENU LEVEL 2	MENU LEVEL 3	MENU LEVEL 4	COMMAND
		B.	SWITCH IO TO PROTECT	SW-TOPROTN-EQPT
		C.	SWITCH IO TO WORKING	SW-TOWKG-EQPT
		D.	ALLOW AUTO DX SWITCH	ALW-SW-EQPT
		E.	INHIBIT AUTO DX SWITCH	INH-SW-EQPT
		F.	ALLOW AUTO SWITCH PROTN	ALW-SWTOPTN-EQPT
		G.	INHIBIT AUTO SWITCH PROTN	INH-SWTOPTN-EQPT
		H.	ALLOW AUTO SW TO WRK	ALW-SWTOWKG-EQPT
		I.	INHIBIT AUTO SW TO WRK	INH-SWTOWKG-EQPT
	D. TIMING EQUIPMENT CONTROL			
		A.	SET SYNC MODE	SET-SYCN
		B.	SWITCH TIMING REFERENCE	OPR-SYCNNSW
		C.	RELEASE TIMING REFERENCE	RLS-SYCNNSW
		D.	RTRV SYNC STATUS FROM T1	RTRV-SYSTMSG-T1
		E.	RTRV SYNC STATUS FROM OC3	RTRV-SYSTMSG-OC3
		F.	RTRV SYNC STAT FROM OC12	RTRV-SYSTMSG-OC12
	E. EQUIPMENT DIAGNOSTICS			
		A.	RUN EQPT DIAGNOSTICS	DGN-EQPT
		B.	RTRV EQPT DIAG STATUS	RTRV-DGN-STATUS
		C.	RTRV EQUIPMENT ALARMS	RTRV-ALM-EQPT
		D.	RTRV EQPT CONDITIONS	RTRV-COND-EQPT
		E.	RTRV EQPT PROCESS STATUS	RTRV-PROCSTAT-EQPT
		F.	RTRV BUS STATUS	RTRV-BUS-STATUS
	F. FACILITY PROTECTION CONTROL			
		A.	VT1 PROTECTION CONTROL	
			A.OPERATE VT1 PRTN SWITCH	OPR-PROTNSW-VT1
			B.RELEASE VT1 PRTN SWITCH	RLS-PROTNSW-VT1
			C.RTRV VT1 PRTN GROUP	RTRV-FFP-VT1
		B.	STS1 PROTECTION CONTROL	
			A.OPERATE STS1 PRTN SWITCH	OPR-PROTNSW-ST1
			B.RELEASE STS1 PRTN SWITCH	RLS-PROTNSW-ST1
			C.RTRV STS1 PRTN GROUP	RTRV-FFP-ST1
		C.	OC3 PROTECTION CONTROL	
			A.OPERATE OC3 PRTN SWITCH	OPR-PROTNSW-OC3
			B.RELEASE OC3 PRTN SWITCH	RLS-PROTNSW-OC3
			C.RTRV OC3 PRTN GROUP	RTRV-FFP-OC3
			D.RTRV RNG OC3 PRTN GROUP	RTRV-RNG-OC3
		D.	OC12 PROTECTION CONTROL	
			A.OPERATE OC12 PRTN SWITCH	OPR-PROTNSW-OC12

MENU LEVEL 1	MENU LEVEL 2	MENU LEVEL 3	MENU LEVEL 4	COMMAND
			B.RELEASE OC12 PRTN SWITCH	RLS-PROTNSW-OC12
			C.RTRV OC12 PRTN GROUP	RTRV-FFP-OC12
			D.RTRV RNG OC12 PRTN GROUP	RTRV-RNG-OC12
		G. USI CONTROL		
		A. EDIT USI DEVICE		ED-CID
		B. RTRV USI DEVICE		RTRV-CID
		C. START USI OUTPUT		START-CID
		D. STOP USI OUTPUT		STOP-CID
		E. REMOVE USI DEVICE *		RMV-CID
		F. RESTORE USI DEVICE *		RST-CID
		G. EDIT USI OS PORT		ED-CID-OSPORT
		H. EDIT OS VIRTUAL CHANNEL		ED-CID-VC
		I. FLUSH USI BUFFER		ED-CID-LCTN
		H. FAULT LOCATION		
		A. RTRV T1 CONNECT PATH		RTRV-PATH-T1
		B. RTRV T3 CONNECT PATH		RTRV-PATH-T3
		C. RTRV VT1 CONNECT PATH		RTRV-PATH-VT1
		D. RTRV STS1 CONNECT PATH		RTRV-PATH-STS1
		E. RTRV STS3C CONNECT PATH		RTRV-PATH-STS3C
		F. RTRV GTI CABLE STATUS		RTRV-GTI-STATUS
		G. RTRV FAULT LOCATING DATA		
		A.RTRV EQUIPMENT FL DATA		RTRV-FL-EQPT
		B.RTRV T1 PATH FL DATA		FLTLOC-PATH-T1
		C.RTRV T3 PATH FL DATA		FLTLOC-PATH-T3
		D.RTRV VT1 PATH FL DATA		FLTLOC-PATH-VT1
		E.RTRV STS1 PATH FL DATA		FLTLOC-PATH-STS1
		F.RTRV STS3C PATH FL DATA		FLTLOC-PATH-STS3C
		G.RTRV CONNECT ID MISMATCH		RTRV-XIDMISM
		H.ALLOW FAULT LOCATING		ALW-FL-EQPT
		I.INHIBIT FAULT LOCATING		INH-FL-EQPT
		I. IO/MATRIX EQPT GROWTH		
		A. EQUIPMENT PROVISIONING		
		A.CREATE EQUIPMENT		ENT-EQPT
		B.EDIT EQUIPMENT PARAMETER		ED-EQPT
		C.RTRV EQUIPMENT PARAMETER		RTRV-EQPT
		D.DELETE EQUIPMENT		DLT-EQPT
		E.RTRV EQUIPMENT STATE		RTRV-STATE-EQPT
		F.RUN EQPT DIAGNOSTICS		DGN-EQPT

MENU LEVEL 1	MENU LEVEL 2	MENU LEVEL 3	MENU LEVEL 4	COMMAND
			G.RTRV EQPT DIAG STATUS	RTRV-DGN-STATUS
			H.RTRV EQUIPMENT ALARMS	RTRV-ALM-EQPT
			I.RTRV EQPT CONDITIONS	RTRV-COND-EQPT
		B. IN-SERVICE GROWTH LOOPBACK		
			A.OPERATE T1 ISG LOOPBACK	OPR-ISGLP-T1
			B.RELEASE T1 ISG LOOPBACK	RLS-ISGLP-T1
			C.OPERATE T3 ISG LOOPBACK	OPR-ISGLP-T3
			D.RELEASE T3 ISG LOOPBACK	RLS-ISGLP-T3
			E.OPERATE VT1 ISG LOOPBACK	OPR-ISGLP-VT1
			F.RELEASE VT1 ISG LOOPBACK	RLS-ISGLP-VT1
			G.OPERATE STS1 ISG LPBK	OPR-ISGLP-STS1
			H.RELEASE STS1 ISG LOOPBACK	RLS-ISGLP-STS1
			I.RTRV ALL ISG LOOPBACKS	RTRV-ISGLP-ALL
		C. CABLING VALIDATION		
			A.RTRV EQUIPMENT FL DATA	RTRV-FL-EQPT
			B.RTRV GTI CABLE STATUS	RTRV-GTI-STATUS
			C.RTRV T1 PATH FL DATA	FLTLOC-PATH-T1
			D.RTRV T3 PATH FL DATA	FLTLOC-PATH-T3
			E.RTRV VT1 PATH FL DATA	FLTLOC-PATH-VT1
			F.RTRV STS1 PATH FL DATA	FLTLOC-PATH-STS1
			G.RTRV STS3C PATH FL DATA	FLTLOC-PATH-STS3C
			H.RTRV CONNECT ID MISMATCH	RTRV-XIDMISM
		D. IO/MATRIX UPGRADE		
			A.SELECT MATRIX COPY	SELECT-COPY
			B.VERIFY MATRIX COPY	VERFY-COPY
			C.RTRV MATRIX EQPT TYPES	RTRV-MTX
			D.START IO/MATRIX UPGRADE	START-UPGRADE
			E.STOP IO/MATRIX UPGRADE	STOP-UPGRADE
			F.RTRV COMMON ALARMS	RTRV-ALM-COM
			G.RTRV COMMON CONDITIONS	RTRV-COND-COM
		E. INSTALLATION TEST/MAINT		
			A.START ITM MODE	START-ITMMODE
			B.STOP ITM MODE	STOP-ITMMODE
			C.START ITM TEST	START-ITMTEST
			D.STOP ITM TEST	STOP-ITMTEST
			E.RTRV ITM RESULT	RTRV-ITMRSLT

D. FACILITY TESTING

A. T1 TESTING

MENU LEVEL 1	MENU LEVEL 2	MENU LEVEL 3	MENU LEVEL 4	COMMAND
		A. REMOVE T1 FROM SERVICE		RMV-T1
		B. RESTORE T1 TO SERVICE		RST-T1
		C. T1 TEST ACCESS		
		A.CONNECT T1 TO TACC		CONN-TACC-T1
		B.DISCONNECT T1 FROM TACC		DISC-TACC
		C.DISCONNECT FRM TACC PRVG		DISC-TACC-PRVG
		D.CHANGE TACC MODE		CHG-ACCMD-T1
		E.RTRV TACC PORT CONFIGS		RTRV-TACC
		F.CHANGE TERM AND LEAVE		CHG-TL-DIG
		G.RESTORE T1 TO NORMAL		RST-TAP-DIG
		H.DISCONN ALL OWNED TACC		REPT-INITZN
		I.RTRV AVAILABLE TIME SLOTS		RTRV-POOL
		D. T1 LOOPBACKS		
		A.OPERATE T1 LOOPBACK		OPR-LPBK-T1
		B.RELEASE T1 LOOPBACK		RLS-LPBK-T1
		C.ALLOW C-BIT LOOPBACK		ALW-CBIT-T1
		D.INHIBIT C-BIT LOOPBACK		INH-CBIT-T1
		E.RTRV T1 LOOPBACKS		RTRV-LPBK-T1
		F.RTRV T1 ALARMS		RTRV-ALM-T1
		G.RTRV T1 CONDITIONS		RTRV-COND-T1
		H.RTRV T1 PARAMETER		RTRV-T1
	B. T3 TESTING			
		A. REMOVE T3 FROM SERVICE		RMV-T3
		B. RESTORE T3 TO SERVICE		RST-T3
		C. T3 TEST ACCESS		
		A.CONNECT T3 TO TACC		CONN-TACC-T3
		B.DISCONNECT T3 FROM TACC		DISC-TACC
		C.DISCONNECT FRM TACC PRVG		DISC-TACC-PRVG
		D.CHANGE TACC MODE		CHG-ACCMD-T3
		E.RTRV TACC PORT CONFIGS		RTRV-TACC
		F.CHANGE TERM AND LEAVE		CHG-TL-DIG
		G.RESTORE T3 TO NORMAL		RST-TAP-DIG
		H.DISCONN ALL OWNED TACC		REPT-INITZN
		I.RTRV AVAIL TIME SLOTS		RTRV-POOL
		D. T3 LOOPBACKS		
		A.OPERATE T3 LOOPBACK		OPR-LPBK-T3
		B.RELEASE T3 LOOPBACK		RLS-LPBK-T3
		C.RTRV T3 LOOPBACKS		RTRV-LPBK-T3

MENU LEVEL 1	MENU LEVEL 2	MENU LEVEL 3	MENU LEVEL 4	COMMAND
			D.RTRV T3 ALARMS	RTRV-ALM-T3
			E.RTRV T3 CONDITIONS	RTRV-COND-T3
			F.RTRV T3 PARAMETER	RTRV-T3
		C. VT1 TESTING		
		A. REMOVE VT1 FROM SERVICE		RMV-VT1
		B. RESTORE VT1 TO SERVICE		RST-VT1
		C. VT1 TEST ACCESS		
		A.CONNECT VT1 TO TACC		CONN-TACC-VT1
		B.DISCONNECT VT1 FROM TACC		DISC-TACC
		C.DISCONNECT FRM TACC PRV		DISC-TACC-PRVG
		D.CHANGE TACC MODE		CHG-ACCMD-VT1
		E.RTRV TACC PORT CONFIGS		RTRV-TACC
		F.CHANGE TERM AND LEAVE		CHG-TL-DIG
		G.RESTORE VT1 TO NORMAL		RST-TAP-DIG
		H.DISCONN ALL OWNED TACC		REPT-INITZN
		I.RTRV AVAIL TIME SLOTS		RTRV-POOL
		D. VT1 LOOPBACKS		
		A.OPERATE VT1 LOOPBACK		OPR-LPBK-VT1
		B.RELEASE VT1 LOOPBACK		RLS-LPBK-VT1
		C.RTRV VT1 LOOPBACKS		RTRV-LPBK-VT1
		D.RTRV VT1 ALARMS		RTRV-ALM-VT1
		E.RTRV VT1 CONDITIONS		RTRV-COND-VT1
		F.RTRV VT1 PARAMETER		RTRV-VT1
		D. STS1 TESTING		
		A. REMOVE STS1 FROM SERVICE		RMV-STS1
		B. RESTORE STS1 TO SERVICE		RST-STS1
		C. STS1 TEST ACCESS		
		A.CONNECT STS1 TO TACC		CONN-TACC-STS1
		B.DISCONNECT STS1 FRM TACC		DISC-TACC
		C.DISCONNECT FRM TACC PRV		DISC-TACC-PRVG
		D.CHANGE TACC MODE		CHG-ACCMD-STS1
		E.RTRV TACC PORT CONFIGS		RTRV-TACC
		F.CHANGE TERM AND LEAVE		CHG-TL-DIG
		G.RESTORE STS1 TO NORMAL		RST-TAP-DIG
		H.DISCONN ALL OWNED TACC		REPT-INITZN
		I.RTRV AVAIL TIME SLOTS		RTRV-POOL
		D. STS1 LOOPBACKS		
		A.OPERATE STS1 LOOPBACK		OPR-LPBK-STS1

MENU LEVEL 1	MENU LEVEL 2	MENU LEVEL 3	MENU LEVEL 4	COMMAND
			B.RELEASE STS1 LOOPBACK	RLS-LPBK-STS1
			C.RTRV STS1 LOOPBACKS	RTRV-LPBK-STS1
			D.RTRV STS1 ALARMS	RTRV-ALM-STS1
			E.RTRV STS1 CONDITIONS	RTRV-COND-STS1
			F.RTRV STS1 PARAMETER	RTRV-STS1
			G.RTRV STS1 PATH TRACE	RTRV-PTHTRC-STS1
			H.RTRV STS1 OVERHEAD BYTES	RTRV-OVRHD-STS1
E. EC1 TESTING				
		A.	REMOVE EC1 FROM SERVICE	RMV-EC1
		B.	RESTORE EC1 TO SERVICE	RST-EC1
		C.	OPERATE EC1 LOOPBACK	OPR-LPBK-EC1
		D.	RELEASE EC1 LOOPBACK	RLS-LPBK-EC1
		E.	RTRV EC1 LOOPBACKS	RTRV-LPBK-EC1
		F.	RTRV EC1 ALARMS	RTRV-ALM-EC1
		G.	RTRV EC1 CONDITIONS	RTRV-COND-EC1
		H.	RTRV EC1 PARAMETER	RTRV-EC1
F. STS3C TESTING				
		A.	REMOVE STS3C FRM SERVICE	RMV-STS3C
		B.	RESTORE STS3C TO SERVICE	RST-STS3C
		C.	OPERATE STS3C LOOPBACK	OPR-LPBK-STS3C
		D.	RELEASE STS3C LOOPBACK	RLS-LPBK-STS3C
		E.	RTRV STS3C LOOPBACKS	RTRV-LPBK-STS3C
		F.	RTRV STS3C ALARMS	RTRV-ALM-STS3C
		G.	RTRV STS3C CONDITIONS	RTRV-COND-STS3C
		H.	RTRV STS3C PARAMETER	RTRV-STS3C
		I.	RTRV STS3C PATH TRACE	RTRV-PTHTRC-STS3C
		J.	RTRV STS3C OVERHEAD BYTES	RTRV-OVRHD-STS3C
G. OC3 TESTING				
		A.	REMOVE OC3 FROM SERVICE	RMV-OC3
		B.	RESTORE OC3 TO SERVICE	RST-OC3
		C.	OPERATE OC3 LOOPBACK	OPR-LPBK-OC3
		D.	RELEASE OC3 LOOPBACK	RLS-LPBK-OC3
		E.	RTRV OC3 LOOPBACKS	RTRV-LPBK-OC3
		F.	RTRV OC3 ALARMS	RTRV-ALM-OC3
		G.	RTRV OC3 CONDITIONS	RTRV-COND-OC3
		H.	RTRV OC3 PARAMETER	RTRV-OC3
		I.	RTRV OC3 OVERHEAD BYTES	RTRV-OVRHD-OC3
H. OC12 TESTING				

MENU LEVEL 1	MENU LEVEL 2	MENU LEVEL 3	MENU LEVEL 4	COMMAND
		A.	REMOVE OC12 FROM SERVICE	RMV-OC12
		B.	RESTORE OC12 TO SERVICE	RST-OC12
		C.	OPERATE OC12 LOOPBACK	OPR-LPBK-OC12
		D.	RELEASE OC12 LOOPBACK	RLS-LPBK-OC12
		E.	RTRV OC12 LOOPBACKS	RTRV-LPBK-OC12
		F.	RTRV OC12 ALARMS	RTRV-ALM-OC12
		G.	RTRV OC12 CONDITIONS	RTRV-COND-OC12
		H.	RTRV OC12 PARAMETER	RTRV-OC12
		I.	RTRV OC12 OVERHEAD BYTES	RTRV-OVRHD-OC12
E. PERFORMANCE MONITORING				
	A. PM ADMINISTRATION			
		A.	SCHEDULE PM REPORTS	
			A.SCHEDULE T1 PM REPORT	SCHED-PMREPT-T1
			B.SCHEDULE F3 PM REPORT	SCHED-PMREPT-F3
			C.SCHEDULE T3 PM REPORT	SCHED-PMREPT-T3
			D.SCHEDULE VT1 PM REPORT	SCHED-PMREPT-VT1
			E.SCHEDULE STS1 PM REPORT	SCHED-PMREPT-STS1
			F.SCHEDULE EC1 PM REPORT	SCHED-PMREPT-EC1
			G.SCHEDULE STS3C PM REPORT	SCHED-PMREPT-STS3C
			H.SCHEDULE OC3 PM REPORT	SCHED-PMREPT-OC3
			I.SCHEDULE OC12 PM REPORT	SCHED-PMREPT-OC12
			J.SCHEDULE DAILY PM REPORT	SCHED-PMREPT-ALL
		B.	RTRV PM REPORT SCHEDULES	
			A.RTRV T1 PM REPORT SCHED	RTRV-PMSCHED-T1
			B.RTRV F3 PM REPORT SCHED	RTRV-PMSCHED-F3
			C.RTRV T3 PM REPORT SCHED	RTRV-PMSCHED-T3
			D.RTRV VT1 PM REPORT SCHED	RTRV-PMSCHED-VT1
			E.RTRV STS1 PM REPORT SCHED	RTRV-PMSCHED-STS1
			F.RTRV EC1 PM REPORT SCHED	RTRV-PMSCHED-EC1
			G.RTRV STS3C PM REPT SCHED	RTRV-PMSCHED-STS3C
			H.RTRV OC3 PM REPORT SCHED	RTRV-PMSCHED-OC3
			I.RTRV OC12 PM REPORT SCHED	RTRV-PMSCHED-OC12
			J.RTRV PM REPORT SCHEDULE	RTRV-PMSCHED-ALL
		C.	SET TCA RESTRICTIONS	SET-PMATTR-ALL
		D.	RTRV TCA RESTRICTIONS	RTRV-PMATTR-ALL
	B. T1 PERF MONITORING			
		A.	RTRV T1 PM DATA	RTRV-PM-T1
		B.	INITIALIZE T1 PM REG	INIT-REG-T1

MENU LEVEL 1	MENU LEVEL 2	MENU LEVEL 3	MENU LEVEL 4	COMMAND
		C. SET T1 THRESHOLD		SET-TH-T1
		D. RTRV T1 THRESHOLD		RTRV-TH-T1
		E. SET T1 PM MODE		SET-PMMODE-T1
		F. RTRV T1 PM MODE		RTRV-PMMODE-T1
		G. ALLOW T1 PM REPORTS		ALW-PMREPT-T1
		H. INHIBIT T1 PM REPORTS		INH-PMREPT-T1
	C. F3 (FRACT T3) PERF MON			
		A. RTRV F3 PM DATA		RTRV-PM-F3
		B. INITIALIZE F3 PM REG		INIT-REG-F3
		C. SET F3 PM MODE		SET-PMMODE-F3
		D. RTRV F3 PM MODE		RTRV-PMMODE-F3
		E. ALLOW F3 PM REPORTS		ALW-PMREPT-F3
		F. INHIBIT F3 PM REPORTS		INH-PMREPT-F3
	D. T3 PERF MONITORING			
		A. RTRV T3 PM DATA		RTRV-PM-T3
		B. INITIALIZE T3 PM REG		INIT-REG-T3
		C. SET T3 THRESHOLD		SET-TH-T3
		D. RTRV T3 THRESHOLD		RTRV-TH-T3
		E. SET T3 PM MODE		SET-PMMODE-T3
		F. RTRV T3 PM MODE		RTRV-PMMODE-T3
		G. ALLOW T3 PM REPORTS		ALW-PMREPT-T3
		H. INHIBIT T3 PM REPORTS		INH-PMREPT-T3
	E. VT1 PERF MONITORING			
		A. RTRV VT1 PM DATA		RTRV-PM-VT1
		B. INITIALIZE VT1 PM REG		INIT-REG-VT1
		C. SET VT1 THRESHOLD		SET-TH-VT1
		D. RTRV VT1 THRESHOLD		RTRV-TH-VT1
		E. SET VT1 PM MODE		SET-PMMODE-VT1
		F. RTRV VT1 PM MODE		RTRV-PMMODE-VT1
		G. ALLOW VT1 PM REPORTS		ALW-PMREPT-VT1
		H. INHIBIT VT1 PM REPORTS		INH-PMREPT-VT1
	F. STS1 PERF MONITORING			
		A. RTRV STS1 PM DATA		RTRV-PM-STS1
		B. INITIALIZE STS1 PM REG		INIT-REG-STS1
		C. SET STS1 THRESHOLD		SET-TH-STS1
		D. RTRV STS1 THRESHOLD		RTRV-TH-STS1
		E. SET STS1 PM MODE		SET-PMMODE-STS1
		F. RTRV STS1 PM MODE		RTRV-PMMODE-STS1

MENU LEVEL 1	MENU LEVEL 2	MENU LEVEL 3	MENU LEVEL 4	COMMAND
		G. ALLOW STS1 PM REPORTS		ALW-PMREPT-STS1
		H. INHIBIT STS1 PM REPORTS		INH-PMREPT-STS1
	G. EC1 PERF MONITORING			
		A. RTRV EC1 PM DATA		RTRV-PM-EC1
		B. INITIALIZE EC1 PM REG		INIT-REG-EC1
		C. SET EC1 THRESHOLD		SET-TH-EC1
		D. RTRV EC1 THRESHOLD		RTRV-TH-EC1
		E. SET EC1 PM MODE		SET-PMMODE-EC1
		F. RTRV EC1 PM MODE		RTRV-PMMODE-EC1
		G. ALLOW EC1 PM REPORTS		ALW-PMREPT-EC1
		H. INHIBIT EC1 PM REPORTS		INH-PMREPT-EC1
	H. STS3C PERF MONITORING			
		A. RTRV STS3C PM DATA		RTRV-PM-STS3C
		B. INITIALIZE STS3C PM REG		INIT-REG-STS3C
		C. SET STS3C THRESHOLD		SET-TH-STS3C
		D. RTRV STS3C THRESHOLD		RTRV-TH-STS3C
		E. SET STS3C PM MODE		SET-PMMODE-STS3C
		F. RTRV STS3C PM MODE		RTRV-PMMODE-STS3C
		G. ALLOW STS3C PM REPORTS		ALW-PMREPT-STS3C
		H. INHIBIT STS3C PM REPORTS		INH-PMREPT-STS3C
	I. OC3 PERF MONITORING			
		A. RTRV OC3 PM DATA		RTRV-PM-OC3
		B. INITIALIZE OC3 PM REG		INIT-REG-OC3
		C. SET OC3 THRESHOLD		SET-TH-OC3
		D. RTRV OC3 THRESHOLD		RTRV-TH-OC3
		E. SET OC3 PM MODE		SET-PMMODE-OC3
		F. RTRV OC3 PM MODE		RTRV-PMMODE-OC3
		G. ALLOW OC3 PM REPORTS		ALW-PMREPT-OC3
		H. INHIBIT OC3 PM REPORTS		INH-PMREPT-OC3
	J. OC12 PERF MONITORING			
		A. RTRV OC12 PM DATA		RTRV-PM-OC12
		B. INITIALIZE OC12 PM REG		INIT-REG-OC12
		C. SET OC12 THRESHOLD		SET-TH-OC12
		D. RTRV OC12 THRESHOLD		RTRV-TH-OC12
		E. SET OC12 PM MODE		SET-PMMODE-OC12
		F. RTRV OC12 PM MODE		RTRV-PMMODE-OC12
		G. ALLOW OC12 PM REPORTS		ALW-PMREPT-OC12
		H. INHIBIT OC12 PM REPORTS		INH-PMREPT-OC12

MENU LEVEL 1	MENU LEVEL 2	MENU LEVEL 3	MENU LEVEL 4	COMMAND
F. SYSTEM ADMINISTRATION				
	A. DATABASE UTILITIES			
		A. ACTIVATE DATABASE BACKUP		ACT-DB-BACKUP
		B. CANCEL DATABASE BACKUP		CANC-DB-BACKUP
		C. RTRV DB MEDIA LABEL *		RTRV-DB-LABEL
		D. CLEAR LATCHED EQPT ALARM		CLR-ALM-EQPT
		E. RESTORE DATABASE *		RESTORE-DB
		F. START NORMAL OPERATIONS *		START-OPS
		G. INITIALIZE SYSTEM		INIT-SYS
	B. USER PROVISIONING			
		A. EDIT USER PASSWORD		ED-PID
		B. CREATE NEW USER		ENT-USER
		C. EDIT USER PRIVILEGES		ED-PRVG-USER
		D. RTRV USER PRIVILEGES		RTRV-PRVG-USER
		E. DELETE EXISTING USER		DLT-USER
		F. START MONITORING USI		START-MON-CPORT
		G. STOP MONITORING USI		STOP-MON-CPORT
		H. RTRV MONITORED USI		RTRV-MON-CPORT
		I. FTP USER PROVISIONING		
		A.CREATE FTP USER		ENT-FTP-USER
		B.EDIT FTP USER		ED-FTP-USER
		C.RTRV FTP USER		RTRV-FTP-USER
		D.DELETE FTP USER		DLT-FTP-USER
	C. COMMAND SECURITY			
		A. EDIT COMMAND SECURITY		ED-PRVG-CMD
		B. EDIT COMMAND GROUP		ED-GROUP-CMD
		C. RTRV COMMAND SECURITY		RTRV-PRVG-CMD
	D. SITE PROVISIONING			
		A. EDIT NE PARAMETERS		ED-PRMTR-NE
		B. RTRV NE PARAMETERS		RTRV-PRMTR-NE
		C. EDIT SITE PARAMETERS		ED-PRMTR-SITE
		D. RTRV SITE PARAMETERS		RTRV-PRMTR-SITE
		E. SYSTEM AND NODE IDS		
		A.SET SITE IDENTIFIER		SET-SID
		B.SET NODE IDENTIFIER		SET-NODEID
		C.RTRV NODE IDENTIFIER		RTRV-NODEID
		F. EDIT DATE		ED-DAT
		G. RTRV SITE HEADER		RTRV-HDR

MENU LEVEL 1	MENU LEVEL 2	MENU LEVEL 3	MENU LEVEL 4	COMMAND
		H.	SET LOGON WARNING MESSAGE	SET-WARN-MSG
		I.	RTRV SOFTWARE VERSION	RTRV-STWR-VSN
	E.	USI & X.25 PROVISIONING		
		A.	CREATE USI DEVICE	ENT-CID
		B.	EDIT USI DEVICE	ED-CID
		C.	RTRV USI DEVICE	RTRV-CID
		D.	DELETE USI DEVICE	DLT-CID
		E.	REMOVE USI DEVICE	RMV-CID
		F.	RESTORE USI DEVICE	RST-CID
		G.	X.25 PROVISIONING	
			A.CREATE OS VIRTUAL CHANNEL	ENT-CID-VC
			B.EDIT OS VIRTUAL CHANNEL	ED-CID-VC
			C.RTRV OS VIRTUAL CHANNEL	RTRV-CID
			D.DELETE OS VIRTUAL CHANNEL *	DLT-CID-VC
			E.EDIT USI X25 PORT	ED-CID-OSPORT
			F.CREATE OS SITE ADDRESS	ENT-OSADDR-SITE
			G.EDIT OS SITE ADDRESS	ED-OSADDR-SITE
			H.RTRV OS SITE ADDRESS	RTRV-OSADDR-SITE
			I.DELETE OS SITE ADDRESS	DLT-OSADDR-SITE
	F.	DCC NETWORK ADMIN		
		A.	COPY MEMORY	CPY-MEM
		B.	OSI MANUAL AREA ADDRESS	
			A.CREATE MANUAL AREA ADDR	ENT-MAADDR
			B.EDIT MANUAL AREA ADDRESS	ED-MAADDR
			C.RTRV MANUAL AREA ADDRESS	RTRV-MAADDR
			D.DELETE MANUAL AREA ADDR	DLT-MAADDR
		C.	OSI LOWER LAYER ADMIN	
			A.EDIT LL SECTION DCC	ED-LLSDCC
			B.RTRV LL SECTION DCC	RTRV-LLSDCC
			C.EDIT LL LINE DCC	ED-LLLDCC
			D.RTRV LL LINE DCC	RTRV-LLLDCC
			E.RTRV DCC STATISTICS	RTRV-DCC-STATS
			F.CLEAR DCC STATISTICS	CLR-DCC-STATS
			G.EDIT LL LAN	ED-LLLAN
			H.RTRV LL LAN	RTRV-LLLAN
			I.RTRV LAN STATISTICS	RTRV-LAN-STATS
			J.CLEAR LAN STATISTICS	CLR-LAN-STATS
		D.	OSI UPPER LAYER ADMIN	

MENU LEVEL 1	MENU LEVEL 2	MENU LEVEL 3	MENU LEVEL 4	COMMAND
			A.RTRV NTRWK SERV ACCSS PT	RTRV-NSAP
			B.EDIT UL COMMON PARAMETERS	ED-ULCOMPMR
			C.RTRV UL COMMON PARAMETERS	RTRV-ULCOMPMR
			D.EDIT UL SECTION DCC	ED-ULSDCC
			E.RTRV UL SECTION DCC	RTRV-ULSDCC
			F.EDIT UL LINE DCC	ED-ULLDCC
			G.RTRV UL LINE DCC	RTRV-ULLDCC
			H.EDIT UL LAN	ED-ULLAN
			I.RTRV UL LAN	RTRV-ULLAN
		E. OSI TARP ADMIN		
			A.CREATE TARP ADJ TABLE DCC	ENT-TARPADJ-DCC
			B.EDIT TARP ADJ TABLE DCC	ED-TARPADJ-DCC
			C.RTRV TARP ADJ TABLE DCC	RTRV-TARPADJ-DCC
			D.DELETE TARP ADJ TABLE DCC	DLT-TARPADJ-DCC
			E.CREATE TARP ADJ TABLE LAN	ENT-TARPADJ-LAN
			F.EDIT TARP ADJ TABLE LAN	ED-TARPADJ-LAN
			G.RTRV TARP ADJ TABLE LAN	RTRV-TARPADJ-LAN
			H.DELETE TARP ADJ TABLE LAN	DLT-TARPADJ-LAN
			I.RTRV TARP LOOP DETN BFR	RTRV-TARPLDB
			J.DELETE TARP LOOP DETN BFR	DLT-TARPLDB
		G. LAN ADMINISTRATION		
		A. TCP/IP NETWORK PROV		
			A.CREATE IP PARAMETERS *	ENT-IP-PRMTR
			B.EDIT IP PARAMETERS *	ED-IP-PRMTR
			C.RTRV IP PARAMETERS *	RTRV-IP-PRMTR
			D.DELETE IP PARAMETERS *	DLT-IP-PRMTR
			E.EDIT RIP PARAMETERS *	ED-RIP-PRMTR
			F.RTRV RIP PARAMETERS *	RTRV-RIP-PRMTR
		B. TCP/IP STATIC RTNG TABLE		
			A.CREATE IP STATIC ROUTER *	ENT-IP-STATICRT
			B.EDIT IP STATIC ROUTER *	ED-IP-STATICRT
			C.RTRV IP STATIC ROUTER *	RTRV-IP-STATICRT
			D.DELETE IP STATIC ROUTER *	DLT-IP-STATICRT
		C. TCP/IP FIREWALL SUPPORT		
			A.CREATE IP PACKET FILTER *	ENT-IP-FILTER
			B.RTRV IP PACKET FILTER *	RTRV-IP-FILTER
			C.DELETE IP PACKET FILTER *	DLT-IP-FILTER
		D. OSI LOWER LAYER ADMIN		

MENU LEVEL 1	MENU LEVEL 2	MENU LEVEL 3	MENU LEVEL 4	COMMAND
			A.EDIT LL LAN	ED-LLLAN
			B.RTRV LL LAN	RTRV-LLLAN
			C.RTRV LAN STATISTICS	RTRV-LAN-STATS
			D.CLEAR LAN STATISTICS	CLR-LAN-STATS
		E. OSI UPPER LAYER ADMIN		
			A.EDIT UL COMMON PARAMETERS	ED-ULCOMPMR
			B.RTRV UL COMMON PARAMETERS	RTRV-ULCOMPMR
			C.EDIT UL LAN	ED-ULLAN
			D.RTRV UL LAN	RTRV-ULLAN
		F. OSI TARP ADMIN		
			A.CREATE TARP ADJ TBL LAN	ENT-TARPADJ-LAN
			B.EDIT TARP ADJ TABLE LAN	ED-TARPADJ-LAN
			C.RTRV TARP ADJ TABLE LAN	RTRV-TARPADJ-LAN
			D.DELETE TARP ADJ TABLE LAN	DLT-TARPADJ-LAN
		H. FACILITY PARTITIONS		
		A. CREATE FACILITY PARTITION		ENT-PARTITN
		B. EDIT FACILITY PARTITIONS		
			A.EDIT T1 PARTITION	ED-PARTITN-T1
			B.EDIT F3 PARTITION	ED-PARTITN-F3
			C.EDIT T3 PARTITION	ED-PARTITN-T3
			D.EDIT VT1 PARTITION	ED-PARTITN-VT1
			E.EDIT STS1 PARTITION	ED-PARTITN-STS1
			F.EDIT EC1 PARTITION	ED-PARTITN-EC1
			G.EDIT STS3C PARTITION	ED-PARTITN-STS3C
			H.EDIT OC3 PARTITION	ED-PARTITN-OC3
			I.EDIT OC12 PARTITION	ED-PARTITN-OC12
		C. RTRV USER PARTITION		RTRV-PARTITN
		D. DELETE USER PARTITION		DLT-PARTITN
		I. SYSTEM WIDE DEFAULTS		
		A. SECURITY DEFAULTS		
			A.SET SECUR ATTR DEFAULT	SET-ATTR-SECUDFLT
			B.RTRV SECUR ATTR DEFAULT	RTRV-DFLT-SECU
		B. T1 DEFAULTS		
			A.SET T1 TERM PT DEFAULT	SET-DFLT-T1
			B.RTRV T1 TERM PT DEFAULT	RTRV-DFLT-T1
			C.SET T1 DEFAULT ATTRIBS	SET-DFLTATTR-T1
			D.RTRV T1 DEFAULT ATTRIBS	RTRV-DFLTATTR-T1
			E.SET T1 DEFAULT THRESH	SET-DFLTTH-T1

MENU LEVEL 1	MENU LEVEL 2	MENU LEVEL 3	MENU LEVEL 4	COMMAND
			F.RTRV T1 DEFAULT THRESH	RTRV-DFLTTH-T1
			G.SET T1 DEFAULT PM REPT	SET-DFLTPMREPT-T1
			H.RTRV T1 DEFAULT PM REPT	RTRV-DFLTPMREPT-T1
		C. F3 DEFAULTS		
			A.SET F3 DEFAULT ATTRIBS	SET-DFLTATTR-F3
			B.RTRV F3 DEFAULT ATTRIBS	RTRV-DFLTATTR-F3
			C.SET F3 DEFAULT PM REPT	SET-DFLTPMREPT-F3
			D.RTRV F3 DEFAULT PM REPT	RTRV-DFLTPMREPT-F3
		D. T3 DEFAULTS		
			A.SET T3 TERM PT DEFAULT	SET-DFLT-T3
			B.RTRV T3 TERM PT DEFAULT	RTRV-DFLT-T3
			C.SET T3 DEFAULT ATTRIBS	SET-DFLTATTR-T3
			D.RTRV T3 DEFAULT ATTRIBS	RTRV-DFLTATTR-T3
			E.SET T3 DEFAULT THRESH	SET-DFLTTH-T3
			F.RTRV T3 DEFAULT THRESH	RTRV-DFLTTH-T3
			G.SET T3 DEFAULT PM REPT	SET-DFLTPMREPT-T3
			H.RTRV T3 DEFAULT PM REPT	RTRV-DFLTPMREPT-T3
		E. VT1 DEFAULTS		
			A.SET VT1 TERM PT DEFAULT	SET-DFLT-VT1
			B.RTRV VT1 TERM PT DEFAULT	RTRV-DFLT-VT1
			C.SET VT1 DEFAULT ATTRIBS	SET-DFLTATTR-VT1
			D.RTRV VT1 DEFAULT ATTRIBS	RTRV-DFLTATTR-VT1
			E.SET VT1 DEFAULT THRESH	SET-DFLTTH-VT1
			F.RTRV VT1 DEFAULT THRESH	RTRV-DFLTTH-VT1
			G.SET VT1 DEFAULT PM REPT	SET-DFLTPMREPT-VT1
			H.RTRV VT1 DEFAULT PM REPT	RTRV-DFLTPMREPT-VT1
		F. STS1 DEFAULTS		
			A.SET STS1 TERM PT DEFAULT	SET-DFLT-STS1
			B.RTRV STS1 TERM PT DFLT	RTRV-DFLT-STS1
			C.SET STS1 DEFAULT ATTRIBS	SET-DFLTATTR-STS1
			D.RTRV STS1 DFLT ATTRIBS	RTRV-DFLTATTR-STS1
			E.SET STS1 DEFAULT THRESH	SET-DFLTTH-STS1
			F.RTRV STS1 DEFAULT THRESH	RTRV-DFLTTH-STS1
			G.SET STS1 DEFAULT PM REPT	SET-DFLTPMREPT-STS1
			H.RTRV STS1 DFLT PM REPT	RTRV-DFLTPMREPT-STS1
		G. EC1 DEFAULTS		
			A.SET EC1 TERM PT DEFAULT	SET-DFLT-EC1
			B.RTRV EC1 TERM PT DEFAULT	RTRV-DFLT-EC1

MENU LEVEL 1	MENU LEVEL 2	MENU LEVEL 3	MENU LEVEL 4	COMMAND
			C.SET EC1 DEFAULT ATTRIBS	SET-DFLTATTR-EC1
			D.RTRV EC1 DEFAULT ATTRIBS	RTRV-DFLTATTR-EC1
			E.SET EC1 DEFAULT THRESH	SET-DFLTTH-EC1
			F.RTRV EC1 DEFAULT THRESH	RTRV-DFLTTH-EC1
			G.SET EC1 DEFAULT PM REPT	SET-DFLTPMREPT-EC1
			H.RTRV EC1 DEFAULT PM REPT	RTRV-DFLTPMREPT-EC1
		H. STS3C DEFAULTS		
			A.SET STS3C TERM PT DEFAULT	SET-DFLT-STS3C
			B.RTRV STS3C TERM PT DEFAULT	RTRV-DFLT-STS3C
			C.SET STS3C DEFAULT ATTRIBS	SET-DFLTATTR-STS3C
			D.RTRV STS3C DEFAULT ATTRIBS	RTRV-DFLTATTR-STS3C
			E.SET STS3C DEFAULT THRESH	SET-DFLTTH-STS3C
			F.RTRV STS3C DEFAULT THRESH	RTRV-DFLTTH-STS3C
			G.SET STS3C DEFAULTTT PM REPT	SET-DFLTPMREPT-STS3C
			H.RTRV STS3C DEFAULT PM REPT	RTRV-DFLTPMREPT-STS3C
		I. OC3 DEFAULTS		
			A.SET OC3 TERM PT DEFAULT	SET-DFLT-OC3
			B.RTRV OC3 TERM PT DEFAULT	RTRV-DFLT-OC3
			C.SET OC3 DEFAULT ATTRIBS	SET-DFLTATTR-OC3
			D.RTRV OC3 DEFAULT ATTRIBS	RTRV-DFLTATTR-OC3
			E.SET OC3 DEFAULT THRESH	SET-DFLTTH-OC3
			F.RTRV OC3 DEFAULT THRESH	RTRV-DFLTTH-OC3
			G.SET OC3 DEFAULT PM REPT	SET-DFLTPMREPT-OC3
			H.RTRV OC3 DEFAULT PM REPT	RTRV-DFLTPMREPT-OC3
		J. OC12 DEFAULTS		
			A.SET OC12 TERM PT DEFAULT	SET-DFLT-OC12
			B.RTRV OC12 TERM PT DEFAULT	RTRV-DFLT-OC12
			C.SET OC12 DEFAULT ATTRIBS	SET-DFLTATTR-OC12
			D.RTRV OC12 DEFAULT ATTRIBS	RTRV-DFLTATTR-OC12
			E.SET OC12 DEFAULT THRESH	SET-DFLTTH-OC12
			F.RTRV OC12 DEFAULT THRESH	RTRV-DFLTTH-OC12
			G.SET OC12 DEFAULT PM REPT	SET-DFLTPMREPT-OC12
			H.RTRV OC12 DEFAULT PM REPT	RTRV-DFLTPMREPT-OC12
		J. SYSTEM INITIALIZATION		
		A. STOP NORMAL OPERATION		STOP-OPS
		B. INITIALIZE SYSTEM		INIT-SYS
		C. REPROGRAM EQUIPMENT EEPROM		RPGM-EQPT

MENU LEVEL 1	MENU LEVEL 2	MENU LEVEL 3	MENU LEVEL 4	COMMAND
		D.	RTRV SOFTWARE VERSION	RTRV-STWR-VSN
		E.	START GENERIC UPGRADE	STA-ISU
		F.	STOP GENERIC UPGRADE	STP-ISU
		G.	RTRV GENERIC UPGRADE STAT	RTRV-ISU-STATUS
		H.	INITIALIZE SYSTEM W/NEW GENERIC	INIT-SYS-NEW
		I.	INITIALIZE SYSTEM W/OLD GENERIC *	INIT-SYS-OLD
		J.	RMV OLD GENERIC	RMV-ISU-OLD
G. DELAYED ACTIVATION				
	A.	RTRV DELAYED COMMAND		RTRV-DA
	B.	ACTIVATE DELAYED COMMAND		ACT-DA
	C.	CANCEL DELAYED COMMAND		CANC-DA
H. REPORTS				
	A.	RTRV DIAGNOSTICS DATA		
		A.	RTRV EQUIPMENT DIAG STATUS	RTRV-DGN-STATUS
		B.	RTRV GTI CABLE STATUS	RTRV-GTI-STATUS
		C.	RTRV FAULT LOCATING DATA	
			A.RTRV EQUIPMENT FL DATA	RTRV-FL-EQPT
			B.RTRV T1 PATH FL DATA	FLTLOC-PATH-T1
			C.RTRV T3 PATH FL DATA	FLTLOC-PATH-T3
			D.RTRV VT1 PATH FL DATA	FLTLOC-PATH-VT1
			E.RTRV STS1 PATH FL DATA	FLTLOC-PATH-STS1
			F.RTRV STS3C PATH FL DATA	FLTLOC-PATH-STS3C
		D.	RTRV CONNECT ID MISMATCH	RTRV-XIDMISM
		E.	RTRV CONNECT PATHS	
			A.RTRV T1 CONNECT PATH	RTRV-PATH-T1
			B.RTRV T3 CONNECT PATH	RTRV-PATH-T3
			C.RTRV VT1 CONNECT PATH	RTRV-PATH-VT1
			D.RTRV STS1 CONNECT PATH	RTRV-PATH-STS1
			E.RTRV STS3C CONNECT PATH	RTRV-PATH-STS3C
		F.	VERIFY MATRIX COPY	VERFY-COPY
		G.	RTRV MATRIX EQPT TYPES	RTRV-MTX
		H.	RTRV EQPT PROCESS STATUS	RTRV-PROCSTAT-EQPT
		I.	RTRV BUS STATUS	RTRV-BUS-STATUS
		J.	RTRV ITM RESULT	RTRV-ITMRSLT
	B.	RTRV PATH TRACING DATA		
		A.	RTRV STS1 PATH TRACE	RTRV-PTHTRC-STS1
		B.	RTRV STS3C PATH TRACE	RTRV-PTHTRC-STS3C
	C.	RTRV ALARMS/PM DATA		

MENU LEVEL 1	MENU LEVEL 2	MENU LEVEL 3	MENU LEVEL 4	COMMAND
		A.	RTRV ALARMS	
			A.RTRV ANY (ALL) ALARMS	RTRV-ALM-ALL
			B.RTRV ALARM SUMMARY	RTRV-ALM-SUM
		B.	RTRV EQUIPMENT ALARMS	RTRV-ALM-EQPT
		C.	RTRV COMMON ALARMS	RTRV-ALM-COM
		D.	RTRV FACILITY ALARMS	
			A.RTRV T1 ALARMS	RTRV-ALM-T1
			B.RTRV F3 ALARMS	RTRV-ALM-F3
			C.RTRV T3 ALARMS	RTRV-ALM-T3
			D.RTRV VT1 ALARMS	RTRV-ALM-VT1
			E.RTRV STS1 ALARMS	RTRV-ALM-STS1
			F.RTRV EC1 ALARMS	RTRV-ALM-EC1
			G.RTRV STS3C ALARMS	RTRV-ALM-STS3C
			H.RTRV OC3 ALARMS	RTRV-ALM-OC3
			I.RTRV OC12 ALARMS	RTRV-ALM-OC12
		E.	RTRV ANY (ALL) CONDITIONS	RTRV-COND-ALL
		F.	RTRV EQUIPMENT CONDITIONS	RTRV-COND-EQPT
		G.	RTRV COMMON CONDITIONS	RTRV-COND-COM
		H.	RTRV FACILITY CONDITIONS	
			A.RTRV T1 CONDITIONS	RTRV-COND-T1
			B.RTRV F3 CONDITIONS	RTRV-COND-F3
			C.RTRV T3 CONDITIONS	RTRV-COND-T3
			D.RTRV VT1 CONDITIONS	RTRV-COND-VT1
			E.RTRV STS1 CONDITIONS	RTRV-COND-STS1
			F.RTRV EC1 CONDITIONS	RTRV-COND-EC1
			G.RTRV STS3C CONDITIONS	RTRV-COND-STS3C
			H.RTRV OC3 CONDITIONS	RTRV-COND-OC3
			I.RTRV OC12 CONDITIONS	RTRV-COND-OC12
		I.	RTRV FACILITY PM DATA	
			A.RTRV T1 PM DATA	RTRV-PM-T1
			B.RTRV F3 PM DATA	RTRV-PM-F3
			C.RTRV T3 PM DATA	RTRV-PM-T3
			D.RTRV VT1 PM DATA	RTRV-PM-VT1
			E.RTRV STS1 PM DATA	RTRV-PM-STS1
			F.RTRV EC1 PM DATA	RTRV-PM-EC1
			G.RTRV STS3C PM DATA	RTRV-PM-STS3C
			H.RTRV OC3 PM DATA	RTRV-PM-OC3
			I.RTRV OC12 PM DATA	RTRV-PM-OC12

MENU LEVEL 1	MENU LEVEL 2	MENU LEVEL 3	MENU LEVEL 4	COMMAND
		J.	RTRV FAR-END T1	
			A.RTRV FEDATA 54016 FDL	RTRV-FEDATA-T1
			B.RTRV IDLE SIGNAL ID	RTRV-ISID-T1
		D.	RTRV ALARMS/PM CONFIGS	
		A.	RTRV FACILITY ALARM ATTRIBUTES	
			A.RTRV T1 ALARM ATTRIBS	RTRV-ATTR-T1
			B.RTRV F3 ALARM ATTRIBS	RTRV-ATTR-F3
			C.RTRV T3 ALARM ATTRIBS	RTRV-ATTR-T3
			D.RTRV VT1 ALARM ATTRIBS	RTRV-ATTR-VT1
			E.RTRV STS1 ALARM ATTRIBS	RTRV-ATTR-STS1
			F.RTRV EC1 ALARM ATTRIBS	RTRV-ATTR-EC1
			G.RTRV STS3C ALARM ATTRIBS	RTRV-ATTR-STS3C
			H.RTRV OC3 ALARM ATTRIBS	RTRV-ATTR-OC3
			I.RTRV OC12 ALARM ATTRIBS	RTRV-ATTR-OC12
		B.	RTRV OTHER ATTRIBUTES	
			A.RTRV ALL ACO ATTRIBS	RTRV-ACO-ALL
			B.RTRV EQPT ALARM ATTRIBS	RTRV-ATTR-EQPT
			C.RTRV COM ALARM ATTRIBS	RTRV-ATTR-COM
		C.	RTRV SYSTEM ATTRIB DEFAULTS	
			A.RTRV T1 DEFAULT ATTRIBS	RTRV-DFLTATTR-T1
			B.RTRV F3 DEFAULT ATTRIBS	RTRV-DFLTATTR-F3
			C.RTRV T3 DEFAULT ATTRIBS	RTRV-DFLTATTR-T3
			D.RTRV VT1 DEFAULT ATTRIBS	RTRV-DFLTATTR-VT1
			E.RTRV STS1 DEFAULT ATTRIBS	RTRV-DFLTATTR-STS1
			F.RTRV EC1 DEFAULT ATTRIBS	RTRV-DFLTATTR-EC1
			G.RTRV STS3C DFLT ATTRIBS	RTRV-DFLTATTR-STS3C
			H.RTRV OC3 DEFAULT ATTRIBS	RTRV-DFLTATTR-OC3
			I.RTRV OC12 DEFAULT ATTRIBS	RTRV-DFLTATTR-OC12
		D.	RTRV PM THRESH SETTINGS	
			A.RTRV T1 THRESHOLD	RTRV-TH-T1
			B.RTRV T3 THRESHOLD	RTRV-TH-T3
			C.RTRV VT1 THRESHOLD	RTRV-TH-VT1
			D.RTRV STS1 THRESHOLD	RTRV-TH-STS1
			E.RTRV EC1 THRESHOLD	RTRV-TH-EC1
			F.RTRV STS3C THRESHOLD	RTRV-TH-STS3C
			G.RTRV OC3 THRESHOLD	RTRV-TH-OC3
			H.RTRV OC12 THRESHOLD	RTRV-TH-OC12
		E.	RTRV SYSTEM THRESH DFLTS	

MENU LEVEL 1	MENU LEVEL 2	MENU LEVEL 3	MENU LEVEL 4	COMMAND
			A.RTRV T1 DEFAULT THRESH	RTRV-DFLTTH-T1
			B.RTRV T3 DEFAULT THRESH	RTRV-DFLTTH-T3
			C.RTRV VT1 DEFAULT THRESH	RTRV-DFLTTH-VT1
			D.RTRV STS1 DEFAULT THRESH	RTRV-DFLTTH-STS1
			E.RTRV EC1 DEFAULT THRESH	RTRV-DFLTTH-EC1
			F.RTRV STS3C DEFAULT THRESH	RTRV-DFLTTH-STS3C
			G.RTRV OC3 DEFAULT THRESH	RTRV-DFLTTH-OC3
			H.RTRV OC12 DEFAULT THRESH	RTRV-DFLTTH-OC12
		F. RTRV PM REPORT DEFAULTS		
			A.RTRV T1 DEFAULT PM REPT	RTRV-DFLTPMREPT-T1
			B.RTRV F3 DEFAULT PM REPT	RTRV-DFLTPMREPT-F3
			C.RTRV T3 DEFAULT PM REPT	RTRV-DFLTPMREPT-T3
			D.RTRV VT1 DEFAULT PM REPT	RTRV-DFLTPMREPT-VT1
			E.RTRV STS1 DEFAULT PM REPT	RTRV-DFLTPMREPT-STS1
			F.RTRV EC1 DEFAULT PM REPT	RTRV-DFLTPMREPT-EC1
			G.RTRV STS3C DEFAULT PM RPT	RTRV-DFLTPMREPT-STS3C
			H.RTRV OC3 DEFAULT PM REPT	RTRV-DFLTPMREPT-OC3
			I.RTRV OC12 DEFAULT PM REPT	RTRV-DFLTPMREPT-OC12
		G. RTRV PM MODE SETTINGS		
			A.RTRV T1 PM MODE	RTRV-PMMODE-T1
			B.RTRV F3 PM MODE	RTRV-PMMODE-F3
			C.RTRV T3 PM MODE	RTRV-PMMODE-T3
			D.RTRV VT1 PM MODE	RTRV-PMMODE-VT1
			E.RTRV STS1 PM MODE	RTRV-PMMODE-STS1
			F.RTRV EC1 PM MODE	RTRV-PMMODE-EC1
			G.RTRV STS3C PM MODE	RTRV-PMMODE-STS3C
			H.RTRV OC3 PM MODE	RTRV-PMMODE-OC3
			I.RTRV OC12 PM MODE	RTRV-PMMODE-OC12
		H. RTRV PM REPORT SCHEDULES		
			A.RTRV T1 PM REPORT SCHED	RTRV-PMSCHED-T1
			B.RTRV F3 PM REPORT SCHED	RTRV-PMSCHED-F3
			C.RTRV T3 PM REPORT SCHED	RTRV-PMSCHED-T3
			D.RTRV VT1 PM REPORT SCHED	RTRV-PMSCHED-VT1
			E.RTRV STS1 PM REPORT SCHED	RTRV-PMSCHED-STS1
			F.RTRV EC1 PM REPORT SCHED	RTRV-PMSCHED-EC1
			G.RTRV STS3C PM REPORT SCHED	RTRV-PMSCHED-STS3C
			H.RTRV OC3 PM REPORT SCHED	RTRV-PMSCHED-OC3

MENU LEVEL 1	MENU LEVEL 2	MENU LEVEL 3	MENU LEVEL 4	COMMAND
			I.RTRV OC12 PM REPORT SCHED	RTRV-PMSCHED-OC12
			J.RTRV PM REPORT SCHEDULE	RTRV-PMSCHED-ALL
		I. RTRV TCA RESTRICTIONS		RTRV-PMATTR-ALL
		J. RTRV GOS THRESH SETTINGS		
			A.RTRV T1 GOS THRESHOLD	RTRV-GOS-T1
			B.RTRV T3 GOS THRESHOLD	RTRV-GOS-T3
			C.RTRV VT1 GOS THRESHOLD	RTRV-GOS-VT1
			D.RTRV STS1 GOS THRESHOLD	RTRV-GOS-STS1
			E.RTRV EC1 GOS THRESHOLD	RTRV-GOS-EC1
			F.RTRV STS3C GOS THRESHOLD	RTRV-GOS-STS3C
			G.RTRV OC3 GOS THRESHOLD	RTRV-GOS-OC3
			H.RTRV OC12 GOS THRESHOLD	RTRV-GOS-OC12
		E. RTRV FAC/EQPT CONFIGS		
		A. RTRV FACILITY PARAMETERS		
			A.RTRV T1 PARAMETER	RTRV-T1
			B.RTRV F3 PARAMETER	RTRV-F3
			C.RTRV T3 PARAMETER	RTRV-T3
			D.RTRV VT1 PARAMETER	RTRV-VT1
			E.RTRV STS1 PARAMETER	RTRV-STS1
			F.RTRV EC1 PARAMETER	RTRV-EC1
			G.RTRV STS3C PARAMETER	RTRV-STS3C
			H.RTRV OC3 PARAMETER	RTRV-OC3
			I.RTRV OC12 PARAMETER	RTRV-OC12
		B. RTRV PATH TRACING DATA		
			A.RTRV STS1 PATH TRACE	RTRV-PTHTRC-STS1
			B.RTRV STS3C PATH TRACE	RTRV-PTHTRC-STS3C
		C. RTRV OVERHEAD BYTES DATA		
			A.RTRV STS1 OVERHEAD BYTES	RTRV-OVRHD-STS1
			B.RTRV STS3C OVERHEAD BYTES	RTRV-OVRHD-STS3C
			C.RTRV OC3 OVERHEAD BYTES	RTRV-OVRHD-OC3
			D.RTRV OC12 OVERHEAD BYTES	RTRV-OVRHD-OC12
		D. RTRV FACILITY PRTN GROUP		
			A.RTRV VT1 PRTN GROUP	RTRV-FFP-VT1
			B.RTRV STS1 PRTN GROUP	RTRV-FFP-STS1
			C.RTRV OC3 PRTN GROUP	RTRV-FFP-OC3
			D.RTRV RNG OC3 PRTN GROUP	RTRV-RNG-OC3
			E.RTRV OC12 PRTN GROUP	RTRV-FFP-OC12
			F.RTRV RNG OC12 PRTN GROUP	RTRV-RNG-OC12

MENU LEVEL 1	MENU LEVEL 2	MENU LEVEL 3	MENU LEVEL 4	COMMAND
		E. RTRV FAULT PROP SETTINGS		
			A.RTRV T1 FAULT PROP	RTRV-FLTPRO-T1
			B.RTRV T3 FAULT PROP	RTRV-FLTPRO-T3
			C.RTRV VT1 FAULT PROP	RTRV-FLTPRO-VT1
			D.RTRV STS1 FAULT PROP	RTRV-FLTPRO-STS1
		F. RTRV FACILITY DEFAULTS		
			A.RTRV T1 DEFAULTS	RTRV-DFLT-T1
			B.RTRV T3 DEFAULTS	RTRV-DFLT-T3
			C.RTRV VT1 DEFAULTS	RTRV-DFLT-VT1
			D.RTRV STS1 DEFAULTS	RTRV-DFLT-STS1
			E.RTRV EC1 DEFAULTS	RTRV-DFLT-EC1
			F.RTRV STS3C DEFAULTS	RTRV-DFLT-STS3C
			G.RTRV OC3 DEFAULTS	RTRV-DFLT-OC3
			H.RTRV OC12 DEFAULTS	RTRV-DFLT-OC12
		G. RTRV EQUIPMENT CONFIGS		
			A.RTRV EQUIPMENT PARAMETER	RTRV-EQPT
			B.RTRV EQUIPMENT STATE	RTRV-STATE-EQPT
			C.RTRV MATRIX EQPT TYPES	RTRV-MTX
			D.RTRV ALT/ANS AID EQPT	RTRV-AAID-EQPT
		F. RTRV CROSS-CONNECTIONS		
		A. RTRV ALL TYPE CONNECTS		RTRV-CRS
		B. RTRV ALL CONNECTS		RTRV-CRS-ALL
		C. RTRV ALL ROLLS		RTRV-ROLL-ALL
		D. RTRV T1 CONNECTIONS		
			A.RTRV T1 X-CONNECT	RTRV-CRS-T1
			B.RTRV ROLLING T1	RTRV-ROLL-T1
			C.RTRV T1 LEGS (CONF)	RTRV-CONF-T1
			D.RTRV AVAILABLE TIME SLOTS	RTRV-POOL
			E.RTRV T1 CONNECT PATH	RTRV-PATH-T1
		E. RTRV T3 CONNECTIONS		
			A.RTRV T3 X-CONNECT	RTRV-CRS-T3
			B.RTRV T3 CONNECT PATH	RTRV-PATH-T3
		F. RTRV VT1 CONNECTIONS		
			A.RTRV VT1 X-CONNECT	RTRV-CRS-VT1
			B.RTRV ROLLING VT1	RTRV-ROLL-VT1
			C.RTRV VT1 LEGS (CONF)	RTRV-CONF-VT1
			D.RTRV AVAILABLE TIME SLOTS	RTRV-POOL
			E.RTRV VT1 CONNECT PATH	RTRV-PATH-VT1

MENU LEVEL 1	MENU LEVEL 2	MENU LEVEL 3	MENU LEVEL 4	COMMAND
		G. RTRV STS1 CONNECTIONS		
			A.RTRV STS1 X-CONNECT	RTRV-CRS-STS1
			B.RTRV STS1 CONNECT PATH	RTRV-PATH-STS1
			C.RTRV STS1 PATH TRACE	RTRV-PTHTRC-STS1
		H. RTRV STS3C CONNECTIONS		
			A.RTRV STS3C X-CONNECT	RTRV-CRS-STS3C
			B.RTRV STS3C CONNECT PATH	RTRV-PATH-STS3C
			C.RTRV STS3C PATH TRACE	RTRV-PTHTRC-STS3C
		I. RTRV CKTID AND REDLINE		
			A.RTRV CIRCUIT ID INFO	RTRV-CKTID
			B.RTRV ALL REDLINE INFO	RTRV-RDL-ALL
	G. RTRV TACC/LOOPBACK			
		A. RTRV TACC PORT CONFIGS		RTRV-TACC
		B. RTRV T1 LOOPBACKS		RTRV-LPBK-T1
		C. RTRV T3 LOOPBACKS		RTRV-LPBK-T3
		D. RTRV VT1 LOOPBACKS		RTRV-LPBK-VT1
		E. RTRV STS1 LOOPBACKS		RTRV-LPBK-STS1
		F. RTRV EC1 LOOPBACKS		RTRV-LPBK-EC1
		G. RTRV STS3C LOOPBACKS		RTRV-LPBK-STS3C
		H. RTRV OC3 LOOPBACKS		RTRV-LPBK-OC3
		I. RTRV OC12 LOOPBACKS		RTRV-LPBK-OC12
		J. RTRV ALL ISG LOOPBACKS		RTRV-ISGLP-ALL
	H. RTRV USER/CMD DATA			
		A. RTRV USER PRIVILEGES		RTRV-PRVG-USER
		B. RTRV FTP USER		RTRV-FTP-USER
		C. RTRV COMMAND SECURITY		RTRV-PRVG-CMD
		D. RTRV SECUR ATTR DEFAULT		RTRV-DFLT-SECU
		E. RTRV USER PARTITION		RTRV-PARTITN
		F. RTRV DELAYED COMMAND		RTRV-DA
		G. RTRV EVENT LOG FILE		RTRV-ELF
		H. RTRV MONITORED USI		RTRV-MON-CPORT
	I. RTRV SYS/SITE CONFIGS			
		A. RTRV DB MEDIA LABEL		RTRV-DB-LABEL
		B. RTRV NE PARAMETERS		RTRV-PRMTR-NE
		C. RTRV SECUR ATTR DEFAULT		RTRV-DFLT-SECU
		D. RTRV SOFTWARE VERSION		RTRV-STWR-VSN
		E. RTRV SYS/SITE SPECIFIC		
			A.RTRV SITE HEADER	RTRV-HDR

MENU LEVEL 1	MENU LEVEL 2	MENU LEVEL 3	MENU LEVEL 4	COMMAND
			B.RTRV NODE IDENTIFIER	RTRV-NODEID
			C.RTRV SITE PARAMETERS	RTRV-PRMTR-SITE
		F. RTRV GENERIC UPGRADE STAT		RTRV-ISU-STATUS
		G. RTRV PFO STATUS		RTRV-PFO
		J. RTRV USI/X.25/DCC/LAN		
		A. USI/X.25 DATA		
			A.RTRV USI DEVICE	RTRV-CID
			B.RTRV MONITORED USI	RTRV-MON-CPORT
			C.RTRV OS SITE ADDRESS	RTRV-OSADDR-SITE
		B. OSI MAN AREA/TARP DATA		
			A.RTRV MANUAL AREA ADDRESS	RTRV-MAADDR
			B.RTRV TARP ADJ TABLE DCC	RTRV-TARPADJ-DCC
			C.RTRV TARP ADJ TABLE LAN	RTRV-TARPADJ-LAN
			D.RTRV TARP LOOP DETN BFR	RTRV-TARPLDB
		C. OSI LOWER LAYERS		
			A.RTRV LL SECTION DCC	RTRV-LLSDCC
			B.RTRV LL LINE DCC	RTRV-LLLDCC
			C.RTRV DCC STATISTICS	RTRV-DCC-STATS
			D.RTRV LL LAN	RTRV-LLLAN
			E.RTRV LAN STATISTICS	RTRV-LAN-STATS
			F.CLEAR LAN STATISTICS	CLR-LAN-STATS
		D. OSI UPPER LAYERS		
			A.RTRV NTRWK SERV ACCESS PT	RTRV-NSAP
			B.RTRV UL COMMON PARAMETERS	RTRV-ULCOMPMR
			C.RTRV UL SECTION DCC	RTRV-ULSDCC
			D.RTRV UL LINE DCC	RTRV-ULLDCC
			E.RTRV UL LAN	RTRV-ULLAN
		E. TCP/IP PROV DATA		
			A.RTRV IP PARAMETERS	RTRV-IP-PRMTR
			B.RTRV RIP PARAMETERS	RTRV-RIP-PRMTR
			C.RTRV IP STATIC ROUTER	RTRV-IP-STATICRT
			D.RTRV IP PACKET FILTER	RTRV-IP-FILTER
		I. ALARMS/EVENT CONTROL		
		A. ACKNOWLEDGE ALARMS		
			A. OPERATE ALARM CUT OFF	OPR-ACO-ALL
			B. CLEAR LATCHED EQPT ALARM	CLR-ALM-EQPT
			C. FLUSH USI BUFFER	ED-CID-LCTN
		B. RTRV ALARMS		

MENU LEVEL 1	MENU LEVEL 2	MENU LEVEL 3	MENU LEVEL 4	COMMAND
		A. RTRV ANY (ALL) ALARMS		RTRV-ALM-ALL
		B. RTRV EQUIPMENT ALARMS		RTRV-ALM-EQPT
		C. RTRV COMMON ALARMS		RTRV-ALM-COM
		D. RTRV FACILITY ALARMS		
			A.RTRV T1 ALARMS	RTRV-ALM-T1
			B.RTRV F3 ALARMS	RTRV-ALM-F3
			C.RTRV T3 ALARMS	RTRV-ALM-T3
			D.RTRV VT1 ALARMS	RTRV-ALM-VT1
			E.RTRV STS1 ALARMS	RTRV-ALM-STS1
			F.RTRV EC1 ALARMS	RTRV-ALM-EC1
			G.RTRV STS3C ALARMS	RTRV-ALM-STS3C
			H.RTRV OC3 ALARMS	RTRV-ALM-OC3
			I.RTRV OC12 ALARMS	RTRV-ALM-OC12
		E. RTRV ALARM SUMMARY		RTRV-ALM-SUM
	C. RTRV CONDITIONS			
		A. RTRV ANY (ALL) CONDITIONS		RTRV-COND-ALL
		B. RTRV EQUIPMENT CONDITIONS		RTRV-COND-EQPT
		C. RTRV COMMON CONDITIONS		RTRV-COND-COM
		D. RTRV FACILITY CONDITIONS		
			A.RTRV T1 CONDITIONS	RTRV-COND-T1
			B.RTRV F3 CONDITIONS	RTRV-COND-F3
			C.RTRV T3 CONDITIONS	RTRV-COND-T3
			D.RTRV VT1 CONDITIONS	RTRV-COND-VT1
			E.RTRV STS1 CONDITIONS	RTRV-COND-STS1
			F.RTRV EC1 CONDITIONS	RTRV-COND-EC1
			G.RTRV STS3C CONDITIONS	RTRV-COND-STS3C
			H.RTRV OC3 CONDITIONS	RTRV-COND-OC3
			I.RTRV OC12 CONDITIONS	RTRV-COND-OC12
	D. RESTRICT TC ALERTS			
		A. SET TCA RESTRICTIONS		SET-PMATTR-ALL
		B. RTRV TCA RESTRICTIONS		RTRV-PMATTR-ALL
	E. SET ALL ACO ATTRIBUTES			SET-ACO-ALL
	F. RTRV ALL ACO ATTRIBUTES			RTRV-ACO-ALL
	G. SET ALARM ATTRIBUTES			
		A. SET EQPT ALARM ATTRIBS		SET-ATTR-EQPT
		B. SET COM ALARM ATTRIBS		SET-ATTR-COM
		C. SET FACILITY ALARM ATTRIBS		
			A.SET T1 ALARM ATTRIBS	SET-ATTR-T1

MENU LEVEL 1	MENU LEVEL 2	MENU LEVEL 3	MENU LEVEL 4	COMMAND
			B.SET F3 ALARM ATTRIBS	SET-ATTR-F3
			C.SET T3 ALARM ATTRIBS	SET-ATTR-T3
			D.SET VT1 ALARM ATTRIBS	SET-ATTR-VT1
			E.SET STS1 ALARM ATTRIBS	SET-ATTR-STS1
			F.SET EC1 ALARM ATTRIBS	SET-ATTR-EC1
			G.SET STS3C ALARM ATTRIBS	SET-ATTR-STS3C
			H.SET OC3 ALARM ATTRIBS	SET-ATTR-OC3
			I.SET OC12 ALARM ATTRIBS	SET-ATTR-OC12
		H. RTRV ALARM ATTRIBUTES		
		A. RTRV EQPT ALARM ATTRIBS		RTRV-ATTR-EQPT
		B. RTRV COM ALARM ATTRIBS		RTRV-ATTR-COM
		C. RTRV FACILITY ALARM ATTRIBS		
		A.RTRV T1 ALARM ATTRIBS		RTRV-ATTR-T1
		B.RTRV F3 ALARM ATTRIBS		RTRV-ATTR-F3
		C.RTRV T3 ALARM ATTRIBS		RTRV-ATTR-T3
		D.RTRV VT1 ALARM ATTRIBS		RTRV-ATTR-VT1
		E.RTRV STS1 ALARM ATTRIBS		RTRV-ATTR-STS1
		F.RTRV EC1 ALARM ATTRIBS		RTRV-ATTR-EC1
		G.RTRV STS3C ALARM ATTRIBS		RTRV-ATTR-STS3C
		H.RTRV OC3 ALARM ATTRIBS		RTRV-ATTR-OC3
		I.RTRV OC12 ALARM ATTRIBS		RTRV-ATTR-OC12
		I. SET GOS THRESHOLDS		
		A. SET T1 GOS THRESHOLD		SET-GOS-T1
		B. SET T3 GOS THRESHOLD		SET-GOS-T3
		C. SET VT1 GOS THRESHOLD		SET-GOS-VT1
		D. SET STS1 GOS THRESHOLD		SET-GOS-STS1
		E. SET EC1 GOS THRESHOLD		SET-GOS-EC1
		F. SET STS3C GOS THRESHOLD		SET-GOS-STS3C
		G. SET OC3 GOS THRESHOLD		SET-GOS-OC3
		H. SET OC12 GOS THRESHOLD		SET-GOS-OC12
		J. RTRV GOS THRESHOLDS		
		A. RTRV T1 GOS THRESHOLD		RTRV-GOS-T1
		B. RTRV T3 GOS THRESHOLD		RTRV-GOS-T3
		C. RTRV VT1 GOS THRESHOLD		RTRV-GOS-VT1
		D. RTRV STS1 GOS THRESHOLD		RTRV-GOS-STS1
		E. RTRV EC1 GOS THRESHOLD		RTRV-GOS-EC1
		F. RTRV STS3C GOS THRESHOLD		RTRV-GOS-STS3C
		G. RTRV OC3 GOS THRESHOLD		RTRV-GOS-OC3

MENU LEVEL 1	MENU LEVEL 2	MENU LEVEL 3	MENU LEVEL 4
		H. RTRV OC12 GOS THRESHOLD	
J. LOGOUT (CANCEL USER)			

COMMAND
RTRV-GOS-OC12
CANC-USER

E.2.2. Limited Command Entry Mode Menu

The commands in this section work in both Limited Command Entry Mode and Normal Entry Mode. The lettered headings of commands used here are the same as those for the Normal Entry Mode—only commands in Section E.2.1.

MENU LEVEL 1	MENU LEVEL 2	MENU LEVEL 3	MENU LEVEL 4	COMMAND
C. SYSTEM MAINTENANCE				
	G. USI CONTROL			
		B. RTRV USI DEVICE		RTRV-CID
		E. REMOVE USI DEVICE		RMV-CID
		F. RESTORE USI DEVICE		RST-CID
F. SYSTEM ADMINISTRATION				
	A. DATABASE UTILITIES			
		C. RTRV DB MEDIA LABEL		RTRV-DB-LABEL
		E. RESTORE DATABASE		RST-DB
		F. START NORMAL OPERATIONS		START-OPS
	B. USER PROVISIONING			
		I. FTP USER PROVISIONING		
		C. RTRV FTP USER		RTRV-FTP-USER
	D. SITE PROVISIONING			
		C. EDIT SITE PARAMETERS		ED-PRMTR-SITE
		D. RTRV SITE PARAMETERS		RTRV-PRMTR-SITE
	E. USI & X.25 PROVISIONING			
		C. RTRV USI DEVICE		RTRV-CID
		E. REMOVE USI DEVICE		RMV-CID
		F. RESTORE USI DEVICE		RST-CID
		G. X.25 PROVISIONING		
		C. RTRV OS VIRTUAL CHANNEL		RTRV-CID
	G. LAN ADMINISTRATION			
		A. TC/IP NETWORK PROV		
		A. CREATE IP PARAMETERS		ENT-IP-PRMTR
		B. EDIT IP PARAMETERS		ED-IP-PRMTR
		C. RTRV IP PARAMETERS		RTRV-IP-PRMTR
		D. DELETE IP PARAMETERS		DLT-IP-PRMTR
		E. EDIT RIP PARAMETERS		ED-RIP-PRMTR
		F. RTRV RIP PARAMETERS		RTRV-RIP-PRMTR
		B. TCP/IP STATIC RING TABLE		
		A. CREATE IP STATIC ROUTER		ENT-IP-STATICRT
		B. EDIT IP STATIC ROUTER		ED-IP-STATICRT
		C. RTRV IP STATIC ROUTER		RTRV-IP-STATICRT

MENU LEVEL 1	MENU LEVEL 2	MENU LEVEL 3	MENU LEVEL 4	COMMAND
			D. DELETE IP STATIC ROUTER	DLT-IP-STATICRT
		C. TCP/IP FIREWALL SUPPORT		
			A.CREATE IP PACKET FILTER	ENT-IP-FILTER
			B. RTRV IP PACKET FILTER	RTRV-IP-FILTER
			C. DELETE IP PACKET FILTER	DLT-IP-FILTER
		J. SYSTEM INITIALIZATION		
		C. INITIALIZE SYSTEM W/OLD GENERIC		INIT-SYS-OLD
H. REPORTS				
	H. RTRV USR/CMD DATA			
		B. RTRV FTP USER		RTRV-FTP-USER
	I. RTRV SYS/SITE CONFIGS			
		A. RTRV DB MEDIA LABEL		RTRV-DB-LABEL
		E. RTRV SYS/SITE SPECIFIC		
		C. RTRV SITE PARAMETERS		RTRV-PRMTR-SITE
	J. RTRV USI/X.25/DCC/LAN			
		A. USI/X.25 DATA		
			A. RTRV USI DEVICE	RTRV-CID
		E. TCP/IP FROV DATA		
			A. RTRV IP PARAMETERS	RTRV-IP-PRMTR
			B. RTRV RIP PARAMETERS	RTRV-RIP-PRMTR
			C. RTRV IP STATIC ROUTER	RTRV-IP-STATICRT
			D. RTRV IP PACKET FILTER	RTRV-IP-FILTER
J. LOGOUT (CANCEL USER)				CANC-USER

APPENDIX F. MONITORED PM PARAMETERS

This appendix provides a list of the facility performance monitoring parameters supported in the 1631 SX, along with the factory default threshold crossing alert level for each parameter.

The system collects facility performance monitoring (PM) data by continuously monitoring each provisioned facility and accumulating error counts in separate PM collection registers for both 15 minute and 1 day (midnight to midnight) accumulation intervals. Transient conditions of accumulated error counts exceeding the facility's provisioned threshold level (refer to SET-TH-{EC1, OC3, OC12, STS1, STS3C, T1, T3, VT1} commands) are reported via a corresponding REPT^EVT^{EC1, OC3, OC12, STS1, STS3C, T1, T3, VT1} autonomous response message.

The current or historical contents of each PM collection register can be retrieved with the RTRV-PM-{EC1, F3, OC3, OC12, STS1, STS3C, T1, T3, VT1} commands. The current interval collection register can be initialized with the INIT-REG-{EC1, F3, OC3, OC12, STS1, STS3C, T1, T3, VT1} commands.

Section F.1. lists the OC3/OC12 performance monitoring parameters.

Section F.2. lists the EC1 performance monitoring parameters.

Section F.3. lists the STS-1 performance monitoring parameters.

Section F.4. lists the STS-3C performance monitoring parameters.

Section F.5. lists the VT1.5 performance monitoring parameters.

Section F.6. lists the DS3 performance monitoring parameters.

Section F.7. lists the DS1 performance monitoring parameters.

Section F.8. lists the F3 (Fractional DS3) performance monitoring parameters.

F.1. OC3/OC12 Performance Monitoring Parameters

Tables F.1 through F.3 show OC3/OC12 performance monitoring parameters, the parameter's maximum value and maximum threshold level, and the parameter's factory default threshold setting.

Table F.1 OC3/OC12 Near-End Section PM Parameters					
MONTYPE Parameter	Definition	Threshold Level			
		15-Minute Register		1-Day Register	
		Maximum	Factory Default	Maximum	Factory Default
CV-S, CVS	Coding Violations	4294967295	4666	4294967295	44790
ES-S, ESS	Errored Seconds	900	9	65535	86
ESA-S, ESAS	Errored Seconds, Type A	900	9	65535	86
ESB-S, ESBS	Errored Seconds, Type B	900	9	65535	86
LOSS, LOSS-S	Loss of Signal Seconds	900	9	65535	86
SEFS, SEFS-S	Severely Errored Seconds	900	9	65535	86
SES-S, SESS	Severely Errored Seconds	900	9	65535	86

Table F.2 OC3/OC12 Near-End Line PM Parameters					
MONTYPE Parameter	Definition	Threshold Level			
		15-Minute Register		1-Day Register	
		Maximum	Factory Default	Maximum	Factory Default
AISS, AISS-L, AISSL	Alarm Indication Signal (AIS) Seconds	900	9	65535	86
CV-L, CVL	Coding Violations	4294967295	4666	4294967295	44790
ES-L, ESL	Errored Seconds	900	9	65535	86
ESA-L, ESAL	Errored Seconds, Type A	900	9	65535	86
ESB-L, ESBL	Errored Seconds, Type B	900	9	65535	86
FC-L, FCL	Failure Counts	150	5	14400	14
PSC-L, PSC, PSCL	Protection Switch Counts	900	9	65535	86
PSD-L, PSD, PSDL	Protection Switch Duration	900	300	65535	18000
SES-L, SESL	Severely Errored Seconds	900	9	65535	86
UAS-L, UASL	Unavailable Seconds	900	9	65535	86

Table F.3 OC3/OC12 Far-End Line PM Parameters					
MONTYPE Parameter	Definition	Threshold Level			
		15-Minute Register		1-Day Register	
		Maximum	Factory Default	Maximum	Factory Default
AISS, AISS-L, AISSL	Alarm Indication Signal (AIS) Seconds	900	9	65535	86
CV-L, CVL	Coding Violations	4294967295	4666	4294967295	44790
ES-L, ESL	Errored Seconds	900	9	65535	86
ESA-L, ESAL	Errored Seconds, Type A	900	9	65535	86
ESB-L, ESBL	Errored Seconds, Type B	900	9	65535	86
FC-L, FCL	Failure Counts	150	5	14400	14
SES-L, SESL	Severely Errored Seconds	900	9	65535	86
UAS-L, UASL	Unavailable Seconds	900	9	65535	86

F.2. EC1 Performance Monitoring Parameters

Tables F.4 through F.6 show EC1 performance monitoring parameters, the parameter's maximum value and maximum threshold level, and the parameter's factory default threshold setting.

Table F.4 EC1 Near-End Section PM Parameters					
MONTYPE Parameter	Definition	Threshold Level			
		15-Minute Register		1-Day Register	
		Maximum	Factory Default	Maximum	Factory Default
LOSS, LOSS-S	Loss of Signal Seconds	900	9	65535	86
SEFS, SEFS-S	Severely Errored Seconds	900	9	65535	86

Table F.5 EC1 Near-End Line PM Parameters					
MONTYPE Parameter	Definition	Threshold Level			
		15-Minute Register		1-Day Register	
		Maximum	Factory Default	Maximum	Factory Default
CV-L, CVL	Coding Violations	4294967295	4666	4294967295	44790
ES-L, ESL	Errored Seconds	900	9	65535	86
ESA-L, ESAL	Errored Seconds, Type A	900	9	65535	86
ESB-L, ESBL	Errored Seconds, Type B	900	9	65535	86
SES-L, SESL	Severely Errored Seconds	900	9	65535	86
UAS-L, UASL	Unavailable Seconds	900	9	65535	86

Table F.6 EC1 Far-End Line PM Parameters					
MONTYPE Parameter	Definition	Threshold Level			
		15-Minute Register		1-Day Register	
		Maximum	Factory Default	Maximum	Factory Default
AISS, AISS-L, AISSL	Alarm Indication Signal (AIS) Seconds	900	9	65535	86
ES-L, ESL	Errored Seconds	900	9	65535	86
FC-L, FCL	Failure Counts	150	5	14400	14
SES-L, SESL	Severely Errored Seconds	900	9	65535	86
UAS-L, UASL	Unavailable Seconds	900	9	65535	86

F.3. STS–1 Performance Monitoring Parameters

Tables F.7 through F.8 show STS–1 performance monitoring parameters, the parameter's maximum value and maximum threshold level, and the parameter's factory default threshold setting.

Table F.7 STS–1 Near–End Path PM Parameters					
MONTYPE Parameter	Definition	Threshold Level			
		15–Minute Register		1–Day Register	
		Maximum	Factory Default	Maximum	Factory Default
ALS–P, ALSP	Alarm Indication Signal (AIS) or Loss of Pointer Seconds	900	9	65535	86
CV–P, CVP	Coding Violations	4294967295	4666	4294967295	44790
ES–P, ESP	Errored Seconds	900	9	65535	86
ESA–P, ESAP	Errored Seconds, Type A	900	9	65535	86
ESB–P, ESBP	Errored Seconds, Type B	900	9	65535	86
FC–P, FCP	Failure Counts	150	5	14400	14
SES–P, SESP	Severely Errored Seconds	900	9	65535	86
UAS–P, UASP	Unavailable Seconds	900	9	65535	86

Table F.8 STS–1 Far–End Path PM Parameters					
MONTYPE Parameter	Definition	Threshold Level			
		15–Minute Register		1–Day Register	
		Maximum	Factory Default	Maximum	Factory Default
ALS–P, ALSP	Alarm Indication Signal (AIS) or Loss of Pointer Seconds	900	9	65535	86
CV–P, CVP	Coding Violations	4294967295	4666	4294967295	44790
ES–P, ESP	Errored Seconds	900	9	65535	86
ESA–P, ESAP	Errored Seconds, Type A	900	9	65535	86
ESB–P, ESBP	Errored Seconds, Type B	900	9	65535	86
FC–P, FCP	Failure Counts	150	5	14400	14
SES–P, SESP	Severely Errored Seconds	900	9	65535	86
UAS–P, UASP	Unavailable Seconds	900	9	65535	86

F.4. STS-3C Performance Monitoring Parameters

Tables F.9. through F.10. show STS-3C performance monitoring parameters, the parameter's maximum value and maximum threshold level, and the parameter's factory default threshold setting.

Table F.9. STS-3C Near-End Path PM Parameters					
MONTYPE Parameter	Definition	Threshold Level			
		15-Minute Register		1-Day Register	
		Maximum	Factory Default	Maximum	Factory Default
ALS-P, ALSP	Alarm Indication Signal (AIS) or Loss of Pointer Seconds	900	9	65535	86
CV-P, CVP	Coding Violations	4294967295	4666	4294967295	44790
ES-P, ESP	Errored Seconds	900	9	65535	86
ESA-P, ESAP	Errored Seconds, Type A	900	9	65535	86
ESB-P, ESBP	Errored Seconds, Type B	900	9	65535	86
FC-P, FCP	Failure Counts	150	5	14400	14
SES-P, SESP	Severely Errored Seconds	900	9	65535	86
UAS-P, UASP	Unavailable Seconds	900	9	65535	86

Table F.10. STS-3C Far-End Path PM Parameters					
MONTYPE Parameter	Definition	Threshold Level			
		15-Minute Register		1-Day Register	
		Maximum	Factory Default	Maximum	Factory Default
ALS-P, ALSP	Alarm Indication Signal (AIS) or Loss of Pointer Seconds	900	9	65535	86
CV-P, CVP	Coding Violations	4294967295	4666	4294967295	44790
ES-P, ESP	Errored Seconds	900	9	65535	86
ESA-P, ESAP	Errored Seconds, Type A	900	9	65535	86
ESB-P, ESBP	Errored Seconds, Type B	900	9	65535	86
FC-P, FCP	Failure Counts	150	5	14400	14
SES-P, SESP	Severely Errored Seconds	900	9	65535	86
UAS-P, UASP	Unavailable Seconds	900	9	65535	86

F.5. VT1.5 Performance Monitoring Parameters

Tables F.11. through F.12. show VT1.5 performance monitoring parameters, the parameter's maximum value and maximum threshold level, and the parameter's factory default threshold setting.

Table F.11. VT1.5 Near-End Path PM Parameters					
MONTYPE Parameter	Definition	Threshold Level			
		15-Minute Register		1-Day Register	
		Maximum	Factory Default	Maximum	Factory Default
ALS-V, ALSV	Alarm Indication Signal (AIS) or Loss of Pointer Seconds	900	9	65535	86
CV-V, CVV	Coding Violations	4294967295	4666	4294967295	44790
ES-V, ESV	Errored Seconds	900	9	65535	86
ESA-V, ESAV	Errored Seconds, Type A	900	9	65535	86
ESB-V, ESBV	Errored Seconds, Type B	900	9	65535	86
FC-V, FCV	Failure Counts	150	5	14400	14
SES-V, SESV	Severely Errored Seconds	900	9	65535	86
UAS-V, UASV	Unavailable Seconds	900	9	65535	86

Table F.12 VT1.5 Far-End Path PM Parameters					
MONTYPE Parameter	Definition	Threshold Level			
		15-Minute Register		1-Day Register	
		Maximum	Factory Default	Maximum	Factory Default
ALS-V, ALSV	Alarm Indication Signal (AIS) or Loss of Pointer Seconds	900	9	65535	86
CV-V, CVV	Coding Violations	4294967295	4666	4294967295	44790
ES-V, ESV	Errored Seconds	900	9	65535	86
ESA-V, ESAV	Errored Seconds, Type A	900	9	65535	86
ESB-V, ESBV	Errored Seconds, Type B	900	9	65535	86
FC-V, FCV	Failure Counts	150	5	14400	14
SES-V, SESV	Severely Errored Seconds	900	9	65535	86
UAS-V, UASV	Unavailable Seconds	900	9	65535	86

F.6. DS3 Performance Monitoring Parameters

Tables F.13 through F.16 show DS3 performance monitoring parameters, the parameter's maximum value and maximum threshold level, and the parameter's factory default threshold setting.

Table F.13. DS3 Near-End Line PM Parameters					
MONTYPE Parameter	Definition	Threshold Level			
		15-Minute Register		1-Day Register	
		Maximum	Factory Default	Maximum	Factory Default
CV-L, CVL	Coding Violations	4294967295	13340	4294967295	133400
ES-L, ESL	Errored Seconds	900	65	65535	648
ESA-L, ESAL	Errored Seconds, Type A	900	10	65535	100
ESB-L, ESDL	Errored Seconds, Type B	900	10	65535	100
LOSS-L, LOSSL	Loss of Signal Seconds	900	10	65535	100
SES-L, SESL	Severely Errored Seconds	900	10	65535	100

Table F.14 DS3 Near-End M13 Path PM Parameters					
MONTYPE Parameter	Definition	Threshold Level			
		15-Minute Register		1-Day Register	
		Maximum	Factory Default	Maximum	Factory Default
AISS-P, AISSP	Alarm Indication Signal (AIS) Seconds	900	10	65535	100
CV-P, CVP	Coding Violations	4294967295	13340	4294967295	133400
ES-P, ESP	Errored Seconds	900	65	65535	648
ESA-P, ESAP	Errored Seconds, Type A	900	10	65535	100
ESB-P, ESBP	Errored Seconds, Type B	900	10	65535	100
FC-P, FCP	Failure Counts	150	10	14400	100
SAS-P, SASP	Severe AIS Seconds	900	10	65535	100
SES-P, SESP	Severely Errored Seconds	900	10	65535	100
UAS-P, UASP	Unavailable Seconds	900	10	65535	100

Table F.15. DS3 Near-End CP-Bit Path PM Parameters					
MONTYPE Parameter	Definition	Threshold Level			
		15-Minute Register		1-Day Register	
		Maximum	Factory Default	Maximum	Factory Default
CVCP-P, CVCPP	Coding Violations, C-bit parity	4294967295	13340	4294967295	133400
ESACP-P, ESACPP	Errored Seconds, Type A, C-bit parity	900	10	65535	100
ESBCP-P, ESBCPP	Errored Seconds, Type B, C-bit parity	900	10	65535	100
ESCP-P, ESCPP	Errored Seconds, C-bit parity	900	65	65535	648
SESCP-P, SESCPP	Severely Errored Seconds, C-bit parity	900	10	65535	100
UASCP-P, UASCPP	Unavailable Seconds, C-bit parity	900	10	65535	100

Table F.16. DS3 Far-End CP-Bit Path PM Parameters					
MONTYPE Parameter	Definition	Threshold Level			
		15-Minute Register		1-Day Register	
		Maximum	Factory Default	Maximum	Factory Default
CVCP-P, CVCPP	Coding Violations, C-bit parity	4294967295	13340	4294967295	133400
ESACP-P, ESACPP	Errored Seconds, Type A, C-bit parity	900	10	65535	100
ESBCP-P, ESBCPP	Errored Seconds, Type B, C-bit parity	900	10	65535	100
ESCP-P, ESCPP	Errored Seconds, C-bit parity	900	65	65535	648
FCCP-P, FCCPP	Failure Counts, C-bit parity	150	10	14400	100
SASCP-P, SASCPP	Severe AIS Seconds, C-bit parity	900	10	65535	100
SESCP-P, SESCPP	Severely Errored Seconds, C-bit parity	900	10	65535	100
UASCP-P, UASCPP	Unavailable Seconds, C-bit parity	900	10	65535	100

F.7. DS1 Performance Monitoring Parameters

Tables F.17 through F.19 show DS1 performance monitoring parameters, the parameter's maximum value and maximum threshold level, and the parameter's factory default threshold setting.

Table F.17 DS1 Near-End Line PM Parameters					
MONTYPE Parameter	Definition	Threshold Level			
		15-Minute Register		1-Day Register	
		Maximum	Factory Default	Maximum	Factory Default
CV-L, CVL	Coding Violations	4294967295	13340	4294967295	133400
ES-L	Errored Seconds	900	65	65535	648
LOSS-L, LOSSL	Loss of Signal Seconds	900	10	65535	100
SES-L, SESL	Severely Errored Seconds	900	10	65535	100

Table F.18 DS1 Near-End Path PM Parameters					
MONTYPE Parameter	Definition	Threshold Level			
		15-Minute Register		1-Day Register	
		Maximum	Factory Default	Maximum	Factory Default
AISS, AISS-P, AISSP	Alarm Indication Signal (AIS) Seconds	900	10	65535	100
CV-P, CVP	Coding Violations	4294967295	13340	4294967295	133400
ES-P, ESP	Errored Seconds	900	65	65535	648
ESA-P, ESAP	Errored Seconds, Type A	900	10	65535	100
ESB-P, ESBP	Errored Seconds, Type B	900	10	65535	100
ES-NP, ESNP	Errored Seconds	900	65	65535	648
FC-P, FCP	Failure Counts	150	10	14400	100
QRSSS-P, QRSSSP	QRSS Seconds	900	10	65535	100
SAS-P, SASP	Severe AIS Seconds	900	10	65535	100
SES-NP, SESNP	Severely Errored Seconds	900	10	65535	100
SES-P, SESP	Severely Errored Seconds	900	10	65535	100
UAS-NP, UASNP	Unavailable Seconds	900	10	65535	100
UAS-P, UASP	Unavailable Seconds	900	10	65535	100

Table F.19 DS1 Far-End Path PM Parameters					
MONTYPE Parameter	Definition	Threshold Level			
		15-Minute Register		1-Day Register	
		Maximum	Factory Default	Maximum	Factory Default
CSS, CSS-P, CSSP	Controlled Slip Seconds	900	10	65535	100
CV-P, CVP	Coding Violations	4294967295	13340	4294967295	133400
ES-P, ESP	Errored Seconds	900	65	65535	648
ESA-P, ESAP	Errored Seconds, Type A	900	10	65535	100
ESB-P, ESBP	Errored Seconds, Type B	900	10	65535	100
ES-NP, ESNP	Errored Seconds	900	65	65535	648
FC-P, FCP	Failure Counts	150	10	14400	100
SES-NP, SESNP	Severely Errored Seconds	900	10	65535	100
SES-P, SESP	Severely Errored Seconds	900	10	65535	100
SEFS-P, SEFSP	Severely Errored Frame Seconds	900	10	65535	100
UAS-NP, UASNP	Unavailable Seconds	900	10	65535	100
UAS-P, UASP	Unavailable Seconds	900	10	65535	100

F.8. F3 (Fractional DS3) Performance Monitoring Parameters

Table F.20 shows the F3 (Fractional DS3) performance monitoring parameters and the parameter's maximum value.

Table F.1. F3 (Fractional–T3) PM Parameters			
MONTYPE Parameter	Definition	Threshold Level	
		15–Minute Register	1–Day Register
		Maximum	Maximum
CV–N, CVN	Coding Violations	4294967295	4294967295
ES–N, ESN	Errored Seconds	900	65535
ESA–N, ESAN	Errored Seconds, Type A	900	65535
ESB–N, ESNB	Errored Seconds, Type B	900	65535
FC–N, FCN	Failure Counts	150	14400
SAS–N, SASN	Severe AIS Seconds	900	65535
SES–N, SESN	Severely Errored Seconds	900	65535
UAS–N, UASN	Unavailable Seconds	900	65535

Unlike all other monitored PM parameters, the calculations for Fractional-T3s (F3s) are not performed per an existing industry standard. Table F.21, below, provides a definition of the method of calculation for each of the Fractional-T3 PM parameters.

Table F.21 F3 PM Parameter Calculations		
MONTYPE Parameter	F3 PM Parameter Calculation Method	DS1 FMT
CV-N, CVN	Sum of CV-Ps for all (n) of the active DS1s in the F3.	SF/ESF
ES-N, ESN	One or more CV-N, or one or more SEF-P or AIS-P on any of the n DS1s in the F3.	SF/ESF
ESA-N, ESAN	Exactly one CV-N and no SEF-P or AIS-P on any of the n DS1s in the F3.	ESF
ESB-N, ESNB	$1 < CV-N < (0.3 * 333.33 * n)$ and $1 < CV-P < 320$ on any of the n DS1s and no $CV-P \geq 320$ on any of the n DS1s and no SEF-P or AIS-P on any of the n DS1s in the F3.	ESF
FC-N, FCN	Count of LOF-P or AIS-P failure events on any of the n DS1s when no failure conditions are currently declared (overlapping failures are not counted).	SF/ESF
SAS-N, SASN	One or more SEF-P or AIS-P on any one of the n DS1s in the F3.	SF/ESF
SES-N, SESN	CV-N $\geq (2/3 * X * n)$, or CV-P $\geq X$ on any of the n DS1s in the F3, or one or more SEF or AIS on any of the n DS1s in the F3, where $X = 8$ if both F_t and F_s bits measured or $X = 4$ if only F_t bits are measured.	SF
	CV-N $\geq (0.3 * 333 \frac{1}{3} * n)$, or CV-P ≥ 320 on any of the n DS1s in the F3, or one or more SEF or AIS on any of the n DS1s in the F3.	ESF
UAS-N, UASN	A second of unavailability begins at the onset of 10 contiguous SES-Ns and ends at the onset of 10 contiguous seconds with no SES-Ns.	SF/ESF
Note: The value of " n " in these calculations is based on the number of DS1s assigned to the F3 at the instant the calculation occurs.		

APPENDIX G. STATE TRANSITIONS

This appendix provides a definition of the Primary and Secondary States (PST and SST) used in the 1631 SX, and also provides state values and state transition diagrams associated with the system's equipment, OC12, OC3, EC1, STS1, STS3C, VT1.5, DS3, DS1, F3, or cross-connect entities. Refer to Section 2 for additional information on the commands referenced in this appendix.

G.1. State Names

The state of an entity represents the current condition of availability of the underlying resource or service in the system. The term "entity" represents the resource or service generally identified by the Access Identifier (AID) parameter. The system uses entity states to indicate the availability of an entity in providing its functions, and if an entity is not available, to indicate the cause of the unavailability and what kind of activity may be taken to make the entity available. An entity's state is described by two parameters, the Primary State (PST) and the Secondary State (SST).

The Primary State (PST) indicates the current overall service condition of an entity.

For an in-service equipment entity, the PST indicates whether the entity is totally or partially in-service (e.g., IS or IS-ANR). (Note. A PST of IS-ANR is only used with equipment entities.)

If an entity is out-of-service, the PST indicates whether the out-of-service condition is due to an external management command (from an OS or craft interface) or caused by the system because of an internal event (e.g., OOS-MA or OOS-AU).

When provisioning an entity and specifying a PST value in a command, the PST name is shortened to IS (In Service) or OOS (Out Of Service), but the full PST name (i.e., IS, IS-ANR, OOS-AU, OOS-AUMA, OOS-MA) is used when provided in output response messages.

The Secondary State (SST) provides additional information pertaining to the Primary State. Multiple Secondary State values may apply to an entity at a particular instant. If more than one SST value applies to an entity, the SST values are grouped with an ampersand (&) in the output response message (e.g., SGEO&FAF).

G.1.1. State Name Definitions

A definition of each of the Primary and Secondary States used in the system is provided below.

Primary States:

IS	In-Service: the entity is capable and allowed to provide its provisioned functions.
IS-ANR	In-Service-Abnormal: the (equipment) entity is available for providing only part (but not none) of its provisioned functions or is performing these functions at a degraded level.
OOS-AU	Out-Of-Service-Autonomous: the entity is not available for providing its provisioned functions but the entity is not intentionally suspended by external management command (from an OS or craft interface) from performing these functions. In general, the cause of the incapability is due to an unsolicited autonomous event detected in the system or in the associated network (e.g., DS3 LOS detected).
OOS-AUMA	Out-Of-Service-Autonomous and Management: the entity is not available for providing its provisioned functions because an OOS-AU state transition has occurred and the entity is intentionally suspended by external management command (from an OS or craft interface) from performing its provisioned functions.
OOS-MA	Out-Of-Service-Management: the entity is intentionally suspended by external management command (from an OS or craft interface) from performing its provisioned functions, but the entity may still be operationally capable of performing its provisioned functions.

Secondary States:

ACT	Active: the entity is currently in use and has spare operating capacity for further usage demand. When applied to a facility entity, this value means that the entity is cross-connected (the entity is a constituent leg of a cross-connect) and additional cross-connect capacity can be applied, e.g., a 1-way cross-connect, a 2-way cross-connect but not with a 1-way bridge, a 56-leg conference connection but not with a 1-way bridge.
AINS	Automatic In-Service: the entity is allowed to transition to the in-service state if it is operationally capable, e.g., a DS3 transitions from OOS-AU,AINS to IS when all DS3 alarm conditions have cleared.
ASI	Automatic Switch Inhibited: the redundant entity is inhibited from automatic switching to the associated redundant copy, i.e., automatic copy switching is inhibited. Refer to the INH-SW-EQPT command in Section 2.
BUSY	Busy: the entity is currently in use and has no spare operating capacity for further usage demand. When applied to a facility entity, this value means that the entity is cross-connected (the entity is a constituent leg of a cross-connect) and no additional capacity can be applied, e.g., a 2-Way cross-connect and a bridge connection or a Test Access port is connected to another entity for test access.
DSBLD	Disabled: the facility entity is prohibited from carrying traffic, e.g., the required supporting equipment is not provisioned.
FAF	Facility Failure: the associated facility entity has failed, e.g., a LOS, LOF, AIS, ISD, AICMIS, or 7LOF condition for DS3 entities; a AIS, LOF, or EOC condition for embedded DS1 entities.
LPBK	Loopback: loopback activity is currently being performed on the entity.
MEA	Mismatch of Equipment and Attributes: the entity is installed with improper equipment or circuit pack, or the correct equipment has improper attributes.
MT	Maintenance: the equipment entity or supporting equipment entity has been manually provisioned (by command from an OS or craft interface) for an in-service-growth maintenance activity. Refer to the OPR-ISGLP-T3 and OPR-ISGLP-T1 commands in Section 2.
PMI	Performance Monitoring Inhibited: the performance monitoring function performed by the entity has been temporarily suspended.
PRI	Protection Release Inhibited: the entity is inhibited from automatic release from protection (inhibited from automatic switching to working). Refer to INH-SWTOWKG in Section 2.
PSI	Protection Switching Inhibited: the protected (working) entity is inhibited from automatic switching to protection, i.e., it is locked out from automatic protection. Refer to the INH-SWTOPROTN and OPR-PROTNSW-OC12/OC3 commands in Section 2.
PWR	Power: the power supply entity is out of service because it has been turned off.
ROLL	Roll: the entity is currently under a roll operation. This state is a transitory state unless Manual rolling mode is being used.
SDEE	Supported Entity Exists: the entity is currently supporting other entities; deletion or state change of this entity will have impact on the service condition of the supported entities.
SGEO	Supporting Entity Outage: the associated supporting entity has failed or is out-of-service due to management action (OOS-MA or OOS-AUMA).
STBYC	Standby-Cold: the entity is to back-up another entity but is not synchronized with the backed-up entity. An entity with a cold standby status will not be immediately able to take over the role of the backed-up entity and will require some initialization activity.
STBYH	Standby-Hot: the entity is to back-up another entity and is synchronized with the backed-up entity. An entity with a hot standby status will be immediately able to take over the role of the backed-up entity without the need for initialization activity.
SWDL	Software Download: the software entity is currently being loaded with the necessary software or database data and code. This state is a transitory state only.
TERMB	Terminated-Both: when applied to a cross-connect entity, this value means that both the "From" channel and the "To" channel of the cross-connect have been terminated.

TERMF	Terminated-From: when applied to a cross-connect entity, this value means that the “From” channel of the cross-connect has been terminated.
TERMT	Terminated-To: when applied to a cross-connect entity, this value means that the “To” channel of the cross-connect has been terminated.
TRM	Terminated: the facility entity has been given termination parameters, i.e., a subordinate entity has a SST of ACT or BUSY.
TS	Test: a Test Access activity is currently being performed on or by the entity.
UAS	Unassigned: the entity has not been assigned with the necessary provisioning data. No service activity or maintenance activity (including monitoring, testing, or service recovery) is permitted in this state since the necessary data has not been assigned.
UEQ	Unequipped: the equipment entity has not been equipped with the necessary hardware, or the software entity has not been loaded with the necessary data or code.
WRK	Working: the redundant entity is currently providing service or carrying traffic.

G.2. State Transitions

A generic state model is provided in G.2.1. The generic state model is the basis for each of the equipment, OC12, OC3, EC1, STS1, STS3C, VT1.5, DS3, DS1, F3, and cross connect entity state models, although each entity state model is either a variation of the generic model or a subset of the generic model. However, the generic state model provides an introduction to the various entity state models and is provided for that purpose.

State model information for equipment, OC12, OC3, EC1, STS1, STS3C, VT1.5, DS3, DS1, F3, and cross connect entities in the system is provided in the subsequent subsections in this appendix.

For each type of entity, valid combinations and applicable state values are provided in a table using the following notation:

- Each row of the table represents a valid combination of PST, SST values. PST values are shown in the first column, SST values are shown in the second and third column. SST values in the second column indicate a possible cause for a transition to that PST state. SST values in the third column indicate possible additional state information that is provided if the SST applies to the entity.
- For each PST, SST combination, the PST values are always part of the entity's state, while the SST values are conditional, i.e., the SST value will be present only when it is applicable to the entity at that moment. The SST parameter may have zero or more values at any time.
- Conditional SST values are shown by using *square brackets*, (i.e., [...]). For simplicity, multiple independent conditional values are enclosed within a single square bracket. For example, [X, Y, Z] means that the values X, Y, and Z are independent and conditional, i.e., zero or more of them may be present.
- Mutually exclusive SST values are shown by using the *brace and pipe* (i.e., {...|...|...}). For example, {X | Y | Z} means that only one of the values X, Y, or Z will be present at any time.

For each type of entity, one or more state transition diagrams are provided following the state values table. Each state transition diagram shows the Primary State transitions for the entity, along with a description of the cause of the state transition.

Unless otherwise indicated in the state values table or state transition diagrams, any “possible additional” SST value (i.e., a SST value shown in the third column of the entity's state values table) that is applied to an entity will remain applied to the entity after a Primary State transition.

A simplified command format notation is used in the state diagrams to specify a command that causes a state transition. When execution of a command with a state value specified is shown in a state transition diagram, the command is shown without any of the preceding parameter blocks, parameters, or separating colons that may be necessary. For example: ENT-T3::AID:::IS,AINS is simply shown as ENT-T3:IS,AINS.

G.2.1. Generic State Model

The generic state model shown below is the basis for each of the equipment, OC12, OC3, EC1, STS1, STS3C, VT1.5, DS3, DS1, F3, and cross connect entity state transition models in the system. Although each entity state transition model has variations from the generic model, the generic model provides an introduction to entity state transitions in the system.

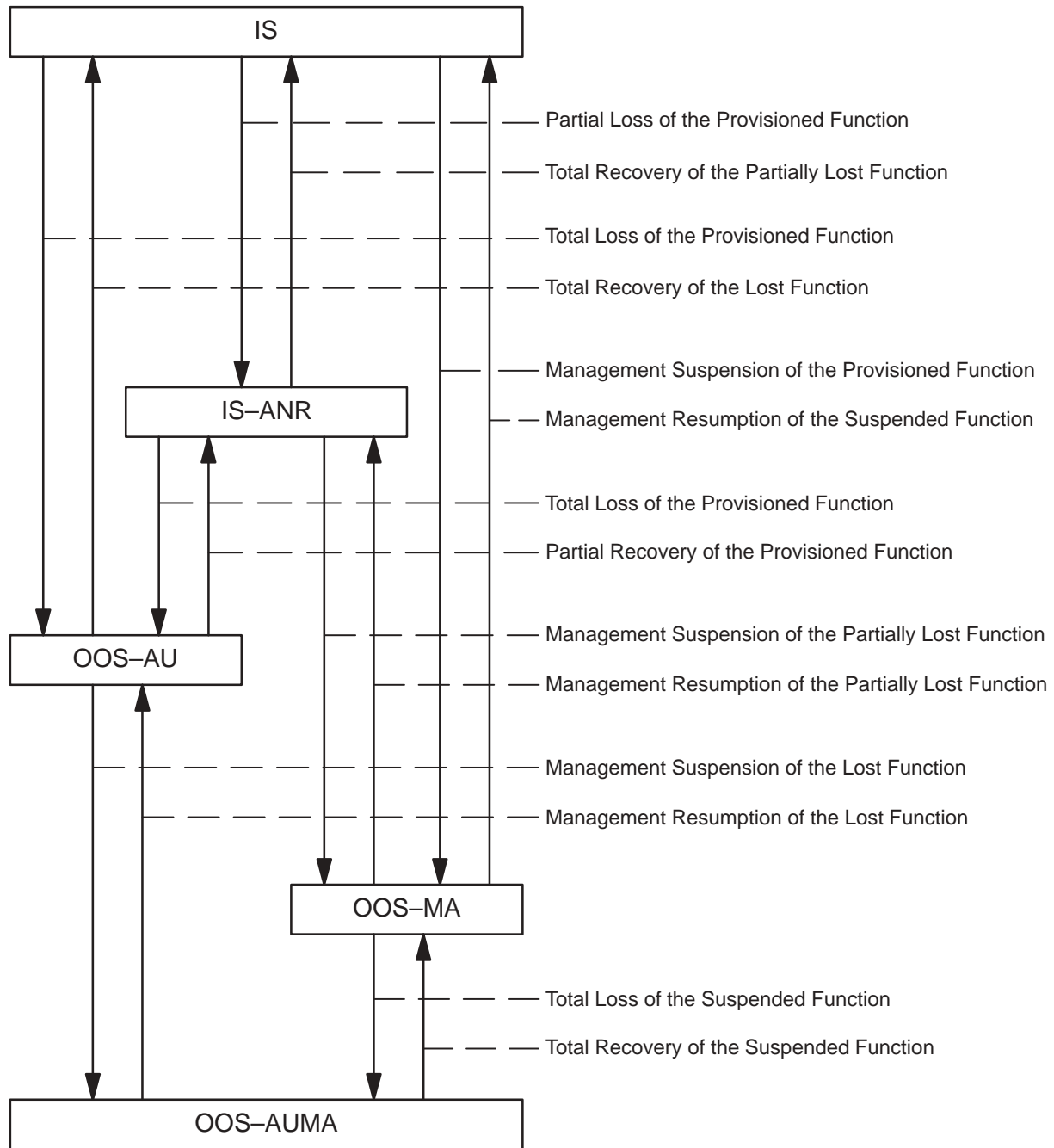


Figure G.1. Generic State Model

G.2.2. Equipment State Transitions

The valid PST,SST combinations and applicable state values for equipment entities is provided in Table G.1.

Table G.1. Equipment State Values		
PST Value	SST Values	
	Possible Cause of PST Change	Possible Additional SST Information
IS		{STBYC STBYH}, {ASI PRI PSI}, SDEE] ^{1, 3, 4, 9}
IS-ANR		{STBYH}, {ASI PRI PSI}, SDEE] ^{1, 4, 9}
OOS-AU	[UEQ] [UEQ&MEA] ⁶ [PWR] ⁷ [SWDL] ⁸	{ASI PRI PSI}, SDEE] ^{1, 4} {ASI PRI PSI}, SDEE] ^{1, 4} {ASI PRI PSI}, SDEE] ^{1, 4} {ASI PRI PSI}, SDEE] ^{1, 4}
OOS-AUMA	[UEQ] [UEQ&UAS] ⁵ [UEQ&MEA] ⁶ [UEQ&MT] ² [SWDL] ⁸	{ASI PRI PSI}, SDEE] ^{1, 4} {ASI PRI PSI}, SDEE] ^{1, 4} {ASI PRI PSI}, SDEE] ^{1, 4}
OOS-MA	[UAS] ⁵ [UAS&PWR] ⁷ [PWR] ⁷ [MT] ²	{ASI PRI PSI}, SDEE] ^{1, 4}
Notes: 1. {PRI, PSI, SDEE} only applies to a DSI,EP3,ES1,HMU,LMU,O1B,O4M,S3M circuit pack. 2. {MT} only applies to an DSI,EP3,ES1,HMU,LMU,M16,M32,O1B,O4M,S3M circuit pack. 3. {STBYC} only applies to a ACM,CIM,CPU,SIO,IPU, or SPB circuit pack. 4. {ASI} only applies to a CPU, IPU, or SPB circuit pack. 5. {UAS} does not apply to a MCB circuit pack. 6. {MEA} only applies to a CDA,CDB,DSI,EOB,EP3,ES1,HMU,IPB,LMU,M16,M32,M40,O1B,O4M,S3M,SPB,AXB,P39,P56, or RPB circuit pack. 7. {PWR} only applies to a PSF or PST circuit pack. 8. {SWDL} only applies to a ACM,CIM,EP3,ES1,IPU,M16,M32,M40,O1B,O4M,S3M,AXB, or SPB circuit pack. 9. {STBYH} only applies to a DSB,DSI,EP3,ES1,HMU,LMU,O1B,O4M,S3M circuit pack.		

Equipment entity state transition diagrams are provided in Figures G.2. through G.21. Each state transition diagram shows the Primary State transitions for the equipment entity, along with a description of the cause of the state transition.

A cross-reference of equipment types vs the corresponding state transition diagram is provided in Table G.2.

Table G.2. Cross-Reference of Equipment Types vs. State Diagrams					
Equipment Type	State Diagrams	Equipment Type	State Diagrams	Equipment Type	State Diagrams
ACL	Figure G.2.	ACM	Figure G.4.	CDA	Figure G.3.
CDB	Figure G.3.	CIM	Figure G.4.	CPU	Figure G.5.
DSB	Figure G.6.	DSI	Figure G.7.	DSK	Figure G.8.
EOB	Figure G.3.	EP3	Figure G.10.	ES1	Figure G.10.
ESA	Figure G.9.	HMU	Figure G.7.	ICM	Figure G.11.
IOB	Figure G.3.	IPB	Figure G.3.	IPU	Figure G.4.
LMU	Figure G.7.	LT1	Figure G.12.	LT2	Figure G.12.
LT4	Figure G.12.	LT5	Figure G.12.	LT8	Figure G.12.
M16	Figure G.13.	M32	Figure G.13.	M40	Figure G.13.
MCB	Figure G.14.	O1B/O4M/S3M	Figure G.10.	OPD	Figure G.15.
OXB	Figure G.3.	P39	Figure G.16.	P56	Figure G.16.
PDU	Figure G.12.	PRT	Figure G.9.	PSF	Figure G.17.
PST	Figure G.18.	QUAD	Figure G.21.	RDU	Figure G.12.
RPB	Figure G.3.	RSP	Figure G.19.	SBT	Figure G.20.
SHELF	Figure G.21.	SIO	Figure G.11.	SPB	Figure G.4.
SWI	Figure G.9.				

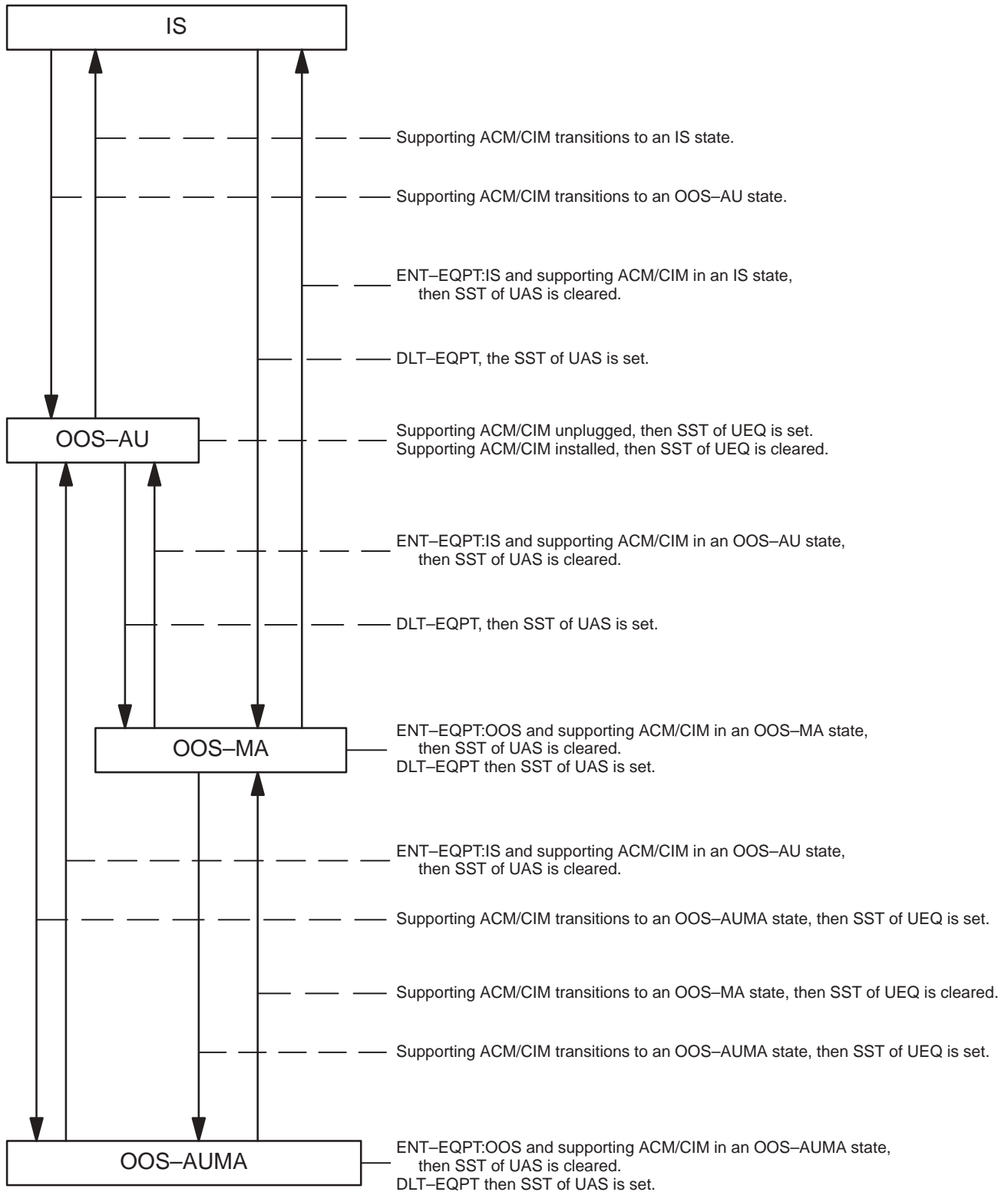
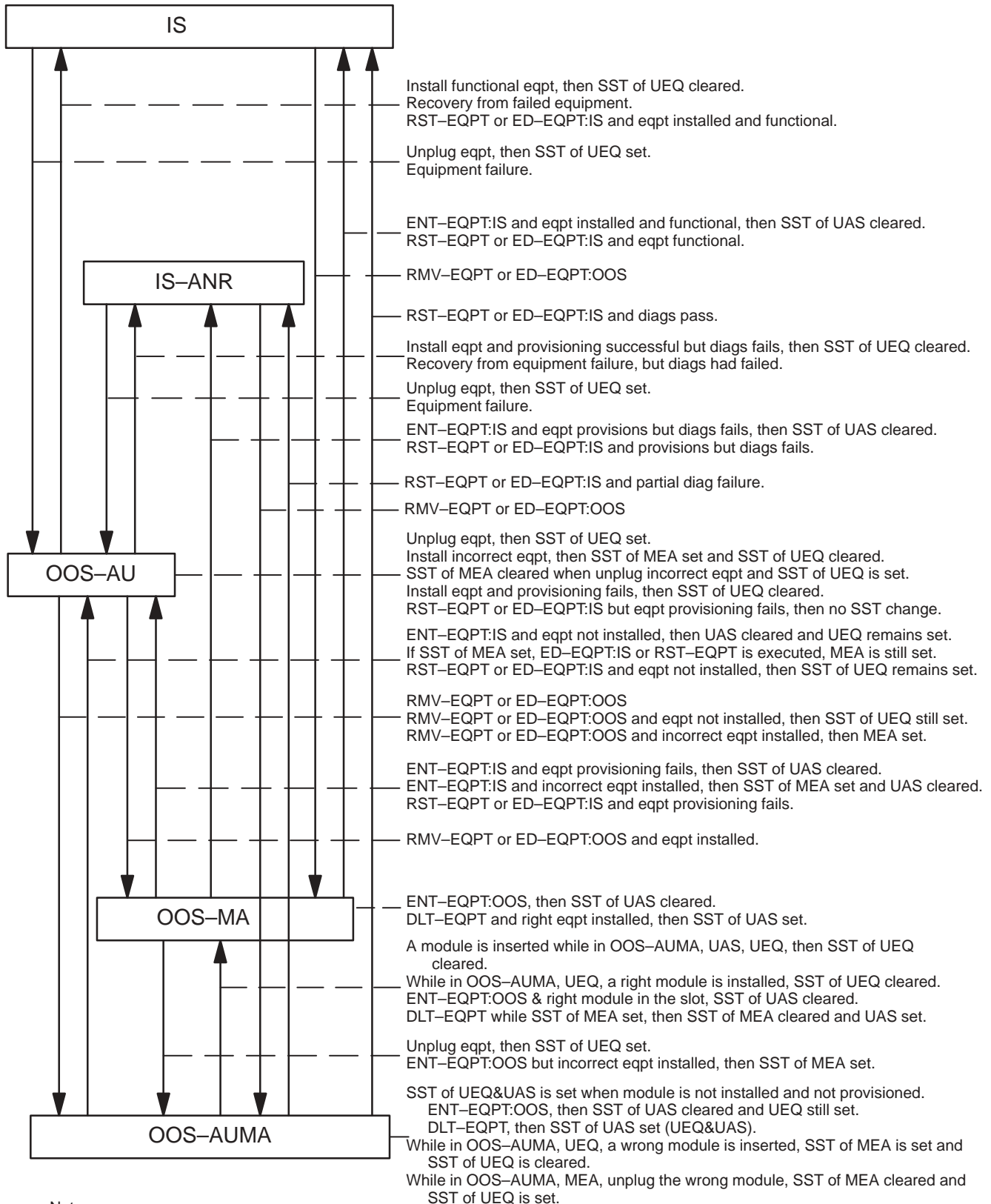


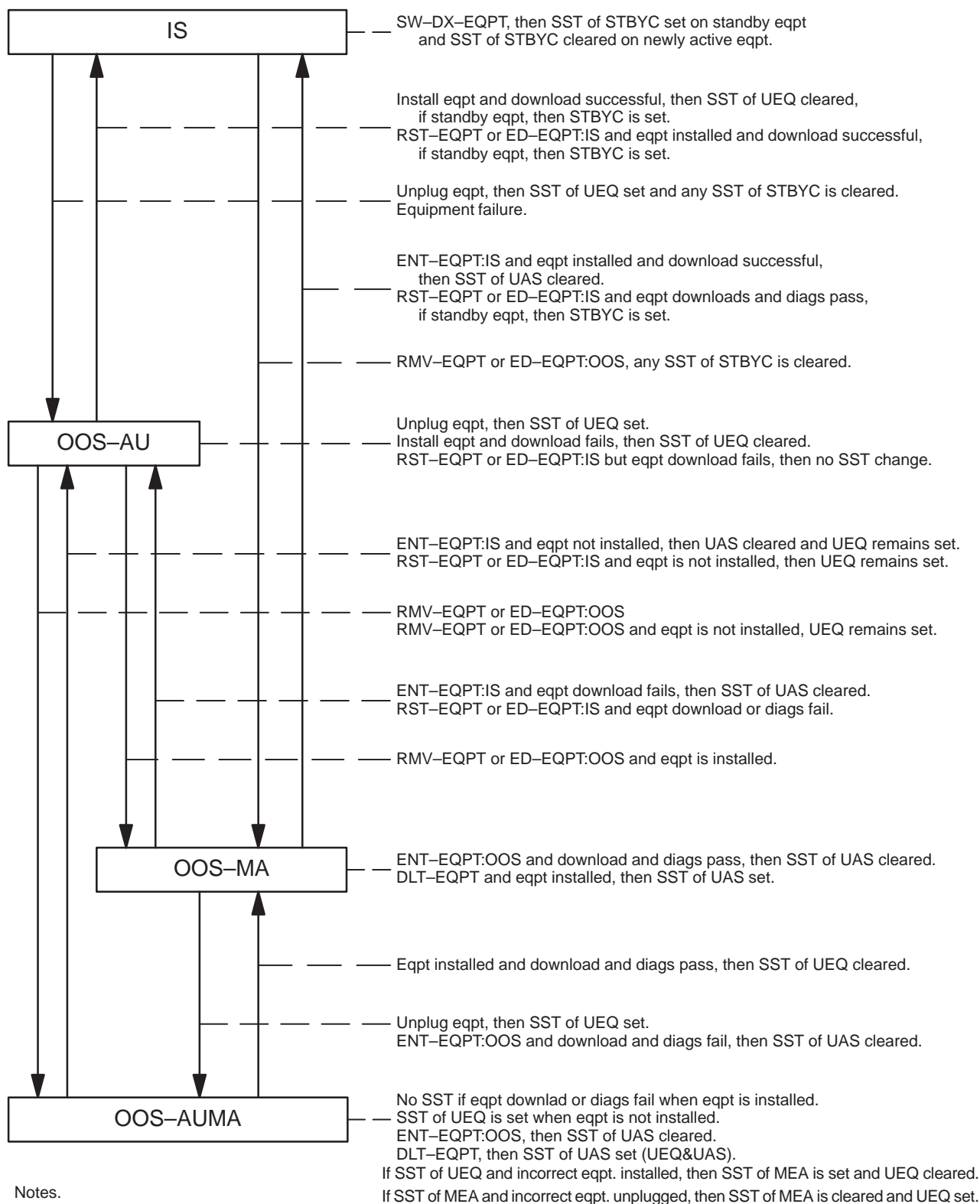
Figure G.2. ACL Equipment State Transitions



Notes.

1. The term "provisioning" refers to processor communication with the equipment and initializing hardware control registers.
2. For an OXB, a temporary transition to OOS-MA, SWDL or OOS-AUMA, SWDL occurs while a software download is in-process.

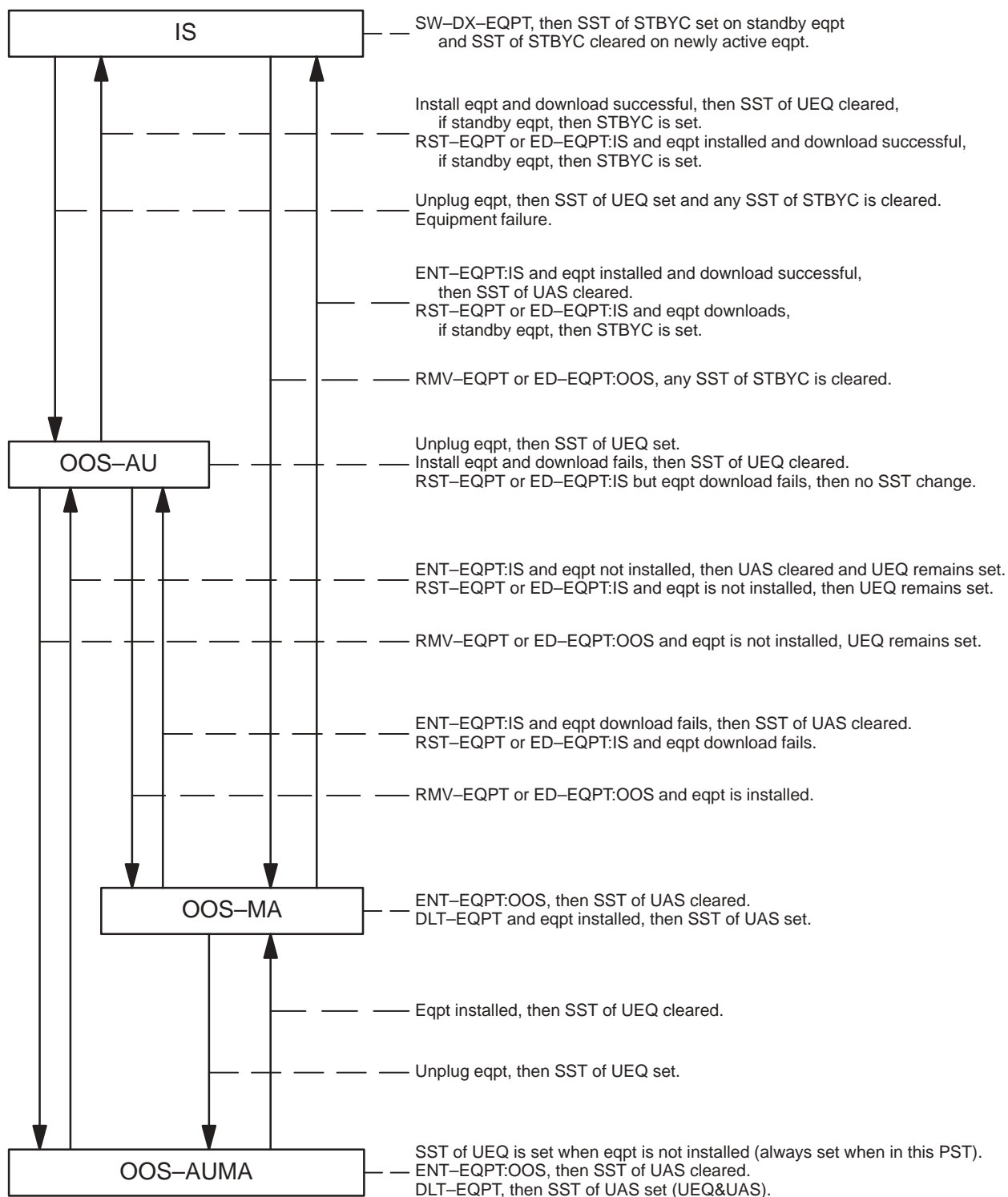
**Figure G.3. CDA, CDB, EOB, IOB, IPB, OXB, and RPB Equipment State
Transitions**



Notes.

- The following SST is applicable for any PST:
For an IPU or SPB, a SST of ASI is set if automatic copy switching is inhibited via INH-SW-EQPT, otherwise ASI is cleared.
- For a PST of IS: The standby ACM, CIM, IPU, or SPB has a SST of STBYC set, otherwise STBYC is cleared (the active ACM, CIM, IPU or SPB does not have a SST of STBYC).
- A temporary transition to OOS-MA, SWDL or OOS-AUMA, SWDL occurs while a software download is in-process.

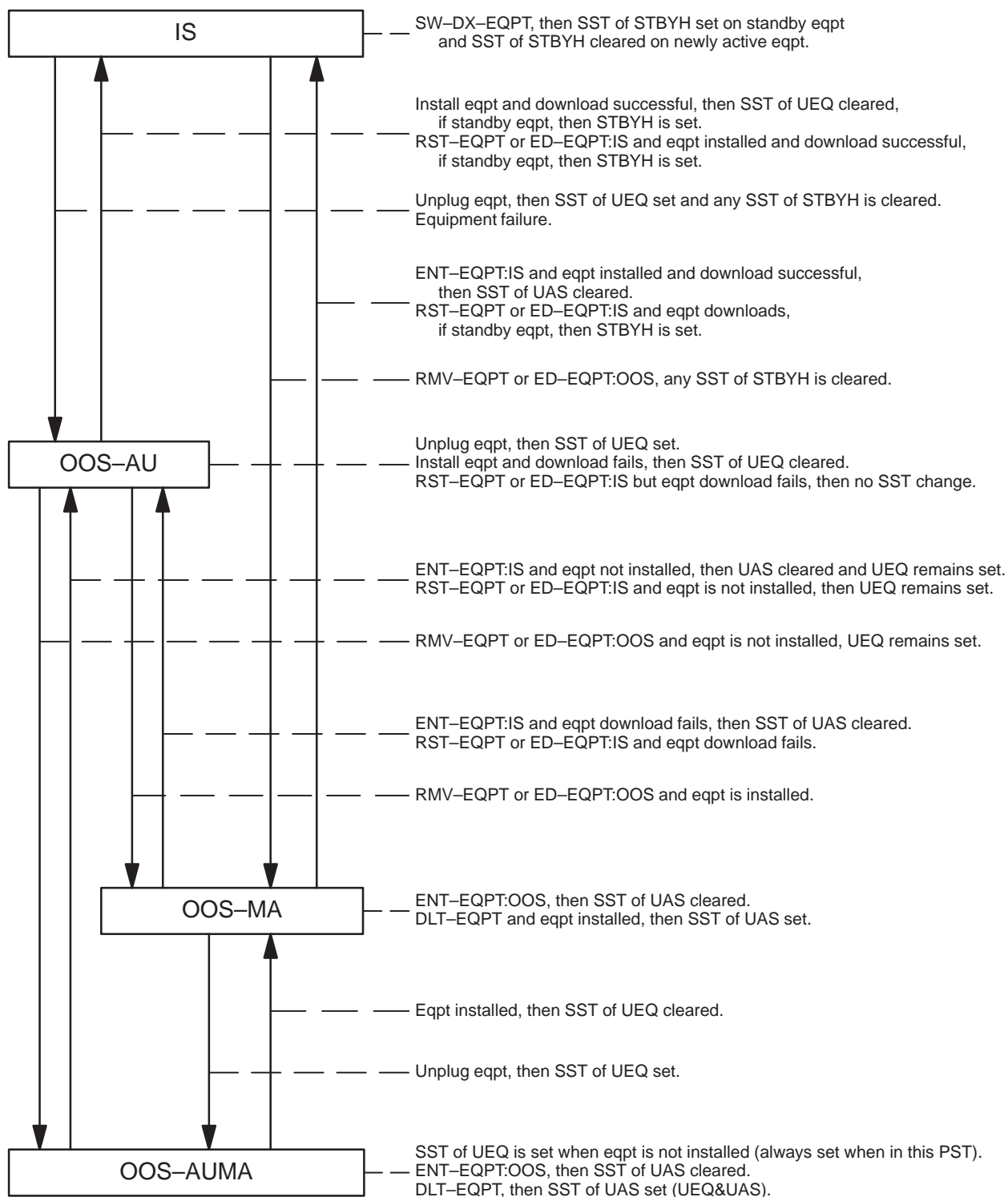
Figure G.4. ACM, CIM, IPU, and SPB Equipment State Transitions



Notes.

1. The following SST is applicable for any PST:
For a CPU, a SST of ASI is set if automatic copy switching is inhibited via INH-SW-EQPT, otherwise ASI is cleared.
2. For a PST of IS: The standby CPU has a SST of STBYC set, otherwise STBYC is cleared (the active CPU does not have a SST of STBYC).

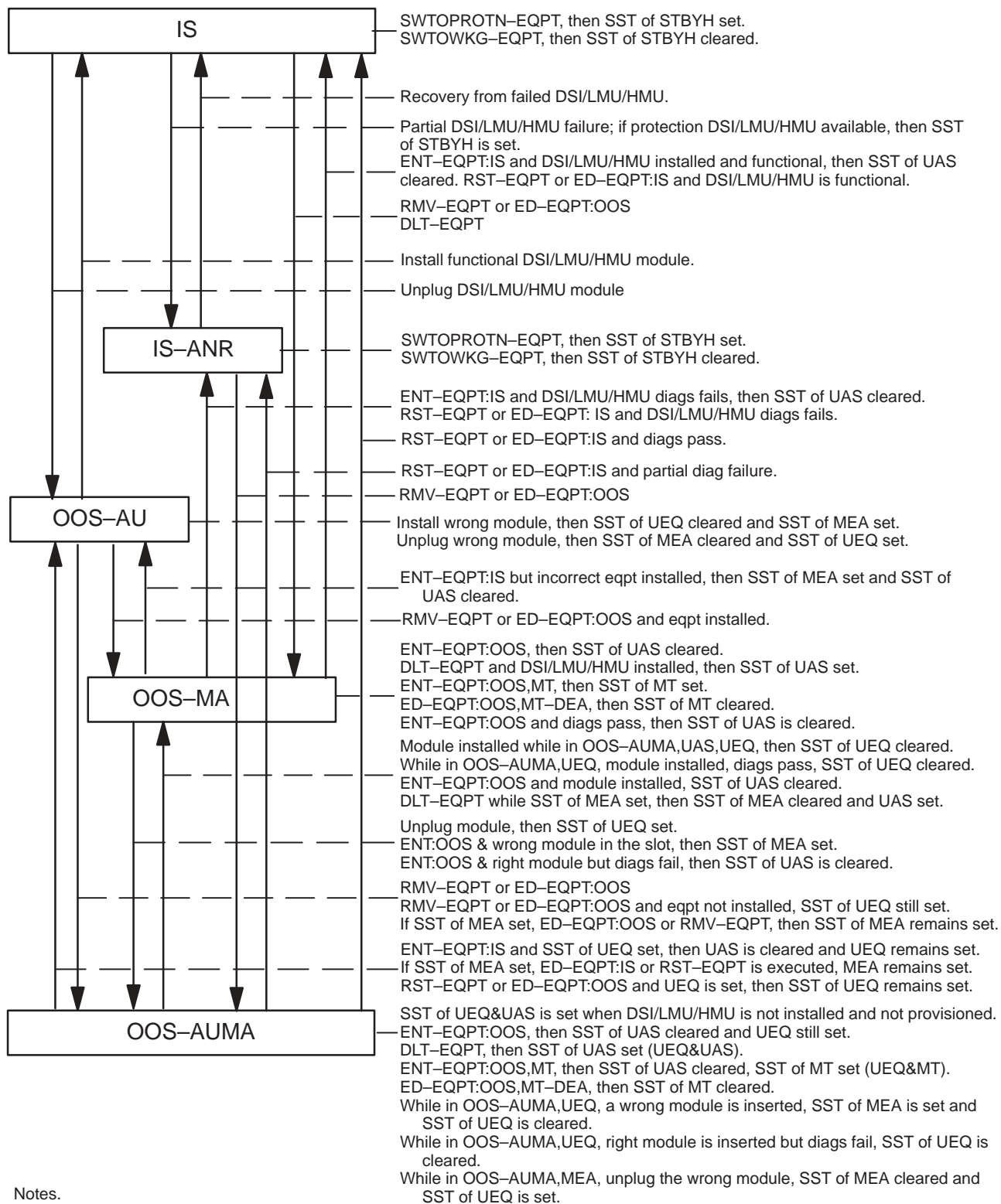
Figure G.5. CPU Equipment State Transitions



Notes.

1. The following SST is applicable for any PST:
For a DSB, a SST of ASI is not set since INH-SW-EQPT is not valid for the eqpt type.
2. For a PST of IS: The standby DSB has a SST of STBYH set, otherwise STBYH is cleared (the active DSB does not have a SST of STBYH).

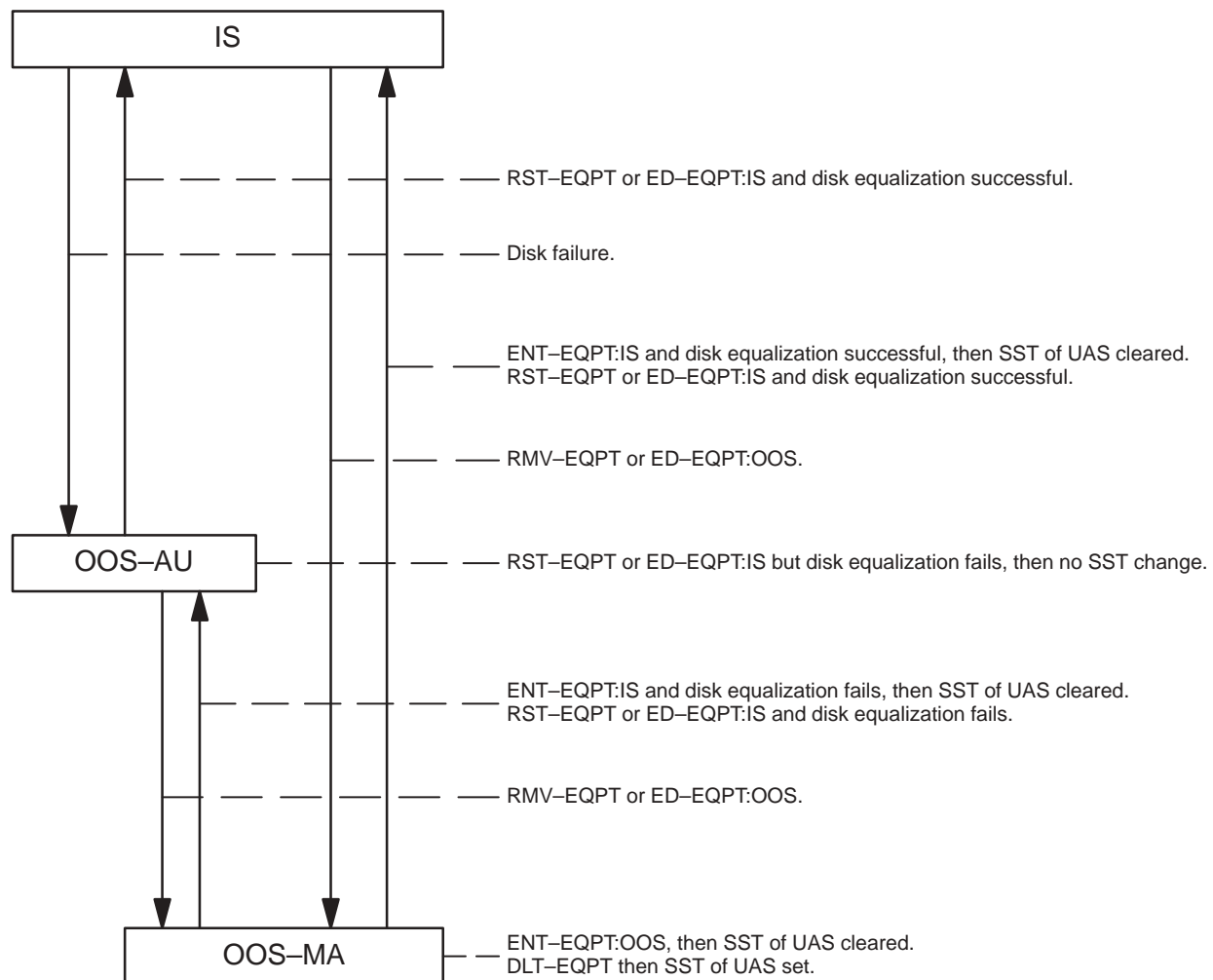
Figure G.6. DSB Equipment State Transitions



Notes.

- The following SSTs are applicable for any PST:
SST of SDEE is set if any supported DS3/DS1 is provisioned (via ENT-T1), otherwise SDEE is cleared.
SST of PSI is set if protection switching is inhibited via INH-SWTOPROTN-EQPT, otherwise PSI is cleared.
SST of PRI is set if release from protection is inhibited via INH-SWTOWKGEQPT, otherwise PRI is cleared.
- For PST of IS or IS-ANR: The Protect DSI/LMU/HMU has a SST of STBYH set if it is not providing protection; a Main DSI/LMU/ HMU has a SST of STBYH set if it is being protected.

Figure G.7. DSI, HMU, and LMU Equipment State Transitions



Notes.

1. The term "disk equalization" refers to synchronizing (equalizing) the contents of an out-of-synchronization disk drive with the contents of the active disk drive.

Figure G.8. DSK Equipment State Transitions

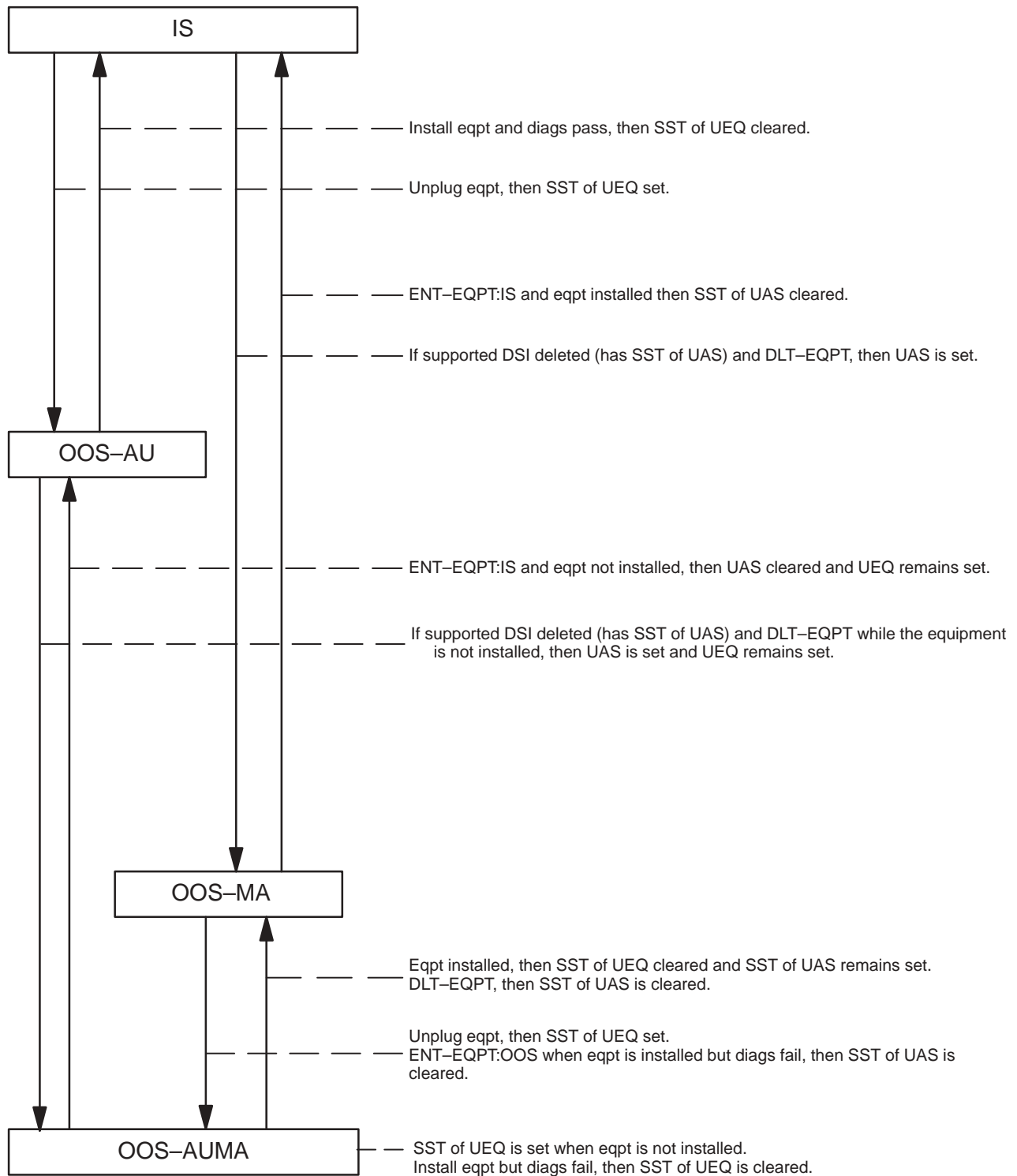
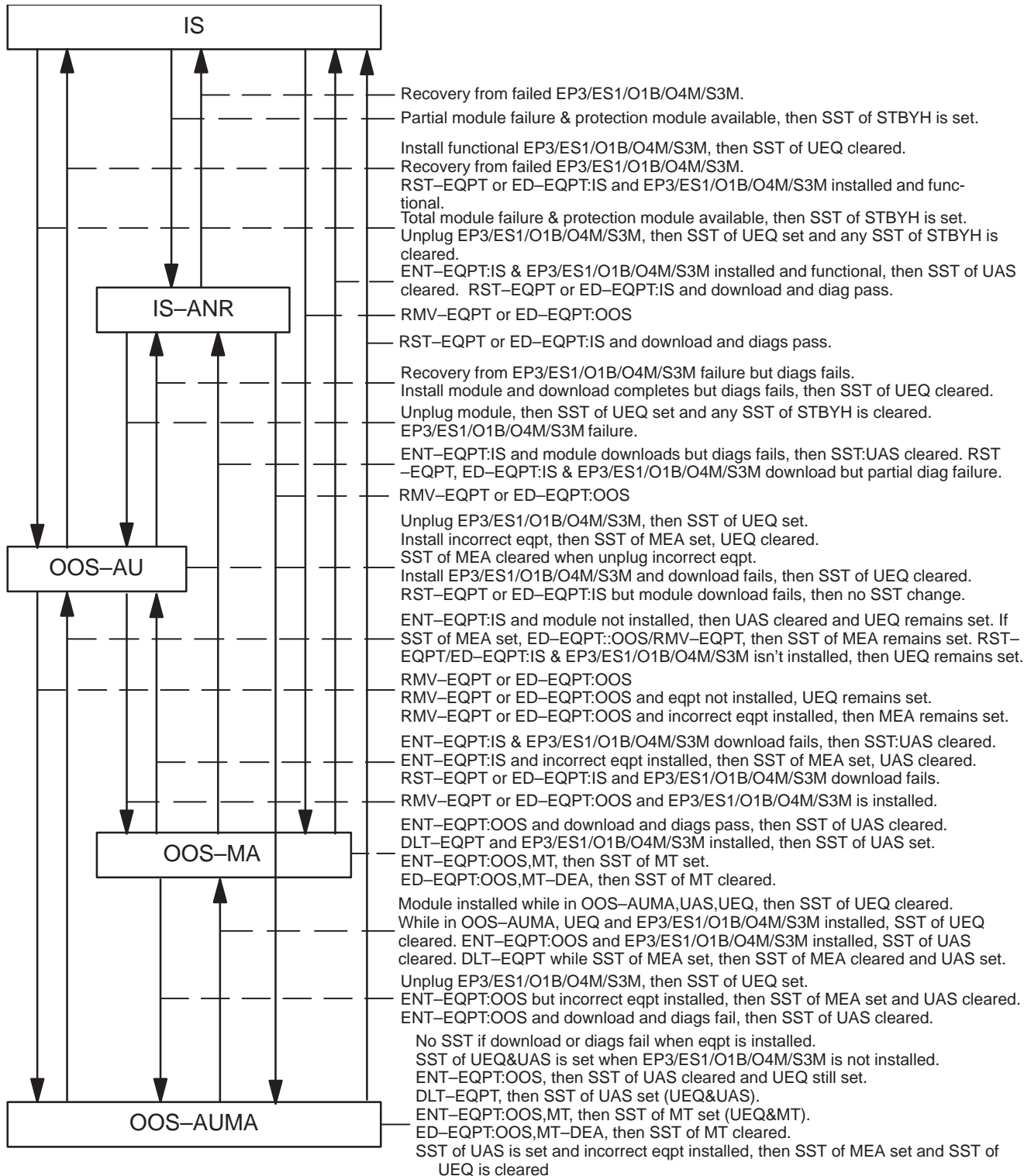


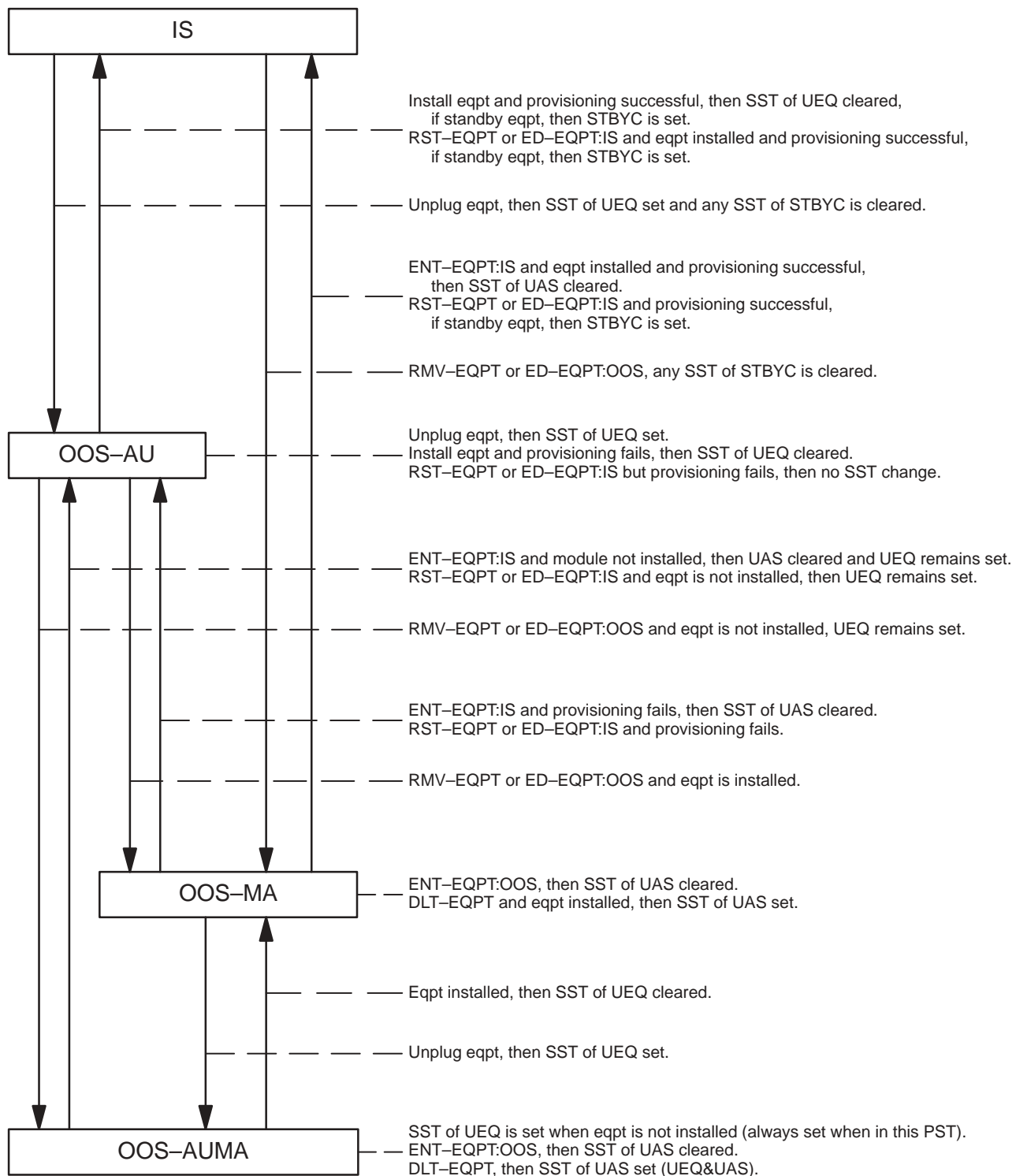
Figure G.9. ESA, PRT, and SWI Equipment State Transitions



Notes.

- The following SSTs are applicable for any PST:
SST of SDEE is set if any supported DS3/EC1/OC12/OC3 is provisioned (via ENT-T3/EC1/OC12/OC3), otherwise SDEE is cleared.
SST of PSI is set if protection switching is inhibited via INH-SWTOPROTN-EQPT on EP3/ES1 and OPR-PROTNSW-OC12/OC3 on O1B/O4M/S3M, otherwise PSI is cleared.
SST of PRI on EP3 is set if release from protection is inhibited via INH-SWTOWKG-EQPT, otherwise PRI is cleared.
- For PST of IS or IS-ANR: The Protect EP3/ES1/O1B/O4M/S3M has a SST of STBYH set if it is not providing protection; a Main EP3/ES1/O1B/O4M/S3M has a SST of STBYH set if it is being protected.
- A temporary transition to OOS-MA,SWDL or OOS-AUMA,SWDL occurs while a software download is in-process.

Figure G.10. EP3, ES1, O1B, O4M and S3M Equipment State Transitions



Notes.

1. For a PST of IS: The standby eqpt has a SST of STBYC set, otherwise STBYC is cleared (the active eqpt does not have a SST of STBYC).
2. The term "provisioning" refers to processor communication with the eqpt and initializing hardware control registers.

Figure G.11. ICM and SIO Equipment State Transitions

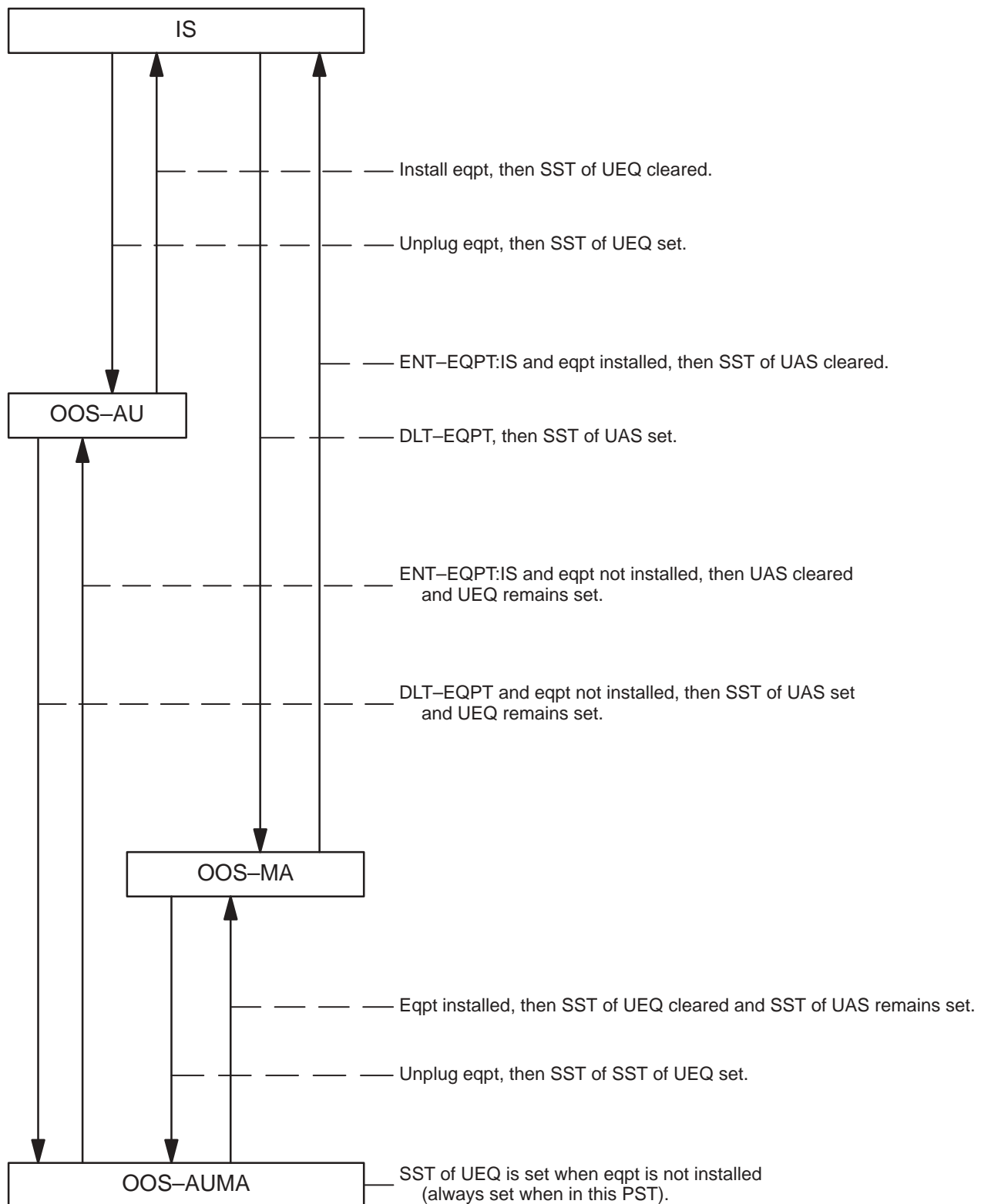
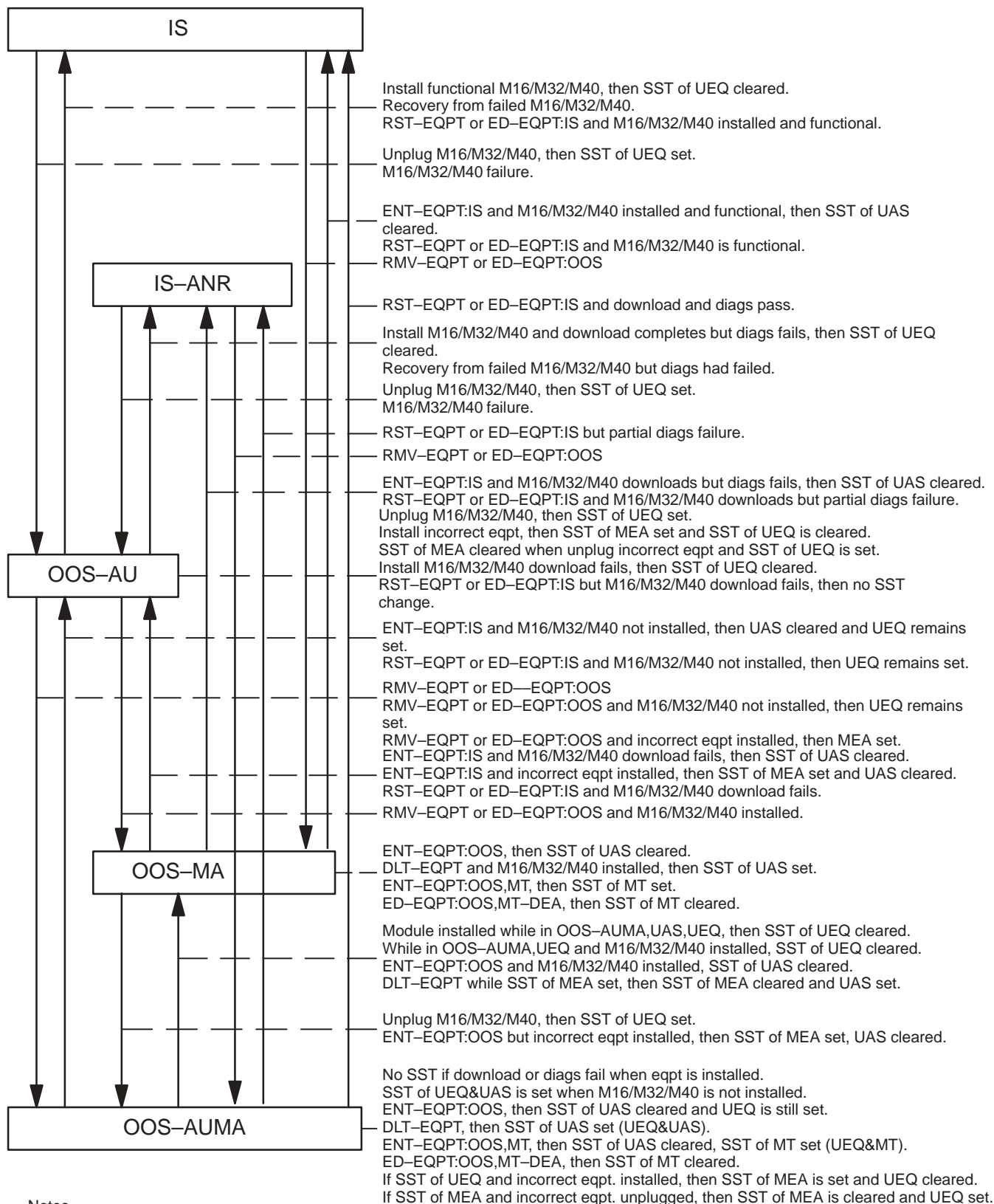


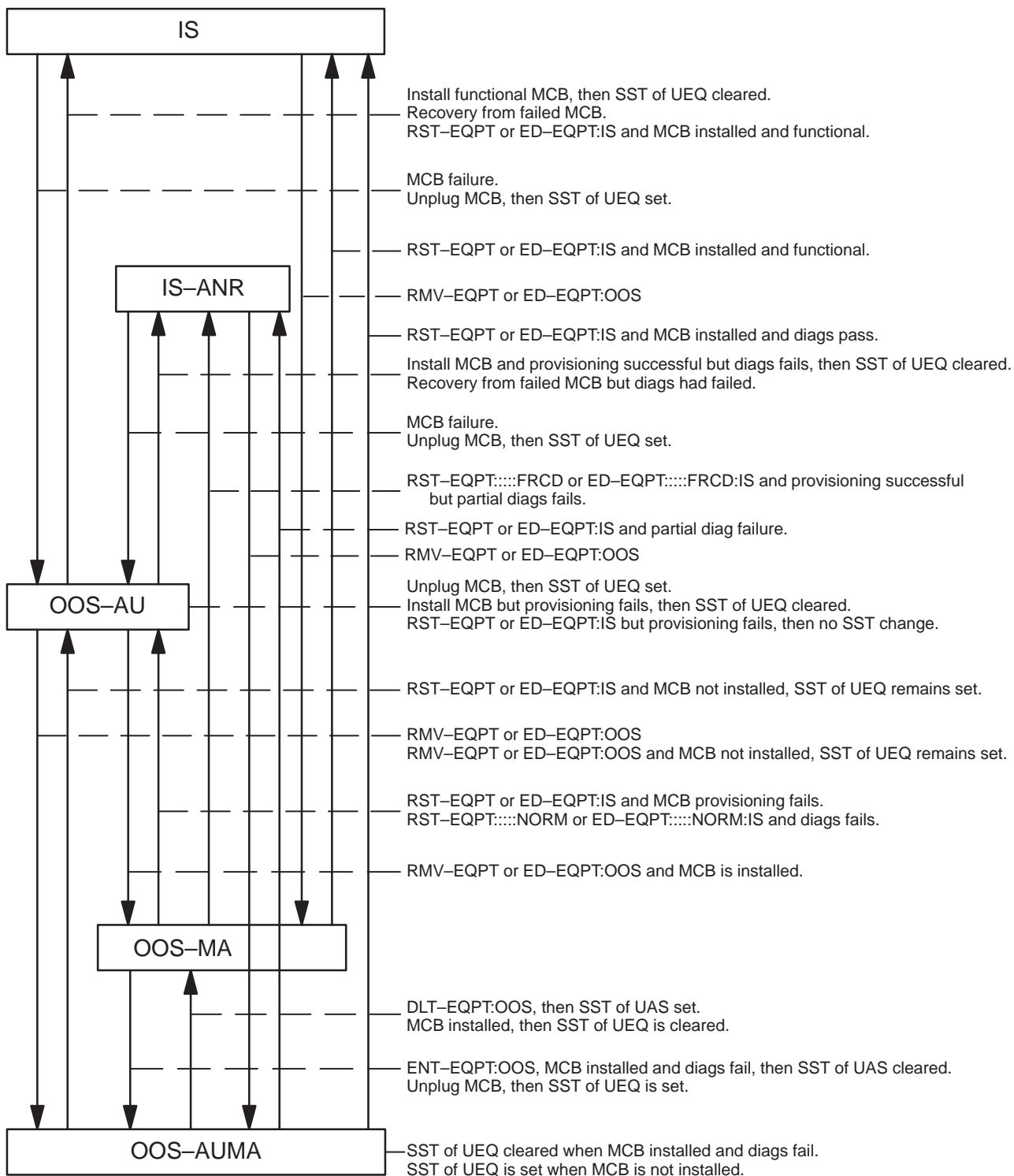
Figure G.12. LT1, LT2, LT4, LT5, LT8, PDU, and RDU Equipment State Transitions



Notes.

1. A temporary transition to OOS-MA,SWDL or OOS-AUMA,SWDL occurs while a software download is in-process.

Figure G.13. M16, M32, and M40 Equipment State Transitions



Notes.

1. The term "provisioning" refers to processor communication with the MCB and initializing hardware control registers.

Figure G.14. MCB Equipment State Transitions

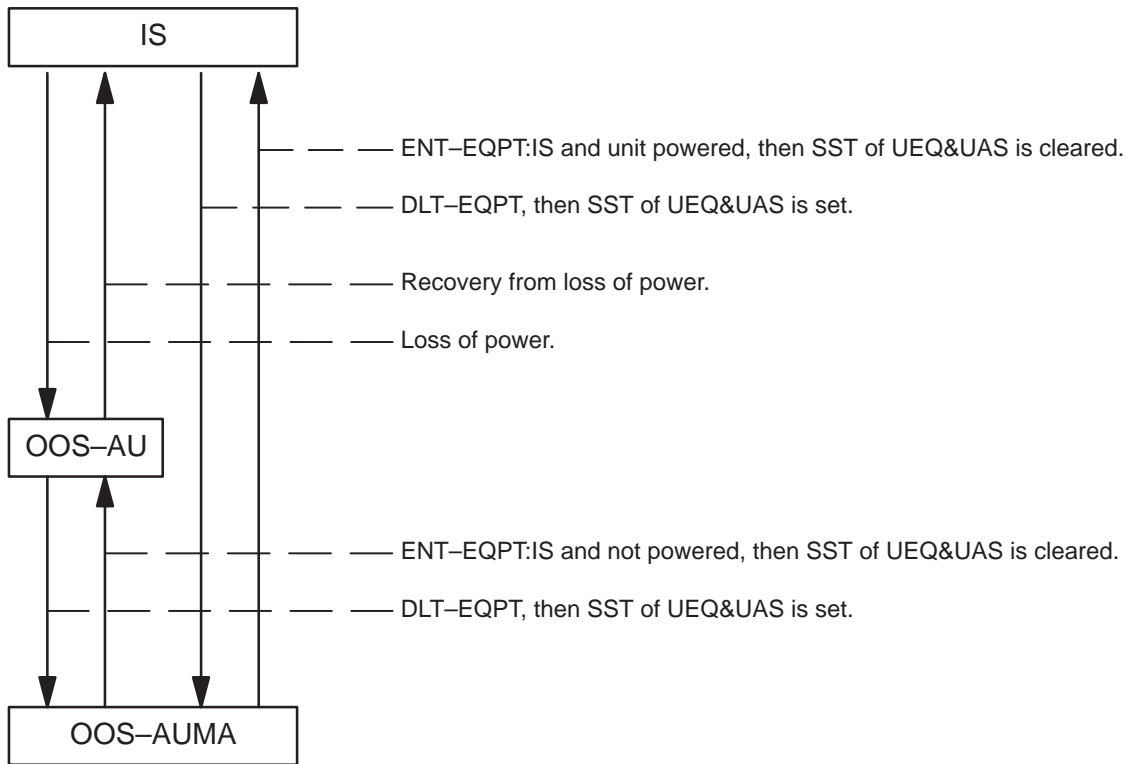
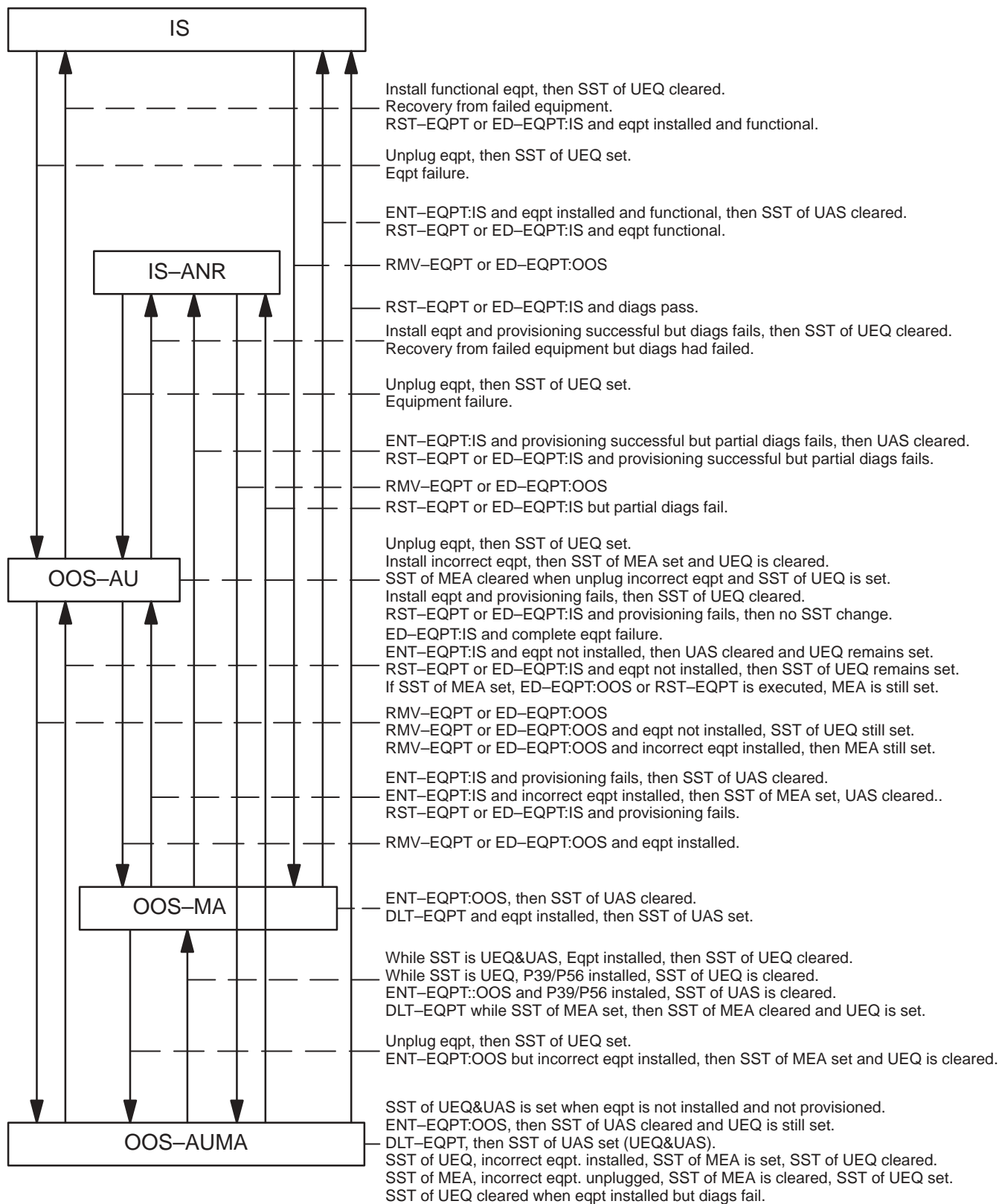


Figure G.15. OPD Equipment State Transitions



Notes.

1. The term "provisioning" refers to processor communication with the equipment.

Figure G.16. P39 and P56 Equipment State Transitions

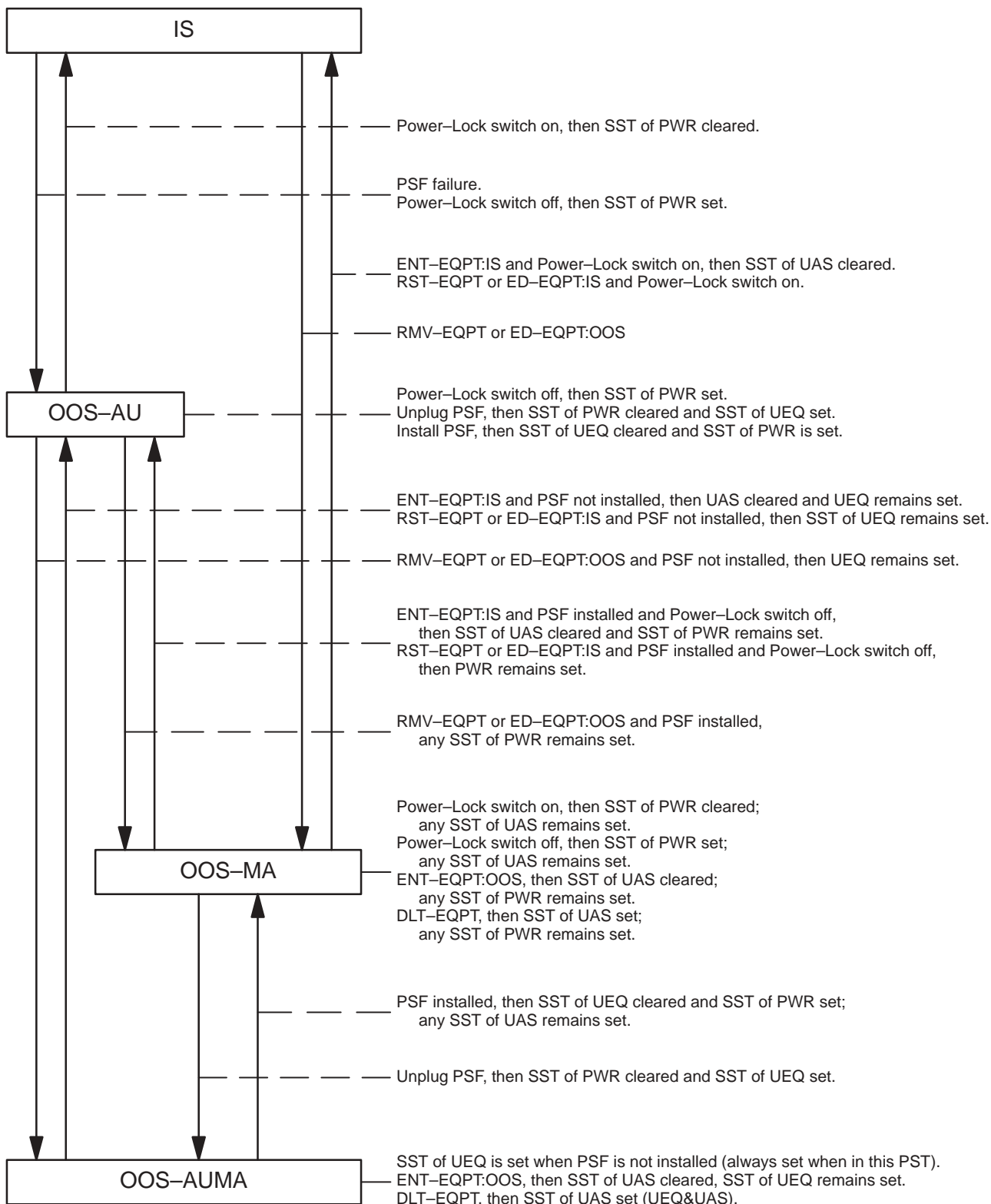


Figure G.17. PSF Equipment State Transitions

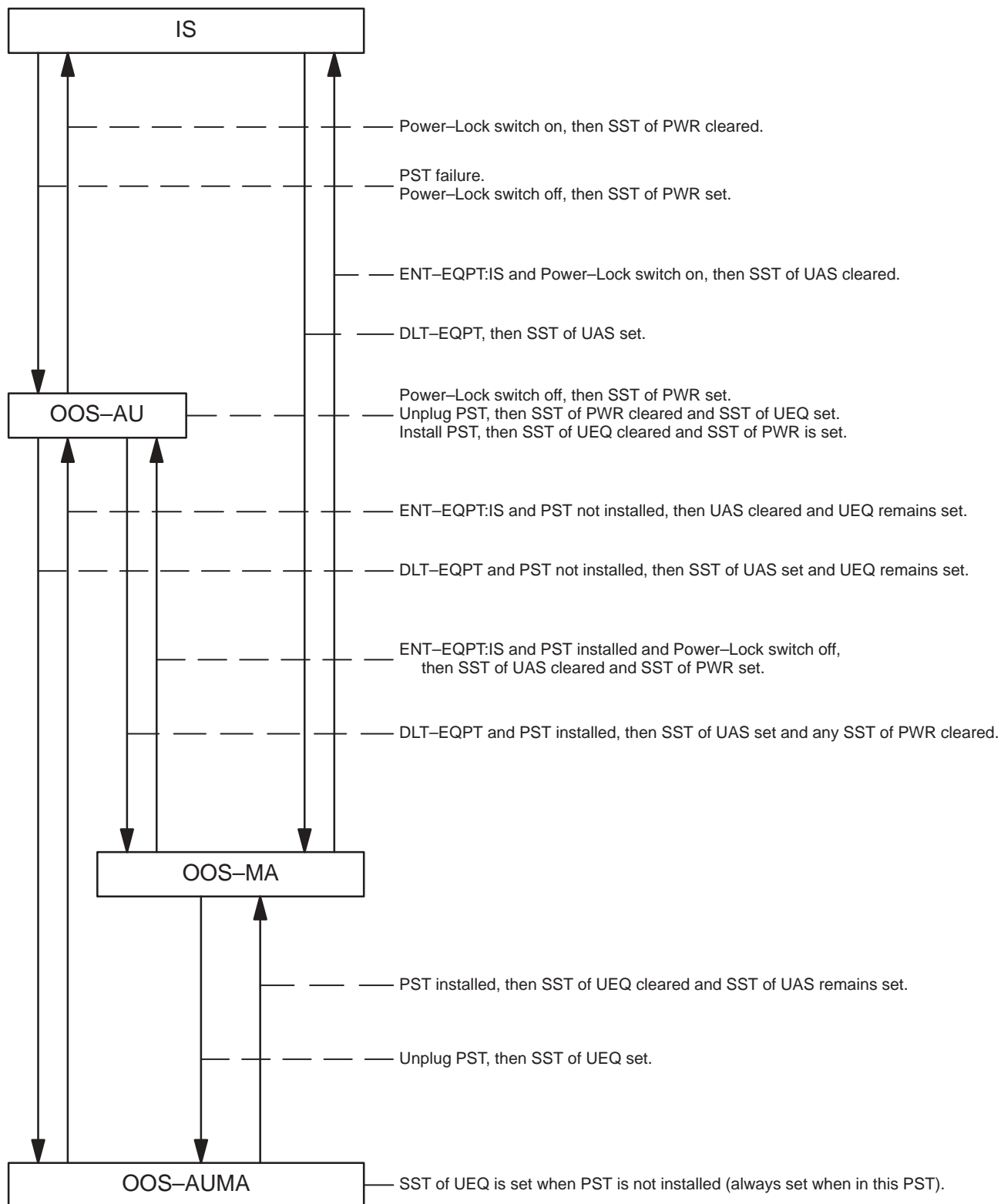
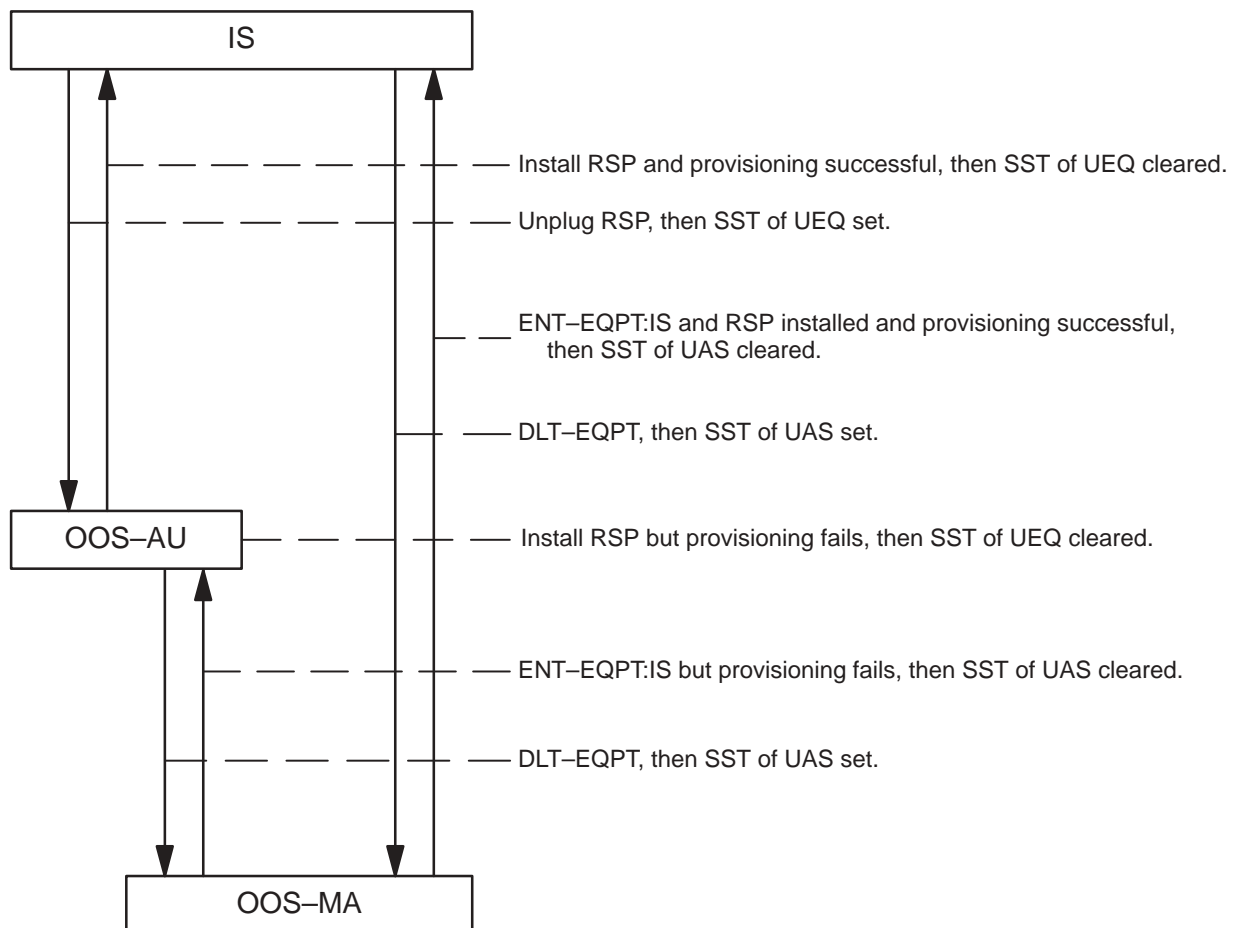


Figure G.18. PST Equipment State Transitions



Notes.

1. The term "provisioning" refers to processor communication with the RSP and initializing hardware control registers.

Figure G.19. RSP Equipment State Transitions

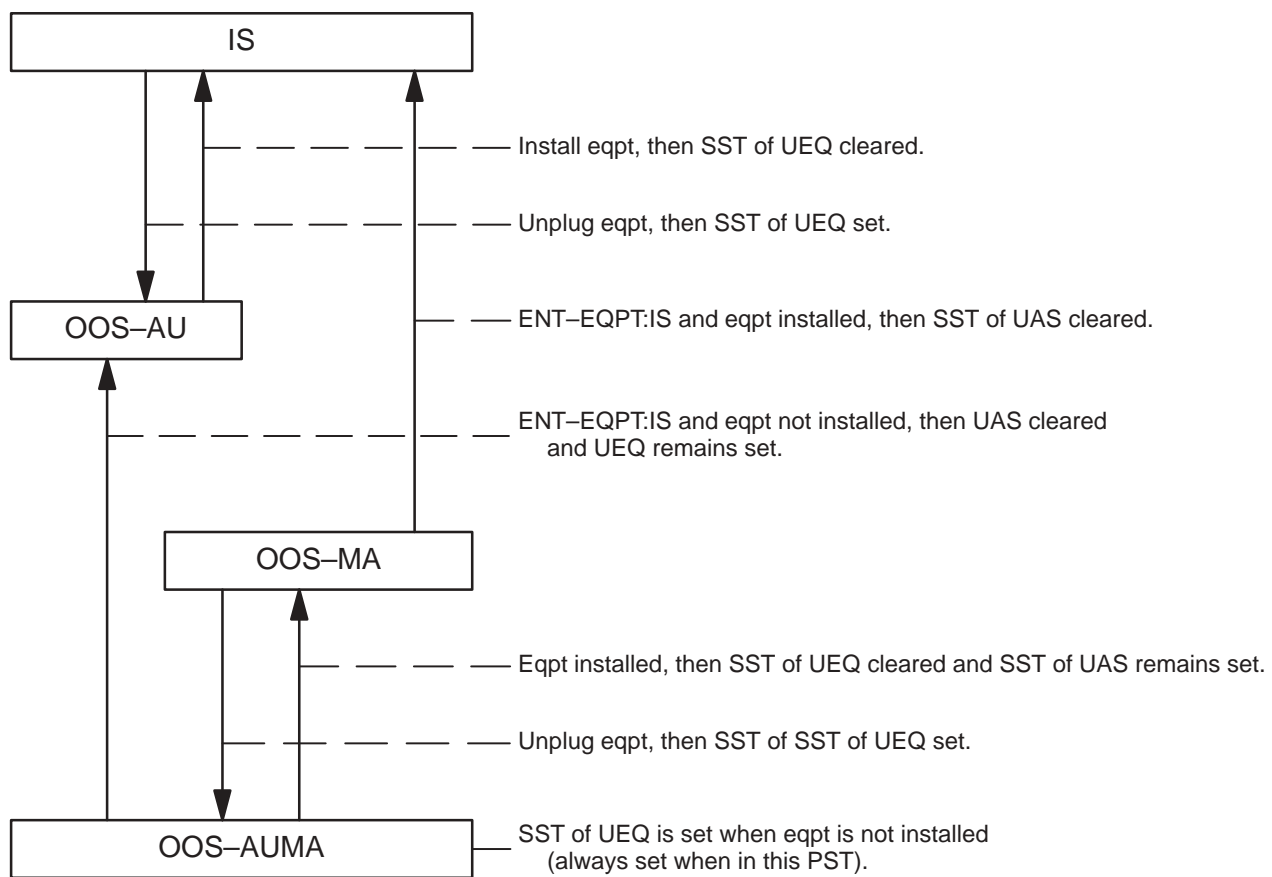


Figure G.20. SBT Equipment State Transitions

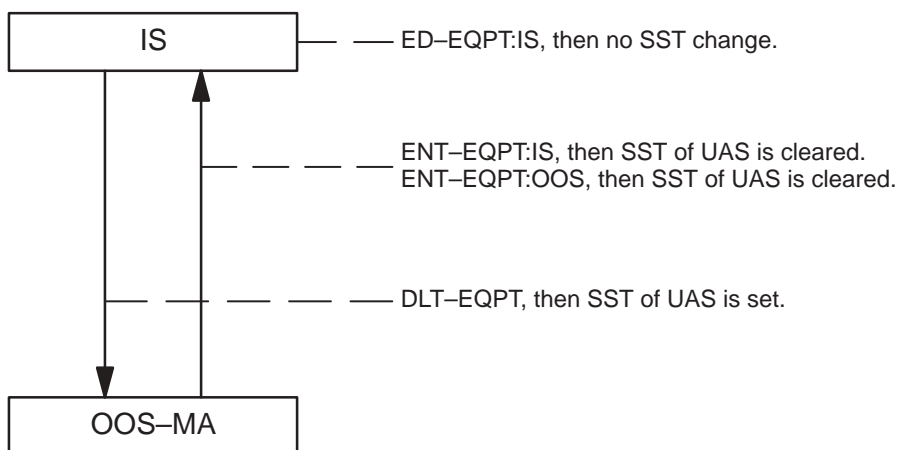


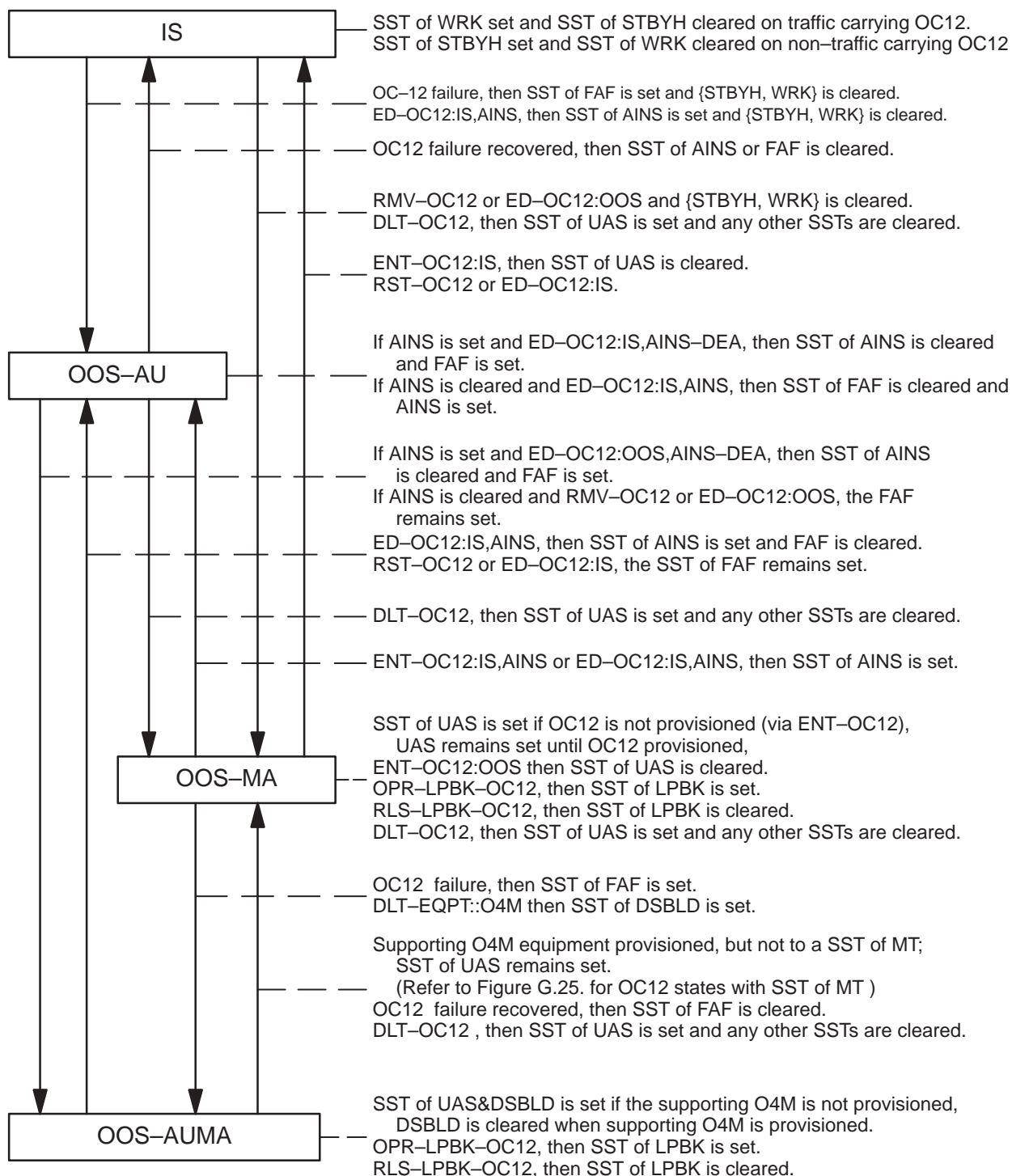
Figure G.21. QUAD and SHELF Equipment State Transitions

G.2.3. OC12 Entity State Transitions

The valid PST,SST combinations and applicable state values for OC12 entities is provided in Table G.4.

Table G.3. OC12 State Values		
PST Value	SST Values	
	Possible Cause of PST Change	Possible Additional SST Information
IS		[{STBYH WRK}, PMI, PSI, SDEE]
OOS-AU	AINS FAF	[PMI, PSI, SDEE] [PMI, PSI, SDEE]
OOS-AUMA	[UAS] [UAS&DSBLD] [FAF]	[MT] [PMI, PSI, SDEE]
OOS-MA	[UAS]	[PMI, PSI, SDEE, LPBK]

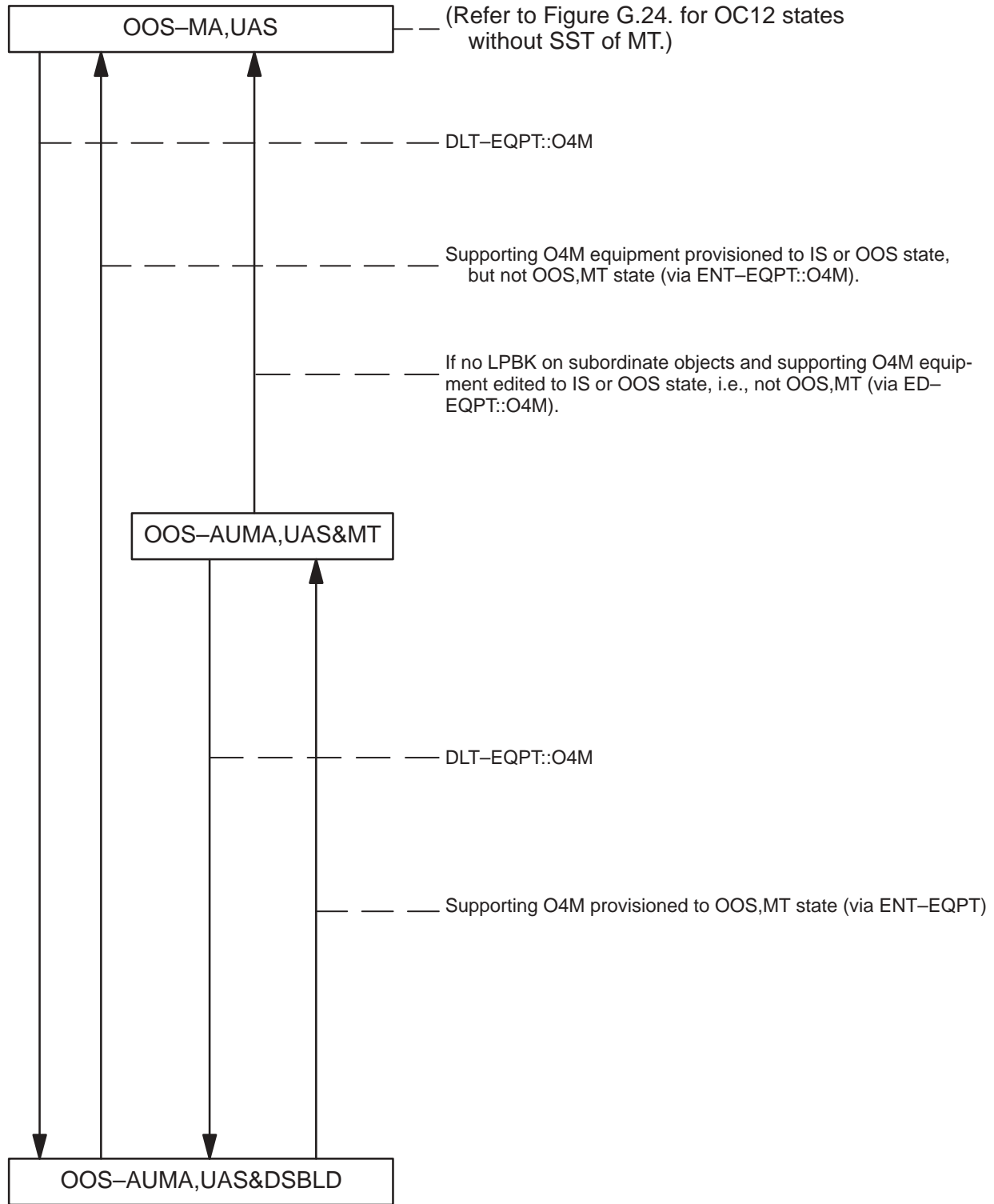
OC12 entity state transition diagrams are provided in Figures G.24. and G.25. Each state transition diagram shows the Primary State transitions for the OC12 entity, along with a description of the cause of the state transition. Figure G.24. shows OC12 entity state transitions when the OC12 entity does not have a SST of MT applied to it. Figure G.25. shows OC12 entity state transitions when the OC12 entity has a SST of MT applied to it, as when an in-service growth maintenance test is to be performed prior to provisioning of the OC12 entity.



Notes.

- When a SST of UAS is set, then any SST of {AINS, FAF, PMI, PSI, SDEE} is cleared.
- The following SSTs are set for any PST state, as follows:
SST of SDEE is set if any subordinate STS1 is provisioned (via ENT-STs1), otherwise SDEE is cleared.
SST of PMI is set if PM is inhibited via SET-PMODE-OC12, otherwise PMI is cleared if PM is enabled.
SST of PSI is set if protection switching is inhibited via OPR-PROTNSW-OC12, otherwise PSI is cleared.

**Figure G.22. OC-12 State Transitions
(OC-12 Without OC-12 SST of MT)**



Note. When SST of UAS is set, then any SST of {AINS, FAF, PMI, SDEE} is cleared.

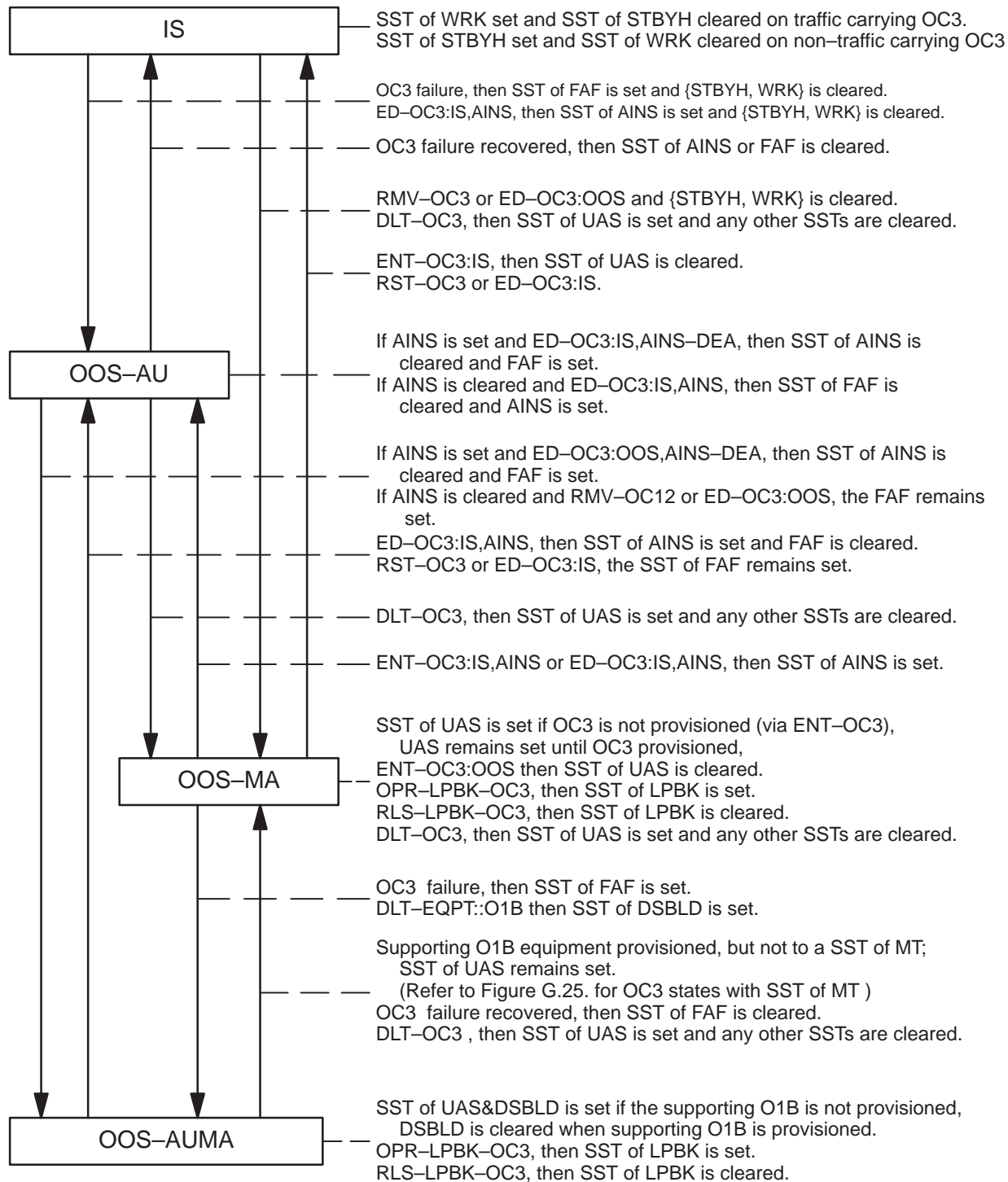
**Figure G.23. OC-12 State Transitions
(Showing Affect of OC-12 SST of MT)**

G.2.4. OC3 Entity State Transitions

The valid PST,SST combinations and applicable state values for OC3 entities is provided in Table G.4.

Table G.4. OC–3 State Values		
PST Value	SST Values	
	Possible Cause of PST Change	Possible Additional SST Information
IS		[{STBYH WRK}, PMI, PSI, SDEE]
OOS–AU	AINS FAF	[PMI, PSI, SDEE] [PMI, PSI, SDEE]
OOS–AUMA	[UAS] [UAS&DSBLD] [FAF]	[MT] [PMI, PSI, SDEE]
OOS–MA	[UAS]	[PMI, PSI, SDEE, LPBK]

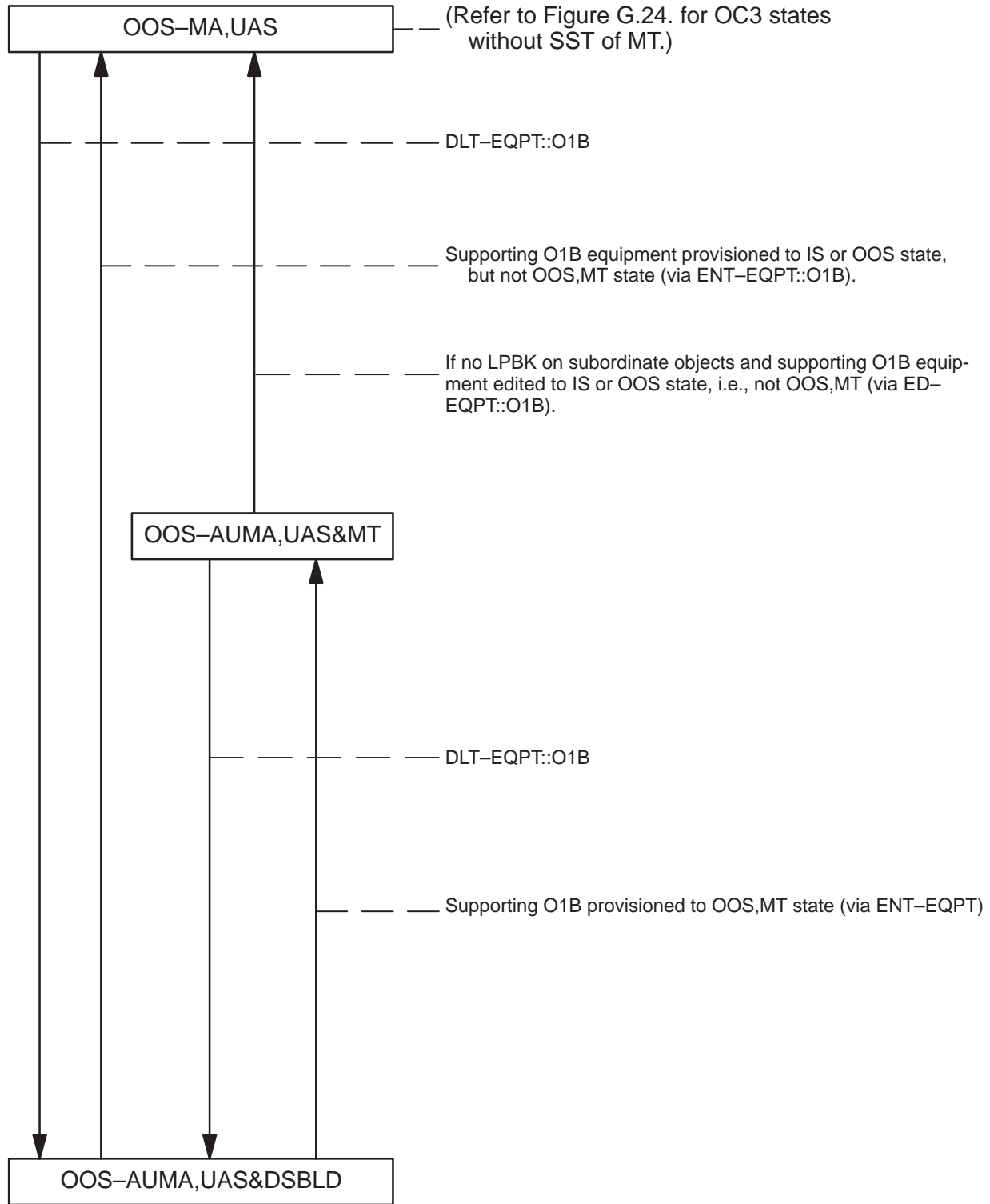
OC3 entity state transition diagrams are provided in Figures G.24. and G.25. Each state transition diagram shows the Primary State transitions for the OC3 entity, along with a description of the cause of the state transition. Figure G.24. shows OC3 entity state transitions when the OC3 entity does not have a SST of MT applied to it. Figure G.25. shows OC3 entity state transitions when the OC3 entity has a SST of MT applied to it, as when an in-service growth maintenance test is to be performed prior to provisioning of the OC3 entity.



Notes.

- When a SST of UAS is set, then any SST of {AINS, FAF, PMI, PSI, SDEE} is cleared.
- The following SSTs are set for any PST state, as follows:
SST of SDEE is set if any subordinate STS1 is provisioned (via ENT-STs1), otherwise SDEE is cleared.
SST of PMI is set if PM is inhibited via SET-PMODE-OC3, otherwise PMI is cleared if PM is enabled.
SST of PSI is set if protection switching is inhibited via OPR-PROTNSW-OC3, otherwise PSI is cleared.

**Figure G.24. OC3 State Transitions
(OC3 Without OC3 SST of MT)**



Note. When SST of UAS is set, then any SST of {AINS, FAF, PMI, SDEE} is cleared.

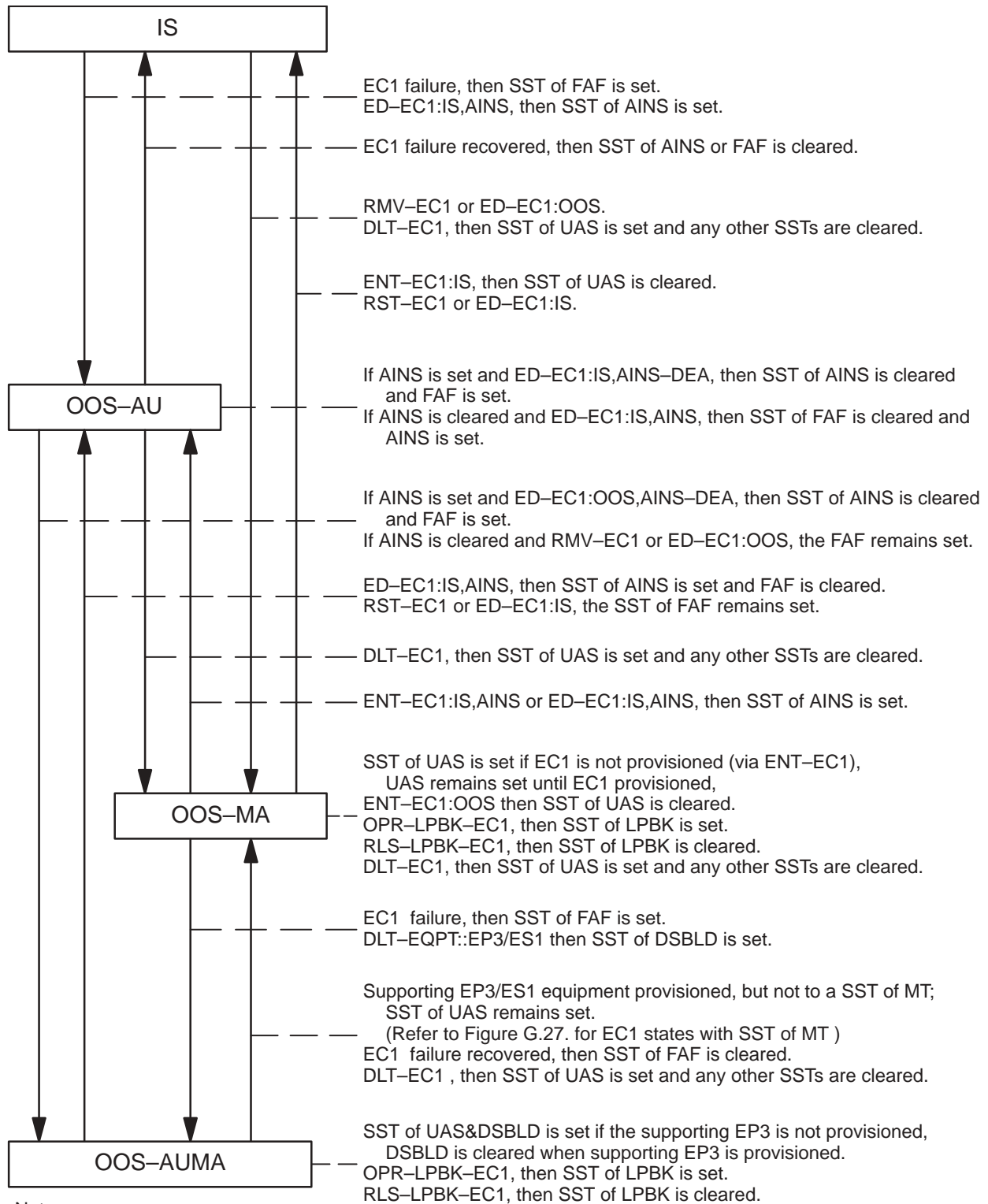
**Figure G.25. OC3 State Transitions
(Showing Affect of OC3 SST of MT)**

G.2.5. EC1 Entity State Transitions

The valid PST,SST combinations and applicable state values for EC1 entities is provided in Table G.5.

Table G.5. EC1 State Values		
PST Value	SST Values	
	Possible Cause of PST Change	Possible Additional SST Information
IS		[PMI, SDEE, TRM] ¹
OOS-AU	AINS FAF	[PMI, SDEE, TRM] ¹ [PMI, SDEE, TRM] ¹
OOS-AUMA	[UAS] [UAS&DSBLD] [FAF]	[MT] [PMI, SDEE, TRM] ¹
OOS-MA	[UAS]	[PMI, SDEE, {LPBK TRM}] ¹
Notes: 1. TRM will only occur with SDEE (e.g., SDEE&TRM or SDEE&TRM&PMI).		

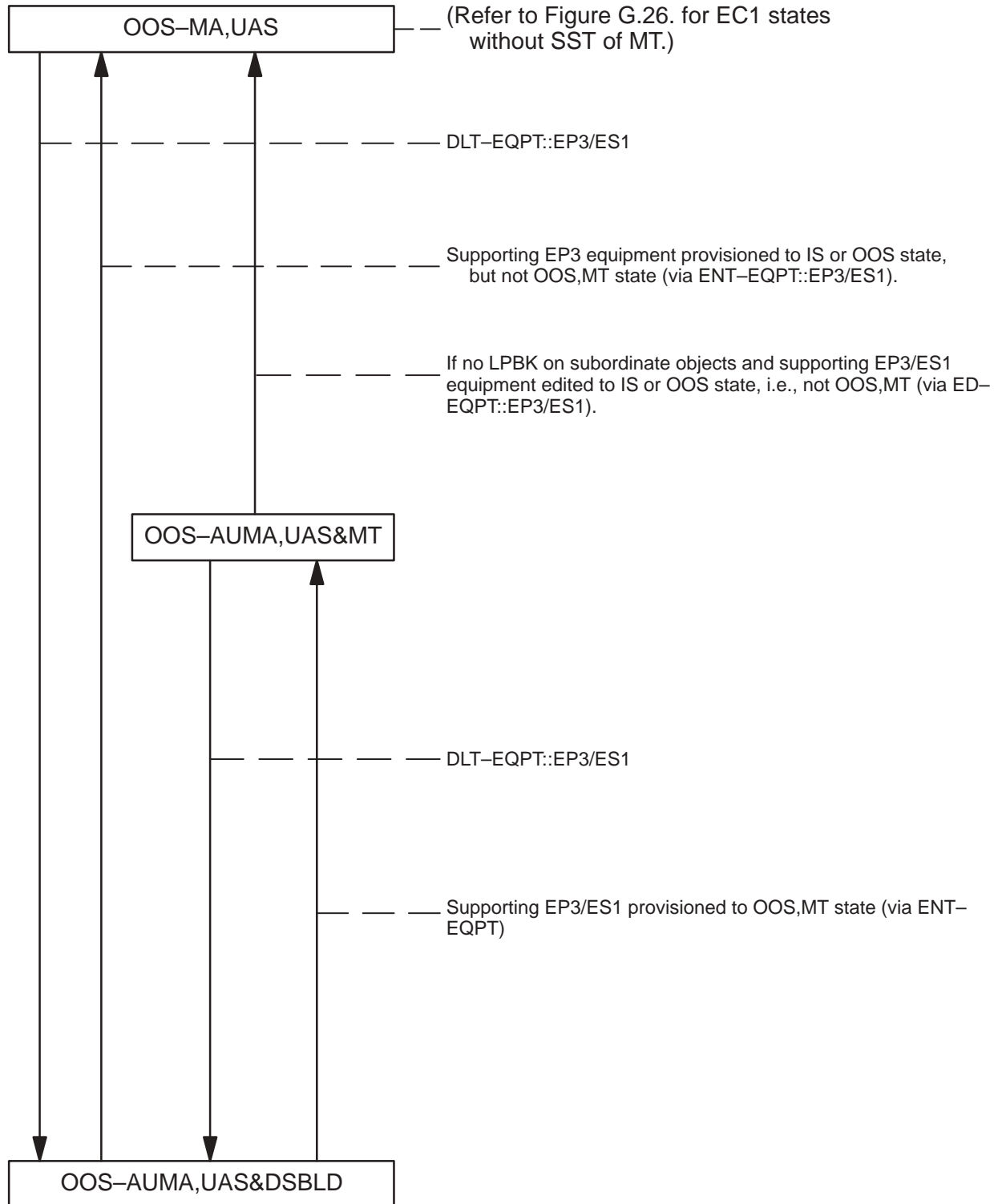
EC1 entity state transition diagrams are provided in Figures G.26. and G.27.G. Each state transition diagram shows the Primary State transitions for the EC1 entity, along with a description of the cause of the state transition. Figure G.26. shows EC1 entity state transitions when the EC1 entity does not have a SST of MT applied to it. Figure G.27. shows EC1 entity state transitions when the EC1 entity has a SST of MT applied to it, as when an in-service growth maintenance test is to be performed prior to provisioning of the EC1 entity.



Notes.

1. When a SST of UAS is set, then any SST of {AINS, FAF, PMI, SDEE, TRM} is cleared.
2. The following SSTs are set for any PST state, as follows:
SST of SDEE is set if any subordinate STS1 is provisioned (via ENT-STs1), otherwise SDEE is cleared.
SST of TRM is set If any subordinate STS1, or VT1.5 has SST of {ACT, BUSY}, otherwise TRM is cleared.
SST of PMI is set if PM is inhibited via SET-PMMODE-EC1, otherwise PMI is cleared if PM is enabled.

**Figure G.26. EC1 State Transitions
(EC1 Without EC1 SST of MT)**



Note. When SST of UAS is set, then any SST of {AINS, FAF, PMI, SDEE, TRM} is cleared.

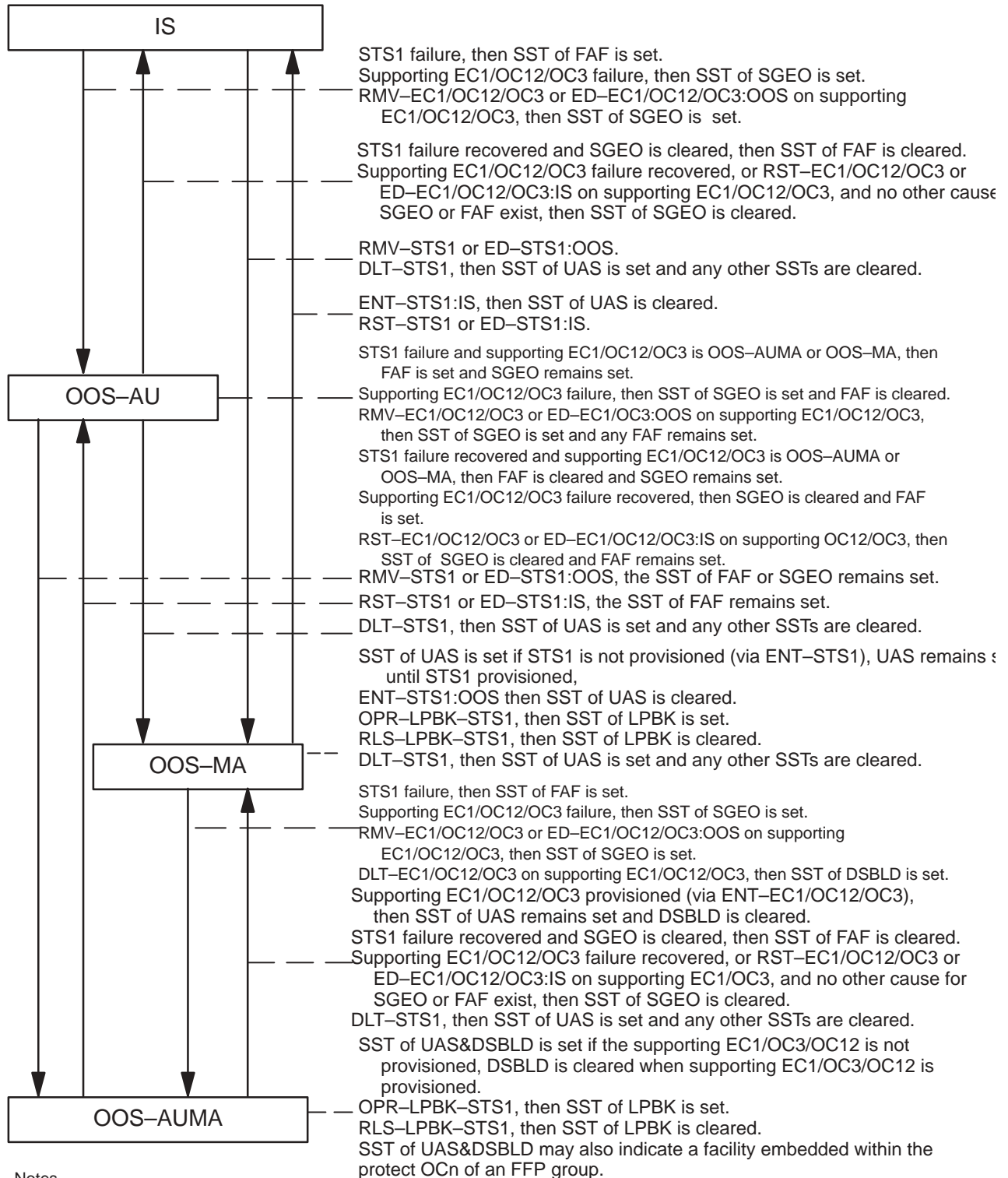
**Figure G.27. EC1 State Transitions
(Showing Affect of EC1 SST of MT)**

G.2.6. STS1 Entity State Transitions

The valid PST,SST combinations and applicable state values for STS1 entities is provided in Table G.6.

Table G.6. STS1 State Values		
PST Value	SST Values	
	Possible Cause of PST Change	Possible Additional SST Information
IS		[{ACT BUSY}, PMI, SDEE, TRM]
OOS-AU	[FAF, SGEO]	[{ACT BUSY}, PMI, SDEE, TRM]
OOS-AUMA	[UAS] [UAS&DSBLD] [FAF, SGEO]	[MT {MT&LPBK}] [MT] [{ACT BUSY}, PMI, SDEE, {LPBK TRM}]
OOS-MA	[UAS]	[{ACT BUSY}, PMI, SDEE, {LPBK TRM}]

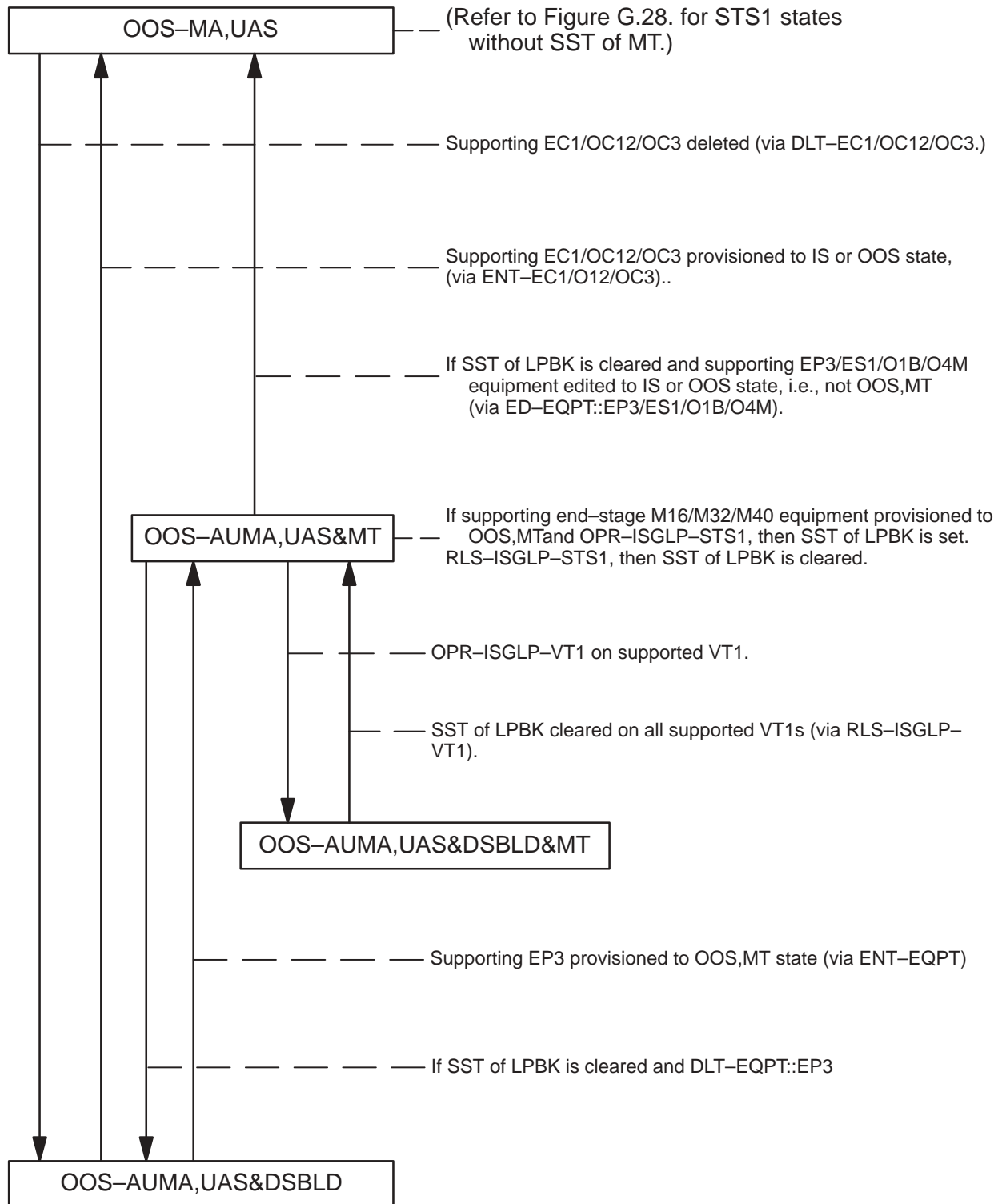
STS1 entity state transition diagrams are provided in Figures G.28. and G.29. Each state transition diagram shows the Primary State transitions for the STS1 entity, along with a description of the cause of the state transition. Figure G.28. shows STS1 entity state transitions when the STS1 entity does not have a SST of MT applied to it. Figure G.29. shows STS1 entity state transitions when the STS1 entity has a SST of MT applied to it, as when an in-service growth maintenance test is to be performed prior to provisioning of the STS1 entity.



Notes.

1. When a SST of UAS is set, then any SST of {FAF, PMI, SDEE, SGEO, TRM} is cleared.
2. The following SSTs are set for any PST state, as follows:
 - SST of SDEE is set if any subordinate VT1 is provisioned (via ENT-VT1), otherwise SDEE is cleared.
 - SST of TRM is set if any subordinate VT1 has SST of {ACT, BUSY}, otherwise TRM is cleared.
 - SST of PMI is set if PM is inhibited via SET-PMMODE-STS1, otherwise PMI is cleared if PM is enabled.
 - SST of ACT is set if the STS1 is connected but has additional bandwidth available, otherwise ACT is cleared.
 - SST of BUSY is set if the STS1 is connected but has not additional bandwidth available, otherwise BUSY is cleared.

**Figure G.28. STS1 State Transitions
(STS1 Without STS1 SST of MT)**



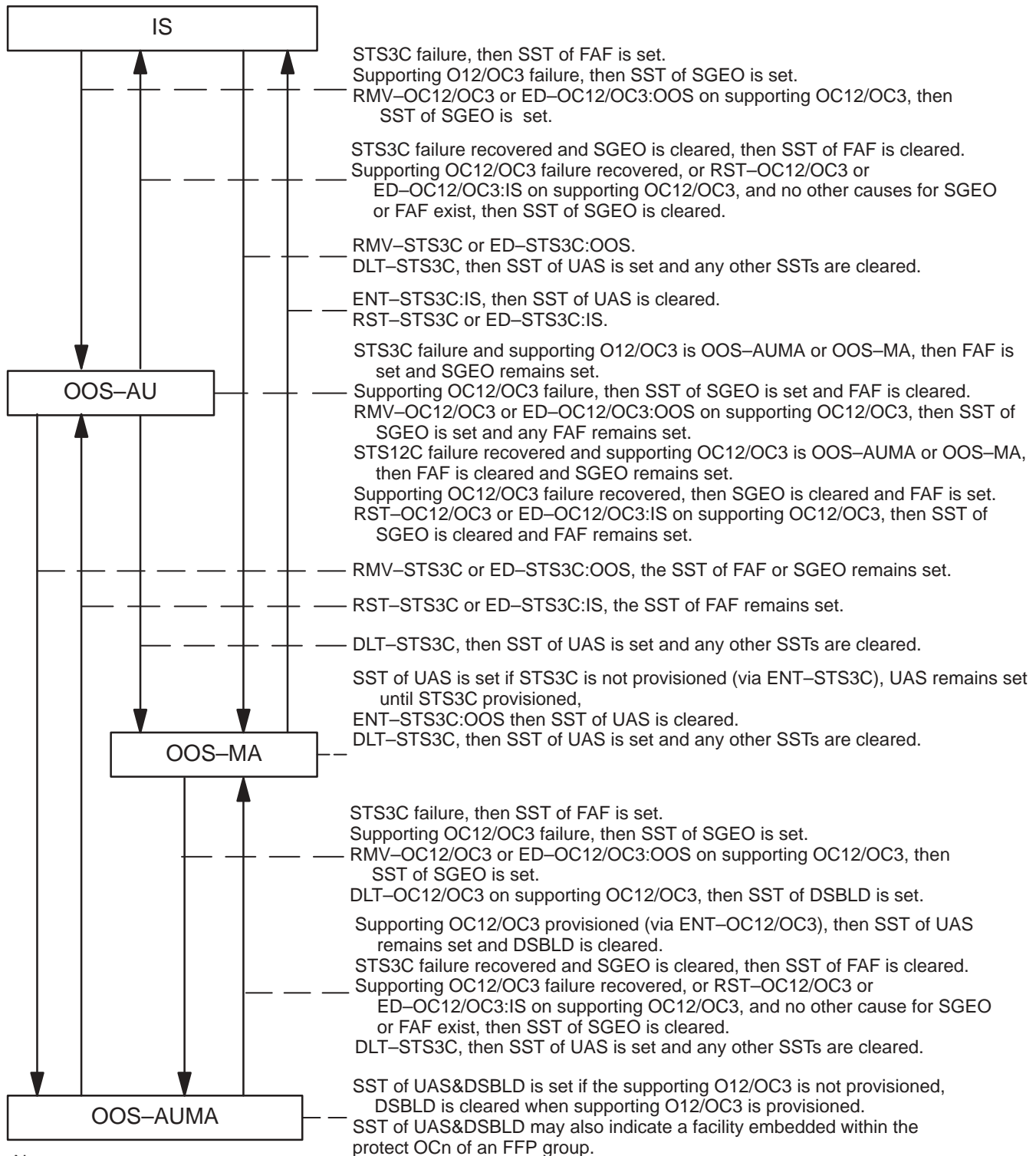
**Figure G.29. STS1 State Transitions
(Showing Affect of STS1 SST of MT)**

G.2.7. STS3C Entity State Transitions

The valid PST,SST combinations and applicable state values for STS3C entities is provided in Table G.7.

Table G.7. STS3C State Values		
PST Value	SST Values	
	Possible Cause of PST Change	Possible Additional SST Information
IS		[{ACT BUSY}, PMI]
OOS-AU	[FAF, SGEO]	[{ACT BUSY}, PMI]
OOS-AUMA	[UAS] [UAS&DSBLD] [FAF, SGEO]	[{ACT BUSY}, PMI]
OOS-MA	[UAS]	[{ACT BUSY}, PMI]

STS3C entity state transition diagrams are provided in Figure G.30. Each state transition diagram shows the Primary State transitions for the STS3C entity, along with a description of the cause of the state transition.



Notes.

1. When a SST of UAS is set, then any SST of {FAF, PMI, SGEO} is cleared.
2. The following SSTs are set for any PST state, as follows:
SST of PMI is set if PM is inhibited via SET-PMMODE-STS3C, otherwise PMI is cleared if PM is enabled.

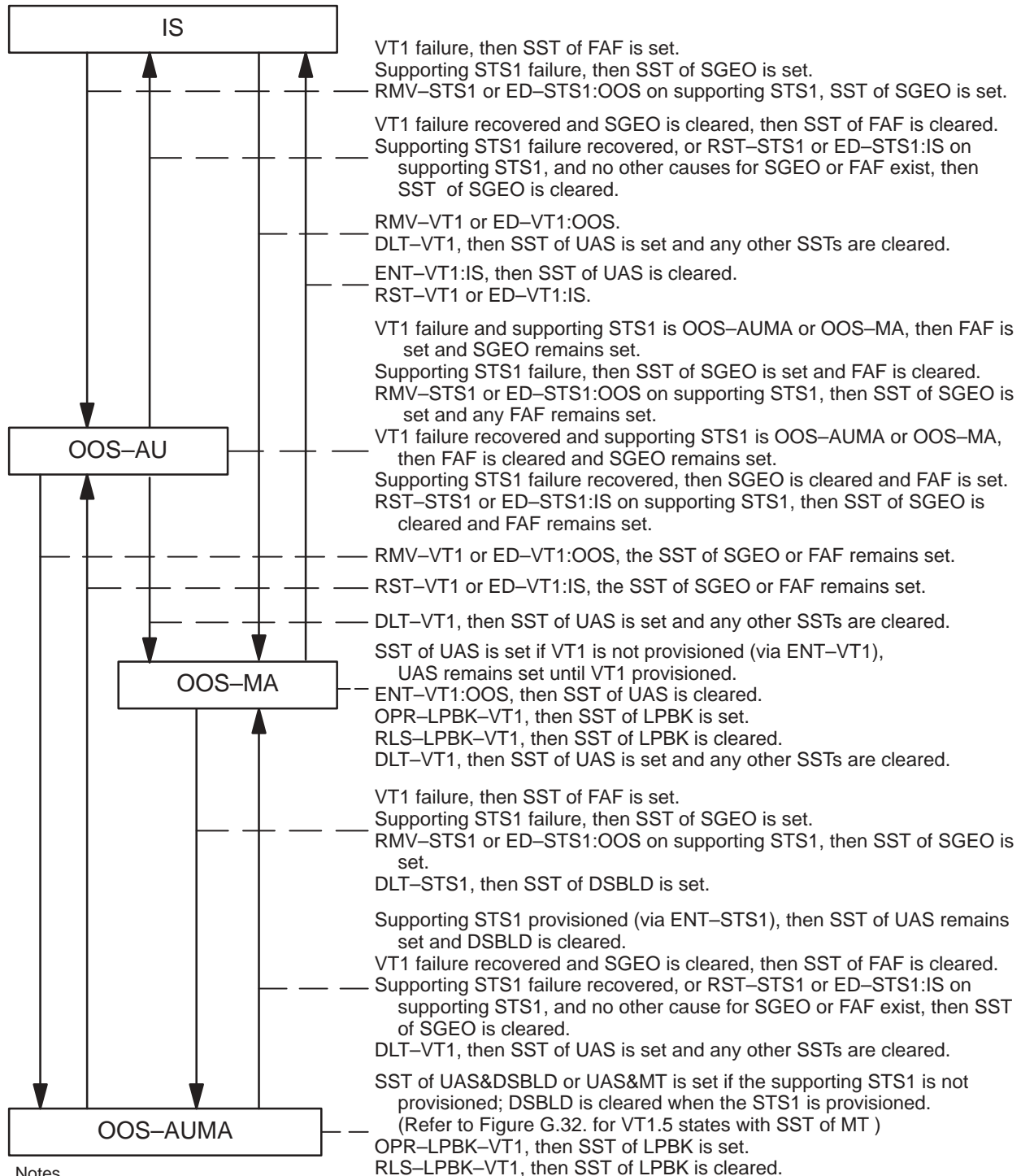
Figure G.30. STS3C State Transitions

G.2.8. VT1.5 Entity State Transitions

The valid PST,SST combinations and applicable state values for VT1.5 entities is provided in Table G.8.

Table G.8. VT1.5 State Values		
PST Value	SST Values	
	Possible Cause of PST Change	Possible Additional SST Information
IS		[{ACT BUSY}, PMI, ROLL, SDEE, TRM, TS] ¹
OOS-AU	[FAF, SGEO]	[{ACT BUSY}, PMI, ROLL, SDEE, TRM, TS] ¹
OOS-AUMA	[UAS] [UAS&DSBLD] [FAF, SGEO]	[MT {MT&LPBK}] [ACT BUSY}, {LPBK TS}, PMI, ROLL, SDEE, TRM] ¹
OOS-MA	[UAS]	[ACT BUSY}, {LPBK TS}, PMI, ROLL] ¹
Notes: 1. ROLL is a transitory state unless MAN rolling mode is being used.		

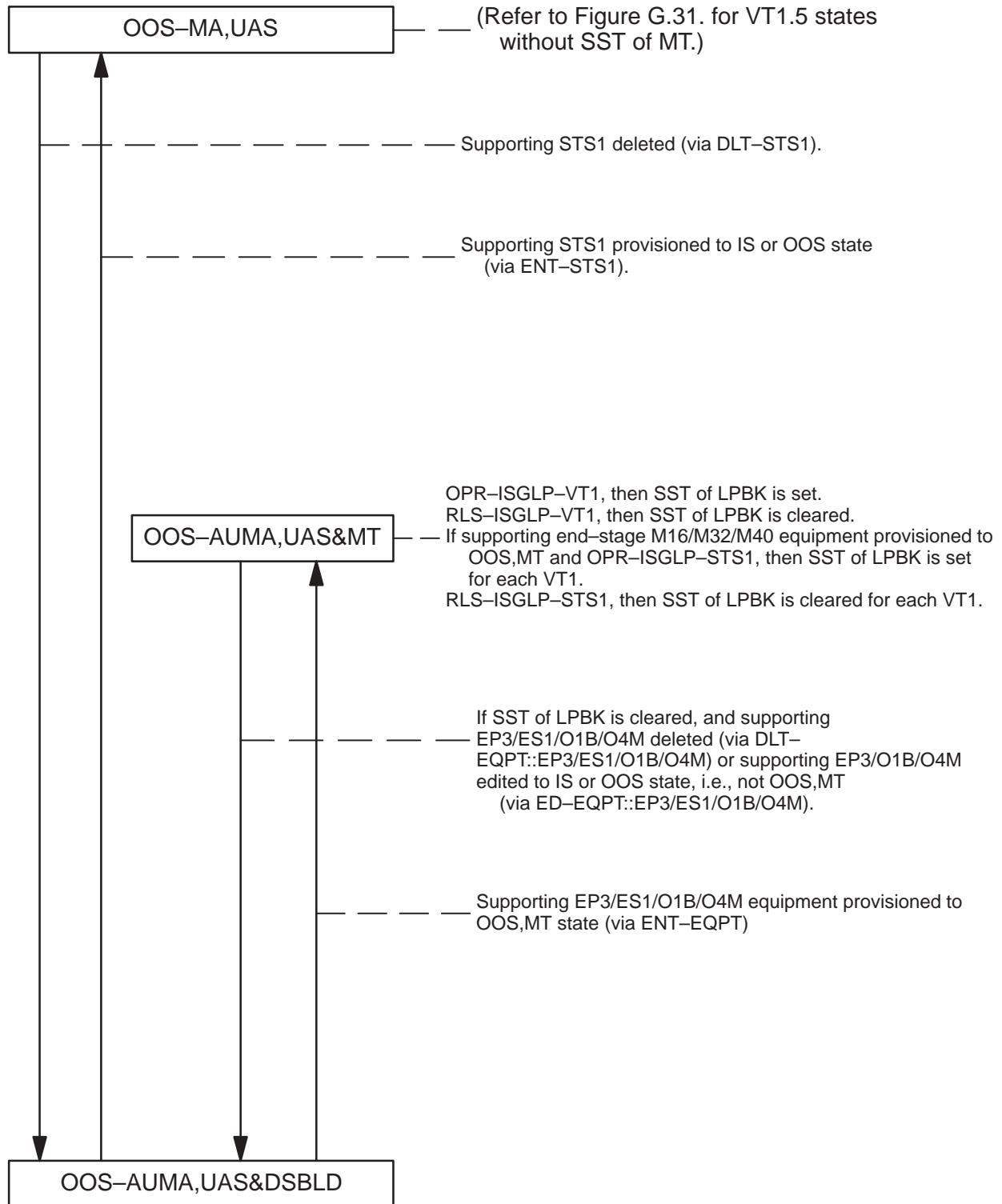
VT1.5 entity state transition diagrams are provided in Figures G.31. and G.32. Each state transition diagram shows possible Primary State transitions for the VT1.5 entity, along with a description of the cause of the state transition. Figure G.31. shows VT1.5 entity state transitions when the VT1.5 entity does not have a SST of MT applied to it. Figure G.32. shows VT1.5 entity state transitions when the VT1.5 entity has a SST of MT applied to it, as when an in-service growth maintenance test is to be performed prior to provisioning of the VT1.5 entity.



Notes.

1. When a SST of UAS is set, then any SST of {ACT, BUSY, FAF, PMI, SDEE, SGEO, TS} is cleared.
2. The following SSTs are set for any PST state, as follows:
SST of ACT is set if the VT1.5 is connected but has additional bandwidth available (e.g., 1-Way connected, or 2-Way connected but not with a bridge), otherwise ACT is cleared.
SST of BUSY is set If the VT1.5 is connected but has no additional bandwidth available (e.g., 2-Way connected with a bridge connection, a TAPP connected for test access), otherwise BUSY is cleared.
SST of PMI is set if PM is inhibited via SET-PMODE-VT1, otherwise PMI is cleared.
SST of TS is set if the VT1.5 are connected for a test access operation, otherwise TS is cleared.
SST of TRM is set if the VT1.5 is cross connected to a T1 in the VT1.5 to T1 direction, otherwise it is cleared.
SST of ROLL is temporarily set while the VT1.5 is under a roll operation.

**Figure G.31. VT1.5 State Transitions
(VT1.5 Without VT1.5 SST of MT)**



Note. When SST of UAS is set, then any SST of {ACT, BUSY, FAF, PMI, ROLL, SDEE, SGEO, TS} is cleared.

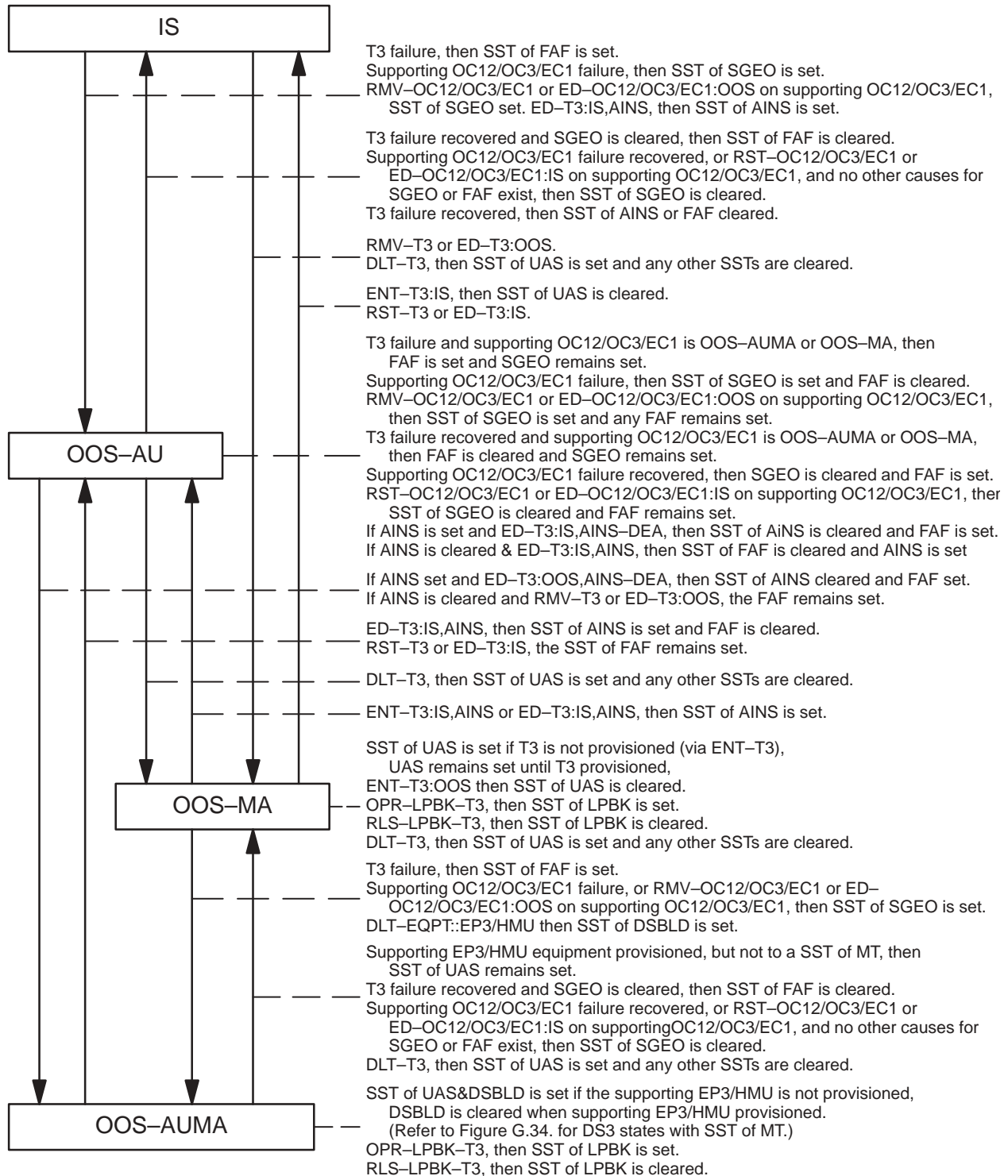
**Figure G.32. VT1.5 State Transitions
(Showing Affect of VT1.5 SST of MT)**

G.2.9. DS3 Entity State Transitions

The valid PST,SST combinations and applicable state values for DS3 entities is provided in Table G.9.

Table G.9. DS3 State Values		
PST Value	SST Values	
	Possible Cause of PST Change	Possible Additional SST Information
IS ²		[{ACT BUSY}, PMI, SDEE, TRM, TS]
OOS–AU ²	AINS [FAF, SGEO]	[{ACT BUSY}, PMI, SDEE, TRM, TS] [{ACT BUSY}, PMI, SDEE, TRM, TS]
OOS–AUMA	[UAS] [UAS&DSBLD] [FAF, SGEO]	[MT {MT&LPBK}] ² [MT] ² [{ACT BUSY}, PMI, SDEE, {LPBK TRM TS}] ¹
OOS–MA	[UAS]	[{ACT BUSY}, PMI, SDEE, {LPBK TRM TS}] ¹
Notes: 1. A Test Access Port (FAD A or FAD B) cannot be provisioned to a PST of IS or OOS–AU, or have a SST of {ACT, DSBLD, LPBK, MT, UAS}.		

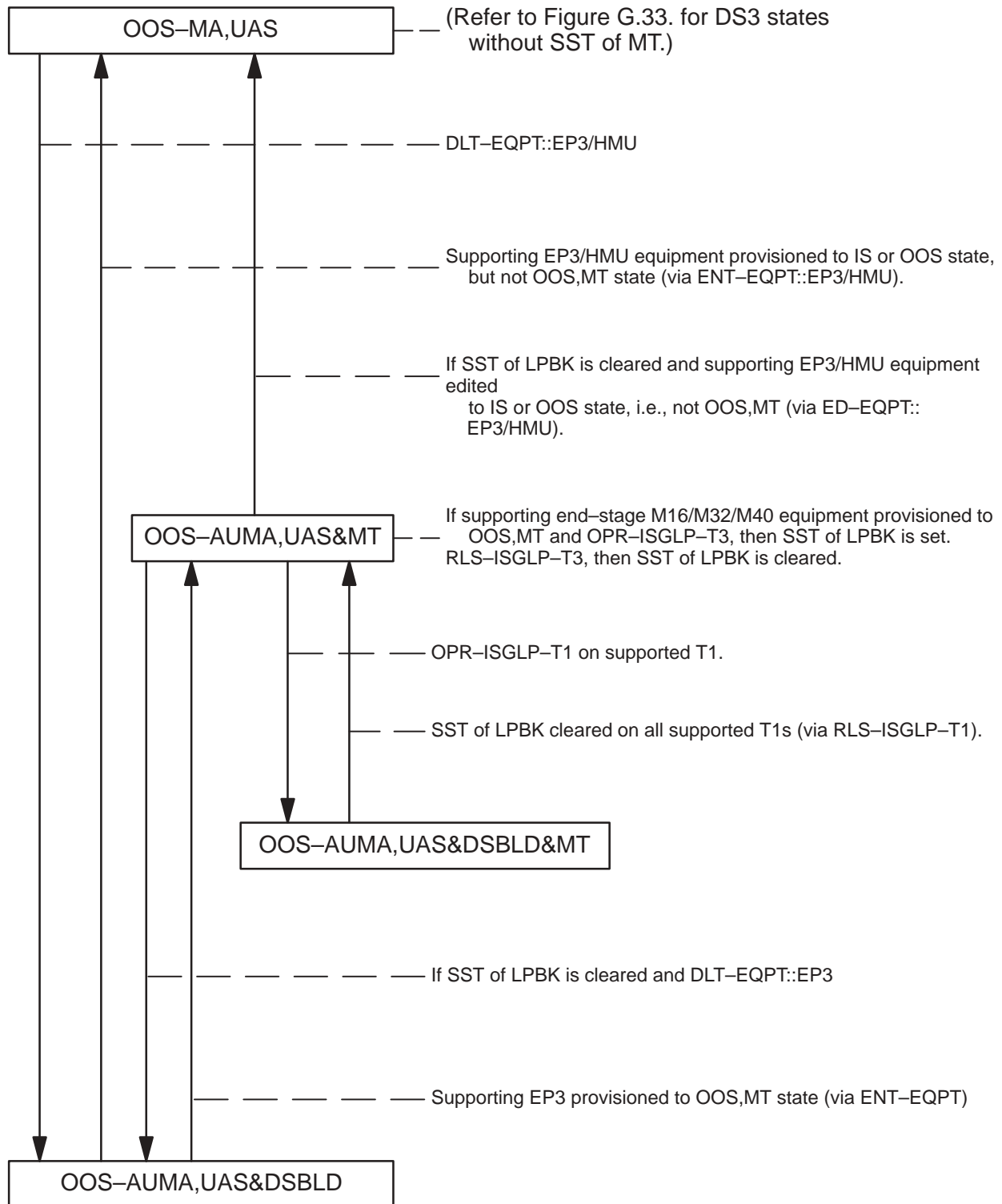
DS3 entity state transition diagrams are provided in Figures G.33. and G.34. Each state transition diagram shows the Primary State transitions for the DS3 entity, along with a description of the cause of the state transition. Figure G.33. shows DS3 entity state transitions when the DS3 entity does not have a SST of MT applied to it. Figure G.34. shows DS3 entity state transitions when the DS3 entity has a SST of MT applied to it, as when an in–service growth maintenance test is to be performed prior to provisioning of the DS3 entity.



Notes.

1. When a SST of UAS is set, then any SST of {ACT, AINS, BUSY, FAF, PMI, SDEE, SGEO, TRM, TS} is cleared.
2. The following SSTs are set for any PST state, as follows:
 - SST of ACT is set if the T3 is connected but has additional bandwidth available, otherwise ACT is cleared.
 - SST of BUSY is set if the T3 is connected but has no additional bandwidth available, otherwise BUSY is cleared.
 - SST of PMI is set if PM is inhibited via SET-PMMODE-T3, otherwise PMI is cleared if PM is enabled.
 - SST of SDEE is set if any subordinate T1 is provisioned (via ENT-T1), otherwise SDEE is cleared.
 - SST of TRM is set if any subordinate T1 has SST of {ACT, BUSY}, otherwise TRM is cleared.
 - SST of TS is set if the T3 or TAPP is connected for a test access operation, otherwise TS is cleared.

**Figure G.33. DS3 State Transitions
(DS3 Without DS3 SST of MT)**



Note. When SST of UAS is set, then any SST of {AINS, FAF, PMI, SDEE, TRM} is cleared.

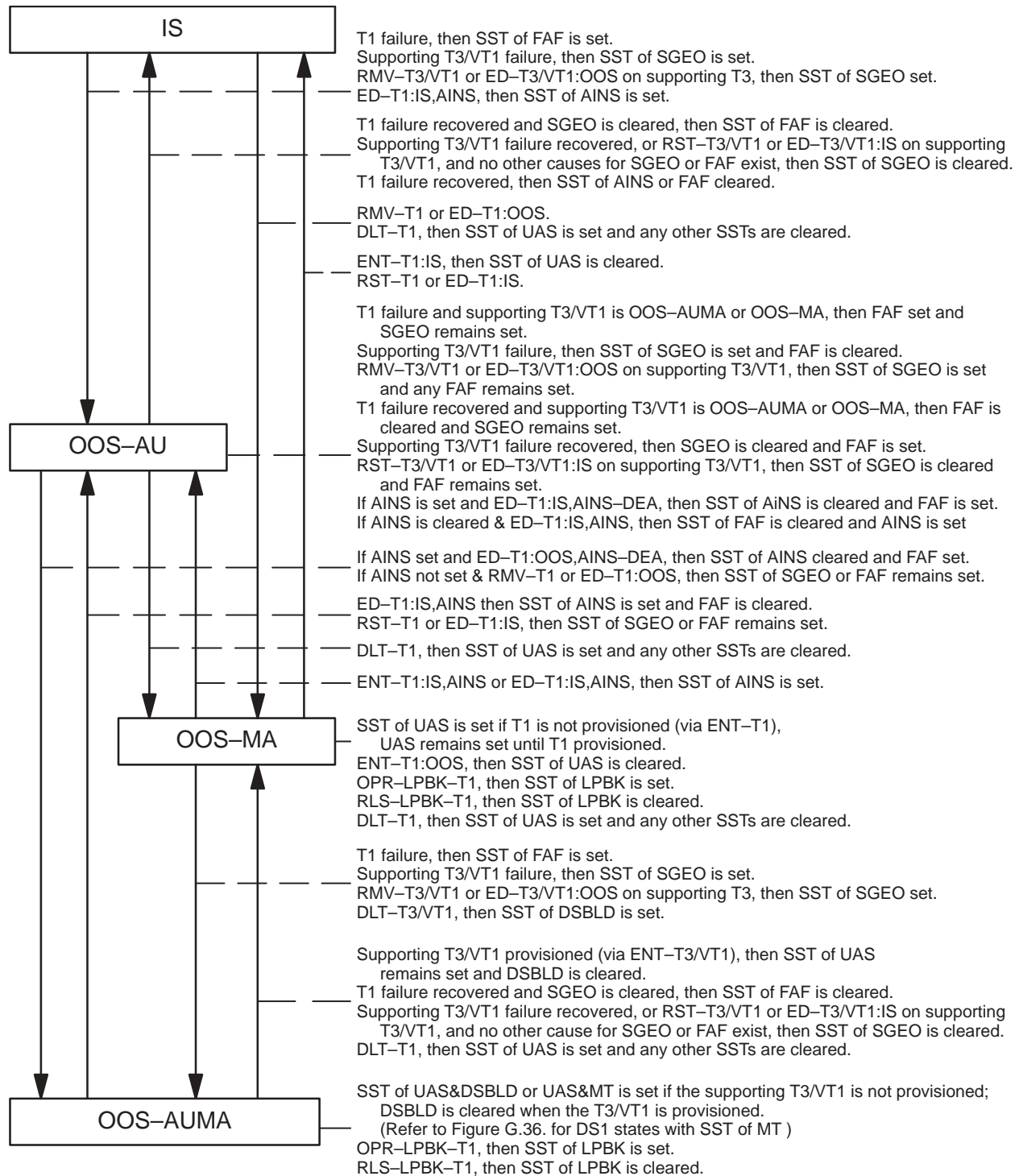
**Figure G.34. DS3 State Transitions
(Showing Affect of DS3 SST of MT)**

G.2.10. DS1 Entity State Transitions

The valid PST,SST combinations and applicable state values for DS1 entities is provided in Table G.10.

Table G.10. DS1 State Values		
PST Value	SST Values	
	Possible Cause of PST Change	Possible Additional SST Information
IS ¹		[[ACT BUSY}, PMI, ROLL, TS] ^{2, 3}
OOS–AU ¹	AINS [FAF, SGEO]	[[ACT BUSY}, PMI, ROLL, TS] ^{2, 3} [[ACT BUSY}, PMI, TS] ²
OOS–AUMA	[UAS] ^{1, 2} [UAS&DSBLD] ^{1, 2} [FAF, SGEO]	[MT {MT&LPBK}] ^{1, 2} [[ACT BUSY}, {LPBK TS}, PMI, ROLL] ^{1, 2, 3}
OOS–MA	[UAS]	[[ACT BUSY}, {LPBK TS}, PMI, ROLL,] ^{1, 2, 3}
Notes: 1. A Test Access Port (FAD A or FAD B) cannot be provisioned to a PST of IS or OOS–AU, or have a SST of {ACT, DSBLD, LPBK, MT, ROLL, UAS}. 2. An Idle Signal Source port will not have a SST of {ACT, BUSY, DSBLD, MT, ROLL, UAS}. 3. ROLL is a transitory state unless MAN rolling mode is being used.		

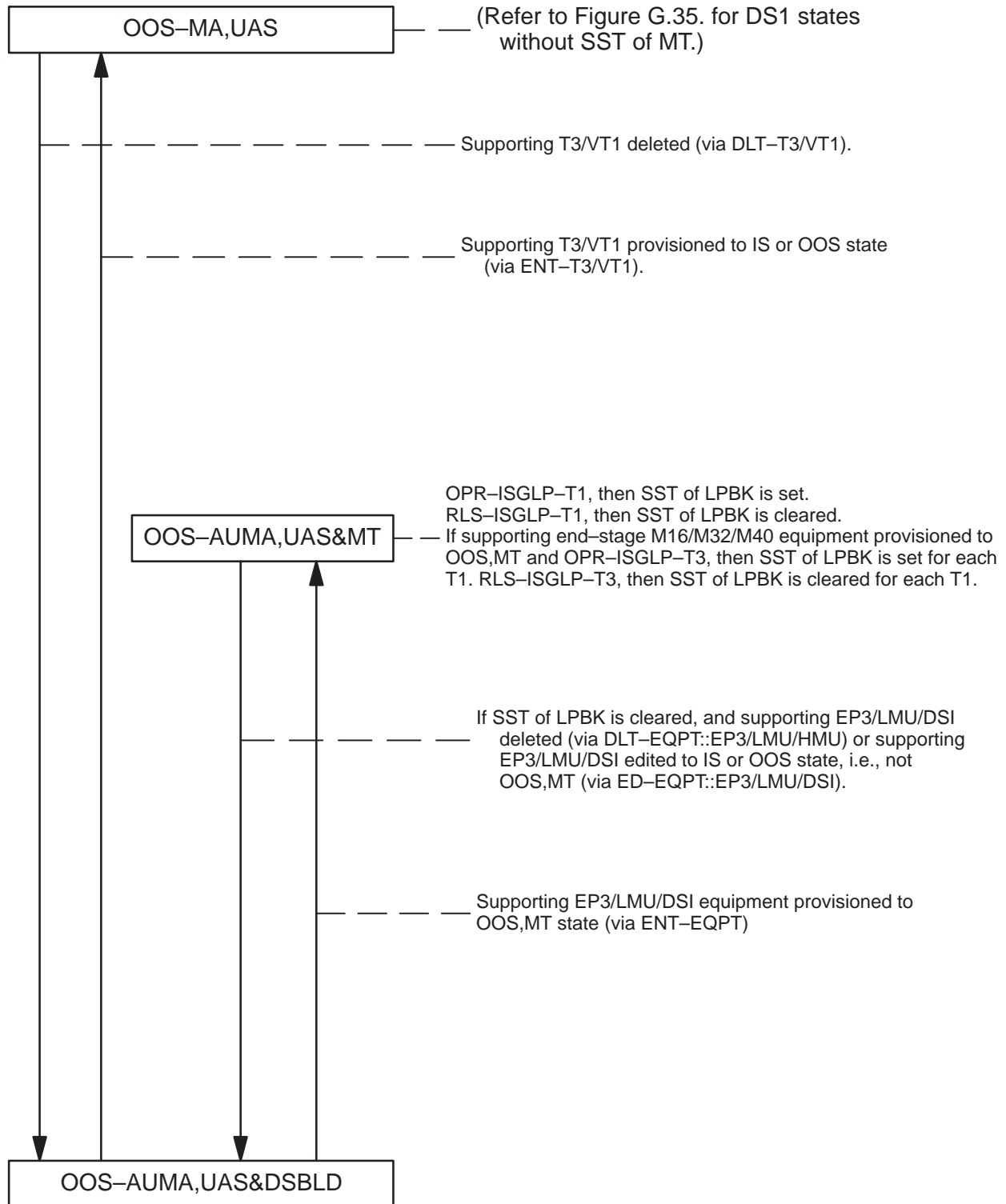
DS1 entity state transition diagrams are provided in Figures G.35. and G.36. Each state transition diagram shows possible Primary State transitions for the DS1 entity, along with a description of the cause of the state transition. Figure G.35. shows DS1 entity state transitions when the DS1 entity does not have a SST of MT applied to it. Figure G.36. shows DS1 entity state transitions when the DS1 entity has a SST of MT applied to it, as when an in–service growth maintenance test is to be performed prior to provisioning of the DS1 entity.



Notes.

1. When a SST of UAS is set, then any SST of {ACT, BUSY, FAF, PMI, SDEE, SGEO, TS} is cleared.
2. The following SSTs are set for any PST state, as follows:
 - SST of ACT is set if the T1 is connected but has additional bandwidth available (e.g., 1-Way connected, or 2-Way connected but not with a bridge), otherwise ACT is cleared.
 - SST of BUSY is set If the T1 is connected but has no additional bandwidth available (e.g., 2-Way connected with a bridge connection, a TAPP connected for test access), otherwise BUSY is cleared.
 - SST of PMI is set if PM is inhibited via SET-PMMODE-T1, otherwise PMI is cleared.
 - SST of TS is set if the T1 or TAPP are connected for a test access operation, otherwise TS is cleared.
 - SST of ROLL is temporarily set while the T1 is under a roll operation.

**Figure G.35. DS1 State Transitions
(DS1 Without DS1 SST of MT)**



Note. When SST of UAS is set, then any SST of {ACT, BUSY, FAF, PMI, ROLL, SDEE, SGEO, TS} is cleared.

**Figure G.36. DS1 State Transitions
(Showing Affect of DS1 SST of MT)**

G.2.11. F3 Entity State Transitions

The valid PST,SST combinations and applicable state values for F3 entities is provided in Table G.11.

Table G.11. F3 State Values		
PST Value	SST Values	
	Possible Cause of PST Change	Possible Additional SST Information
IS		[PMI]
OOS-AU	SGEO	[PMI]
OOS-AUMA	UAS&DSBLD	
OOS-MA	UAS	

The F3 entity state transition diagram is provided in Figure G.37. The state transition diagram shows possible Primary State transitions for the F3 entity, along with a description of the cause of the state transition.

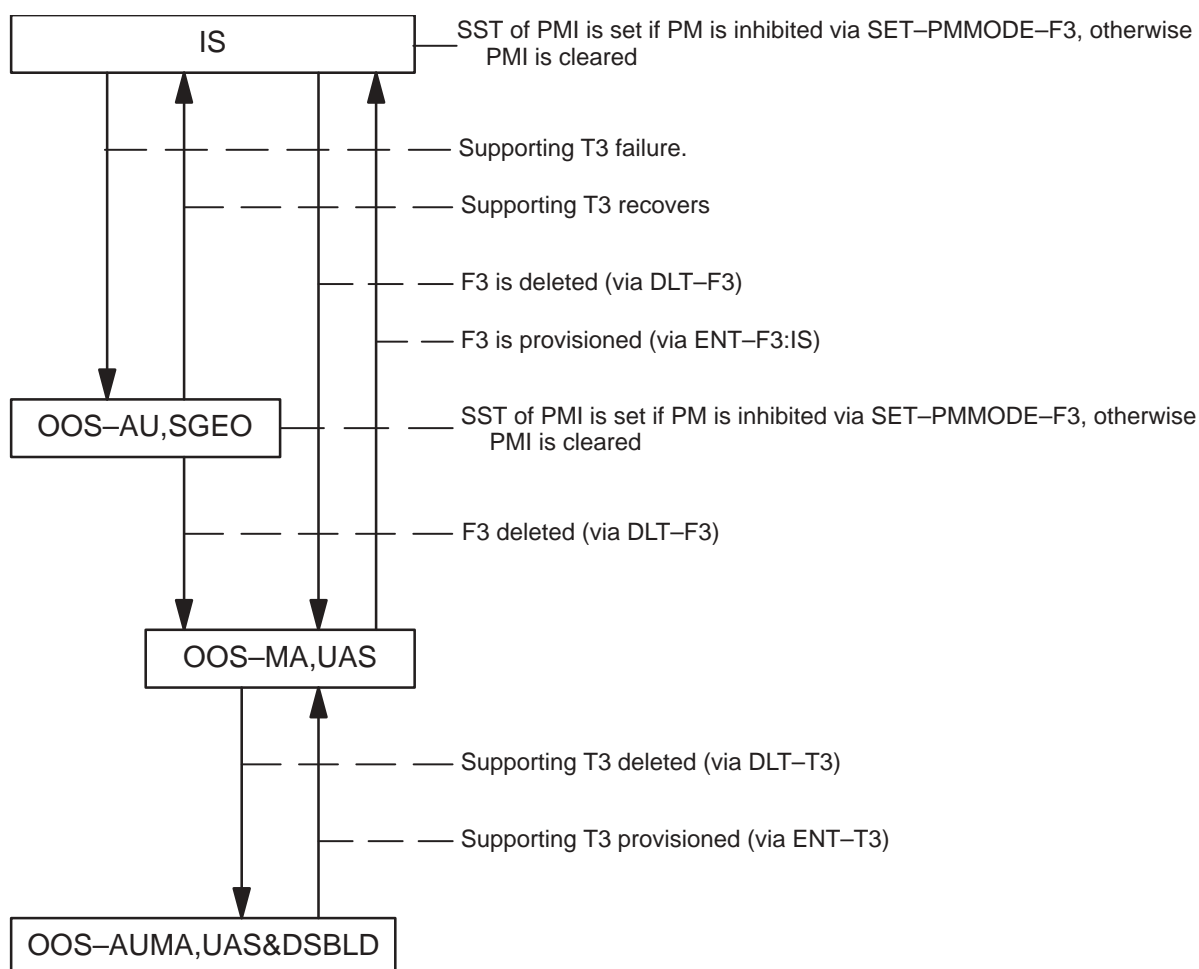


Figure G.37. F3 State Transitions

G.2.12. Timing Reference (TMG) State Transitions

The valid PST,SST combinations and applicable state values for Timing reference entities is provided in Table G.12.

Table G.12. Timing Reference (TMG) State Values		
PST Value	SST Values	
	Possible Cause of PST Change	Possible Additional SST Information
IS		[BUSY]
OOS-AU	FAF	
OOS-MA	UAS	

The Timing reference entity state transition diagram is provided in Figure G.38. The state transition diagram shows the Primary State transitions for the Timing reference entity, along with a description of the cause of the state transition.

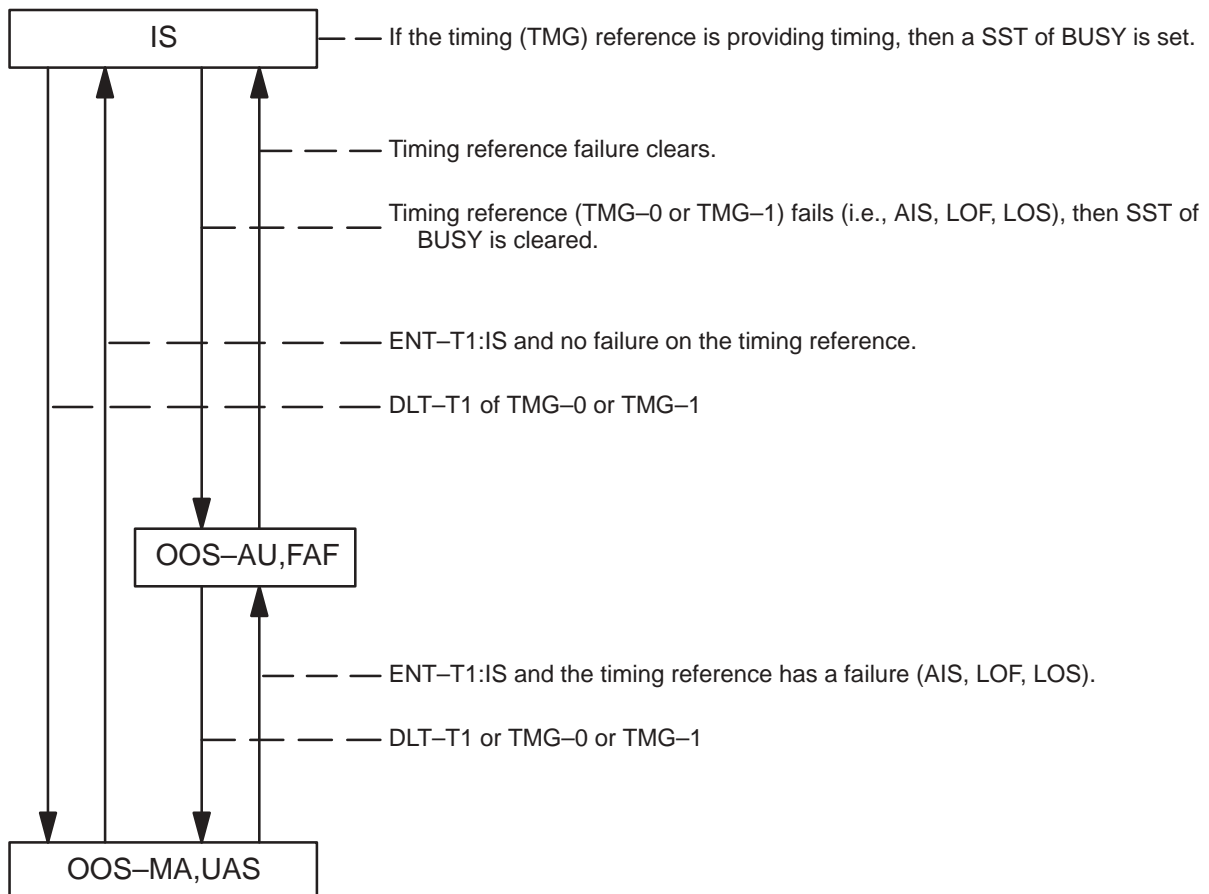


Figure G.38. Timing Reference (TMG-0 or TMG-1) State Transitions

G.2.13. Cross-Connect State Transitions

The valid PST,SST combinations and applicable state values for cross-connect entities is provided in Table G.13.

Table G.13. Cross-Connect State Values		
PST Value	SST Values	
	Possible Cause of PST Change	Possible Additional SST Information
IS		[{TERMB TERMF TERMT}, {TS ROLL}]
OOS-AU	SGEO	[{TERMB TERMF TERMT}, {TS ROLL}]

The cross-connect entity state transition diagram is provided in Figure G.39. The state transition diagram shows the Primary State transitions for the cross-connect entity, along with a description of the cause of the state transition.

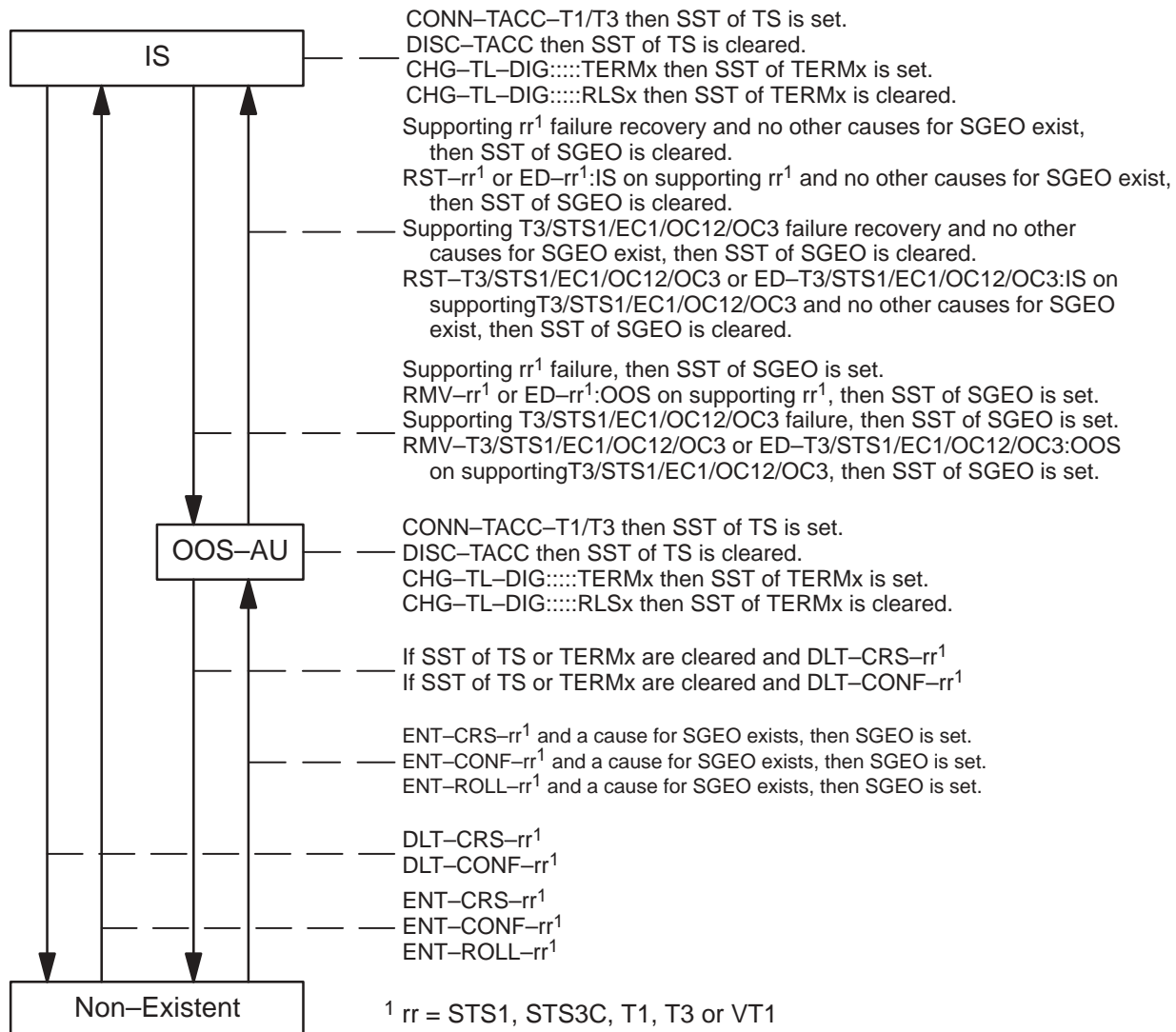


Figure G.39. Cross-Connect State Transitions

APPENDIX H. USER COMMAND PRIVILEGE DEFAULTS (CCAL & CCFC)

H.1. General

This appendix provides a list of the TL1 commands available in the 1631 SX and the associated user command privilege default setting provided with the system for each command. User command privileges are controlled by the command's CCAL (Command Community Authorization Level) and CCFC (Command Community Functional Category).

In general, each command is included in one or more of the following CCFC default groups:

- | | |
|---------|---|
| Group A | USI/User/Site Provisioning/Maintenance and User/Command Security commands. |
| Group B | Facility Provisioning and Connection commands. |
| Group C | Equipment Provisioning and Maintenance commands. |
| Group D | Alarms/Condition Provisioning commands. |
| Group E | Diagnostics and Fault Isolation commands. |
| Group F | NMA (Network Maintenance and Alarms) commands (ALLOW, DIGNOSE, INHIBIT, INIT, OPERATE, RELEASE, REMOVE, RESTORE, RETRIEVE, SCHEDULE, SET, SWITCH). Please refer to GR-833-CORE for commands of this category. |
| Group H | OPS/INE commands (ACTIVATE, CANCEL, COPY, DELETE, EDIT, ENTER, RETRIEVE). Please refer to GR-199-CORE for the commands of this category. |
| Group M | DTMS (DACS Transport Maintenance System) Maintenance Commands. |
| Group Y | Default Set of User Facility Partitioning commands. |
| Group Z | All 1631 SX commands. |

Note. The RTRV-DB-LABEL, RESTORE-DB and START-OPS commands can be executed from the Limited Command Entry mode or the Normal Command Entry mode of operation.

H.2. User Privilege Defaults

The following is an alphabetized list of TL1 commands and the associated system defaults for each command's CCAL and CCFC.

Table H1 User Privilege Defaults												
General Market (GM) & Green Commands	Default CCAL	Default CCFC Groups										Applicable Release (Blank=GM and Green)
		A	B	C	D	E	F	H	M	Y	Z	
ACT-DA	15	A							M		Z	
ACT-DB-BACKUP	15								M		Z	
ACT-EAU	31								M		Z	
ACT-USER	1	A through Z										
ALW-CBIT-T1	15		B						M		Z	
ALW-FL-EQPT	15					E			M		Z	
ALW-PMREPT-EC1	15						F		M		Z	
ALW-PMREPT-F3	15						F		M		Z	
ALW-PMREPT-OC12	15						F		M		Z	
ALW-PMREPT-OC3	15						F		M		Z	
ALW-PMREPT-STS1	15						F		M		Z	
ALW-PMREPT-STS3C	15						F		M		Z	
ALW-PMREPT-T1	15						F		M		Z	
ALW-PMREPT-T3	15						F		M		Z	
ALW-PMREPT-VT1	15						F		M		Z	
ALW-SW-EQPT	15			C			F		M		Z	
ALW-SWTOPROTN-EQPT	15			C			F		M		Z	
ALW-SWTOWKG-EQPT	15			C			F		M		Z	
CANC-DA	15	A							M		Z	
CANC-DB-BACKUP	15								M		Z	
CANC-EUA	31								M		Z	
CANC-USER	1	A through Z										
CHG-ACCMD-STS1	15		B						M		Z	
CHG-ACCMD-T1	15		B						M		Z	
CHG-ACCMD-T3	15		B						M		Z	
CHG-ACCMD-VT1	15		B						M		Z	
CHG-TL-DIG	15		B						M		Z	
CLR-ALM-EQPT	15			C	D				M		Z	

Table H1 User Privilege Defaults (Continued)													
General Market (GM) & Green Commands	Default CCAL	Default CCFC Groups										Applicable Release (Blank=GM and Green)	
		A	B	C	D	E	F	H	M	Y	Z		
CLR-DCC-STATS	30								M		Z		
CLR-LAN-STATS	30								M		Z		
CONN-TACC-STS1	15		B						M		Z		
CONN-TACC-T1	15		B						M		Z		
CONN-TACC-T3	15		B						M		Z		
CONN-TACC-VT1	15		B						M		Z		
CPY-MEM	30						F		M		Z		
DGN-EQPT	15				D	E	F		M		Z		
DISC-TACC	15		B						M		Z		
DISC-TACC-PRVG	25		B						M		Z		
DLT-CID	30	A							M		Z		
DLT-CID-VC	30	A							M		Z		
DLT-CONF-T1	15		B					H	M		Z		
DLT-CONF-VT1	15		B					H	M		Z		
DLT-CRS-STS1	15		B					H	M	Y	Z		
DLT-CRS-STS3C	15		B					H	M	Y	Z		
DLT-CRS-T1	15		B					H	M	Y	Z		
DLT-CRS-T3	15		B					H	M	Y	Z		
DLT-CRS-VT1	15		B					H	M	Y	Z		
DLT-EC1	15		B					H	M	Y	Z		
DLT-EQPT	30			C				H	M		Z		
DLT-F3	15		B					H	M	Y	Z		
DLT-FFP-OC12	15		B					H	M	Y	Z		
DLT-FFP-OC3	15		B					H	M	Y	Z		
DLT-FTP-USER	31	A							M		Z		
DLT-IP-FILTER	30								M		Z		
DLT-IP-PRMTR	30								M		Z		
DLT-IP-STATICRT	30								M		Z		
DLT-MAADDR	30								M		Z		
DLT-OC12	15		B					H	M	Y	Z		

Table H1 User Privilege Defaults (Continued)												
General Market (GM) & Green Commands	Default CCAL	Default CCFC Groups										Applicable Release (Blank=GM and Green)
		A	B	C	D	E	F	H	M	Y	Z	
DLT-OC3	15		B					H	M	Y	Z	
DLT-OSADDR-SITE	30	A							M		Z	
DLT-PARTITN	31	A							M		Z	
DLT-RNG-OC12	15		B					H	M	Y	Z	
DLT-RNG-OC3	15		B					H	M	Y	Z	
DLT-ROLL-T1	15		B					H	M		Z	
DLT-ROLL-VT1	15		B					H	M		Z	
DLT-ST51	15		B					H	M	Y	Z	
DLT-ST53C	15		B					H	M	Y	Z	
DLT-T1	15		B					H	M	Y	Z	
DLT-T3	15		B					H	M	Y	Z	
DLT-TARPADJ-DCC	30								M		Z	
DLT-TARPADJ-LAN	30								M		Z	
DLT-TARPLDB	30								M		Z	
DLT-USER	31	A							M		Z	
DLT-VT1	15		B					H	M	Y	Z	
ED-CID	30	A							M		Z	
ED-CID-LCTN	15	A							M		Z	
ED-CID-OSPORT	30	A							M		Z	
ED-CID-VC	30	A							M		Z	
ED-CONF-T1	30		B					H	M		Z	
ED-CONF-VT1	30		B					H	M		Z	
ED-CRS-ST51	15		B					H	M	Y	Z	
ED-CRS-ST53C	15		B					H	M	Y	Z	
ED-CRS-T1	15		B					H	M	Y	Z	
ED-CRS-T3	15		B					H	M	Y	Z	
ED-CRS-VT1	15		B					H	M	Y	Z	
ED-DAT	30	A							M		Z	
ED-EC1	15		B					H	M	Y	Z	
ED-EQPT	30			C				H	M		Z	

Table H1 User Privilege Defaults (Continued)												
General Market (GM) & Green Commands	Default CCAL	Default CCFC Groups										Applicable Release (Blank=GM and Green)
		A	B	C	D	E	F	H	M	Y	Z	
ED-F3	15		B					H	M	Y	Z	
ED-FFP-OC12	15		B					H	M	Y	Z	
ED-FFP-OC3	15		B					H	M	Y	Z	
ED-FFP-STS1	15		B					H	M	Y	Z	
ED-FFP-VT1	15		B					H	M	Y	Z	
ED-FLTPRO-STS1	30		B					H	M	Y	Z	GM
ED-FLTPRO-T1	30		B					H	M	Y	Z	GM
ED-FLTPRO-T3	30		B					H	M	Y	Z	GM
ED-FLTPRO-VT1	30		B					H	M	Y	Z	GM
ED-FTP-USER	31	A						H	M		Z	
ED-GROUP-CMD	31	A							M		Z	
ED-IP-PRMTR	30								M		Z	
ED-IP-STATICRT	30								M		Z	
ED-LLLAN	30								M		Z	
ED-LLLDCC	30								M		Z	
ED-LLSDCC	30								M		Z	
ED-MAADDR	30								M		Z	
ED-OC12	15		B					H	M	Y	Z	
ED-OC3	15		B					H	M	Y	Z	
ED-OSADDR-SITE	30	A							M		Z	
ED-PARTITN-EC1	31	A							M		Z	GM
ED-PARTITN-F3	31	A							M		Z	
ED-PARTITN-OC12	31	A							M		Z	GM
ED-PARTITN-OC3	31	A							M		Z	GM
ED-PARTITN-STS1	31	A							M		Z	GM
ED-PARTITN-STS3C	31	A							M		Z	GM
ED-PARTITN-T1	31	A							M		Z	
ED-PARTITN-T3	31	A							M		Z	
ED-PARTITN-VT1	31	A							M		Z	GM
ED-PID	15								M		Z	

Table H1 User Privilege Defaults (Continued)												
General Market (GM) & Green Commands	Default CCAL	Default CCFC Groups										Applicable Release (Blank=GM and Green)
		A	B	C	D	E	F	H	M	Y	Z	
ED-PRMTR-NE	30	A							M		Z	
ED-PRMTR-SITE	30	A							M		Z	
ED-PRVG-CMD	31	A						H	M		Z	
ED-PRVG-USER	15	A						H	M		Z	
ED-RIP-PRMTR	30								M		Z	
ED-RNG-OC12	15		B					H	M	Y	Z	
ED-RNG-OC3	15		B					H	M	Y	Z	
ED-ST51	15		B					H	M	Y	Z	
ED-ST53C	15		B					H	M	Y	Z	
ED-T1	15		B					H	M	Y	Z	
ED-T3	15		B					H	M	Y	Z	
ED-T3ID	15		B						M		Z	Green
ED-TARPADJ-DCC	30								M		Z	
ED-TARPADJ-LAN	30								M		Z	
ED-ULCOMPMR	30								M		Z	
ED-ULLAN	30								M		Z	
ED-ULLDCC	30								M		Z	
ED-ULSDCC	30								M		Z	
ED-VT1	15		B					H	M	Y	Z	
ENT-CID	30	A							M		Z	
ENT-CID-VC	30	A							M		Z	
ENT-CONF-T1	15		B					H	M		Z	
ENT-CONF-VT1	15		B					H	M		Z	
ENT-CRS-ST51	15		B					H	M	Y	Z	
ENT-CRS-ST53C	15		B					H	M	Y	Z	
ENT-CRS-T1	15		B					H	M	Y	Z	
ENT-CRS-T3	15		B					H	M	Y	Z	
ENT-CRS-VT1	15		B					H	M	Y	Z	
ENT-EC1	15		B					H	M	Y	Z	
ENT-EQPT	30			C				H	M		Z	

Table H1 User Privilege Defaults (Continued)												
General Market (GM) & Green Commands	Default CCAL	Default CCFC Groups										Applicable Release (Blank=GM and Green)
		A	B	C	D	E	F	H	M	Y	Z	
ENT-F3	15		B					H	M	Y	Z	
ENT-FFP-OC12	15		B					H	M	Y	Z	
ENT-FFP-OC3	15		B					H	M	Y	Z	
ENT-FTP-USER	31	A						H	M		Z	
ENT-IP-FILTER	30								M		Z	
ENT-IP-PRMTR	30								M		Z	
ENT-IP-STATICRT	30								M		Z	
ENT-MAADDR	30								M		Z	
ENT-OC12	15		B					H	M	Y	Z	
ENT-OC3	15		B					H	M	Y	Z	
ENT-OSADDR-SITE	30	A							M		Z	
ENT-PARTITN	31	A							M		Z	
ENT-RNG-OC12	15		B					H	M	Y	Z	
ENT-RNG-OC3	15		B					H	M	Y	Z	
ENT-ROLL-T1	15		B					H	M		Z	
ENT-ROLL-VT1	15		B					H	M		Z	
ENT-ST1	15		B					H	M	Y	Z	
ENT-ST13C	15		B					H	M	Y	Z	
ENT-T1	15		B					H	M	Y	Z	
ENT-T3	15		B					H	M	Y	Z	
ENT-TARPADJ-DCC	30								M		Z	
ENT-TARPADJ-LAN	30								M		Z	
ENT-USER	31	A						H	M		Z	
ENT-VT1	15		B					H	M	Y	Z	
FLTLOC-PATH-ST1	15			C		E			M		Z	
FLTLOC-PATH-ST13C	15			C		E			M		Z	
FLTLOC-PATH-T1	15			C		E			M		Z	
FLTLOC-PATH-T3	15			C		E			M		Z	
FLTLOC-PATH-VT1	15			C		E			M		Z	
INH-CBIT-T1	15		B						M		Z	

Table H1 User Privilege Defaults (Continued)												
General Market (GM) & Green Commands	Default CCAL	Default CCFC Groups										Applicable Release (Blank=GM and Green)
		A	B	C	D	E	F	H	M	Y	Z	
INH-FL-EQPT	15					E			M		Z	
INH-PMREPT-EC1	15						F		M		Z	
INH-PMREPT-F3	15						F		M		Z	
INH-PMREPT-OC12	15						F		M		Z	
INH-PMREPT-OC3	15						F		M		Z	
INH-PMREPT-ST1	15						F		M		Z	
INH-PMREPT-ST3C	15						F		M		Z	
INH-PMREPT-T1	15						F		M		Z	
INH-PMREPT-T3	15						F		M		Z	
INH-PMREPT-VT1	15						F		M		Z	
INH-SW-EQPT	15			C			F		M		Z	
INH-SWTOPTOTN-EQPT	15			C			F		M		Z	
INH-SWTOWKG-EQPT	15			C			F		M		Z	
INIT-REG-EC1	15		B				F		M		Z	
INIT-REG-F3	15		B				F		M		Z	
INIT-REG-OC12	15		B				F		M		Z	
INIT-REG-OC3	15		B				F		M		Z	
INIT-REG-ST1	15		B				F		M		Z	
INIT-REG-ST3C	15		B				F		M		Z	
INIT-REG-T1	15		B				F		M		Z	
INIT-REG-T3	15		B				F		M		Z	
INIT-REG-VT1	15		B				F		M		Z	
INIT-SYS	30								M		Z	
INIT-SYS-NEW	31								M		Z	
INIT-SYS-OLD	31								M		Z	
OPR-ACO-ALL	15				D				M		Z	
OPR-ISGLP-ST1	15			C					M		Z	
OPR-ISGLP-T1	15			C					M		Z	
OPR-ISGLP-T3	15			C					M		Z	
OPR-ISGLP-VT1	15			C					M		Z	

Table H1 User Privilege Defaults (Continued)												
General Market (GM) & Green Commands	Default CCAL	Default CCFC Groups										Applicable Release (Blank=GM and Green)
		A	B	C	D	E	F	H	M	Y	Z	
OPR-LPBK-EC1	15		B				F	H	M		Z	
OPR-LPBK-OC12	15		B				F	H	M		Z	
OPR-LPBK-OC3	15		B				F	H	M		Z	
OPR-LPBK-STs1	15		B				F	H	M		Z	
OPR-LPBK-STs3C	15		B				F	H	M		Z	
OPR-LPBK-T1	15		B				F	H	M		Z	
OPR-LPBK-T3	15		B				F	H	M		Z	
OPR-LPBK-VT1	15		B				F	H	M		Z	
OPR-PROTNSW-OC12	15		B				F	H	M		Z	
OPR-PROTNSW-OC3	15		B				F	H	M		Z	
OPR-PROTNSW-STs1	15		B				F	H	M		Z	
OPR-PROTNSW-VT1	15		B				F	H	M		Z	
OPR-SYNCNSW	15		B				F	H	M		Z	
REPT-INITZN	15		B						M		Z	
REPT-STAT	15		B						M		Z	
RESTORE-DB	30								M		Z	
RLS-ISGLP-STs1	15			C					M		Z	
RLS-ISGLP-T1	15			C					M		Z	
RLS-ISGLP-T3	15			C					M		Z	
RLS-ISGLP-VT1	15			C					M		Z	
RLS-LPBK-EC1	15		B				F	H	M		Z	
RLS-LPBK-OC12	15		B				F	H	M		Z	
RLS-LPBK-OC3	15		B				F	H	M		Z	
RLS-LPBK-STs1	15		B				F	H	M		Z	
RLS-LPBK-STs3C	15		B				F	H	M		Z	
RLS-LPBK-T1	15		B				F	H	M		Z	
RLS-LPBK-T3	15		B				F	H	M		Z	
RLS-LPBK-VT1	15		B				F	H	M		Z	
RLS-PROTNSW-OC12	15		B				F	H	M		Z	
RLS-PROTNSW-OC3	15		B				F	H	M		Z	

Table H1 User Privilege Defaults (Continued)												
General Market (GM) & Green Commands	Default CCAL	Default CCFC Groups										Applicable Release (Blank=GM and Green)
		A	B	C	D	E	F	H	M	Y	Z	
RLS-PROTNSW-ST51	15		B				F	H	M		Z	
RLS-PROTNSW-VT1	15		B				F	H	M		Z	
RLS-SYNCNSW	15		B				F		M		Z	
RMV-CID	30	A							M		Z	
RMV-EC1	15		B				F		M	Y	Z	
RMV-EQPT	15			C			F		M		Z	
RMV-ISU-OLD	31								M		Z	
RMV-OC12	15		B				F		M	Y	Z	
RMV-OC3	15		B				F		M	Y	Z	
RMV-ST51	15		B				F		M	Y	Z	
RMV-ST53C	15		B				F		M	Y	Z	
RMV-T1	15		B				F		M	Y	Z	
RMV-T3	15		B				F		M	Y	Z	
RMV-VT1	15		B				F		M	Y	Z	
RPGM-EQPT	30								M		Z	
RST-CID	30	A							M		Z	
RST-EC1	15		B				F		M	Y	Z	
RST-EQPT	15			C			F		M		Z	
RST-OC12	15		B				F		M	Y	Z	
RST-OC3	15		B				F		M	Y	Z	
RST-ST51	15		B				F		M	Y	Z	
RST-ST53C	15		B				F		M	Y	Z	
RST-T1	15		B				F		M	Y	Z	
RST-T3	15		B				F		M	Y	Z	
RST-TAP-DIG	15		B						M		Z	
RST-VT1	15		B				F		M	Y	Z	
RTRV-AAID-EQPT	15	A							M		Z	
RTRV-ACO-ALL	15				D		F		M		Z	
RTRV-ALM-ALL	15				D		F		M		Z	
RTRV-ALM-COM	15			C	D		F		M		Z	

Table H1 User Privilege Defaults (Continued)												
General Market (GM) & Green Commands	Default CCAL	Default CCFC Groups										Applicable Release (Blank=GM and Green)
		A	B	C	D	E	F	H	M	Y	Z	
RTRV-ALM-EC1	15		B		D		F		M		Z	
RTRV-ALM-EQPT	15			C	D		F		M		Z	
RTRV-ALM-F3	15		B		D		F		M		Z	
RTRV-ALM-OC12	15		B		D		F		M		Z	
RTRV-ALM-OC3	15		B		D		F		M		Z	
RTRV-ALM-STS1	15		B		D		F		M		Z	
RTRV-ALM-STS3C	15		B		D		F		M		Z	
RTRV-ALM-SUM	15				D		F		M		Z	
RTRV-ALM-T1	15		B		D		F		M		Z	
RTRV-ALM-T3	15		B		D		F		M		Z	
RTRV-ALM-VT1	15		B		D		F		M		Z	
RTRV-ATTR-COM	15			C	D		F		M		Z	
RTRV-ATTR-EC1	15		B		D		F		M		Z	
RTRV-ATTR-EQPT	15			C	D		F		M		Z	
RTRV-ATTR-F3	15		B		D		F		M		Z	
RTRV-ATTR-OC12	15		B		D		F		M		Z	
RTRV-ATTR-OC3	15		B		D		F		M		Z	
RTRV-ATTR-STS1	15		B		D		F		M		Z	
RTRV-ATTR-STS3C	15		B		D		F		M		Z	
RTRV-ATTR-T1	15		B		D		F		M		Z	
RTRV-ATTR-T3	15		B		D		F		M		Z	
RTRV-ATTR-VT1	15		B		D		F		M		Z	
RTRV-BUS-STATUS	15				D	E			M		Z	
RTRV-CID	15	A							M		Z	
RTRV-CKTID	15		B					H	M	Y	Z	
RTRV-COND-ALL	15				D		F				Z	
RTRV-COND-COM	15			C	D		F		M		Z	
RTRV-COND-EC1	15		B		D		F				Z	
RTRV-COND-F3	15		B		D		F				Z	
RTRV-COND-EQPT	15			C	D		F		M		Z	

Table H1 User Privilege Defaults (Continued)												
General Market (GM) & Green Commands	Default CCAL	Default CCFC Groups										Applicable Release (Blank=GM and Green)
		A	B	C	D	E	F	H	M	Y	Z	
RTRV-COND-OC12	15		B		D		F				Z	
RTRV-COND-OC3	15		B		D		F				Z	
RTRV-COND-ST51	15		B		D		F				Z	
RTRV-COND-ST53C	15		B		D		F				Z	
RTRV-COND-T1	15		B		D		F				Z	
RTRV-COND-T3	15		B		D		F				Z	
RTRV-COND-VT1	15		B		D		F				Z	
RTRV-CONF-T1	15		B					H	M		Z	
RTRV-CONF-VT1	15		B					H	M		Z	
RTRV-CRS	15		B					H	M	Y	Z	
RTRV-CRS-ALL	15		B					H	M	Y	Z	GM
RTRV-CRS-ST51	15		B					H	M	Y	Z	
RTRV-CRS-ST53C	15		B					H	M	Y	Z	
RTRV-CRS-T1	15		B					H	M	Y	Z	
RTRV-CRS-T3	15		B					H	M	Y	Z	
RTRV-CRS-VT1	15		B					H	M	Y	Z	
RTRV-DA	15		B						M		Z	
RTRV-DB-LABEL	15								M		Z	
RTRV-DCC-STATS	15								M		Z	
RTRV-DFLT-EC1	15		B						M		Z	
RTRV-DFLT-OC12	15		B						M		Z	
RTRV-DFLT-OC3	15		B						M		Z	
RTRV-DFLT-SECU	31	A		C					M		Z	
RTRV-DFLT-ST51	15		B						M		Z	
RTRV-DFLT-ST53C	15		B						M		Z	
RTRV-DFLT-T1	15		B						M		Z	
RTRV-DFLT-T3	15		B						M		Z	
RTRV-DFLT-VT1	15		B						M		Z	
RTRV-DFLTATTR-EC1	30				D				M		Z	
RTRV-DFLTATTR-F3	30				D				M		Z	

Table H1 User Privilege Defaults (Continued)												
General Market (GM) & Green Commands	Default CCAL	Default CCFC Groups										Applicable Release (Blank=GM and Green)
		A	B	C	D	E	F	H	M	Y	Z	
RTRV-DFLTATTR-OC12	30				D				M		Z	
RTRV-DFLTATTR-OC3	30				D				M		Z	
RTRV-DFLTATTR-ST51	30				D				M		Z	
RTRV-DFLTATTR-ST53C	30				D				M		Z	
RTRV-DFLTATTR-T1	30				D				M		Z	
RTRV-DFLTATTR-T3	30				D				M		Z	
RTRV-DFLTATTR-VT1	30				D				M		Z	
RTRV-DFLTPMREPT-EC1	15						F				Z	
RTRV-DFLTPMREPT-F3	15						F				Z	
RTRV-DFLTPMREPT-OC12	15						F				Z	
RTRV-DFLTPMREPT-OC3	15						F				Z	
RTRV-DFLTPMREPT-ST51	15						F				Z	
RTRV-DFLTPMREPT-ST53C	15						F				Z	
RTRV-DFLTPMREPT-T1	15						F				Z	
RTRV-DFLTPMREPT-T3	15						F				Z	
RTRV-DFLTPMREPT-VT1	15						F				Z	
RTRV-DFLTTH-EC1	30				D				M		Z	
RTRV-DFLTTH-OC12	30				D				M		Z	
RTRV-DFLTTH-OC3	30				D				M		Z	
RTRV-DFLTTH-ST51	30				D				M		Z	
RTRV-DFLTTH-ST53C	30				D				M		Z	
RTRV-DFLTTH-T1	30				D				M		Z	
RTRV-DFLTTH-T3	30				D				M		Z	
RTRV-DFLTTH-VT1	30				D				M		Z	
RTRV-DGN-STATUS	15				D	E			M		Z	
RTRV-EC1	15		B					H	M	Y	Z	
RTRV-ELF	30	A							M		Z	
RTRV-EQPT	15		B	C				H	M		Z	
RTRV-F3	15		B					H	M	Y	Z	
RTRV-FAC-SUM	15		B					H	M	Y	Z	

Table H1 User Privilege Defaults (Continued)													
General Market (GM) & Green Commands	Default CCAL	Default CCFC Groups										Applicable Release (Blank=GM and Green)	
		A	B	C	D	E	F	H	M	Y	Z		
RTRV-FEDATA-T1	15										Z		
RTRV-FFP-OC12	15		B					H	M	Y	Z		
RTRV-FFP-OC3	15		B					H	M	Y	Z		
RTRV-FFP-STS1	15		B					H	M	Y	Z		
RTRV-FFP-VT1	15		B					H	M	Y	Z		
RTRV-FL-EQPT	15					E			M		Z		
RTRV-FLTPRO-STS1	15		B					H	M	Y	Z	GM	
RTRV-FLTPRO-T1	15		B					H	M	Y	Z	GM	
RTRV-FLTPRO-T3	15		B					H	M	Y	Z	GM	
RTRV-FLTPRO-VT1	15		B					H	M	Y	Z	GM	
RTRV-FTP-USER	31	A						H	M		Z		
RTRV-GOS-EC1	15				D				M		Z		
RTRV-GOS-OC12	15				D				M		Z		
RTRV-GOS-OC3	15				D				M		Z		
RTRV-GOS-STS1	15				D				M		Z		
RTRV-GOS-STS3C	15				D				M		Z		
RTRV-GOS-T1	15				D				M		Z		
RTRV-GOS-T3	15				D				M		Z		
RTRV-GOS-VT1	15				D				M		Z		
RTRV-GTI-STATUS	15					E			M		Z		
RTRV-HDR	15	A					F	H		Y	Z		
RTRV-IP-FILTER	30								M		Z		
RTRV-IP-PRMTR	30								M		Z		
RTRV-IP-STATICRT	30								M		Z		
RTRV-ISGLP-ALL	15			C					M		Z		
RTRV-ISID-T1	15					E	F				Z		
RTRV-ISU-STATUS	15								M		Z		
RTRV-ITMRSLT	30	A							M		Z		
RTRV-LAN-STATS	15								M		Z		
RTRV-LLLAN	15								M		Z		

Table H1 User Privilege Defaults (Continued)													
General Market (GM) & Green Commands	Default CCAL	Default CCFC Groups										Applicable Release (Blank=GM and Green)	
		A	B	C	D	E	F	H	M	Y	Z		
RTRV-LLLDCC	15								M		Z		
RTRV-LLSDCC	15								M		Z		
RTRV-LPBK-EC1	15		B					H	M		Z		
RTRV-LPBK-OC12	15		B					H	M		Z		
RTRV-LPBK-OC3	15		B					H	M		Z		
RTRV-LPBK-ST51	15		B					H	M		Z		
RTRV-LPBK-ST53C	15		B					H	M		Z		
RTRV-LPBK-T1	15		B					H	M		Z		
RTRV-LPBK-T3	15		B					H	M		Z		
RTRV-LPBK-VT1	15		B					H	M		Z		
RTRV-MAADDR	15								M		Z		
RTRV-MON-CPORT	15	A							M		Z		
RTRV-MTX	15			C					M		Z		
RTRV-NODEID	30	A							M		Z		
RTRV-NSAP	15								M		Z		
RTRV-OC12	15		B					H	M	Y	Z		
RTRV-OC3	15		B					H	M	Y	Z		
RTRV-OSADDR-SITE	15	A							M		Z		
RTRV-OVRHD-OC12	15								M		Z		
RTRV-OVRHD-OC3	15								M		Z		
RTRV-OVRHD-ST51	15								M		Z		
RTRV-OVRHD-ST53C	15								M		Z		
RTRV-PARTITN	15								M	Y	Z		
RTRV-PATH-ST51	15			C					M		Z		
RTRV-PATH-ST53C	15			C					M		Z		
RTRV-PATH-T1	15			C					M		Z		
RTRV-PATH-T3	15			C					M		Z		
RTRV-PATH-VT1	15			C					M		Z		
RTRV-PFO	31	A							M		Z		
RTRV-PM-EC1	15		B				F				Z		

Table H1 User Privilege Defaults (Continued)												
General Market (GM) & Green Commands	Default CCAL	Default CCFC Groups										Applicable Release (Blank=GM and Green)
		A	B	C	D	E	F	H	M	Y	Z	
RTRV-PM-F3	15		B				F				Z	
RTRV-PM-OC12	15		B				F				Z	
RTRV-PM-OC3	15		B				F				Z	
RTRV-PM-ST51	15		B				F				Z	
RTRV-PM-ST53C	15		B				F				Z	
RTRV-PM-T1	15		B				F				Z	
RTRV-PM-T3	15		B				F				Z	
RTRV-PM-VT1	15		B				F				Z	
RTRV-PMATTR-ALL	15		B		D						Z	
RTRV-PMMODE-EC1	15		B		D		F				Z	
RTRV-PMMODE-F3	15		B		D		F				Z	
RTRV-PMMODE-OC12	15		B		D		F				Z	
RTRV-PMMODE-OC3	15		B		D		F				Z	
RTRV-PMMODE-ST51	15		B		D		F				Z	
RTRV-PMMODE-ST53C	15		B		D		F				Z	
RTRV-PMMODE-T1	15		B		D		F				Z	
RTRV-PMMODE-T3	15		B		D		F				Z	
RTRV-PMMODE-VT1	15		B		D		F				Z	
RTRV-PMSCHED-ALL	15										Z	
RTRV-PMSCHED-EC1	15						F				Z	
RTRV-PMSCHED-F3	15						F				Z	
RTRV-PMSCHED-OC12	15						F				Z	
RTRV-PMSCHED-OC3	15						F				Z	
RTRV-PMSCHED-ST51	15						F				Z	
RTRV-PMSCHED-ST53C	15						F				Z	
RTRV-PMSCHED-T1	15						F				Z	
RTRV-PMSCHED-T3	15						F				Z	
RTRV-PMSCHED-VT1	15						F				Z	
RTRV-POOL	15		B						M		Z	
RTRV-PRMTR-NE	30			C					M		Z	

Table H1 User Privilege Defaults (Continued)												
General Market (GM) & Green Commands	Default CCAL	Default CCFC Groups										Applicable Release (Blank=GM and Green)
		A	B	C	D	E	F	H	M	Y	Z	
RTRV-PRMTR-SITE	15	A		C					M		Z	
RTRV-PROCSTAT-EQPT	15			C		E			M		Z	
RTRV-PRVG-CMD	15	A						H	M		Z	
RTRV-PRVG-USER	15	A						H	M		Z	
RTRV-PTHTRC-ST51	15					E	F		M		Z	
RTRV-PTHTRC-ST53C	15					E	F		M		Z	
RTRV-RDL-ALL	15		B					H	M	Y	Z	
RTRV-RIP-PRMTR	15						F		M		Z	
RTRV-RNG-OC12	15		B					H	M	Y	Z	
RTRV-RNG-OC3	15		B					H	M	Y	Z	
RTRV-ROLL-ALL	15		B					H	M		Z	
RTRV-ROLL-T1	15		B					H	M		Z	
RTRV-ROLL-VT1	15		B					H	M		Z	
RTRV-SID	15	A						H	M		Z	Green
RTRV-STATE-EQPT	15			C					M		Z	
RTRV-ST51	15		B					H	M	Y	Z	
RTRV-ST53C	15		B					H	M	Y	Z	
RTRV-STWR-VSN	30								M		Z	
RTRV-SYSTMSG-OC12	15					E	F		M		Z	
RTRV-SYSTMSG-OC3	15					E	F		M		Z	
RTRV-SYSTMSG-T1	15					E	F		M		Z	
RTRV-T1	15		B					H	M	Y	Z	
RTRV-T3	15		B					H	M	Y	Z	
RTRV-T3ID	15		B					H	M		Z	Green
RTRV-TACC	15		B								Z	
RTRV-TARPADJ-DCC	15								M		Z	
RTRV-TARPADJ-LAN	15								M		Z	
RTRV-TARPLDB	15								M		Z	
RTRV-TH-EC1	15		B						M		Z	
RTRV-TH-OC12	15		B				F		M		Z	

Table H1 User Privilege Defaults (Continued)												
General Market (GM) & Green Commands	Default CCAL	Default CCFC Groups										Applicable Release (Blank=GM and Green)
		A	B	C	D	E	F	H	M	Y	Z	
RTRV–TH–OC3	15		B				F		M		Z	
RTRV–TH–STS1	15		B				F		M		Z	
RTRV–TH–STS3C	15		B				F		M		Z	
RTRV–TH–T1	15		B				F		M		Z	
RTRV–TH–T3	15		B				F		M		Z	
RTRV–TH–VT1	15		B				F		M		Z	
RTRV–TPMMODE–T3	15										Z	Green
TRV–TRID–T3	15		B						M		Z	Green
RTRV–TSID–T1	15		B						M		Z	Green
RTRV–ULCOMPMR	15								M		Z	
RTRV–ULLAN	15								M		Z	
RTRV–ULLDCC	15								M		Z	
RTRV–ULSDCC	15								M		Z	
RTRV–VT1	15		B					H	M	Y	Z	
RTRV–XIDMISM	15			C		E			M		Z	
SCHED–PMREPT–ALL	15						F				Z	
SCHED–PMREPT–EC1	15						F				Z	
SCHED–PMREPT–F3	15						F				Z	
SCHED–PMREPT–OC12	15						F				Z	
SCHED–PMREPT–OC3	15						F				Z	
SCHED–PMREPT–STS1	15						F				Z	
SCHED–PMREPT–STS3C	15						F				Z	
SCHED–PMREPT–T1	15						F				Z	
SCHED–PMREPT–T3	15						F				Z	
SCHED–PMREPT–VT1	15						F				Z	
SELECT–COPY	30	A							M		Z	
SET–ACO–ALL	15				D		F		M		Z	
SET–ATTR–COM	15				D		F		M		Z	
SET–ATTR–EC1	15				D		F		M		Z	
SET–ATTR–EQPT	15				D		F		M		Z	

Table H1 User Privilege Defaults (Continued)												
General Market (GM) & Green Commands	Default CCAL	Default CCFC Groups										Applicable Release (Blank=GM and Green)
		A	B	C	D	E	F	H	M	Y	Z	
SET-ATTR-F3	15				D		F		M		Z	
SET-ATTR-OC12	15				D		F		M		Z	
SET-ATTR-OC3	15				D		F		M		Z	
SET-ATTR-SECUDFLT	15	A		C					M		Z	
SET-ATTR-STS1	15				D		F		M		Z	
SET-ATTR-STS3C	15				D		F		M		Z	
SET-ATTR-T1	15				D		F		M		Z	
SET-ATTR-T3	15				D		F		M		Z	
SET-ATTR-VT1	15				D		F		M		Z	
SET-DFLT-EC1	30		B						M		Z	
SET-DFLT-OC12	30		B						M		Z	
SET-DFLT-OC3	30		B						M		Z	
SET-DFLT-STS1	30		B						M		Z	
SET-DFLT-STS3C	30		B						M		Z	
SET-DFLT-T1	30		B						M		Z	
SET-DFLT-T3	30		B						M		Z	
SET-DFLT-VT1	30		B						M		Z	
SET-DFLTATTR-EC1	30				D				M		Z	
SET-DFLTATTR-F3	30				D				M		Z	
SET-DFLTATTR-OC12	30				D				M		Z	
SET-DFLTATTR-OC3	30				D				M		Z	
SET-DFLTATTR-STS1	30				D				M		Z	
SET-DFLTATTR-STS3C	30				D				M		Z	
SET-DFLTATTR-T1	30				D				M		Z	
SET-DFLTATTR-T3	30				D				M		Z	
SET-DFLTATTR-VT1	30				D				M		Z	
SET-DFLTPMREPT-EC1	15		B		D		F		M		Z	
SET-DFLTPMREPT-F3	15		B		D		F		M		Z	
SET-DFLTPMREPT-OC12	15		B		D		F		M		Z	
SET-DFLTPMREPT-OC3	15		B		D		F		M		Z	

Table H1 User Privilege Defaults (Continued)												
General Market (GM) & Green Commands	Default CCAL	Default CCFC Groups										Applicable Release (Blank=GM and Green)
		A	B	C	D	E	F	H	M	Y	Z	
SET-DFLTPMREPT-ST51	15		B		D		F		M		Z	
SET-DFLTPMREPT-ST53C	15		B		D		F		M		Z	
SET-DFLTPMREPT-T1	15		B		D		F		M		Z	
SET-DFLTPMREPT-T3	15		B		D		F		M		Z	
SET-DFLTPMREPT-VT1	15		B		D		F		M		Z	
SET-DFLTTH-EC1	30				D				M		Z	
SET-DFLTTH-OC12	30				D				M		Z	
SET-DFLTTH-OC3	30				D				M		Z	
SET-DFLTTH-ST51	30				D				M		Z	
SET-DFLTTH-ST53C	30				D				M		Z	
SET-DFLTTH-T1	30				D				M		Z	
SET-DFLTTH-T3	30				D				M		Z	
SET-DFLTTH-VT1	30				D				M		Z	
SET-GOS-EC1	15				D				M		Z	
SET-GOS-OC12	15				D				M		Z	
SET-GOS-OC3	15				D				M		Z	
SET-GOS-ST51	15				D				M		Z	
SET-GOS-ST53C	15				D				M		Z	
SET-GOS-T1	15				D				M		Z	
SET-GOS-T3	15				D				M		Z	
SET-GOS-VT1	15				D				M		Z	
SET-NODEID	30	A							M		Z	
SET-PMATTR-ALL	15		B		D				M		Z	
SET-PMMODE-EC1	15		B		D		F				Z	
SET-PMMODE-F3	15		B		D		F				Z	
SET-PMMODE-OC12	15		B		D		F				Z	
SET-PMMODE-OC3	15		B		D		F				Z	
SET-PMMODE-ST51	15		B		D		F				Z	
SET-PMMODE-ST53C	15		B		D		F				Z	
SET-PMMODE-T1	15		B		D		F				Z	

Table H1 User Privilege Defaults (Continued)												
General Market (GM) & Green Commands	Default CCAL	Default CCFC Groups										Applicable Release (Blank=GM and Green)
		A	B	C	D	E	F	H	M	Y	Z	
SET-PMMODE-T3	15		B		D		F				Z	
SET-PMMODE-VT1	15		B		D		F				Z	
SET-SID	30	A					F	H	M		Z	
SET-SYCN	15						F		M		Z	
SET-TH-EC1	15		B				F		M		Z	
SET-TH-OC12	15		B				F		M		Z	
SET-TH-OC3	15		B				F		M		Z	
SET-TH-STS1	15		B				F		M		Z	
SET-TH-STS3C	15		B				F		M		Z	
SET-TH-T1	15		B				F		M		Z	
SET-TH-T3	15		B				F		M		Z	
SET-TH-VT1	15		B				F		M		Z	
SET-TPMMODE-T3									M		Z	Green
SET-WARN-MSG	31								M		Z	
STA-ISU	31								M		Z	
START-CID	15	A							M		Z	
START-ITMMODE	30	A							M		Z	
START-ITMTEST	30	A							M		Z	
START-MON-CPORT	15	A							M		Z	
START-OPS	30								M		Z	
START-UPGRADE	30	A							M		Z	
STOP-CID	15	A							M		Z	
STOP-ITMMODE	30	A							M		Z	
STOP-ITMTEST	30	A							M		Z	
STOP-MON-CPORT	15	A							M		Z	
STOP-OPS	30								M		Z	
STOP-UPGRADE	30	A							M		Z	
STP-ISU	31								M		Z	
SW-DX-EQPT	15			C			F		M		Z	
SW-TOPROTN-EQPT	15			C			F		M		Z	

Table H1 User Privilege Defaults (Continued)													
General Market (GM) & Green Commands	Default CCAL	Default CCFC Groups										Applicable Release (Blank=GM and Green)	
		A	B	C	D	E	F	H	M	Y	Z		
SW-TOWKG-EQPT	15			C			F		M		Z		
VRFY-COPY	30	A							M		Z		

APPENDIX I. VDT FUNCTION KEYS

This appendix provides a description of the VDT function keys for each of the VDT input/output modes of operation.

The VDT input/output modes are

- Direct Command Input Mode (Direct Mode),
- Command Input Menu Mode (Menu Mode), and
- Command Input Forms Mode (Forms Mode).

The action performed by the VDT function keys varies depending on the VDT input/output mode.

I.1. Direct Command Input Mode Function Keys

The following VDT function keys are active when the VDT is in the Direct Command Input Mode:

- F7 Mode key: Transfers the VDT operation to the Menu Mode.
- F8 Alarms key: Displays the most recent system alarms and enables alarm scrolling in the VDT screen work area.
- F9 Output key: Displays the most recent system-generated output messages and enables message scrolling in the VDT screen work area.
- F11 Clr Fld key: Clears any keyboard entries on the command input line.
- F12 Abt Out key: Aborts the output message currently being displayed in the VDT screen work area (a TTY device does not have the Abort_Out capability).
- F19 Recall Fwd key: Displays the next command from the VDT recall buffer in the command input line. Successive key presses sequentially display up to 20 previously used commands. Recalled commands can be edited and executed from the command input line.
- F20 Recall Bkwd key: Displays the previous command from the recall buffer in the command input line. Successive key presses sequentially display up to 20 previously used commands. Recalled commands can be edited and executed from the command input line.

I.2. Command Input Menu Mode Function Keys

The following VDT function keys are active when the VDT is in the Menu Mode:

- F7 Mode key: Transfers the VDT operation to the Direct Command Input Mode.
- F8 Alarms key: Displays the most recent system alarms and enables alarm scrolling in the VDT screen work area.
- F9 Output key: Displays the most recent system-generated output messages and enables message scrolling in the VDT screen work area.
- F10 Parent key: Displays the previous-level menu screen from which the currently displayed menu or form screen was selected.
- F11 Abort key: Displays the first-level (main) menu screen.

I.3. Command Input Forms Mode Function Keys

The following VDT function keys are active when the VDT is in the Command Input Forms Mode:

F7 Mode key:	Transfers the VDT operation to the Direct Command Input Mode.
F8 Alarms key:	Displays the most recent system alarms and enables alarm scrolling in the VDT screen work area.
F9 Output key:	Displays the most recent system-generated output messages and enables message scrolling in the VDT screen work area.
F11 Abt In key:	Aborts the Input Form (no command is executed from the Form) and transfers the VDT operation to the Direct Command Input Mode.
F17 ClrFld key:	Clears the keyboard entry for the currently selected form input data field.
F19 Execute key:	Causes the command for the currently displayed input form to be executed with the parameter values populated from the form input data fields.
F20 Ex/Recycle key:	Executes the command shown in the command input line.

I.3.1. Command Input Forms Mode Editing Keys

Right Arrow	Moves the cursor one character to the right in a form input data field, skipping any blanks between fields.
Left Arrow	Moves the cursor one character to the left in a form input data field, skipping any blanks between fields.
Up Arrow	Moves the cursor to the beginning of the previous form input data field. If the cursor is in the top field of the form, the cursor skips to the bottom field.
Down Arrow	Moves the cursor to the beginning of the next form input data field. If the cursor is in the bottom field of the form, the cursor skips to the top field.
Tab	Operates the same as the down-arrow key.
Back space	Deletes the character to the left of the cursor.
Remove	Deletes the character at the cursor position.